SP C840DN/SP C842DN
Machine Code: M0AJ/M0AL
Field Service Manual
Ver 1.01

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Installation

Section	Item	Note
Mail Box CS3010	Installation Procedure	Pictures in step 4 and step 5 are revised.

Replacement and Adjustment

Section	Item	Note
Image Adjustment	Adjustment by Changing the Machine's Profile Setting > Procedure to Change the Profile Setting	Value to select in step 2 is revised.

Read This First

Important Safety Notices

Warnings, Cautions, Notes

In this manual, the following important symbols and notations are used.

⚠WARNING

- A Warning indicates a potentially hazardous situation. Failure to obey a Warning could result in death or serious injury.

⚠CAUTION

- A Caution indicates a potentially hazardous situation. Failure to obey a Caution could result in minor or moderate injury or damage to the machine or other property.

Important

- Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.

Note

- This information provides tips and advice about how to best service the machine.

General Safety Instructions

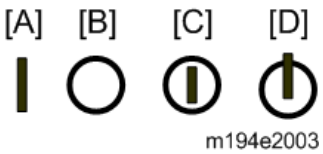
For your safety, please read this manual carefully before you use this product. Keep this manual handy for future reference.

Safety Information

Always obey the following safety precautions when using this product.

Safety During Operation

In this manual, the following important symbols and notations are used.



[A]: ON

[B]: OFF

[C]: Push ON/Push OFF

[D]: Standby

Switches and Symbols

Where symbols are used on or near switches on machines for Europe and other areas, the meaning of each symbol conforms with IEC60417.

Safety

Prevention of Physical Injury

1. Before disassembling or assembling parts of the machine and peripherals, make sure that the machine and peripheral power cords are unplugged.
2. The plug should be near the machine and easily accessible.
3. Note that some components of the machine and the paper tray unit are supplied with electrical voltage even if the main power switch is turned off.
4. Always unplug the power cord from the power source before you move the product. Before you move the machine, arrange the power cord so it will not fall under the machine.
5. Disconnect all peripheral units (finisher, LCT, etc.) from the mainframe before you move the machine.
6. If any adjustment or operation check has to be made with exterior covers off or open while the main switch is turned on, keep hands away from electrified or mechanically driven components.
7. The machine drives some of its components when it completes the warm-up period. Be careful to keep hands away from the mechanical and electrical components as the machine starts operation.
8. The inside and the metal parts of the fusing unit become extremely hot while the machine is operating. Be careful to avoid touching those components with your bare hands.
9. To prevent a fire or explosion, keep the machine away from flammable liquids, gases, and aerosols.
10. Do not use flammable sprays or solvent in the vicinity of the machine. Also, avoid placing these items in the vicinity of the machine. Doing so could result in fire or electric shock.
11. To avoid fire or explosion, never use an organic cleaner near any part that generates heat.
12. Clean the floor completely after accidental spillage of silicone oil or other materials to prevent slippery surfaces that could cause accidents leading to hand or leg injuries.
13. Never remove any safety device unless it requires replacement. Always replace safety devices immediately.
14. Never do any procedure that defeats the function of any safety device.
15. Modification or removal of a safety device (fuse, switch, etc.) could lead to a fire and personal injury. Always test the operation of the machine to ensure that it is operating normally and safely after removal and replacement of any safety device.
16. For replacements use only the correct fuses or circuit breakers rated for use with the machine. Using replacement devices not designed for use with the machine could lead to a fire and personal injuries.
17. For machines installed with the ADF/ARDF:
    When a thick book or three-dimensional original is placed on the exposure glass and the ARDF cover is lowered, the back side of the ARDF rises up to accommodate the original. Therefore, when closing the ARDF, please be sure to keep your hands away from the hinges at the back of the ARDF.
18. When using a vacuum cleaner around the machine, keep others away from the cleaner, especially small children.
19. For machines installed with the anti-tip components:
    The anti-tip components are necessary for meeting the requirements of IEC60950-1, the international standard for safety. The aim of these components is to prevent the products, which are heavy in weight, from

toppling as a result of people running into or leaning onto the products, which can lead to serious accidents such as persons becoming trapped under the product. (U.S.: UL60950-1, Europe: EN60950-1) Therefore, removal of such components must always be with the consent of the customer. Do not remove them at your own judgment.

20. **NEVERtouch** the AC circuits on the PSU board to prevent electric shock caused by residual charge. Residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.

Health Safety Conditions

1. For the machines installed with the ozone filters:
   - Never operate the machine without the ozone filters installed.
   - Always replace the ozone filters with the specified types at the proper intervals.
2. The machine, which use high voltage power source, can generate ozone gas. High ozone density is harmful to human health. Therefore, locate the machine in a large well ventilated room that has an air turnover rate of more than $50m^3$/hr/person.
3. Toner and developer are non-toxic, but if you get either of them in your eyes by accident, it may cause temporary eye discomfort. Try to remove with eye drops or flush with water as first aid. If unsuccessful, get medical attention.

Observance of Electrical Safety Standards

1. The machine and its peripherals must be installed and maintained by a customer service representative who has completed the training course on those models with exceptions on some machines where the installation can be handled by the user.

Safety and Ecological Notes for Disposal

1. Do not incinerate toner bottles or used toner. Toner dust may ignite suddenly when exposed to an open flame.
2. Dispose of used toner, developer, organic photoconductors, and AIO unit in accordance with local regulations. (These are non-toxic supplies.)
3. Dispose of replaced parts in accordance with local regulations.
4. When keeping used lithium batteries in order to dispose of them later, do not put more than 100 batteries per sealed box. Storing larger numbers or not sealing them apart may lead to chemical reactions and heat build-up.
5. The danger of explosion exists if a battery of this type is incorrectly replaced. Replace only with the same or an equivalent type recommended by the manufacturer. Discard used batteries in accordance with the manufacturer's instructions.

Handling Toner

- Work carefully when removing paper jams or replacing toner bottles or cartridges to avoid spilling toner on clothing or the hands.

- If toner is inhaled, immediately gargle with large amounts of cold water and move to a well-ventilated location. If there are signs of irritation or other problems, seek medical attention.
- If toner gets on the skin, wash immediately with soap and cold running water.
- If toner gets into the eyes, flush the eyes with cold running water or eye wash. If there are signs of irritation or other problems, seek medical attention.
- If toner is swallowed, drink a large amount of cold water to dilute the ingested toner. If there are signs of any problem, seek medical attention.
- If toner spills on clothing, wash the affected area immediately with soap and cold water. Never use hot water! Hot water can cause toner to set and permanently stain fabric.
- Always store toner and developer supplies such as toner and developer packages, cartridges, bottles (including used toner and empty bottles and cartridges), and AIO unit out of the reach of children.
- Always store fresh toner supplies or empty bottles or cartridges in a cool, dry location that is not exposed to direct sunlight.
- Do not use a vacuum cleaner to remove spilled toner (including used toner). Vacuumed toner may cause a fire or explosion due to sparks or electrical contact inside the cleaner. However, it is possible to use a cleaner designed to be dust explosion-proof. If toner is spilled over the floor, sweep up spilled toner slowly and clean up any remaining toner with a wet cloth.

Handling the development unit cooling system

For the machines installed the development cooling system:

1. The development unit cooling system circulates propylene glycol from a sealed tank through hoses that pass behind cooling plates on the sides of each development unit.
2. The coolant tank is located at the bottom of the cooling box on the back of the main machine.
3. Always obey local laws and regulations if you need to dispose of a tank or the propylene glycol coolant.
4. The tank must never be emptied directly into a local drainage system, river, pond, or lake.
5. Contact a professional industrial waste disposal organization and ask them to dispose of the tank.

Laser Safety

The Center for Devices and Radiological Health (CDRH) prohibits the repair of laser-based optical units in the field. The optical housing unit can only be repaired in a factory or at a location with the requisite equipment. The laser subsystem is replaceable in the field by a qualified Customer Engineer. The laser chassis is not repairable in the field. Customer engineers are therefore directed to return all chassis and laser subsystems to the factory or service depot when replacement of the optical subsystem is required.

⚠WARNING

- Use of controls, or adjustment, or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

WARNING FOR LASER UNIT
WARNING: Turn off the main switch before attempting any of the procedures in the Laser Unit section. Laser beams can

seriously damage your eyes.

_safe006

_safe007

_safe008

Safety Instructions for the Color Controller

Fuse

The color controller uses a double pole fuse. If this fuse blows, be sure to replace it with an identical fuse.

Batteries

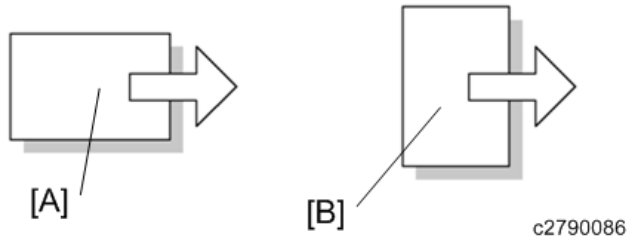
1. Always replace a battery with the same type of battery prescribed for use with the color controller unit. Replacing a battery with any type other than the one prescribed for use could cause an explosion.
2. Never discard used batteries by mixing them with other batteries or other refuse.
3. Always remove used batteries from the work site and dispose of them in accordance with local laws and regulations regarding the disposal of such items.

Symbols, Abbreviations and Trademarks

Symbols, Abbreviations

This manual uses several symbols and abbreviations. The meaning of those symbols and abbreviations are as follows:

Symbol	What it means
	Clip ring
	Screw
	Connector
	Clamp
	E-ring
	Flat Flexible Cable
	Timing Belt
SEF	Short Edge Feed
LEF	Long Edge Feed
K	Black
C	Cyan
M	Magenta
Y	Yellow
B/W, BW	Black and White
FC	Full color



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

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Microsoft® Windows Vista® Home Premium

Microsoft® Windows Vista® Home Basic

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Microsoft® Windows Server® 2012 R2 Standard

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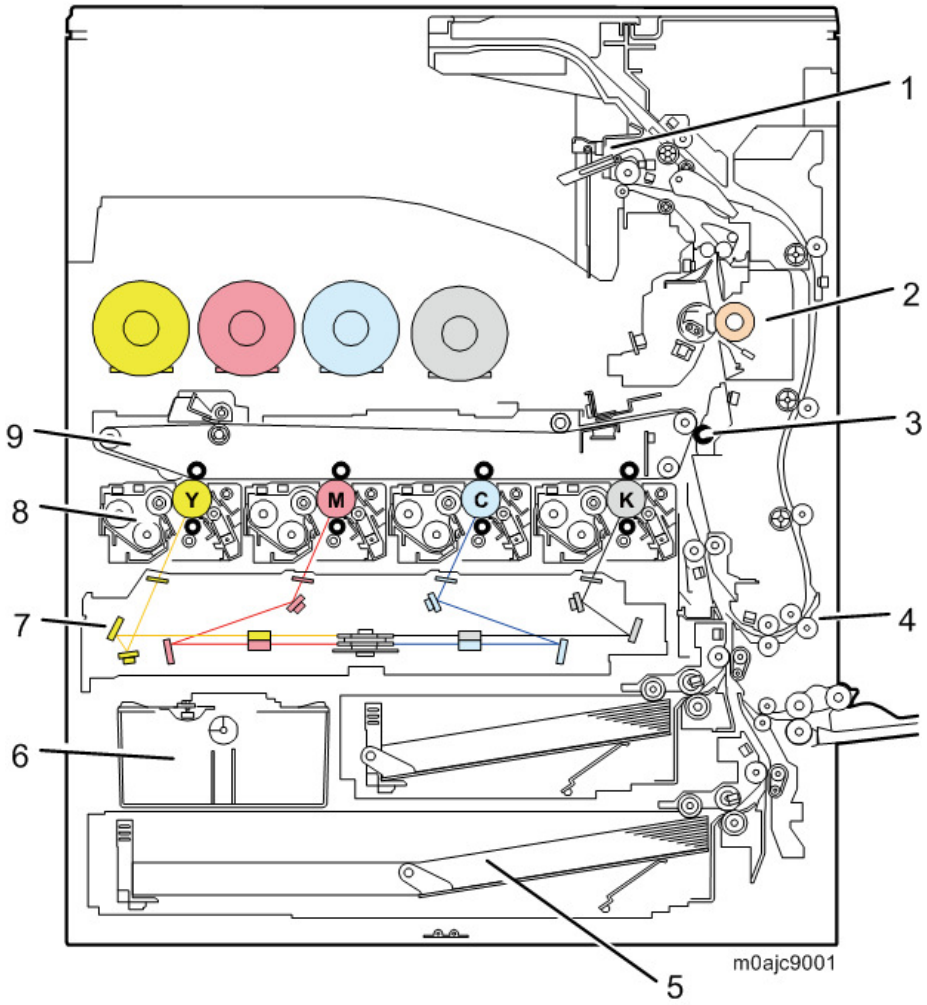
1. Product Information

Product Overview

Component Layout

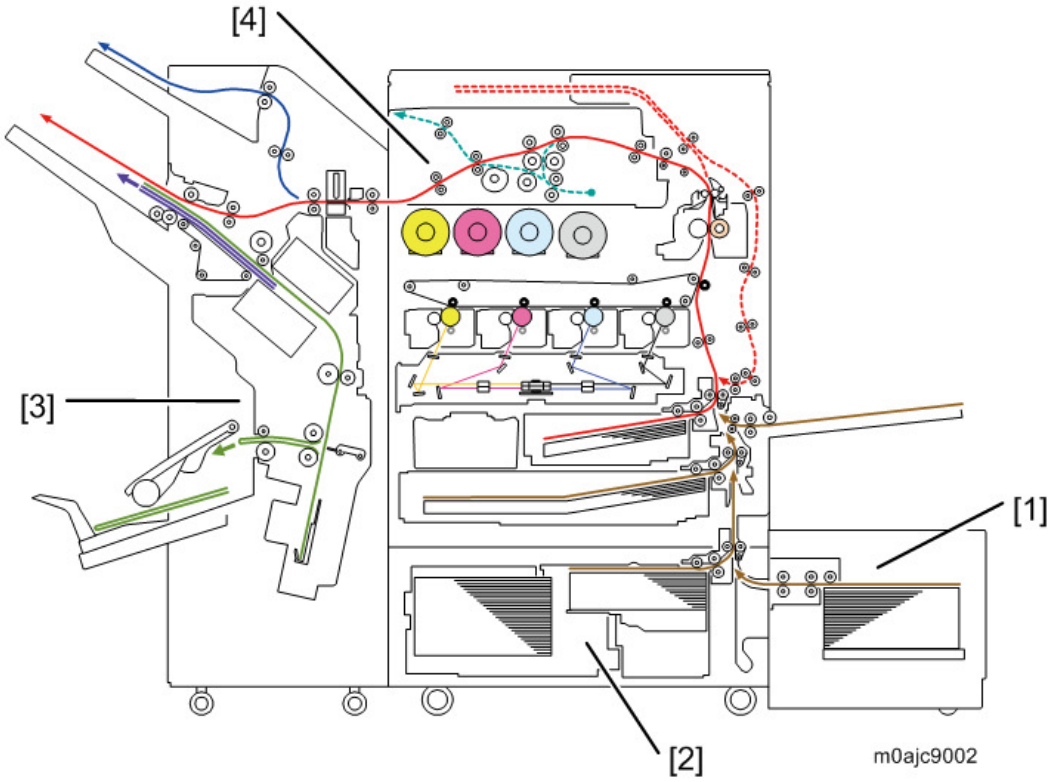
Note

- For details about electrical components layout, refer to Detailed Descriptions.

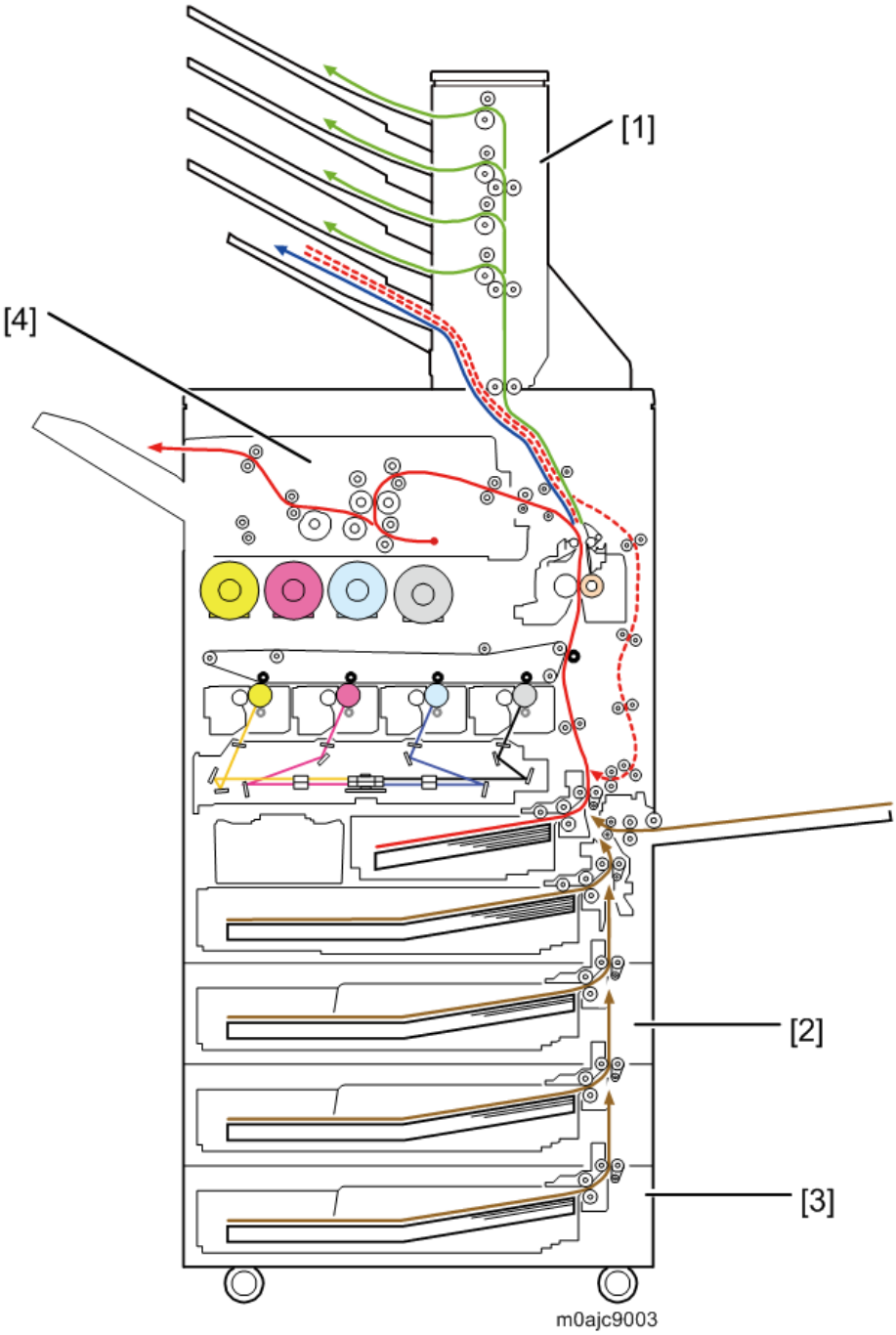


No.	Description	No.	Description
1	Paper Exit Unit	6	Waste Toner Unit
2	Fusing Unit	7	Laser Exposure Unit
3	Paper Transfer Unit	8	PCDU
4	Duplex Unit	9	Image Transfer Unit
5	Paper Feed Unit		

Paper Path

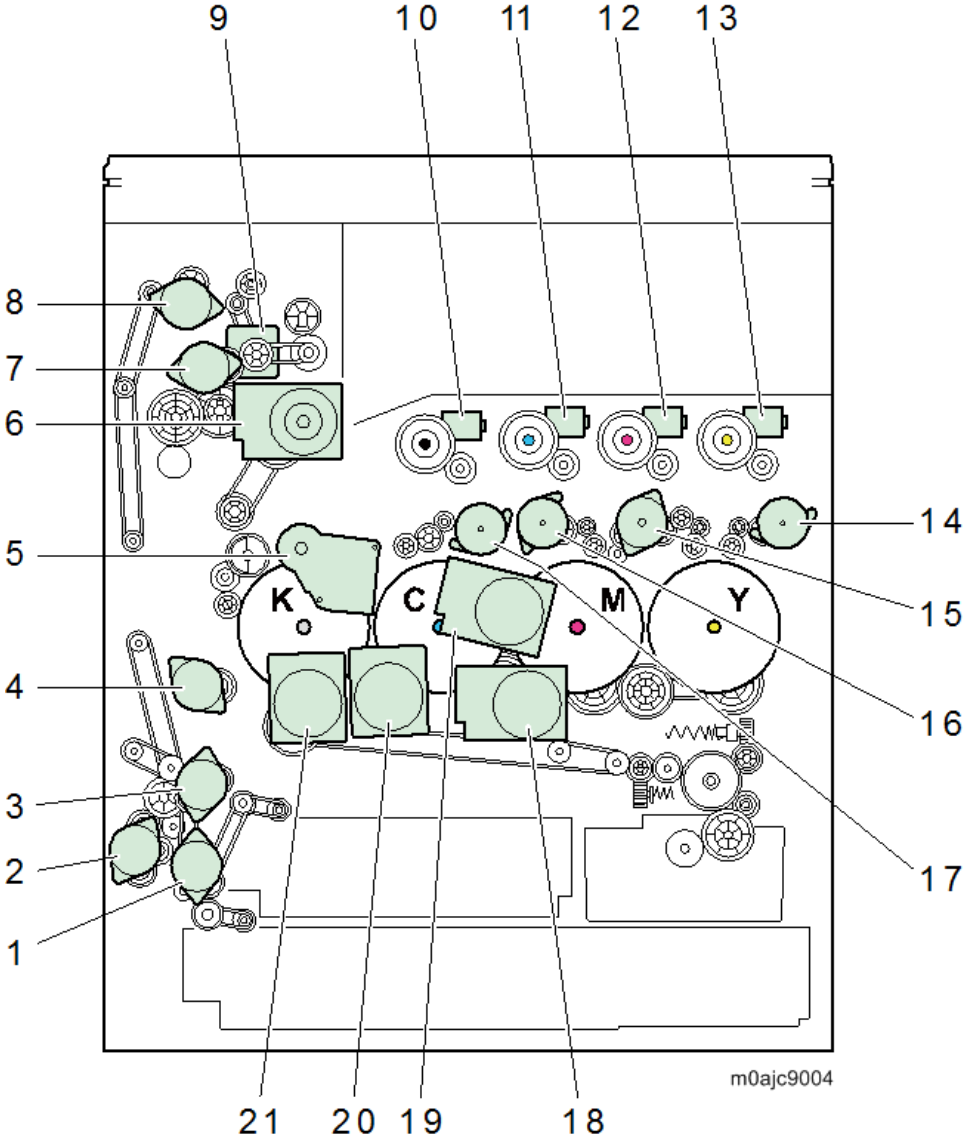


No.	Description	No.	Description
1	LCIT RT3030	3	Booklet Finisher SR3220
2	LCIT PB3260	4	Internal Multi-fold Unit FD3000



No.	Description	No.	Description
1	Mail Box CS3010	3	Paper Feed Unit PB3240
2	Paper Feed Unit PB3250	4	Internal Multi-fold Unit FD3000

Drive Layout



No.	Description	No.	Description
1	Paper feed motor	13	Toner bottle drive motor (Y)
2	Duplex / Bypass motor	14	Toner supply motor (Y)
3	Transport motor	15	Toner supply motor (M)
4	Registration motor	16	Toner supply motor (C)
5	Paper transfer contact motor	17	Toner supply motor (Bk)
6	Fusing motor	18	Development Motor: CMY
7	Paper exit / Pressure release motor	19	PCU Motor: CMY
8	Duplex entrance motor	20	Development Motor: Black
9	Reverse motor	21	PCU: Black / ITB drive motor
10	Toner bottle drive motor (Bk)	-	-
11	Toner bottle drive motor (C)	-	-
12	Toner bottle drive motor (M)	-	-

Machine Codes and Peripherals Configuration

Main Machine

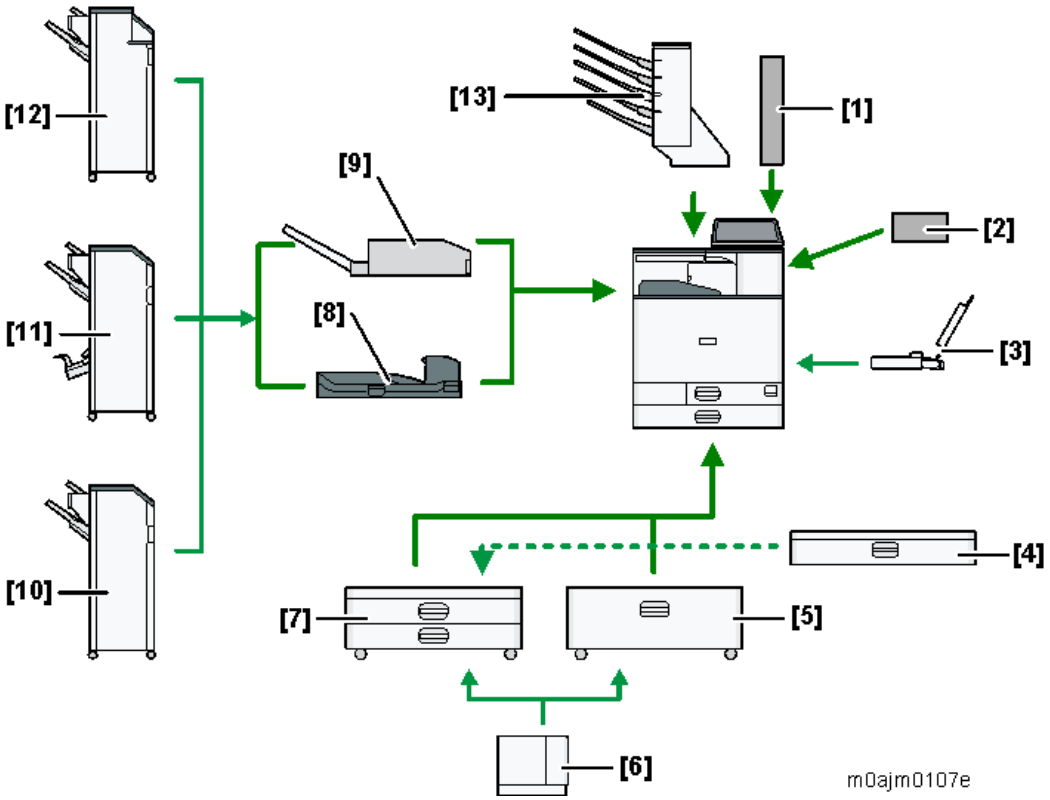
Machine Code	Product Name	HDD	PPM
M0AJ17 (NA) M0AJ27 (EU) M0AJ29 (AA) M0AJ21 (CHN)	SP C840DN	Opt.	FC: 45 ppm / BW: 45 ppm
M0AL17(NA) M0AL27(EU) M0AL29(AA/KOR)	SP C842DN	Std.	FC: 60 ppm / BW: 60 ppm

Options

Product Name	Code	EU	NA	AA	KOR	CHN
Hardware options						
Paper Feed Unit PB3240	M494	-17	-17	-17	-17	-21
Paper Feed Unit PB3250	M495	-17	-17	-17	-17	-21
LCIT PB3260	M496	-17	-27	-27	-27	-21
LCIT RT3030	D696	-17	-27	-27	-27	-21
Bridge Unit BU3070	D685	-18	-18	-18	-18	-22
Finisher SR3210	D3B8	-17	-17	-17	-17	-21
Booklet Finisher SR3220	D3B9	-17	-17	-17	-17	-21
Punch Unit PU3050 NA	D717	-17	-17	-17	-17	**N/A**
Punch Unit PU3050 EU	D717	-27	-27	-27	-27	-21
Punch Unit PU3050 SC	D717	-28	-28	-28	-28	**N/A**
Finisher SR3230	D3BA	-17	-17	-17	-17	-21
Punch Unit PU3060 NA	D706	-00	-00	-00	-00	**N/A**
Punch Unit PU3060 EU	D706	-01	-01	-01	-01	-03
Punch Unit PU3060 SC	D706	-02	-02	-02	-02	**N/A**
Output Jogger Unit Type M25	D3CJ	-01	-01	-01	-01	-01
Attention Light AL3000	M500	-36	-36	-36	-36	-36
Internal Multi-fold Unit FD3000	M482	-17	-17	-17	-17	-21
Mail Box CS3010	M481	-17	-17	-17	-17	-17
Banner Paper Guide Tray Type M19	D3BF	-00	-00	-00	-00	-00
Imageable Area Extension Unit Type P11	M500	-49	-49	-49	-49	-49
Controller Options						

Product Name	Code	EU	NA	AA	KOR	CHN
NFC Card Reader Type P11	M512	-18	-18	-18	-18	-18
External NFC Card Reader Bracket Type P11	M512	-17	-17	-17	-17	-17
IEEE 802.11a/g/n Interface Unit Type M19	D3BR	-01	-01	-01	**N/A**	**N/A**
Extended USB Board Type M19	D3BS	-01	-01	-01	-01	-01
IEEE 1284 Interface Board Type M19	D3C0	-17	-17	-17	-17	-17
XPS Direct Print Option Type P11	M500	-42	-43	-44	-44	-44
USB Device Server Option Type M19	D3BC	-28	-29	-29	-29	-29
HDD Option Type P11	M500	-51	-51	-51	**N/A**	-51
PostScript3 Unit Type P11	M500	-63	-64	-65	-65	-65
Camera Direct Print Card Type M19	D3BD	-13	-13	-13	-13	-13
VM Card Type P8	M500	-09	-10	-11	-11	-11
IPDS Unit Type P11	M500	-45	-46	-47	-47	-47
SD Card for Fonts Type E	M500	**N/A**	-66	**N/A**	**N/A**	**N/A**
Korean Language Kit Type SP C842	M0AJ	**N/A**	**N/A**	**N/A**	-30	**N/A**

Diagram



No.	Item	Remarks
1	Attention Light AL3000	New
2	NFC Card Reader Type P11	New
3	Banner Paper Guide Tray Type M19	Common (Met-C2)
4	Paper Feed Unit PB3250	New
5	LCIT PB3260	New
6	LCIT RT3030	Common (Met-C1/C2)
7	Paper Feed Unit PB3240	New
8	Bridge Unit BU3070	Common (Met-C2)
9	Internal Multi-fold Unit FD3000	New
10	Finisher SR3210	Common (Met-C2)
11	Booklet Finisher SR3220	Common (Met-C2)
12	Finisher SR3230	Common (Met-C2)
13	Mail Box CS3010	New

Specifications

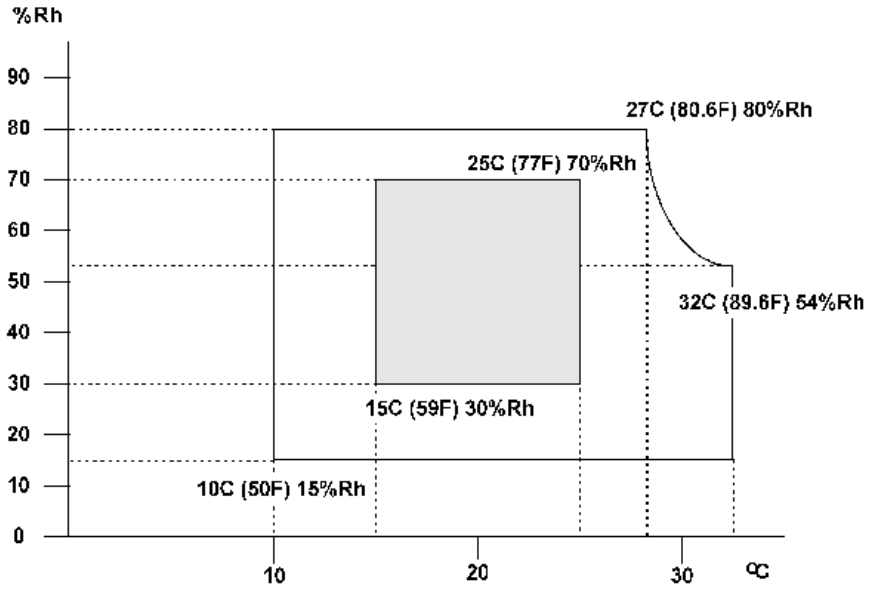
See "Appendices" for the following information:

- General Specifications
- Supported Paper Sizes
- Software Accessories
- Optional Equipment
- Other Specifications

2. Installation

Installation Requirements

Environment



Temperature Range:	10°C to 32°C (50°F to 90°F)
Humidity Range:	15% to 80% RH
Ambient Illumination:	Less than 1,500 lux (do not expose to direct sunlight.)
Ventilation:	Room air should turn over at least 30 m3/hr/person

1. Avoid areas exposed to sudden temperature changes:
   1) Areas directly exposed to cool air from an air conditioner.
   2) Areas directly exposed to heat from a heater.
2. Do not place the machine where it will be exposed to corrosive gases.
3. Do not install the machine at any location over 2,000 m (6,500 ft.) above sea level. (NA models can be installed up to 2,500m (8,202 ft.))
4. Place the main machine on a strong and level base. Inclination on any side should be no more than 5 mm (0.2").
5. Do not place the machine where it may be subjected to strong vibrations.

Machine Level

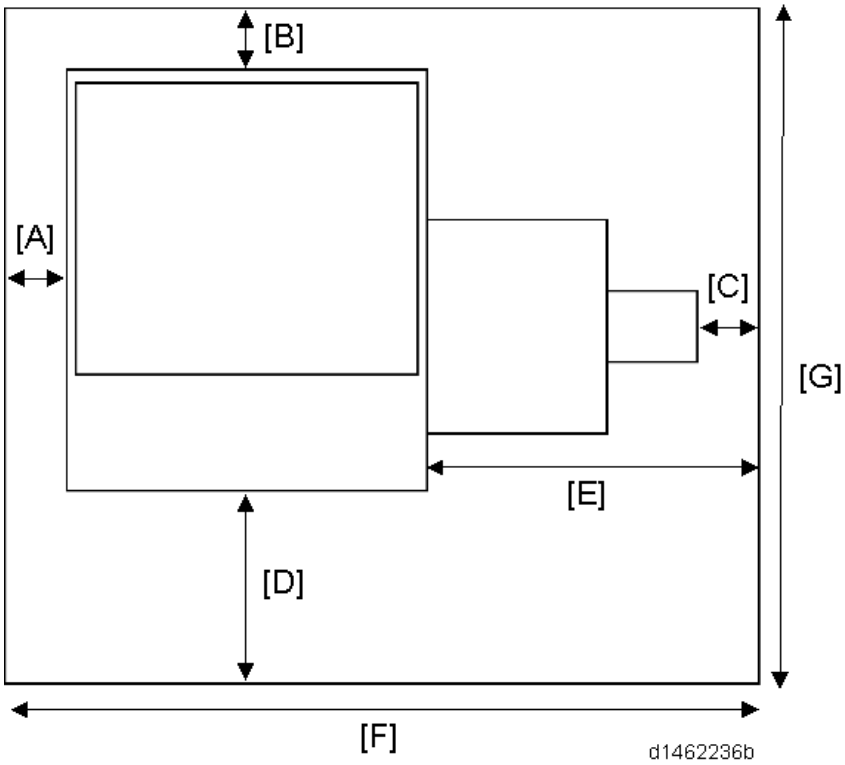
Front to back: Within 5 mm (0.2")

Right to left: Within 5 mm (0.2")

Machine Space Requirements

Note

- These are the minimum space requirements.



[A]	Left	Over 100 mm (3.9")	[F]	Width	1202mm (40")*
[B]	Rear	Over 100 mm (3.9")	[G]	Depth	1102mm (43.3")
[C]	Right with Bypass tray	Over 100 mm (3.9")	-	-	-
[D]	Front	Over 750 mm (29.5")	-	-	-
[E]	Right	Over 500 mm (19.7")	-	-	-

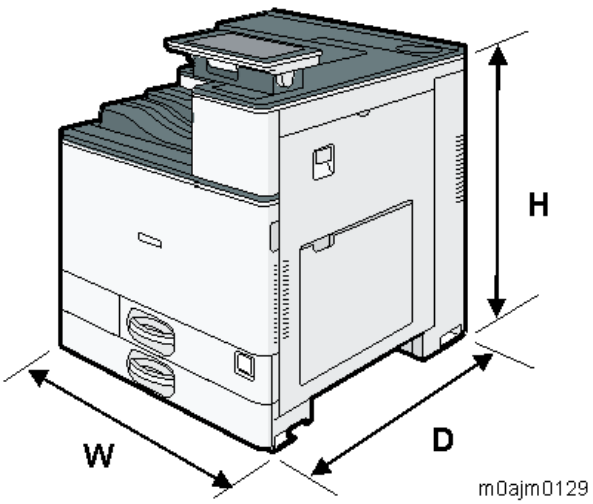
Put the machine near the power source with the clearance shown above.

*The width [F] includes the main machine, the bypass tray, the bypass tray extension, [A] and [C].

Machine Dimensions

Main frame

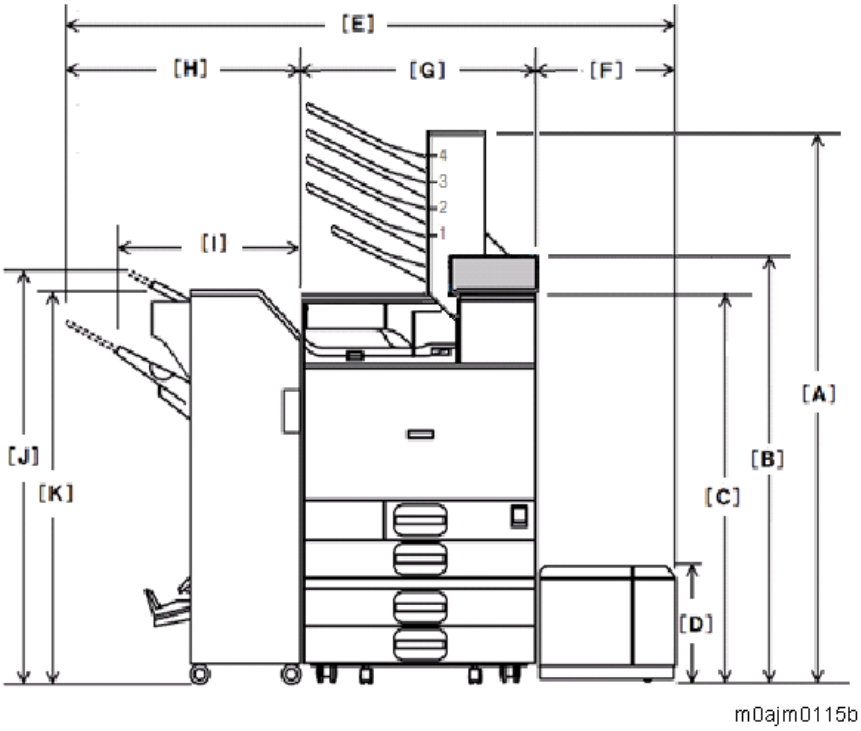
W x D x H: 587 x 685 x 725 mm (23.2 x 27.0 x 28.6 inches)



With peripherals

Configuration 1:

SP C840DN with Mail Box CS3010, Bridge Unit BU3070, Booklet Finisher SR3220, Paper Feed Unit PB3240, and LCIT RT3030.

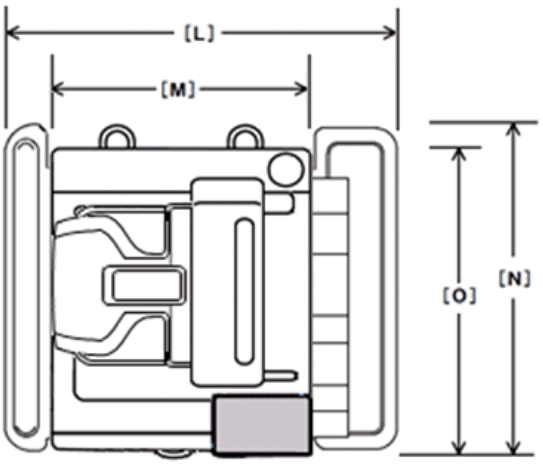


A	1569.3mm (61.78")	G	587mm (23.11")
B	1105.3mm (43.51")	H	When the 1000-sheet booklet finisher is installed: 575 to 660mm (22.63 to 25.98") When the 3000-sheet finisher is installed: 657 to 756mm (25.86 to 29.76")
C	967mm (38.07")	I	When the 1000-sheet booklet finisher is installed: 575mm (22.63") When the 3000-sheet finisher is installed: 657mm (25.86")

D	290mm (11.41")	J	When the 1000-sheet booklet finisher is installed: 1045mm (41.14") When the 3000-sheet finisher is installed: 1028mm (10.47")
E	1683mm (66.25")	K	When the 1000-sheet booklet finisher is installed: 986mm (38.81") When the 3000-sheet finisher is installed: 973mm (38.30")
F	340mm (13.38")	-	-

Configuration 2:

SP C840DN with Mail Box CS3010 (with stabilizers) and Paper Feed Unit PB3240.



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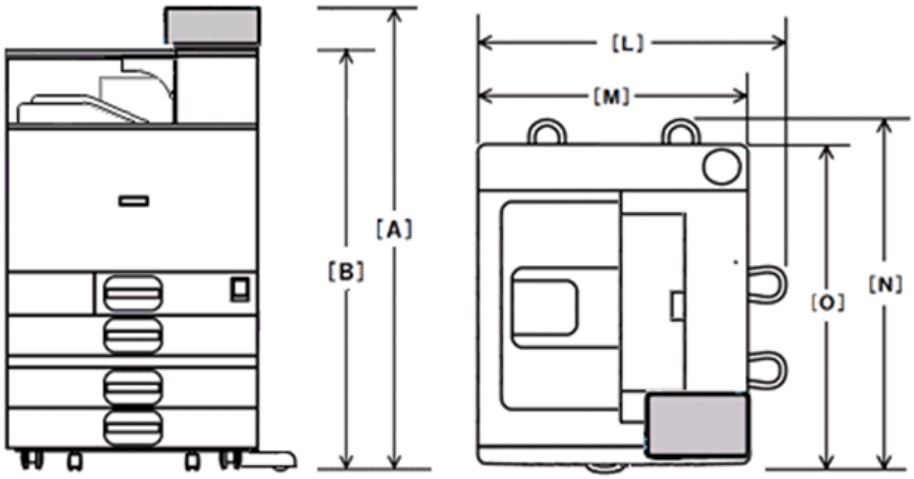
L	917mm (36.10")
M	587mm (23.11")
N	765mm (30.11")
O	685mm (26.96")

Configuration 3:

SP C840DN is equipped with Paper Feed Unit PB3240.



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A	1105.3mm (43.51")	L	668mm (26.29")
B	967mm (38.07")	M	587mm (23.11")

-	-	N	738mm (29.05")
-	-	O	685mm (26.96")

Power Requirements

⚠CAUTION

- Insert the plug firmly in the outlet.
- Do not use an outlet extension plug or cord.
- Ground the machine.

Input voltage level

Destination	Power supply voltage	Rated current consumption	Permissible voltage fluctuation
NA	120 to 127V	12A or more	Image quality guaranteed: 108V(120V-10%) to 138V(127V+8.66%) Machine operation guaranteed: 102V(120V-15%) to 138V(127V+8.66%)
EU	220 to 240V	10A	Image quality guaranteed: 198V(220V-10%) to 264V(240V+10%) Machine operation guaranteed: 187V(220-15%) to 276V(240V+15%)
AP			
CHN			

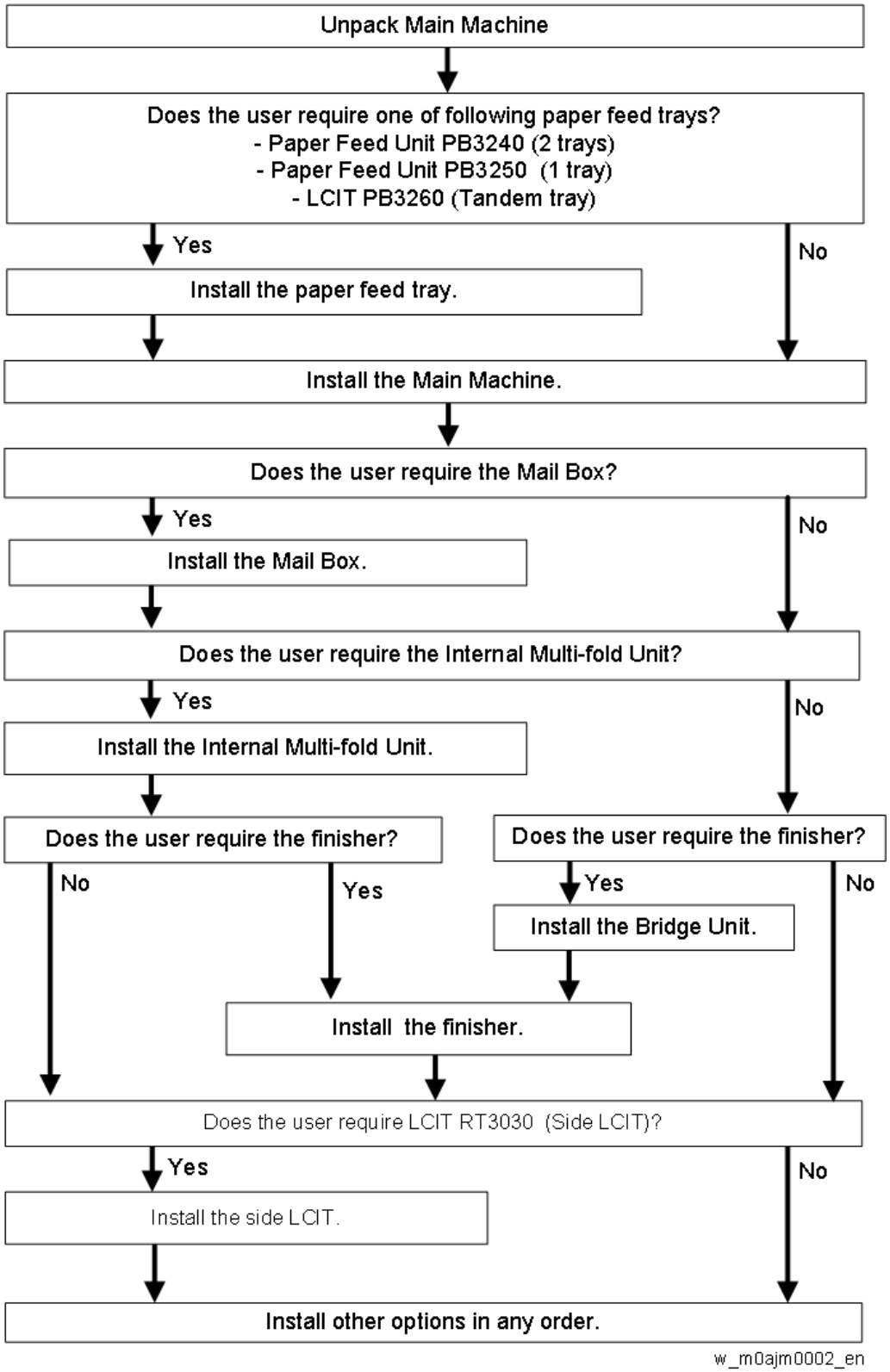
Who Installs the Peripherals and Options

U: User installation, S: Service installation

Peripherals and Options	Remarks
Paper Feed Unit PB3240 (2-Tray)	U
Paper Feed Unit PB3250 (1-Tray)	U
LCIT PB3260 (2000 sheets)	U
LCIT RT3030 (1500 sheets)	S
Mail Box CS3010 (4-Bin)	S
Bridge Unit BU3070	S
Finisher SR3210 (1000 sheets)	S
Booklet Finisher SR3220 (1000 sheets)	S
Finisher SR3230 (3000 sheets)	S
Output Jogger Unit Type M25	S
Banner Paper Guide Tray Type M19	S
Punch Unit PU3050	S
Punch Unit PU3060	S
Internal Multi-fold Unit FD3000	S
Imageable Area Extension Unit Type P11	S
PostScript3 Unit Type P11	U
XPS Direct Print Option Type P11	U
IPDS Unit Type P11	U
VM CARD Type P8	U
Camera Direct Print Card Type M19 (PictBridge)	U
HDD Option Type P11	U
IEEE 802.11a/g/n Interface Unit Type M19	U
IEEE 1284 Interface Board Type M19	U
USB Device Server Option Type M19	S
Extended USB Board Type M19	U
External NFC Card Reader Bracket Type P11	S
NFC Card Reader Type P11	S
Attention Light AL3000	S
Korean Language Kit Type SP C842	U

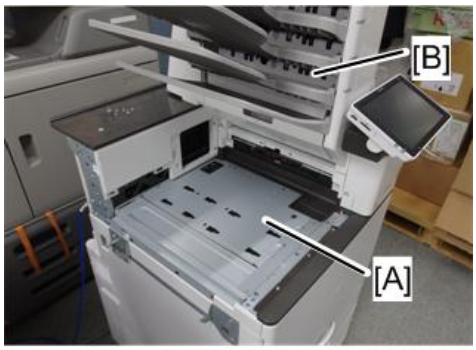
Main Machine Installation

Installation Flow Chart



Note

When installing the Internal Multi-fold Unit FD3000 and the Mail Box CS3010 at the same time, first install the base plate [A] of the internal multi-fold unit, then install the mailbox [B]. Then, finish installing the internal multi-fold unit.



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Put the machine on the paper feed tray (1 tray/2 trays) or the LCT (tandem tray) first, then install the machine and other options.

You need **Paper Feed Unit PB3240 (M494)** or **LCIT PB3260 (M496)** to align the paper transport path if you want to install the following peripherals.

- Finisher SR3210 (D3B8-17, -21)
- Booklet Finisher SR3220 (D3B9-17, -21)
- Finisher SR3230 (D3BA-17, -21)
- LCIT RT3030 (D696-17, -27,-21)

Accessory Check

Description	NA	EU	AA	CHN
Color chart	1	1	1	1
Decal: Paper Tray/Paper Size	1	1	1	1
Decal: Inkjet	1	1	1	1
Sheet (AIRPRINT)	1	1	1	-
User manual: Read This First	1	1	1	-
User manual: Quick Installation Guide	1	1	1	-
User manual: Start Guide	1	1	1	-
Sheet: Notes for Users (Security)	1	1	1	1
Caution: Wireless LAN (Bluetooth/Wireless LAN)	1	1	1	-
Caution: FCC	1	-	-	-
Caution: CE	-	1	-	-
Caution: FCC (for Canada)	1	-	-	-
Sheet: Notes for Users (about the NFC Tag)	1	1	1	-

Description	NA	EU	AA	CHN
NFC Tag	1	1	1	1
CD-ROM (html manuals)	1	1	1	1
Sheet: EULA (21 Languages)	1	1	1	-
Seal: Caution (21 Languages)	1	1	1	1
CD-ROM (drivers)	1	1	1	1
Power Cord	1	1	1	1
Card: HELP DESK	1	-	-	-
Sheet: Customer Registration	1	-	-	-
Warranty	1	-	-	-
Warranty (Chinese)	-	-	-	1
I/F Connection Cover	1	1	1	1
Toner Bottle (for China)	-	-	-	1
Decal: Bluetooth	1	1	1	1
Sheet: Errata	-	-	1	-

Installation Procedure

⚠CAUTION

- Be sure to secure space around the machine in advance.
- The power cord is placed under the machine, so be sure to take it out.

Removal of Packing Materials and Shipping Retainers

1. Remove the shipping box [A].

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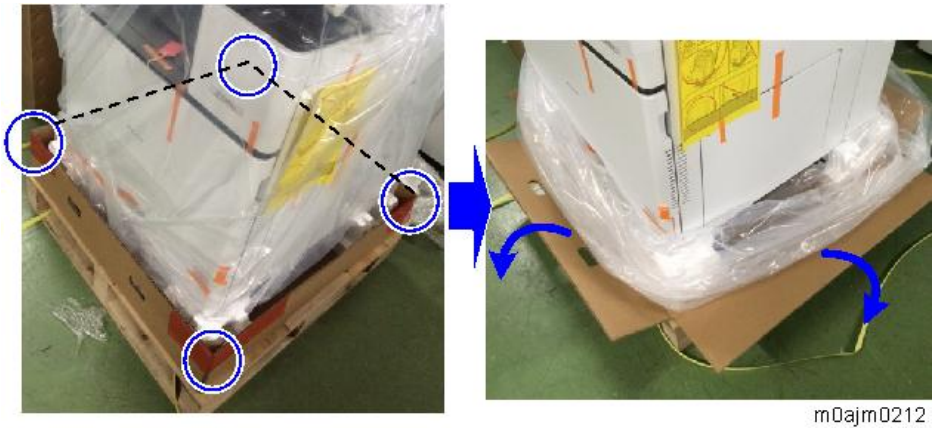
2. Cut the tapes on the on the cardboard box and open the cardboard flaps.



3. Remove the retainer [A] at the lower front right before lifting up the machine, because the handle for lifting the machine is hidden by the retainer [A].

4. Hold the handles located on both sides (blue circles), and then lift it slowly. Lifting it carelessly or dropping it may cause an injury.

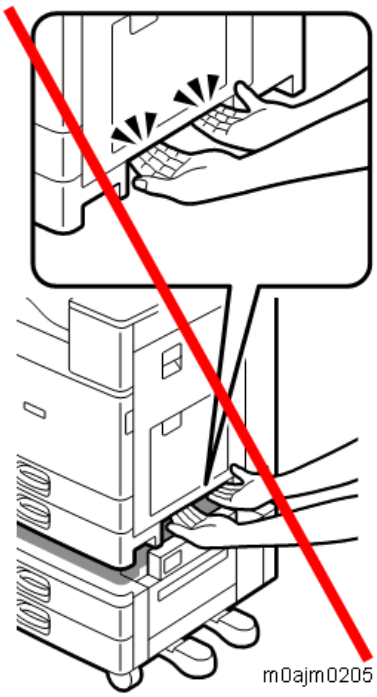
RTB 31
Right rear cover

Note

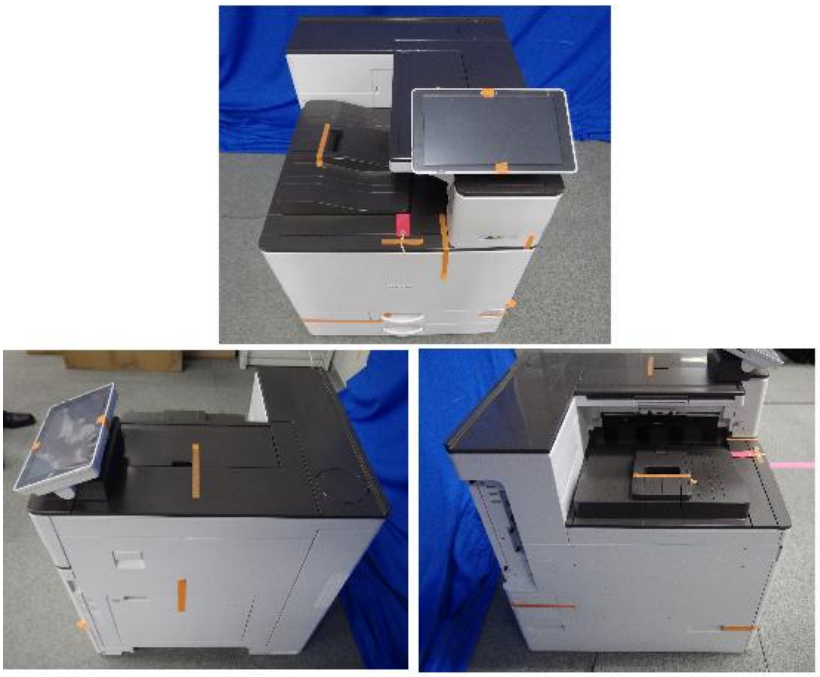
- The printer weighs approximately 85 kg (187.4 lb.). Four or more people are required to lift the

printer.

- Do not lift by holding the operation panel, because this might deform the machine or break the exterior covers.
- Do not lift by holding the area shown below. Doing so may damage the exterior, and you may drop the printer.



5. Remove the orange tape and retainers on the outside.



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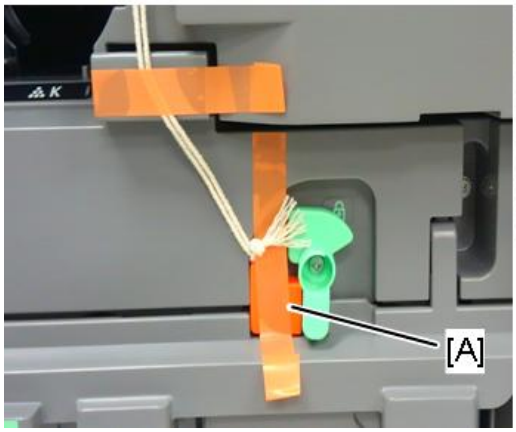
6. Open the front cover.

7. Remove the orange tape and the spacer [A].



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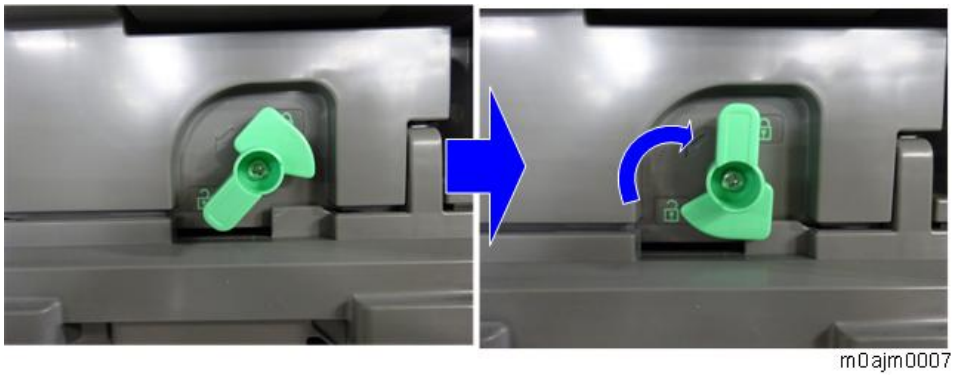
8. Rotate the ITB contact/separation lever clockwise, and set it to the position in the following picture.



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9. Close the front cover.

10. Pull out the 1st/2nd paper feed trays, and then remove the orange tape.

d238m527

11. Remove the orange tape in the 2nd paper feed tray, and remove the accessories package (power cord, etc.).

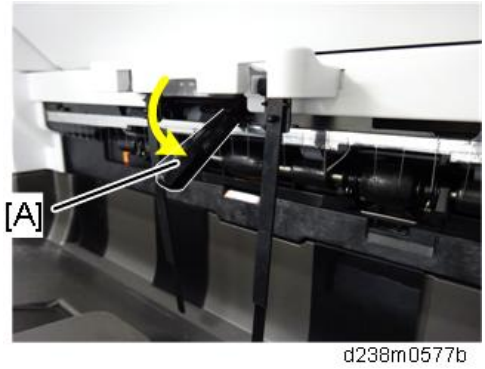
m0ajm0008

Pulling out the Feeler of the Paper Exit Full Sensor

Important

- When a finisher is installed, the feeler does not need to be pulled out.

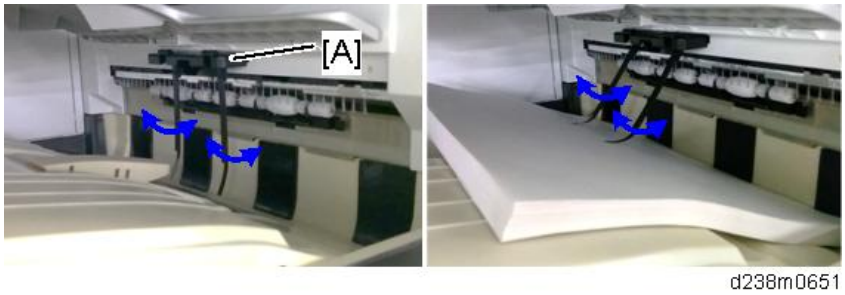
1. Pull the sensor feeler [A] out.



Checking the Position of the Paper Exit Feeler

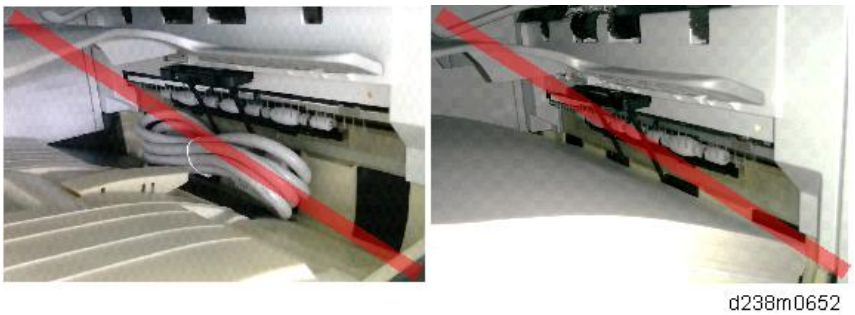
Check the following points for the paper exit feeler [A] installed at the paper exit.

- It can move in line with the ejection of paper.
- It holds contact with the surface of the ejected paper and is still movable.



Paper will get jammed in the following cases.

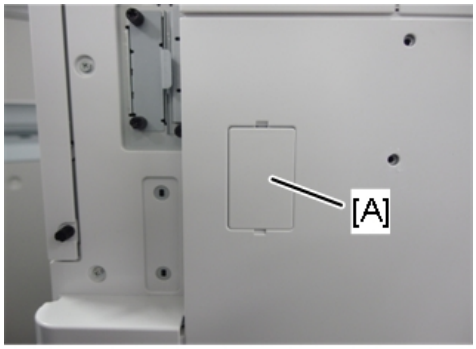
- The paper exit feeler does not function due to obstacles (such as cables).
- The paper exit feeler does not function when the paper is pulled out and pushed back again.



Attaching the I/F Connection Cover

The I/F connection cover [A] is provided with the main machine.

Attach the cover if no optional finisher is to be installed.



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Attaching the Decals

1. Attach the tray number and paper size decals provided with the machine accessories.

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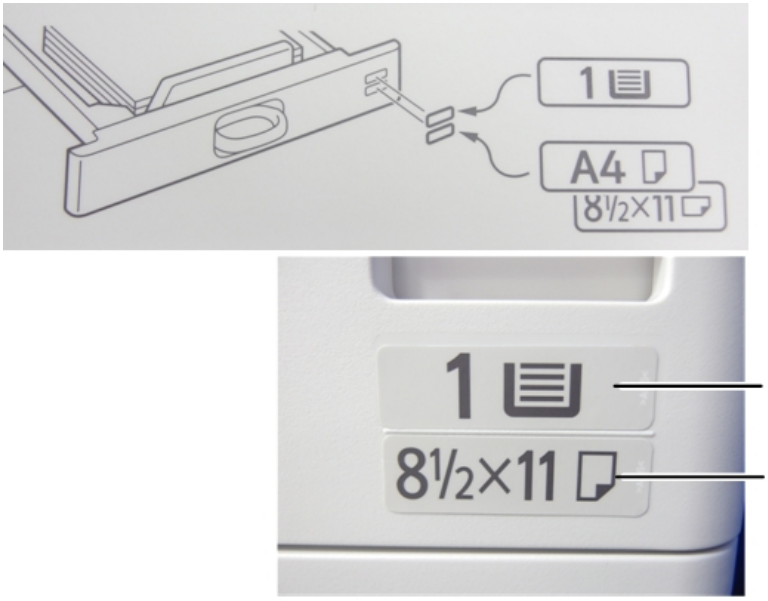

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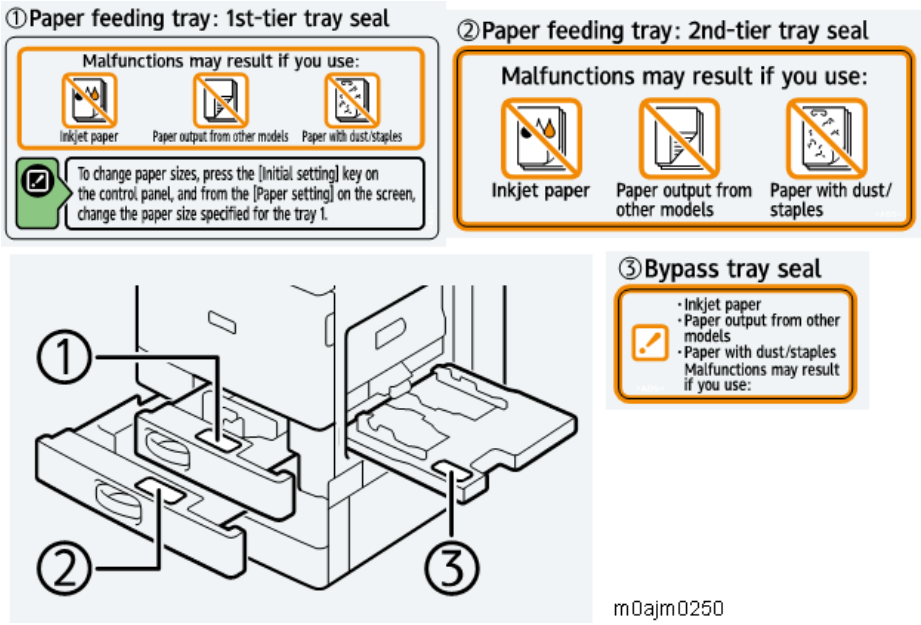
No.	Name
[A] : Upper	Tray Number
[B] : Lower	Paper Size

2. Attach the inkjet decals provided with the machine accessories.

Note

The inkjet decals are provided with machines that are produced from October 2016.



Toner Bottle Installation and Toner Initialization

Note

In this machine, the PCDU seal is automatically wound in on turning the power on, so there is no PCDU-related task such as pulling out the seal.

1. Open the front cover.

2. Shake the toner bottle (Bk) 7 to 8 times.

3. Remove the toner bottle protection cap [A].

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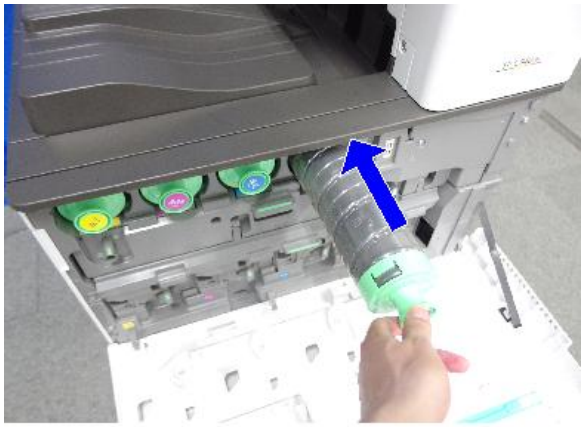
4. Push the toner bottle into the machine slowly.



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5. Set the toner bottles (Y, M, and C) in the same way.

6. Close the front cover.

7. Connect the power cord to the machine.

⚠CAUTION

- Use the power cord that is provided with the machine. Do not use any other power cord. Also, do not use an extension cord.

8. Turn ON the main power.

RTB 35
'Invalid firmware is installed'

- Toner Initialization starts. It takes about 5 minutes to fill the toner up.
  Be sure to wait long enough. If you do not, the Color Calibration will take longer.
- During the initial setting, the message "Self checking..." appears.

Image Quality Test / Settings

Before Test

- Perform the image quality test after installing all peripherals

- Confirm that there are no accessories (such as screws and clamps) left inside the main machine and peripherals

Loading Paper

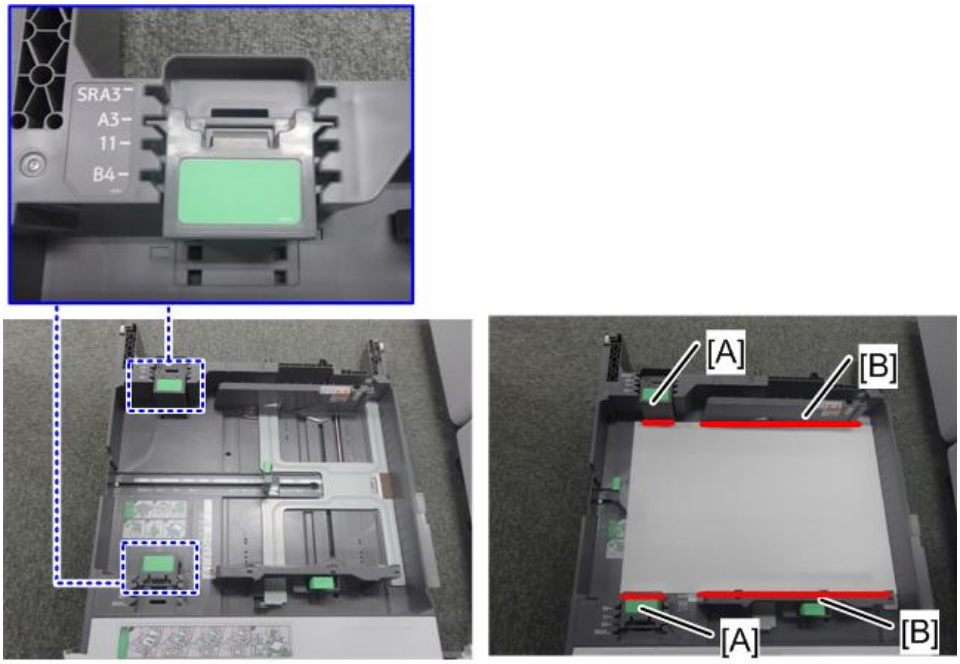
1. Turn ON the main power.

2. The paper size is detected automatically.

1. Pull out the paper feed tray slowly until it stops.
2. Load the paper.
3. While pressing the release lever, adjust the side fences to the paper size to be set.

Note

For small size paper, the side fences [B] are sufficient because the paper is light, but for paper A3 or larger, the support components [A] must be set at the position indicated by the decal.



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4. Set the end fence.

Paper Settings

If necessary, adjust the registration for the paper feed tray.

To print the test pattern, refer to Test Pattern Printing.

1-002-001	Side-to-Side Registration	By-pass Tray	[-4 to 4 / 0 / 0.1mm]
1-002-002	Side-to-Side Registration	Paper Tray 1	[-4 to 4 / 0 / 0.1mm]
1-002-003	Side-to-Side Registration	Paper Tray 2	[-4 to 4 / 0 / 0.1mm]
1-002-004	Side-to-Side Registration	Paper Tray 3	[-4 to 4 / 0 / 0.1mm]
1-002-005	Side-to-Side Registration	Paper Tray 4	[-4 to 4 / 0 / 0.1mm]
1-002-006	Side-to-Side Registration	Duplex	[-4 to 4 / 0 / 0.1mm]
1-002-007	Side-to-Side Registration	Paper Tray 5	[-4 to 4 / 0 / 0.1mm]

1-002-008	Side-to-Side Registration	Large Capacity Tray	[-4 to 4 / 0 / 0.1mm]

Note

- To enter the SP mode, there are two ways to display the number keyboard on screen;

1. Press the "Printer (Classic)" icon on the home screen.
2. Press and hold the button [A] located at the left side of the operation panel and "Check Status [B]" at the same time, until the number keyboard is displayed.

- For details of the key code to enter the SP mode, ask your supervisor.

SP descriptions

- **SP1-002 (Side-to-Side Registration)**

Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

Increasing a value: The image is moved towards the rear edge of the paper.

Decreasing a value: The image is moved towards the front edge of the paper.

Color Registration and Color Calibration

Important

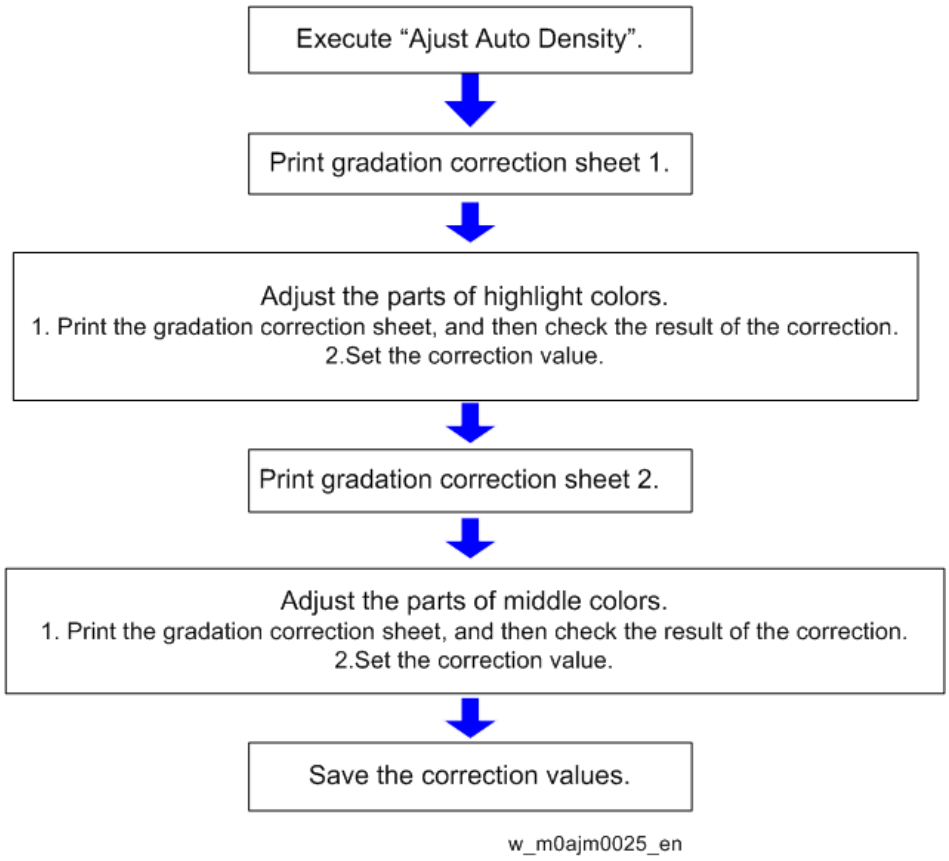
- Make sure to do Color Registration/Color Calibration at the time of machine installation.

Color Registration

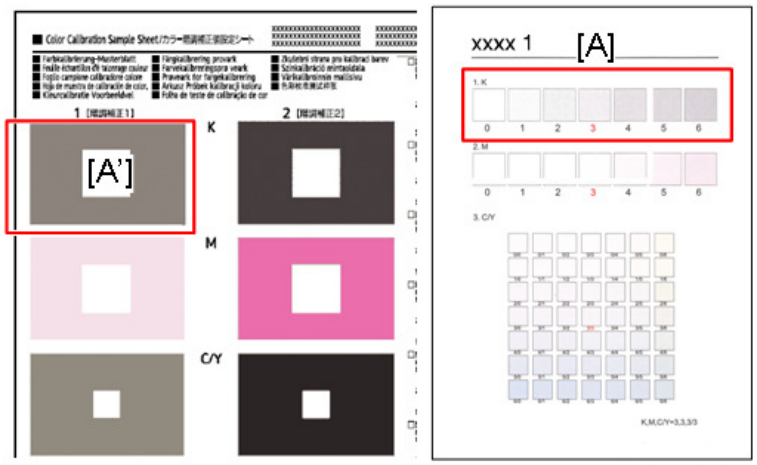
1. Press "User Tools" on the home screen.
2. Select [Maintenance: Image] > [Color Registration].
3. Press [Start] to execute the auto color registration (it takes about 30 seconds).
4. After "Color Registration is complete" appears, press [Exit].

Color Calibration

Color Calibration Flowchart



1. Press "User Tools" on the home screen.
2. Select [Maintenance: Image] > [Color Calibration].
3. Press [Adjust Auto Density].
4. Press [OK] to adjust Auto Density.
5. Press [Print Test Pattern **1** for Calibration] to print the gradation correction sheet **1**.
6. Compare the printed test pattern of graduation correction sheet **1** [A] with the color sample (K) [A′] on the color chart that is provided with main machine, and select the correction value (0-6) that best matches the color.



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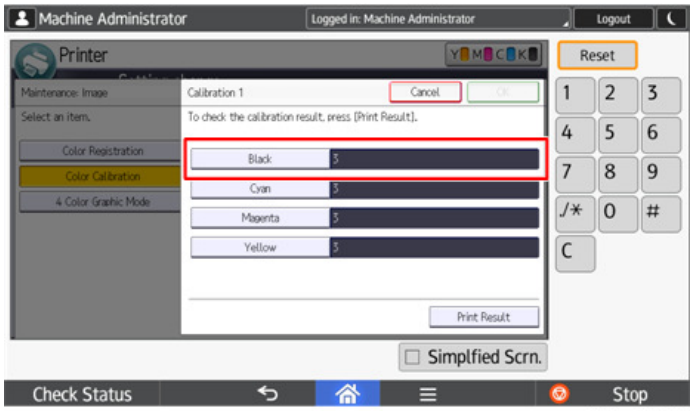
7. Press "Black".



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8. Enter the correction value, and press [OK].

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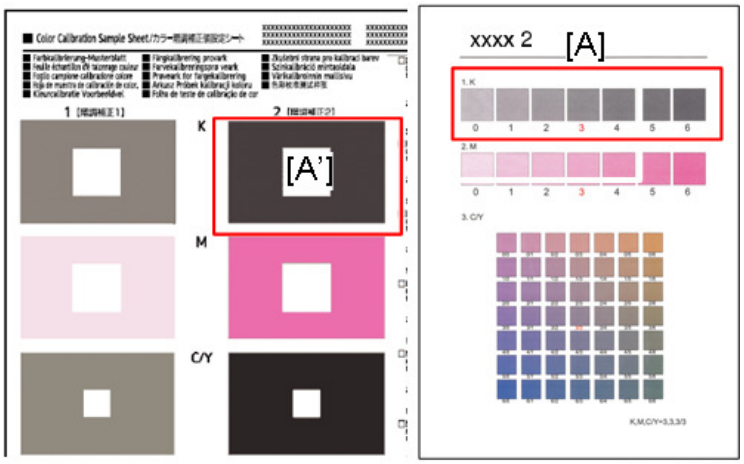
9. Set the correction values for M, and C/Y by the same method.

10. After adjusting the highlight colors (steps 5 to 9), press [Print Test Pattern **2** for Calibration] to print the gradation correction sheet **2**.

11. Compare the printed test pattern of graduation correction sheet **2** [A] with the color sample (K) [A′] on the color chart that is provided with main machine, and select the correction value (0-6) that best matches the color.

12. Set the correction values for the middle colors of K, M, and C/Y in the same way as you did for highlight colors with steps 7 to 9.



13. After completing all the settings, press [Print Result] to print the adjusted result.

14. Press [Save] to save the changed correction values and complete this procedure.

Checking the Print Image with the Test Print

1. Print the test chart and check the output quality.

e.g. [User Tools] icon > [Machine Features] > [Printer Features] > [List/ Test Print] > [Operation Test] or [Color Sample]

HDD Security Function Settings

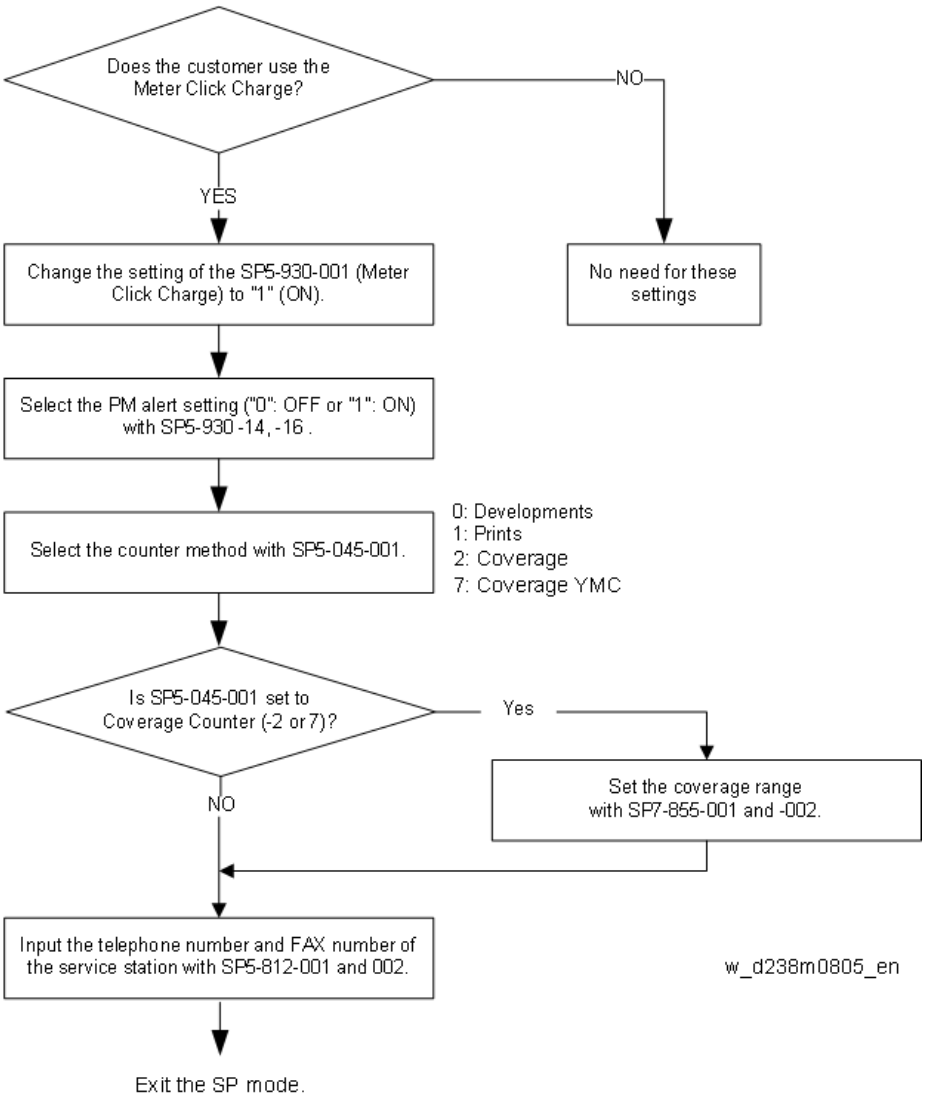
Perform the encryption and overwrite settings to protect the user information in the HDD as necessary.

Follow the instructions in Security Settings.

Settings Relevant to the Service Contract

Change the necessary settings for the following SP modes if the customer has a service contract.

2.Installation



SP No.	Function	Default
SP5-930-001 Meter Click Charge	Enables or disables the meter click charge setting. ("1" ON, "0" OFF) When enabled ("1" ON): • The counter menu appears immediately after you push the "counter" key. • The "Counter Method" (SP5-045) sets the type of counter. • You can print the counter from the counter menu. When disabled ("0" OFF): • The counter menu does not appear. • To check the counter, the technician must print the SMC report (SP 5-990).	"0": OFF
SP5-930-014 Meter Click Charge: Image Transfer Belt Unit	Enables or disables the PM alert for the image transfer belt unit. If this SP is enabled, an alert message is displayed when the image transfer belt unit needs to be replaced.	"1": No alert

SP No.	Function	Default
SP5-930-016 Meter Click Charge: Fusing Unit	Enables or disables the PM alert for the fusing unit. If this SP is enabled, an alert message is displayed when the fusing unit needs to be replaced.	"1": No alert
SP5-045-001 Counter method	Sets the counting method. For details, see the table below.	"1": Prints
SP7-855-001 and -002 Coverage Range	SP7-855-001 and -002 Coverage Range: Sets the color coverage threshold. Coverage rate = Coverage per page / A4 full coverage (dots) x 100 There are three coverage ranges, with a counter for each range: Color 1, Color 2, and Color 3 • [A]: 5% (default) is adjustable with SP7855-001. • [B]: 20% (default) is adjustable with SP7855-002. • The value [B] must be larger than [A]. The total numbers of printouts (BW printing plus color printing) for each coverage range are displayed with the following SPs. • Color 1 counter: SP8601-021 • Color 2 counter: SP8601-022 • Color 3 counter: SP8601-023	
SP5-104-001 **(SSP)** A3/DLT double count	Specifies whether the counter is doubled for A3/DLT paper.	"0":Single counting
SP5-812-001 and -002 Service Tel: Telephone / Facsimile	-001: shows or sets the telephone number of the service representative. -002: shows or sets the fax number of the service station. The number is printed on the counter list when "Meter Click Charge" is enabled. Users can send the counter list as a fax message.	

Counter Display Method

There are 3 types (Developments, Prints and Coverage). The display mode can be set with SP5-045-001 (Accounting counter: Counter Method).

Value	Mode	Descriptions
0	Development Count	YMC Development Counter Bk Development Counter
1	Print Count	Color Print Counter

Value	Mode	Descriptions
	(Default)	B&W Print Counter Color Total Counter B&W Total Counter
2	Coverage Count	Color Total Counter B&W Total Counter Color Coverage Counter 1 Color Coverage Counter 2 Color Coverage Counter 3
7	Coverage Count (YMC)	Color Total Counter B&W Total Counter Color Coverage Counter 1 (YMC) Color Coverage Counter 2 (YMC) Color Coverage Counter 3 (YMC)

Installation is now completed.

Auto Remote Firmware Update (ARFU) Settings

Specify ARFU settings as required.

Important

Operating Conditions:

- ARFU requires connection to the Internet. Be sure to get permission from the customer before setting ARFU up. Otherwise, it may cause an incident.
- ARFU is available only for machines that contain a HDD. If the machine does not have a HDD, an option HDD must be installed.

Note

- The connection is one-way, so the user's data cannot be accessed from the firmware server.

Procedure:

1. ARFU enable setting
2. Server connection check
3. Prohibited date and time setting

(1) Enable ARFU

1. Set SP5-886-111 (Auto Update Setting) to "1 (ON)".

1: ON / 0: OFF (Default)

Note

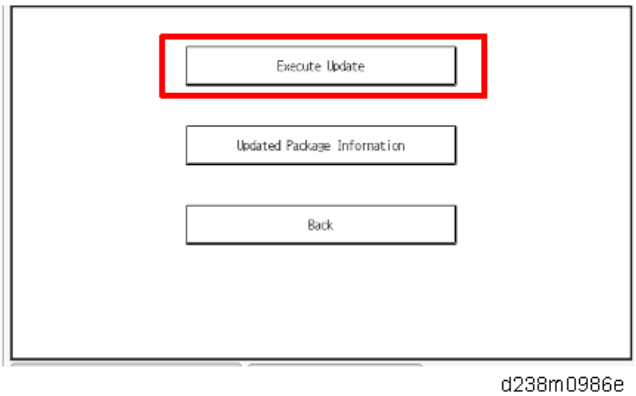
To download the firmware only using SFU (Smart Firmware Update), and not by ARFU, specify the settings as follows:

- SP5-886-111(Auto Update Setting) to "0 (OFF)"

- SP5-886-115 (SFU Auto Download Setting) to "1 (ON)"

(2) Server connection check

1. Enter the SP mode.
2. Press [Firmware update] > [Update] > [Execute update].



3. Check if one of the following messages appears: "Will you download the latest package Ver *** and update?" or "The installed package is the latest version.".
   If the message appears, it is possible to execute ARFU. Press “No” and close SP mode to complete the configuration.

   Important

   The update will run immediately if you press “Yes” at the message "Will you download the latest package Ver *** and update?" The update cannot be canceled if it is run by SFU. (The update can be canceled if ARFU is used.)

   Note

   SP5-886-116 (Auto Update Prohibit Term Setting) displays the scheduled date and time of the next ARFU.
   If error code 71: [Network connection error] appears when you click “Execute update”, see troubleshooting below.

(3) Prohibited date and time setting

Ask the customer for the prohibited times and days of the week for ARFU execution and set the following as needed. The default prohibited time is from 9 a.m. to 5 p.m. and there is no prohibited day.

- SP5-886-112 (Auto Update Prohibit Term Setting) Default: 1 (ON)
- SP5-886-113 (Auto Update Prohibit Start hour) Default: 9
- SP5-886-114 (Auto Update Prohibit End hour) Default: 17
- SP5-886-120 (Auto Update Prohibit Day Of Week Setting) Default: 00000000 [00H]
  Set the bits for the days of the week to prohibit updating.
  Prohibited (Monday - Sunday): bit 7, Monday: bit 6, Tuesday: bit 5
  Wednesday: bit 4, Thursday: bit 3, Friday: bit 2, Saturday: bit 1, Sunday: bit 0
  e.g.) Prohibited on Mon., Fri., Sat., and Sun.: 01000111 [47H]

Note

They can be specified also via Web Image Monitor if logged in as the machine administrator from the device if

SP5-886-111(Auto Update Setting) is set to "1 (ON)". For details, see Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor.

Troubleshooting: If error code 71: [Network connection error] appears

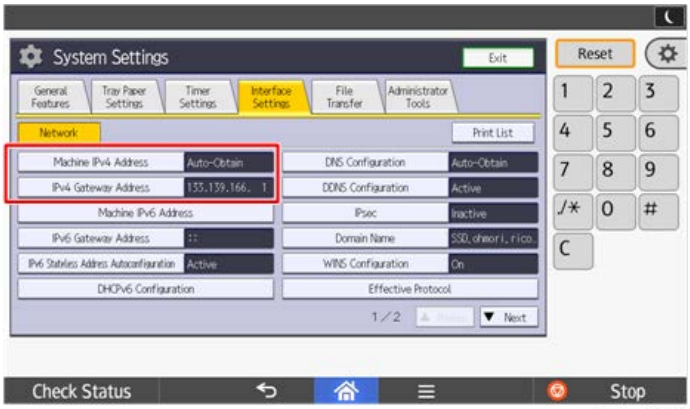
If error code 71: [Network connection error] appears when you click [Firmware update] > [Update] > [Execute update] in SP mode, check the following.

- 4-1. IPv4 address, Subnet mask of the machine and Gateway IPv4 address
- 4-2. IPv4 address of the DNS server
- 4-3. Proxy server settings
- 4-4. Encryption level setting SP

4-1. IPv4 address, Subnet mask of the machine and Gateway IPv4 address

Check the machine's IPv4 address, subnet mask, and gateway IPv4 address.

(In User Tools > Machine Features > System Settings > Interface Settings)



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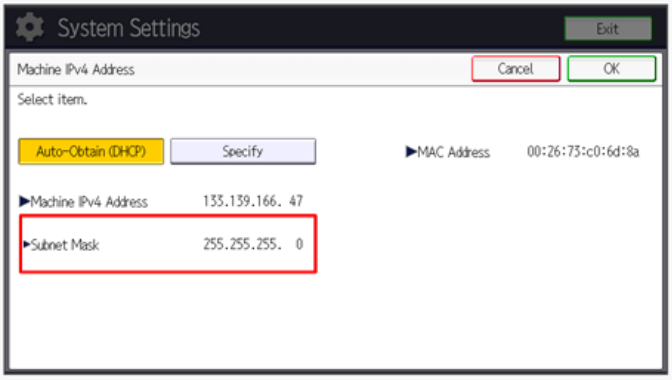

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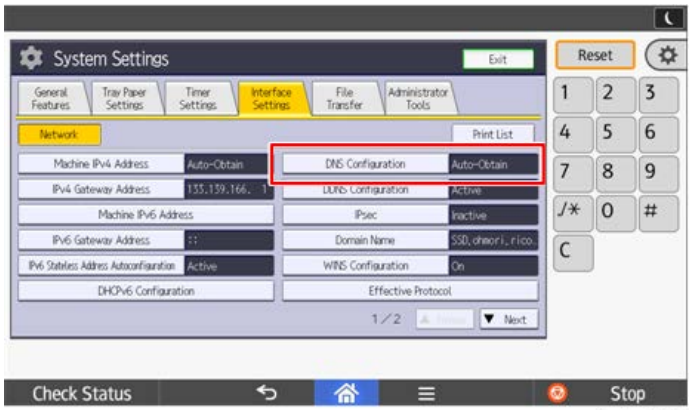
4-2. IPv4 address of the DNS server

Check the DNS IPv4 address and check the connection.

(In User Tools > Machine Features > System Settings > Interface Settings > DNS configuration)



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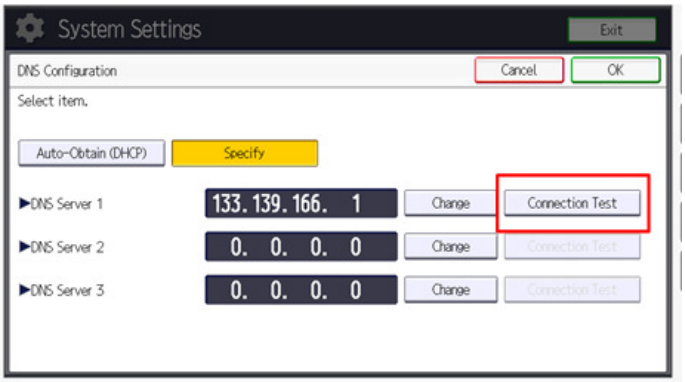
Note

How to find the IP address:

Ask the customer to tell you the IP address of the DNS server. If the customer does not know it, ask the customer to check the IP address by one of the following ways:

1. Run "ipconfig / all" at the command prompt on the computer, then check the IP address of the DNS server.
2. Open the IPv4 properties dialog box on the computer, then check whether the IP address setting of the DNS server is manual or automatic.

- If the setting of the DNS IP address is automatic, select [Auto-Obtain (DHCP)] at the MFP machine's DNS settings.
- If the setting of the DNS IP address is manual, select [Specify] and specify the DNS server 1 to 3.
- Press [Connection Test] to check the connection with the input address. Make sure that it is connected successfully.



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4-3. Proxy server settings

Check the user's network environment and, as required, specify the proxy server settings in the following SPs:

- SP5-816-062 (Use Proxy)
  1: Used / 0: Not used
- SP5-816-063 (Proxy Host)
- SP5-816-064 (Proxy PortNumber)
- SP5-816-065 (Proxy User Name)

- SP5-816-066 (Proxy Password)

Important

If access to the external server is restricted, request the network administrator (customer) to permit the following FQDN name for communication.- FQDN: p-rfu-ds2.support.ricoh.com

Note

They can be specified also via Web Image Monitor if logged in as the machine administrator from the device if SP5-886-111(Auto Update Setting) is set to "1(ON)". For details, see Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor.

4-4. Encryption level setting SP

Check SP5-816-087 (Remote Service: CERT:Macro Ver) and make sure the encryption level is [2]: 2048 bit.

Important

If SP5-816-087 is [1]: 512 bit, specify the settings as follows:

1. Initialize the encryption level by executing SP5-870-003 (Common Key Info Writing: Initialize)
2. Rewrite as 2048 bit in SP5-870-004 (Common Key Info Writing: Writing 2048 bit).
3. Turn the main switch off and on.

Note

Make sure to check the conditions before changing the encryption level and do the corresponding workaround. ARFU uses the same certificate as @Remote to communicate with the Global Server. This may cause failure in connecting with the Center Server, if the device is to be installed in the following conditions.

Conditions

1) Customer uses RC Gate Type BN1.

RC Gate Type BN1 does not support 2048 bit encryption level communication with Ricoh devices (HTTPS Managed device). Therefore, the device cannot be registered under RC Gate Type BN 1.

2) Ricoh device (HTTPS Managed) that supports only 512 bit encryption level is registered as an external appliance.

Only one encryption level can be set for an external appliance for its communication with imaging devices. If a 512 bit encryption level Ricoh device (HTTPS Managed) is registered, the external appliance as well as other devices must also use 512 bit encryption even if 2048 bit encryption is supported on those devices.

Workaround

For Condition 1:

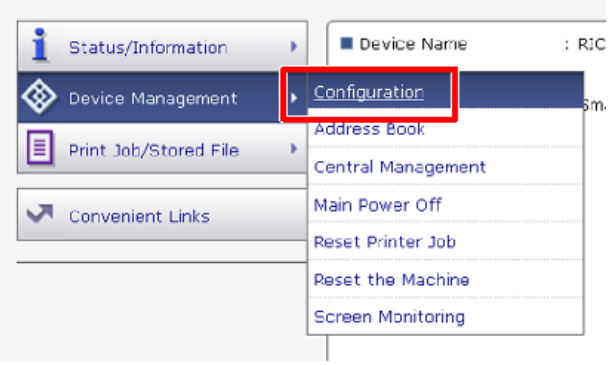
Advise your customer to change to the latest appliance that supports 2048 bit encryption level communication.

For Condition 2:

1. Manage the device with embedded RC Gate (2048 bit)
2. Exclude non-supported devices (i.e., those devices that cannot be changed from 512-bit to 2048-bit) from the external appliances, then change the encryption level of external appliances and all managed devices (from 512 bit to 2048 bit).

Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor

1. Start Web Image Monitor.
2. Log in as the machine administrator.
3. Point to [Device Management], and then click [Configuration].



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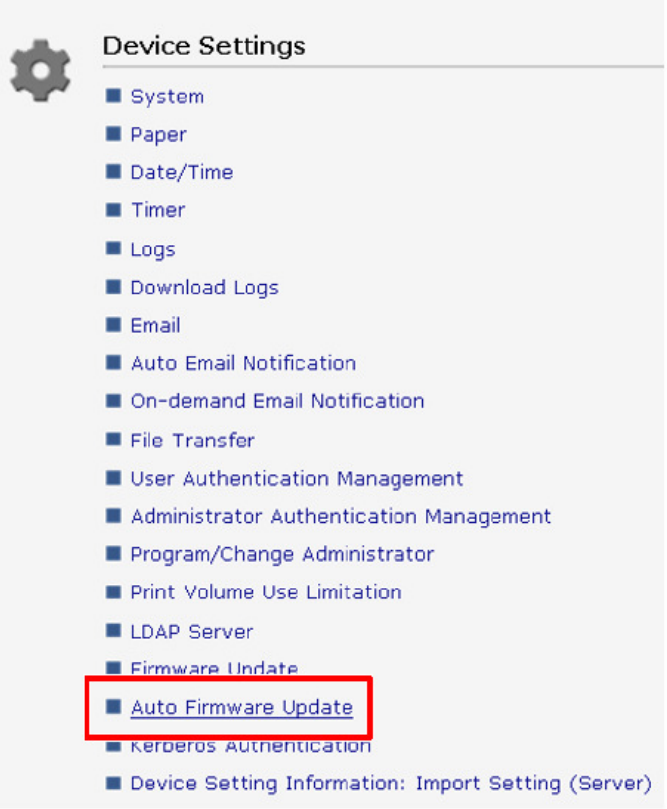
4. Click "Auto Firmware Update".



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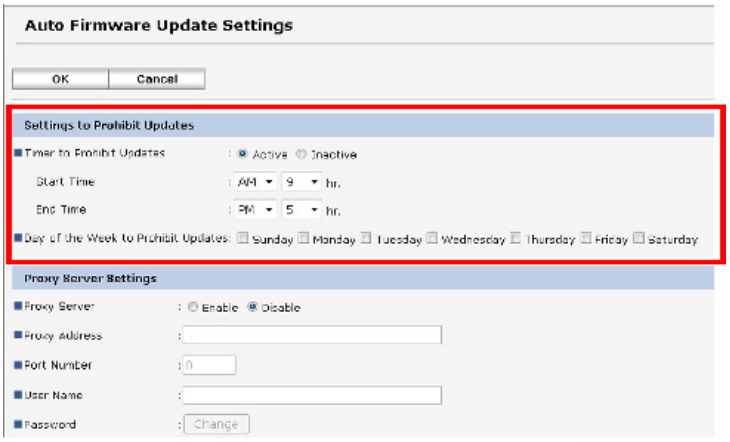
Note

Turn the main power OFF and back ON again after setting SP5-886-111 (AutoUpdateSetting) to "1 (ON)".

"Auto Firmware Update" will appear in the menu list of Web Image Monitor.

5. Specify the times and days of the week to prohibit updating.

   Select the check boxes of the applicable days of the week to prohibit updating on that day



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Moving the Machine

This section shows you how to manually move the machine from one floor to another floor.

- Turn off the main power.
- Disconnect the power plug from the outlet.
- Close all covers and paper trays, including the front cover and bypass tray.
- Keep the machine level and carry it carefully, taking care not to jolt or tip it, and protect the machine from strong shocks.
- Remove the optional paper feed tray when lifting the main machine for moving it to another floor.

Important

- Do not push the center part of the rear cover. Do not hold the covers of the stabilizers.

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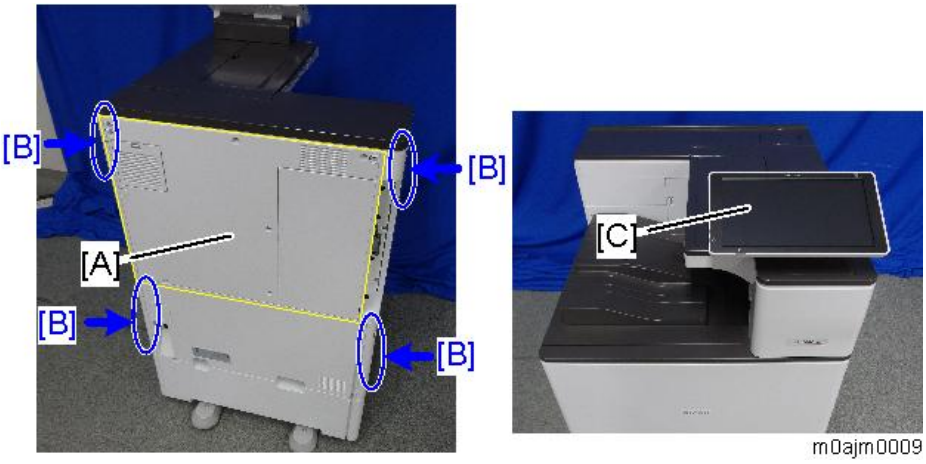
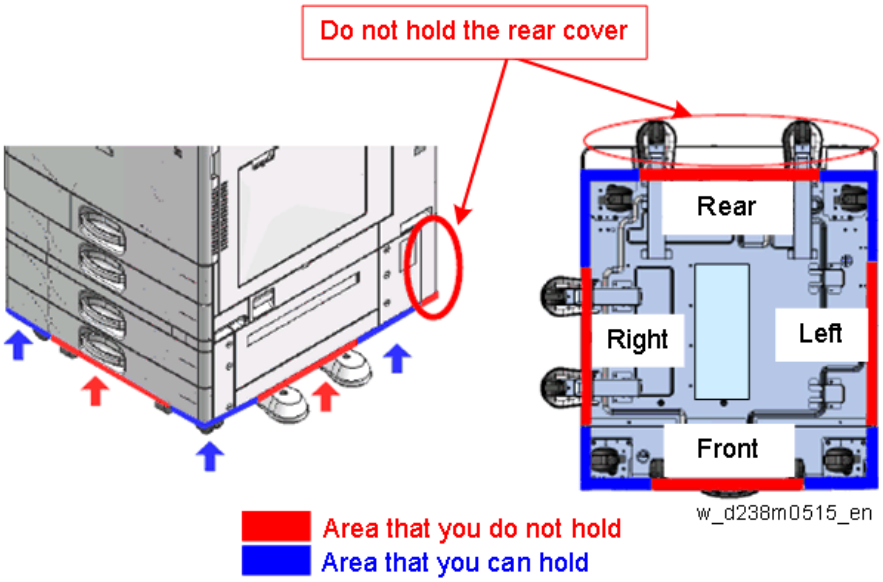
- Do not put hard pressure on the rear cover [A] when moving or picking up the machine as it is fragile.

This also applies to the operation panel [C]. Hold part [B] when moving the machine.



- Hold 4 corners on the bottom base when holding the machine with the optional paper feeding tray joined to the main machine. Do not hold any other parts.



Moving the finishers
SR3210
SR3220
SR3230

Security Settings

Configuring Administrator Authentication

About Administrator and Supervisor

Administrator

Their main role is to specify the settings for operating the machine. Their access privileges depend on the administrator type. Administrators cannot perform normal operations, such as printing.

There are 4 types of administrators for the machine: user administrator, machine administrator, network administrator, and file administrator.

In the factory default, four adminstrator's privileges assign to a "Administrator 1".

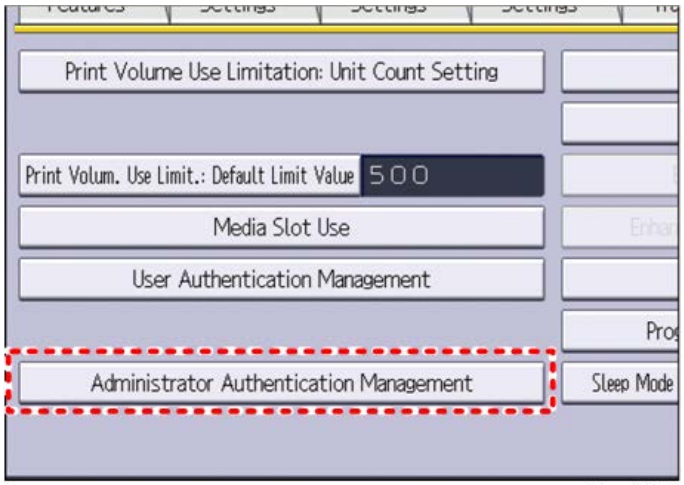
Supervisor

There is only one supervisor. The supervisor can specify each administrator's password.

Enabling Administrator Authentication

To specify administrator authentication, set "Administrator Authentication Management" to [On]. If this setting is enabled, administrators can configure only settings allocated to them.

1. Press "User Tools" on the home screen.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Next].
6. Press [Administrator Authentication Management].



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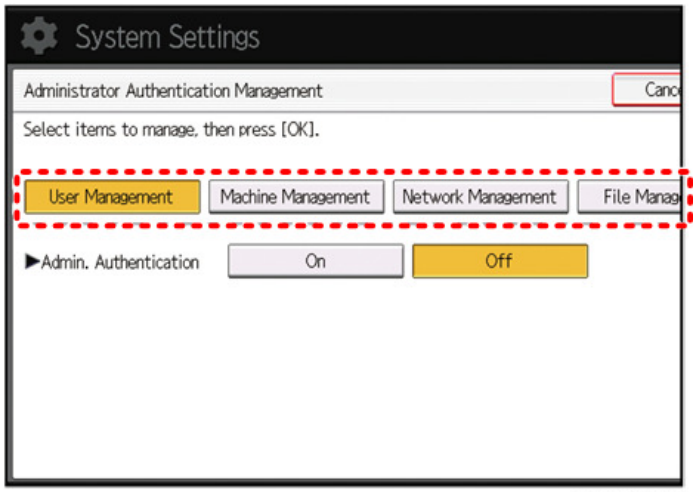
7. Press [User Management], [Machine Management], [Network Management], or [File Management] to select which settings to manage.

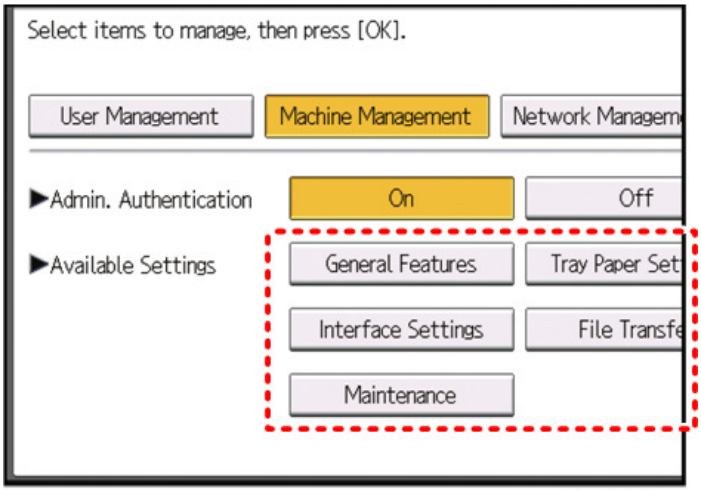


m0ajm1274

8. Set "Admin. Authentication" to [On].

"Available Settings" appears.

9. Select the settings to manage from "Available Settings".



m0ajm1275

The selected settings will be unavailable to users.

The available settings depend on the administrator type.

To specify administrator authentication for more than one category, repeat Steps 7 to 9.

10. Press [OK].

11. Press [User Tools] ( ) on the top right screen.

12. Press [Home] ( ) at the bottom of the screen in the center.

Changing Administrator/Supervisor's User Name and Password

Important

If you forget an administrator login user name or password, you must specify a new password using the supervisor's privilege.

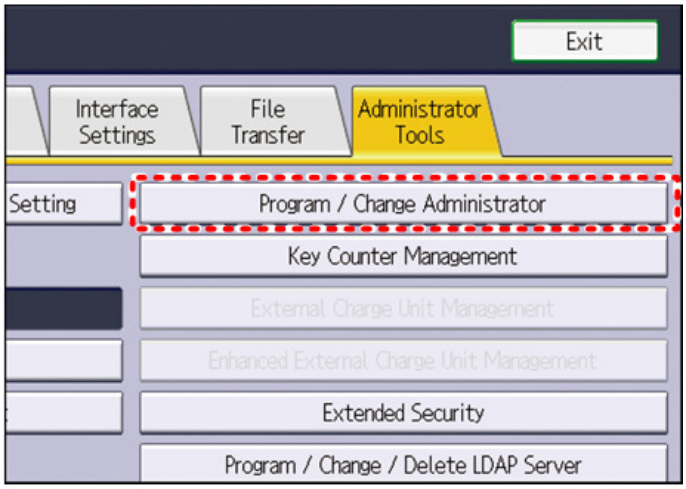
Be sure not to forget the supervisor login user name and password. If you forget them, a machine will have to return to its default state. This will result in the machine setting data, counters, logs and other data being lost.

1. Log in as an administrator from the control panel.

To changing the supervisor's login user name or password, log in as the supervisor.

The default login user name for administrator is "admin" and "supervisor" for the supervisor. No login password is set up.

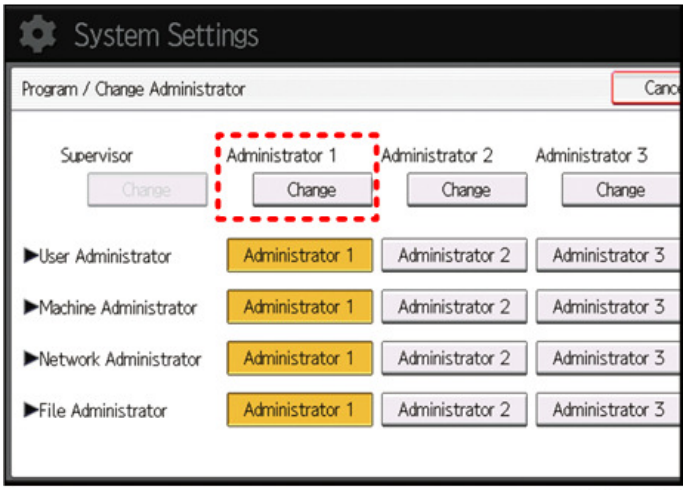
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Next].
6. Press [Program / Change Administrator].



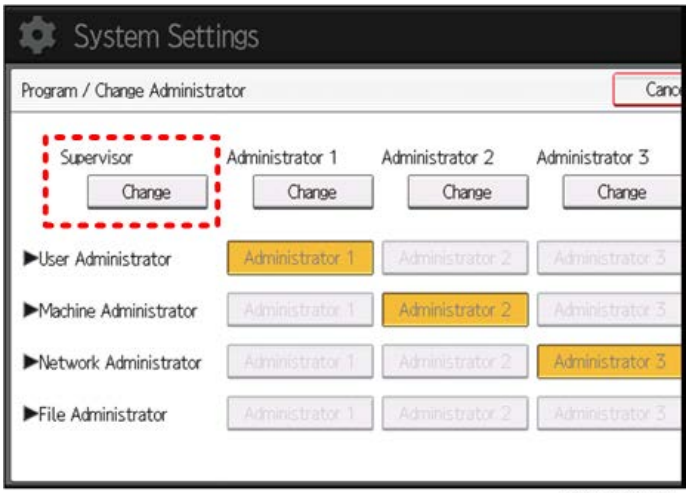
m0ajm1276

7. Press [Change] under "Administrator 1".

To change supervisor's user name and password, press [Change] under "Supervisor".



m0ajm1280



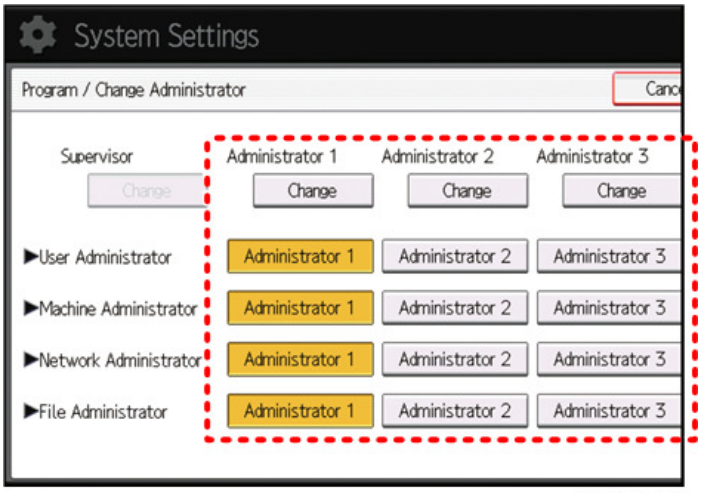
m0ajm1279

8. Press [Change] for "Login User Name".
9. Enter the new login user name, and then press [OK].
10. Press [Change] for "Login Password".
11. Enter the new login password, and then press [OK].
12. Enter the new login password for confirmation again, and then press [OK].
13. Press [OK] twice.

    You will be automatically logged out.

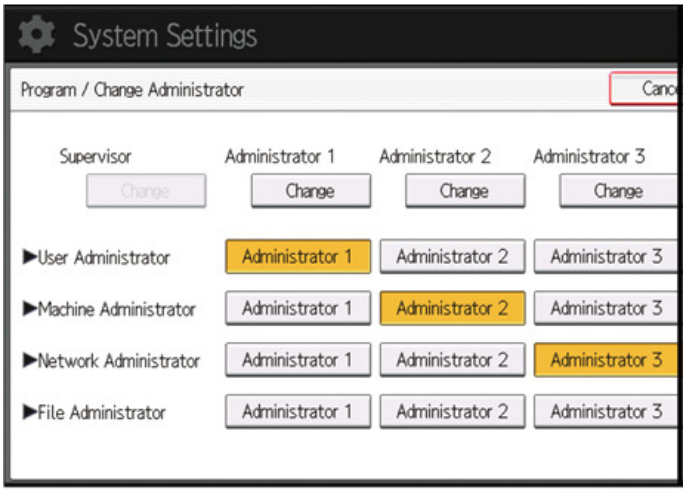
Registering and Changing the Administrator

1. Log in as an administrator from the control panel.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Next].
6. Press [Program / Change Administrator].
7. In the line for the administrator whose privileges you want to specify, press [Administrator 1], [Administrator 2], [Administrator 3] or [Administrator 4], and then press [Change].



m0ajm1277

When allocating admistrators' privileges to one person each, select one administrator under each category as shown below.



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To combine multiple administrator privileges, assign multiple administrator privileges to a single administrator.

For example, to assign machine administrator privileges and user administrator privileges to [Administrator 1], press [Administrator 1] in the lines for the machine administrator and the user administrator.

8. Press [Change] for "Login User Name".
9. Enter the login user name, and then press [OK].
10. Press [Change] for "Login Password".
11. Enter the login password, and then press [OK].
12. Enter the login password for confirmation again, and then press [OK].
13. Press [OK] twice.

    You will be automatically logged out.

Security Function Installation

The machine contains the Security functions (Data Overwrite Security and HDD Encryption unit) in the controller board.

If you are installing a new machine, it is recommended to activate the Data Overwrite Security and HDD Encryption by selecting "Format All Data" from "System Settings" on the operation panel.

Note

- This method is recommended because there is no user data on the hard drive yet (Address Book data, image data, etc.).

If the customer wishes to activate the Data Overwrite Security and HDD Encryption unit on a machine that is already running, it is recommended to activate the unit by selecting "All Data" from "System Settings" on the operation panel.

Important

- Selecting "All Data" will preserve the data that has already been saved to the HDD. (If "Format All Data" is selected, all user data saved to the HDD up to that point will be erased).

Immediately after encryption is enabled, the encryption setting process will take several minutes to complete before you can begin using the machine.

Note

- If encryption is enabled after data has been stored on the HDD, or of the encryption key is changed, this process can take up to three and a half hours or more.

The machine cannot be operated while data is being encrypted.

Once the encryption process begins, it cannot be stopped.

Make sure that the machine's main power is not turned off while the encryption process is in progress.

If the machine's main power is turned off while the encryption process is in progress, the HDD will be damaged and all data on it will be unusable.

Print the encryption key and keep the encryption key (which is printed as a paper sheet).

Keep the encryption key in a safe place. If the encryption key is lost and is needed, the controller board, HDD and NVRAM must all be replaced at the same time.

Note

- "NVRAM" mentioned in here means the NVRAM on the Controller Board.
- "NVRAM" or EEPROM on the BCU has nothing to do with this.

Please use the following procedure when the Data Overwrite Security and HDD Encryption are reinstalled.

Data Overwrite Security

Before You Begin the Procedure

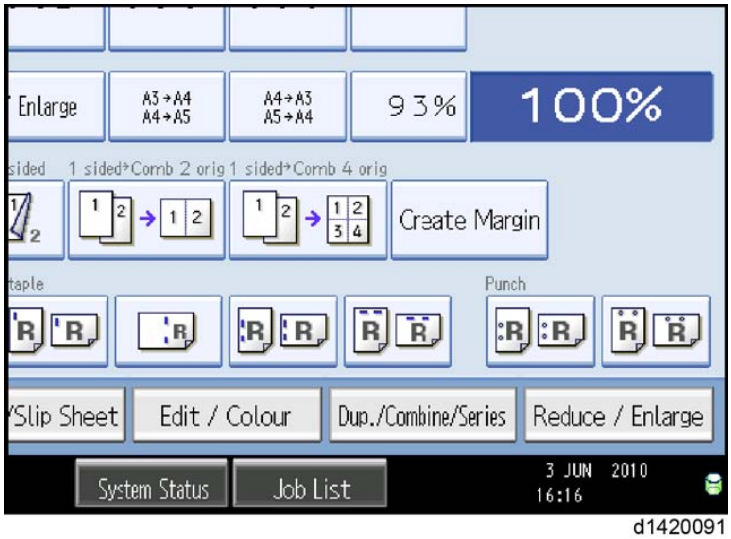
1. Make sure that the following settings (1) to (3) are not at their factory default values.
   (1) Supervisor login password
   (2) Administrator login name
   (3) Administrator login password
   If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.
2. Make sure that "Admin. Authentication" is on.
   [User Tools] icon -> [Machine Features] -> [System Settings] -> [Administrator Tools] -> [Administrator Authentication Management] -> [Admin. Authentication]
   If this setting is off, tell the customer this setting must be on before you do the installation procedure.
3. Make sure that "Administrator Tools" is enabled (selected).
   [User Tools] icon -> [Machine Features] -> [System Settings] -> [Administrator Tools] -> [Administrator Authentication Management] -> [Available Settings]
   If this setting is disabled (not selected), tell the customer this setting must be enabled (selected) before you do the installation procedure.

Installation Procedure

1. Connect the network cable if it needs to be connected.

2. Turn ON the main power.
3. Go into the SP mode and push "EXECUTE" in SP5-878-001.
4. Exit the SP mode and turn off the operation switch. Then turn off the main power switch.
5. Turn on the machine power.
6. Do SP5-990-005 (SP print mode Diagnostic Report).

   Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
7. Go into the User Tools mode, and select [Machine Features] → [System Settings] →[Administrator Tools] →[Auto Erase Memory Setting] →[On].
8. Exit the User Tools mode.



d1420091

	Icon [1]	This icon is lit when there is temporary data to be overwritten, and blinks during overwriting.
	Icon [2]	This icon is lit when there is no temporary data to be overwritten.

9. Check the display and make sure that the overwrite erase icon appears.
10. Check the overwrite erase icon.

    The icon [1] is lit when there is temporary data to be overwritten, and blinks during overwriting.

    The icon [2] is lit when there is no temporary data to be overwritten.

Using Auto Erase Memory

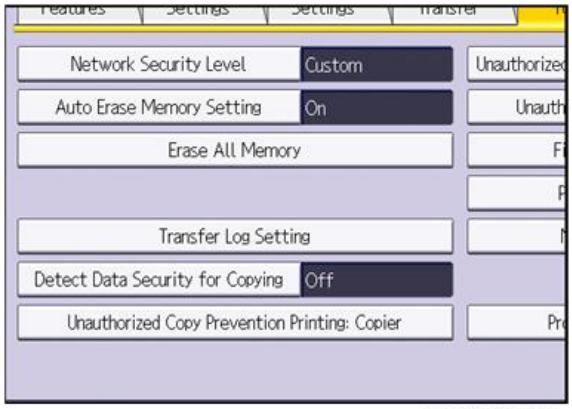
The Auto Erase Memory function can be enabled by the following procedure.

1. Log in as the machine administrator from the control panel.
2. Press the [User Tools] icon.
3. Press [Machine Features].
4. Press [System Settings].

5. Press [Administrator Tools].

6. Press [Next] three times.

7. Press [Auto Erase Memory Setting].



w_d1822517

8. Press [On].

9. Select the method of overwriting.

If you select [NSA] or [DoD], proceed to step 12.

If you select [Random Numbers], proceed to step 10.

10. Press [Change].

11. Enter the number of times that you want to overwrite using the number keys, and then press [#].

12. Press [OK]. Auto Erase Memory is set.

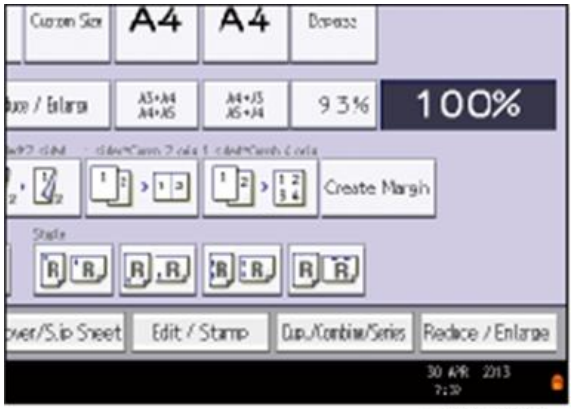
13. Log out.

14. Check the display and make sure that the overwrite erase icon appears.

15. Check the overwrite erase icon.

The icon [1] is lit when there is temporary data to be overwritten, and blinks during overwriting.

The icon [2] is lit when there is no temporary data to be overwritten.



w_d1822516

	Icon [1]	This icon is lit when there is temporary data to be overwritten, and blinks during overwriting.
	Icon [2]	This icon is lit when there is no temporary data to be overwritten.

HDD Encryption

Before You Begin the Procedure:

1. Make sure that the following settings (1) to (3) are not at the factory default settings.
   (1) Supervisor login password
   (2) Administrator login name
   (3) Administrator login password
   If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.
2. Confirm that "Admin. Authentication" is on:
   [User Tools] icon - [Machine Features] - [System Settings] - [Administrator Tools] - [Administrator Authentication Management] - [Admin. Authentication] - [On]
   If this setting is off, tell the customer that this setting must be on before you can do the installation procedure.
3. Confirm that "Administrator Tools" is selected and enabled.
   [User Tools] icon - [Machine Features] - [System Settings] - [Administrator Tools] - [Administrator Authentication Management] - [Available Settings]
   "Available Settings" is not displayed until step 2 is done.
   If this setting is not selected, tell the customer that this setting must be selected before you can do the installation procedure.

Installation Procedure:

1. Turn ON the main power, and then enter the SP mode.
2. Select SP5-878-002, and then press "Execute" on the LCD.
3. Exit the SP mode after "Completed" is displayed on the LCD.
4. Turn OFF the main power.

Enable Encryption Setting

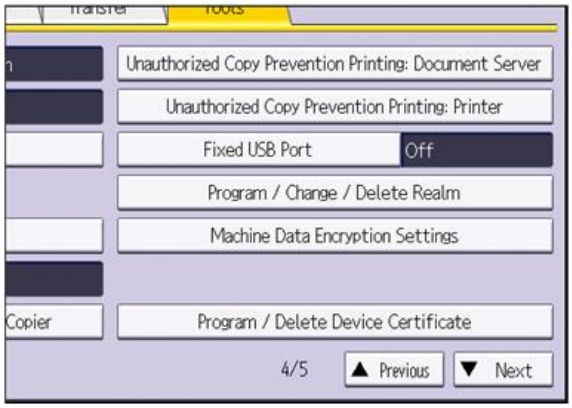
Machine Data Encryption Settings can be enabled by the following procedure.

Important

- When setting up encryption, specify whether to start encryption after deleting data (initialize) or encrypt and retain existing data. If data is retained, it may take some time to encrypt it.

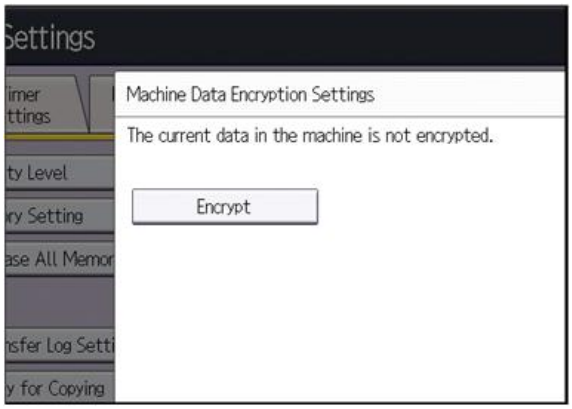
1. Turn ON the main power.
2. Log in as the machine administrator from the control panel.
3. Press the [User Tools] icon.
4. Press [Machine Features].
5. Press [System Settings].
6. Press [Administrator Tools].
7. Press [Next] three times.

8. Press [Machine Data Encryption Settings].



w_d1822518

9. Press [Encrypt].



w_d1822519

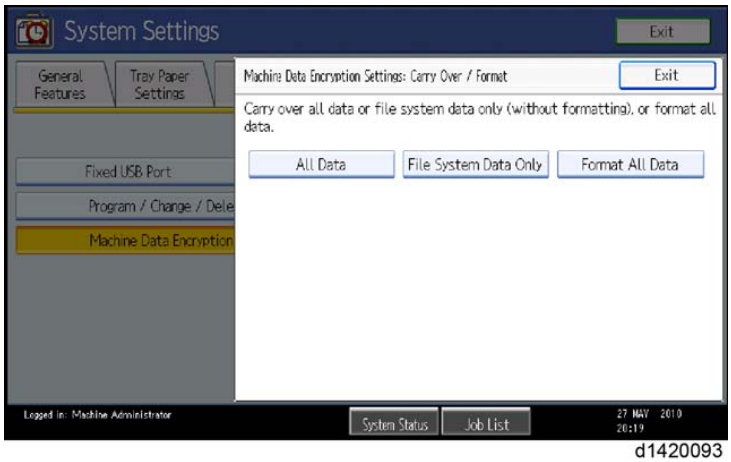
10. Select the data to be carried over to the HDD and not be reset.

To carry all of the data over to the HDD, select [All Data].

To carry over only the machine settings data, select [File System Data Only].

To reset all of the data, select [Format All Data].

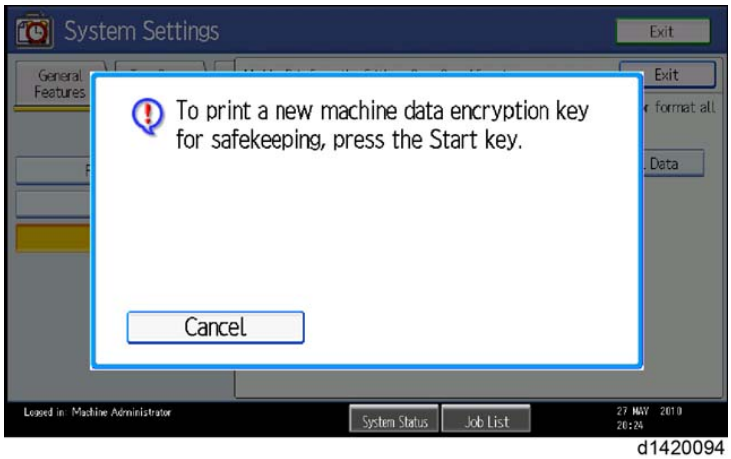
11. Select the backup method.



d1420093

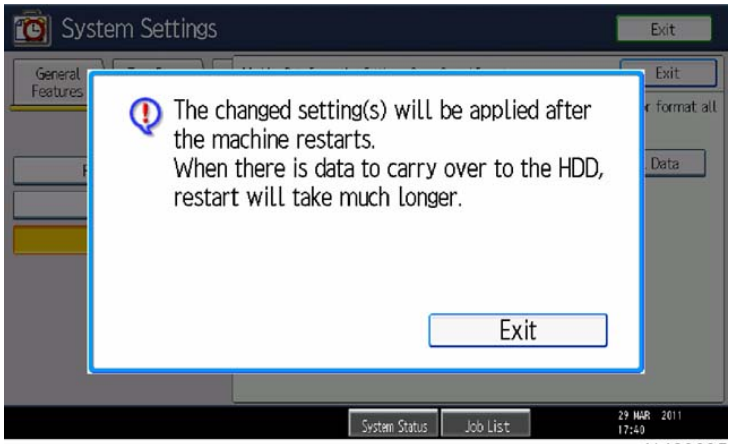
If you have selected [Save to SD Card], load an SD card into the media slot on the side of the control panel and press [OK] to back up the machine's data encryption key.

If you have selected [Print on Paper], press the [Start] key. Print out the machine's data encryption key.



d1420094

12. Press [OK].
13. Press [Exit].



d1420095

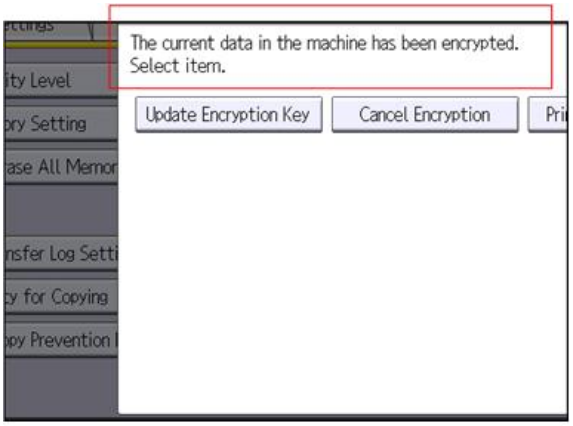
14. Press [Exit].
15. Log out.
16. Turn OFF the main power, and then turn the main power back ON.

    The machine will start to convert the data on the memory after you turn on the machine. Wait until the message "Memory conversion complete. Turn the main power switch off." appears, and then turn the main power off again.

Check the Encryption Settings

1. Press the [User Tools] icon.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Machine Data Encryption Settings].

6. Confirm whether the encryption has been completed or not on this display.



w_d1822520

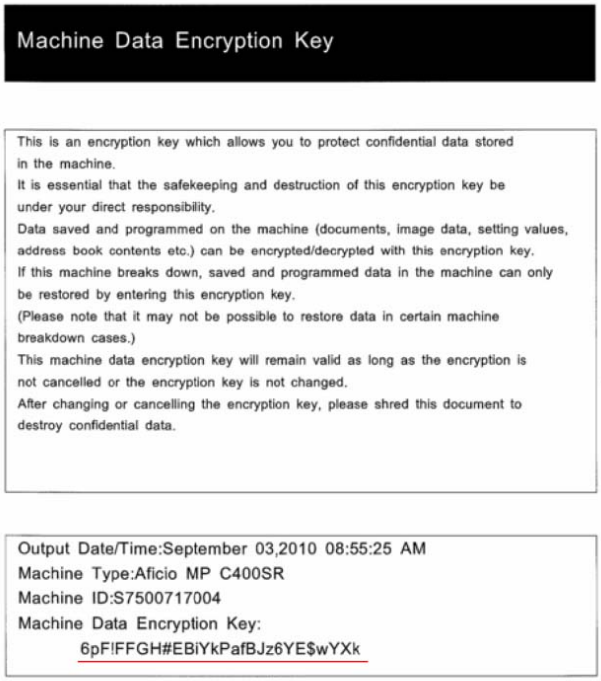
Print the encryption key

Use the following procedure to print the key again if it has been lost or misplaced.

1. Press the [User Tools] icon.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Machine Data Encryption Settings].

   If this item is not visible, press [Next] to display more settings.
6. Press [Print Encryption Key].

Encryption key sample



d1420100

7. The encryption key is printed out as a sheet of paper like the example shown above.

Please instruct the customer to keep it in a safe place.

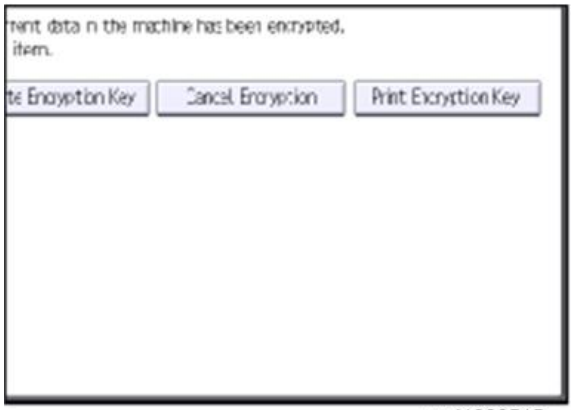
Backing Up the Encryption Key

The encryption key can be backed up. Select whether to save it to an SD card or to print it.

Important

- The encryption key is required for data recovery if the machine malfunctions. Be sure to store the encryption key safely for retrieving backup data.

1. Log in as the machine administrator from the control panel.
2. Press the [User Tools] icon.
3. Press [Machine Features].
4. Press [System Settings].
5. Press [Administrator Tools].
6. Press [Next] three times.
7. Press [Machine Data Encryption Settings].
8. Press [Print Encryption Key].



w_d1822515

9. Select the backup method.

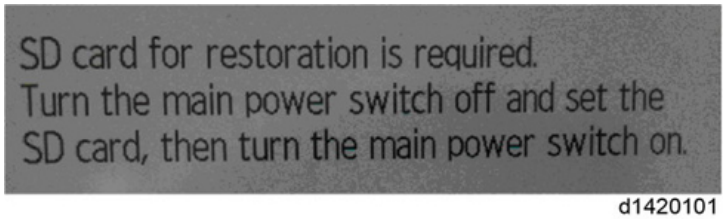
   If you have selected [Save to SD Card], load an SD card into the media slot on the side of the control panel and press [OK]; once the machine's data encryption key is backed up, press [Exit].

   If you have selected [Print on Paper], press the [Start] key. Print out the machine's data encryption key.
10. Press [Exit].
11. Log out.

Encryption Key Restoration

How to restore the old encryption key to the machine

The following message appears after the controller board is replaced. In such a case, it is necessary to restore the encryption key to the new controller board.



d1420101

To do this, follow the procedure below.

1. Prepare an SD card that has been initialized in FAT16 format.
2. Using a PC, create a folder in the SD card and name it "restore_key".
3. Create a folder in the "restore_key" folder and name it the same as machine's serial number, "xxxxxxxxxxx" (11 digits).
4. Create a text file called "key_xxxxxxxxxxx.txt" and save it in the "xxxxxxxxxxx" folder. Write the encryption key in the text file.

   /restore_key/xxxxxxxxxxx/key_xxxxxxxxxxx.txt

   Note

   - Ask an Administrator to enter the encryption key. The key has already been printed out by the user and may have been saved in the "key_xxxxxxxxxxx.txt" file. (The function of back-up the encryption key to the SD card directly is provided 11A products or later.)
5. Turn ON the machine's main power.
6. Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
7. Turn OFF the main power.
8. Insert the SD card that contains the encryption key into SD card slot 2 (the lower slot).
9. Turn ON the main power.

   Note

   - The machine will automatically restore the encryption key to the flash memory on the controller board.
10. Turn OFF the main power when the machine has returned to normal status.
11. Remove the SD card from SD card slot 2.

How to do a forced start up with no encryption key

If the encryption key back-up has been lost, follow the procedure below to do a forced start-up.

Important

- The HDD will be formatted after the forced start-up.
- Encrypted data will be deleted.
- User settings will be cleared.

1. Prepare an SD card.
2. Create a directory named "restore_key" inside the root directory of the SD card. Then, save the "nvram_key.txt" file using the following name:

   /restore_key/nvram_key.txt

3. Create a text file and write "nvclear".

Important

- Write this string at the head of the file.
- Use all lower-case letters.
- Do not use quotation marks or blank spaces.
- It is judged that a forced start has been selected when the content of "nvclear" is executed and the machine shifts to the alternate system (forced start).

4. Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
5. Turn off the main power.
6. Insert the SD card that contains the encryption key into SD card slot 2 (the lower slot).
7. Turn ON the main power.
   The machine automatically clears the HDD encryption.
8. Turn OFF the main power when the machine has returned to normal status.
9. Remove the SD card from SD card Slot 2.
10. Turn ON the main power.
11. Memory clear SP5-801-xxx (Exclude SP-5-801-001: All Clear and SP-5-801-002: Engine), and clear SP5-846-046: address book.
12. Set necessary user settings in User Tools.

SP descriptions

- **SP5-878-002 (Option Setup: HDD Encryption)**
  Executes the setup for encryption.
- **SP5-990-005 (SP Print Mode: Diagnostic Report)**
  Prints the configuration sheets of the system and user settings : SMC.
  Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
- **SP5-801-001 (Memory Clear: All Clear)**
  Resets all correction data for process control and all software counters, and returns all modes and adjustments to their default values.
- **SP5-801-002 (Memory Clear: Engine)**
  Clears non-volatile memory of engine.
- **SP5-846-046 (UCS Setting: Addr Book Media)**
  Displays the slot number where the address book data is.
  0: Unconfirmed
  1: SD Slot 1
  2: SD Slot 2
  3: SD Slot 3
  4: USB Flash ROM
  10: SD Slot 10

20: HDD

30: Nothing

Anti-Condensation Heater (PCDU)

⚠CAUTION

- Unplug the machine power cord before starting the following procedure.
- Do the following procedure not to damage any harnesses.
- Check that harnesses are not damaged or pinched after installation.

Important

- This option is provided as a service part.
- If you want to install Anti-Condensation Heater (PCDU), the electrical components (1) and heater for PCDU (2) should be ordered.

Accessory Check

(1) Electrical components

Description	Q'ty
Tapping screw: M3 x 6	3
Harness (DHB - PCDU Heater)	1
PCB: DHB	1
Harness between HDB and PSU (Black)	1
Harness between HDB and PSU (Purple harness with black tube)	1

(2) Heater for PCDU*

Description	Q'ty
Tapping screw with washer: M3 x 8	1
PCDU heater	1
High temperature warning decal	1

*The voltage varies between different regions, so a set of the heater for PCDU (120V and 230V) is available for each region. Order the correct heater set for your region.

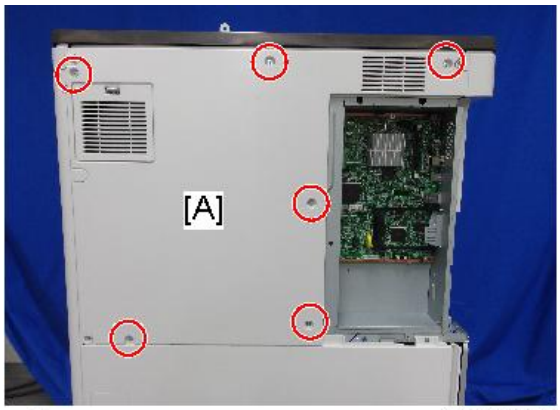
Installation procedure

(1) Electrical Components

1. Remove the rear right cover [A] (coin screw x 2).

m0ajm1011

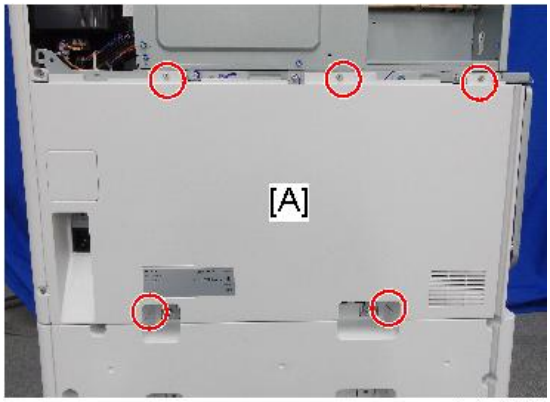
2. Remove the rear cover [A].



x6

m0ajm0039

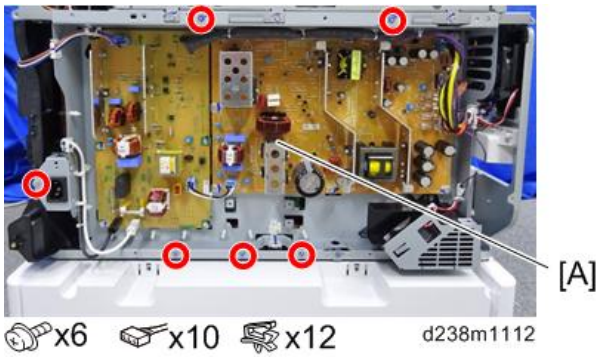
3. Remove the rear lower cover [A].



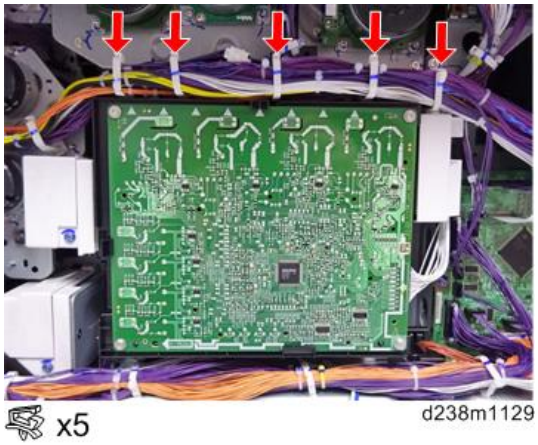
x5

m0ajm0040

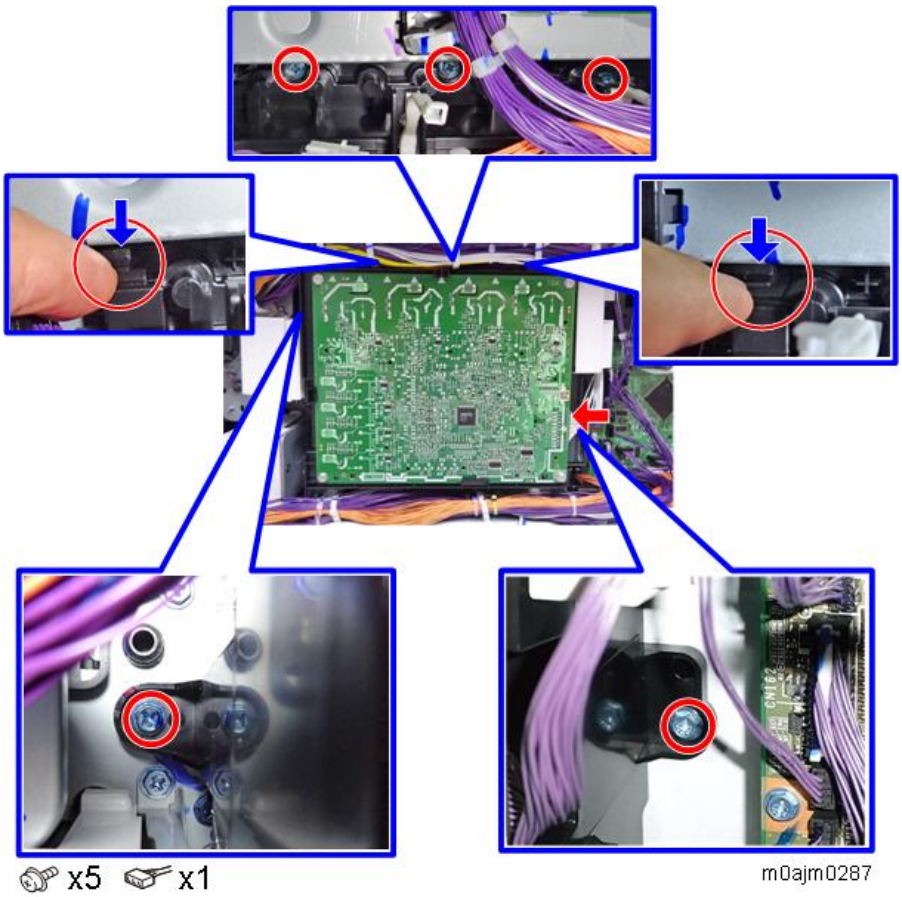
4. Remove the power supply box [A] (x6, among them, tapping screw x1).

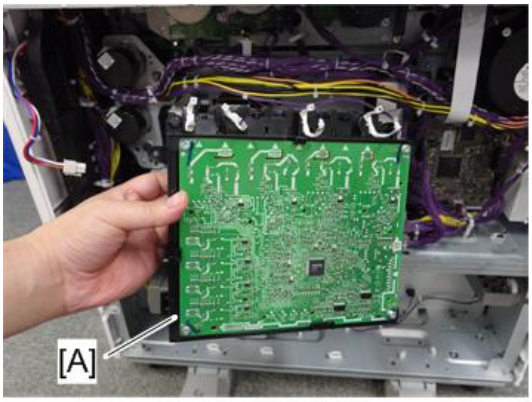


5. Release the 5 clamps.



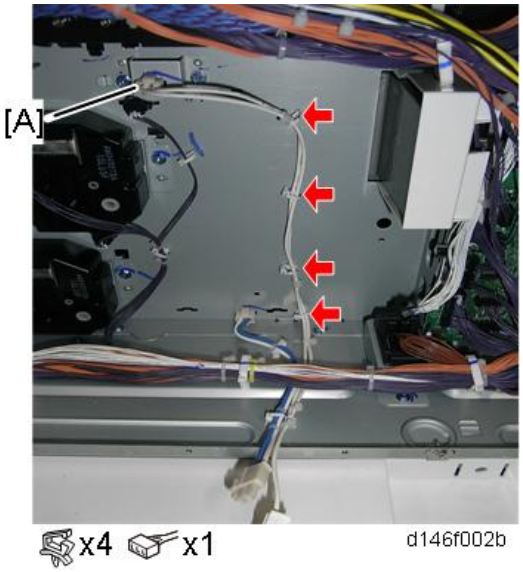
6. Remove the HVP-CB with bracket [A] (Hook x2).





d146z0087

7. Connect the combined Blue/White harness to the back frame [A].

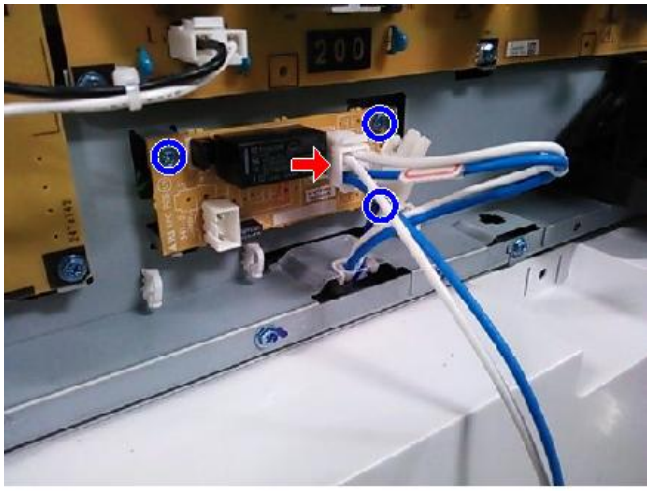


Note

- The harness will be connected to the DHB. See the details in step 9.

8. Reinstall the HVP-CB unit and power supply box.

9. Secure the DHB to the main machine, and then connect the Blue/White harness to the socket on the DHB (× 1, × 3).

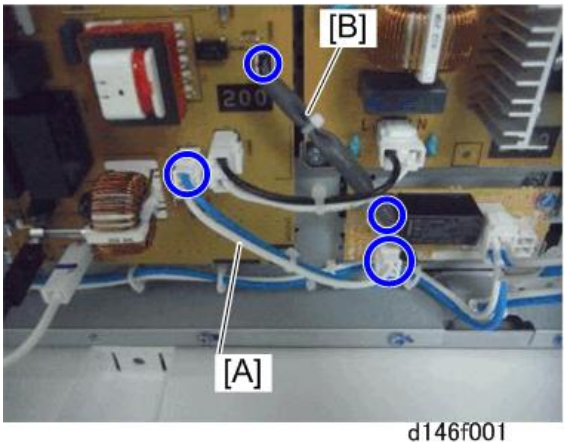


10. Connect the harnesses on the DHB to the sockets on the PSU.

Note

- Two types of harnesses are packed with the heater. Both the Blue/White one [A] and the Gray one

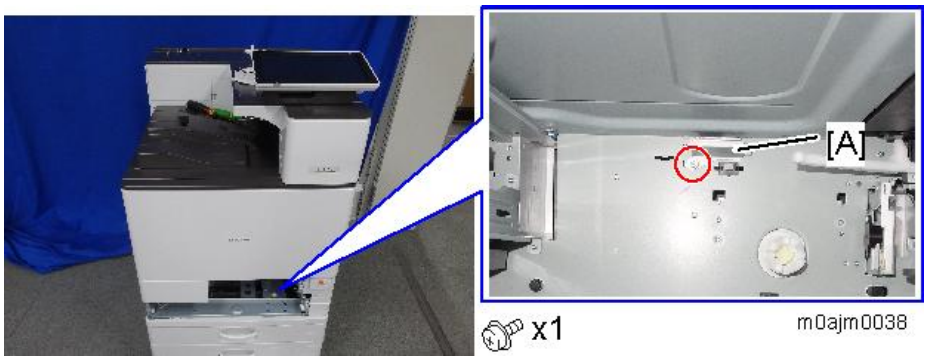
[B] must be connected as shown below.



d146f001

(2) Heater for PCDU

1. Pull out the paper feed tray 1 and 2.
2. Remove the connector cover [A] located inside the machine.



m0ajm0038

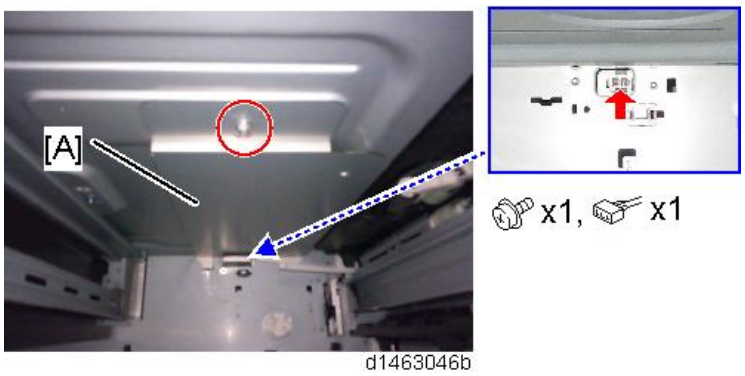
3. Temporarily tighten a screw at the top (M3x8: x1).

d1463045

4. Install the heater [A] by connecting the connector to the inside of the machine, then tighten the screw completely.

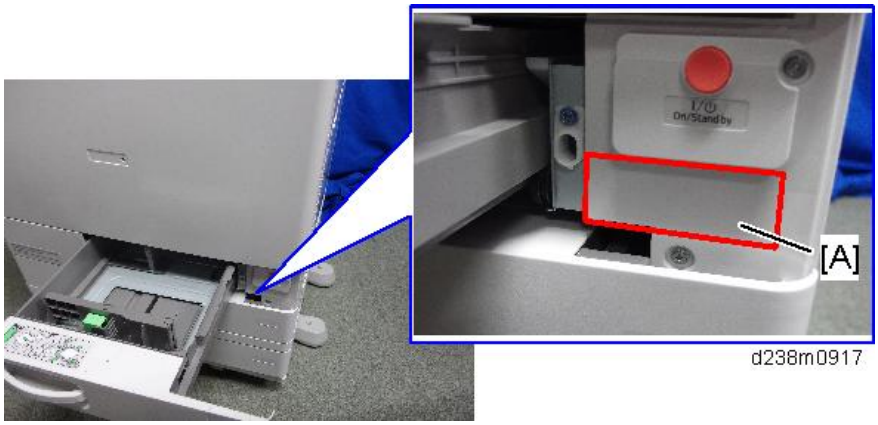
Note

- Hold the heater against the inside during final tightening.



5. Reinstall the connector cover (× 1).

6. Attach the warning decal [A].



7. Reassemble the machine.

8. Connect the power cord, and then check that the heater is being powered and heated.

9. To keep the anti-condensation heater constantly ON, set SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to "1".

Anti-Condensation Heater for Paper Feed Trays

⚠CAUTION

- Do the following procedure not to damage any harnesses.
- Check that harnesses are not damaged or pinched after installation.
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Important

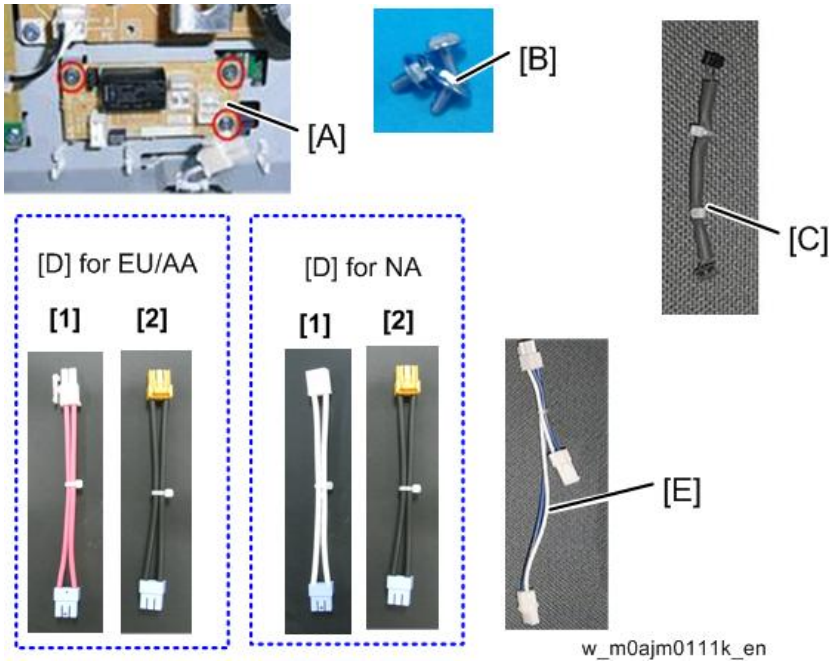
- This option is provided as a service part.
- **ONE SET OF ELECTRICAL COMPONENTS IS REQUIRED FOR ONE MACHINE** when installing any heaters.
  e.g. When installing heaters for the standard tray and the 1-tray paper feed unit, only one set of electrical components is required.
- Tray heaters vary depending on the destination.The tray heaters for NA have a red tag with “110 V to 130 V” written on it. First confirm that the destination of the unit and the voltage is correct, and then install the tray heater. If the combination is not correct, the paper feed tray may be damaged by excess heat.
- Remove the red tag from the heater before installing the heater in the tray.

Accessory Check

Electrical Components*

	Description	Q’ty	Remarks
[A]	PCB: DHB	1	
[B]	Tapping screw: M3 x 6	3	
[C]	Harness between HDB and PSU (Gray)	1	
[D]	**[1]** Harness between HDB and PSU (Red/White)	1	Not used for this machine
	[2] Harness between HDB and PSU (Black)	1	
[E]	Harness for tray	1	

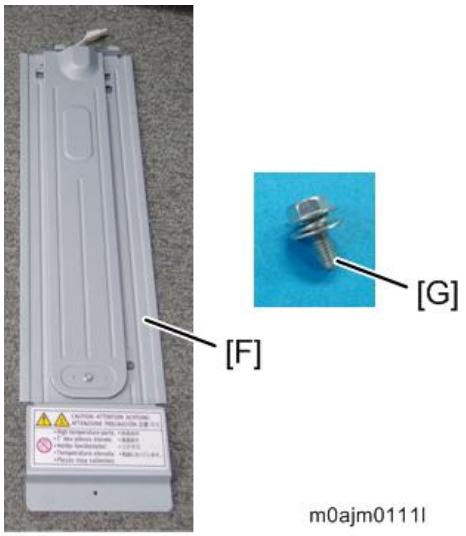
*The voltage varies between different regions, so a set of the electrical components (120V and 230V) is available for each region. Order the correct set for your region.



Anti-Condensation Heater for Main Unit*

	Description	Q'ty	Remarks
[F]	Tray heater for main unit	1	
[G]	Tapping screw with washer : M3 x 8	1	

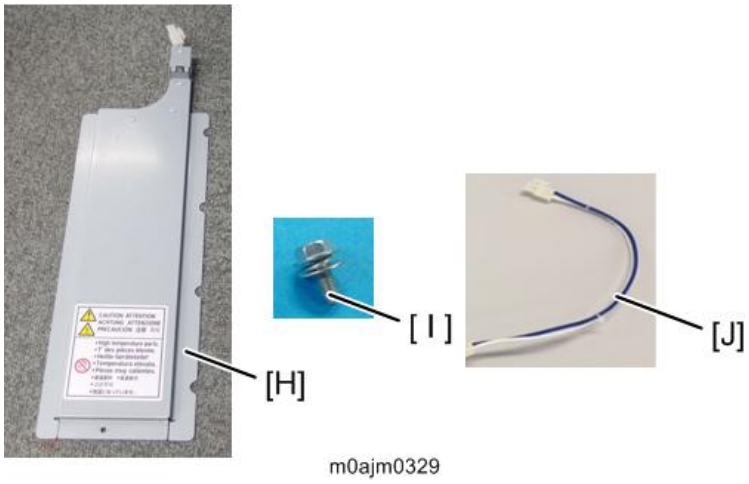
*The voltage varies between different regions, so a tray heater set (120V and 230V) is available for each region. Order the correct set for your region.



Anti-Condensation Heater for Optional PFU and LCIT*

	Description	Q'ty	Remarks
[H]	Tray heater for optional PFU/LCIT	1	
[I]	Tapping screw with washer : M4 x 10	1	
[J]	Harness between Tray Heater and Main Unit	1	

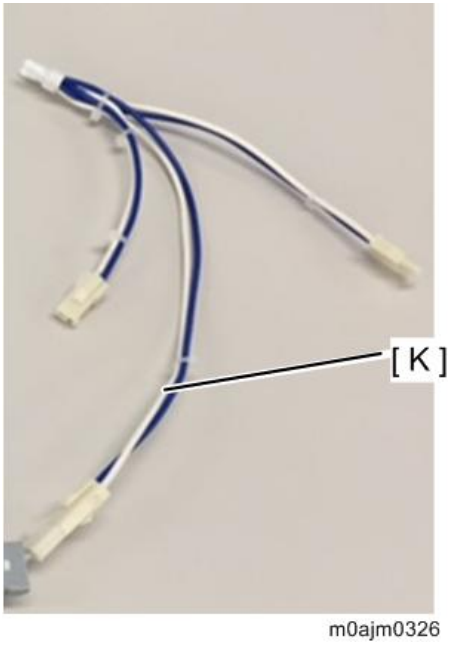
*The voltage varies between different regions, so a set of the tray heater (120V and 230V) is available for each region. Order the set of heater for the applicable region.



Harness for Five-tier Paper Tray

An additional harness is required when installing heaters for 1-Tray Paper Feed Unit and 2-Tray Paper Feed Unit.

	Description	Q'ty	Remarks
[K]	Five-tier paper tray harness	1	

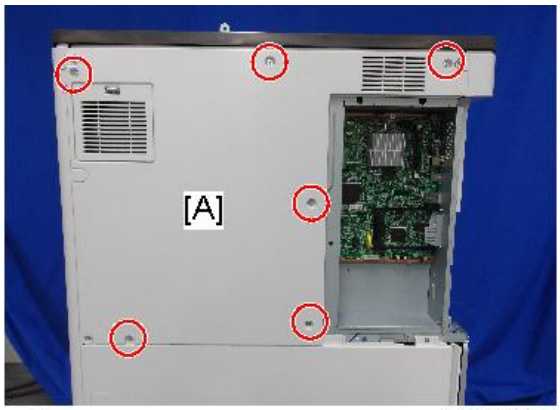


Connecting to Main Machine Tray

1. Remove the rear right cover [A] (coin screw x2).

m0ajm1011

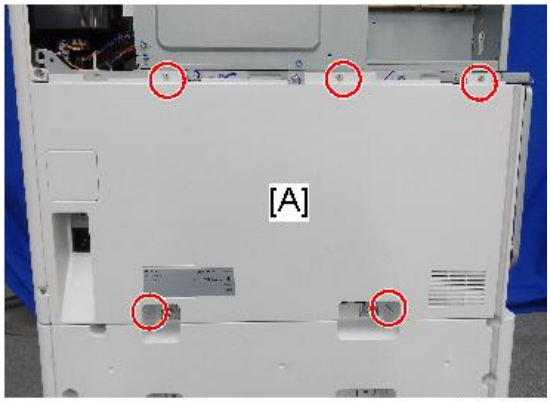
2. Remove the rear cover [A].



x6

m0ajm0039

3. Remove the rear lower cover [A].



x5

m0ajm0040

4. Attach the DHB (☞X 3).

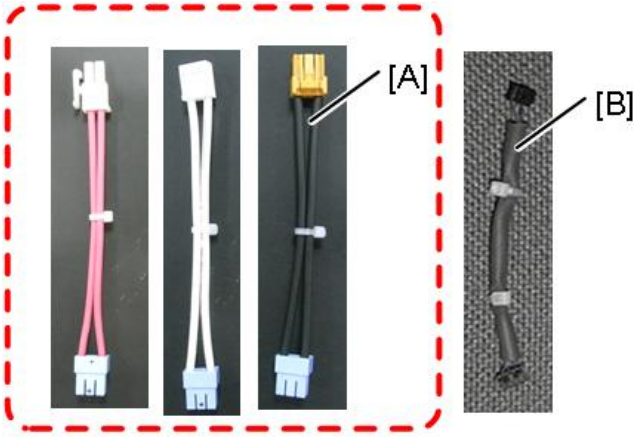
d1469001

5. Connect the two harnesses between the DHB and the PSU.

d1469002

Note

- Use the black harnesses [A] and [B]. Red and white harnesses are not used for this machine.



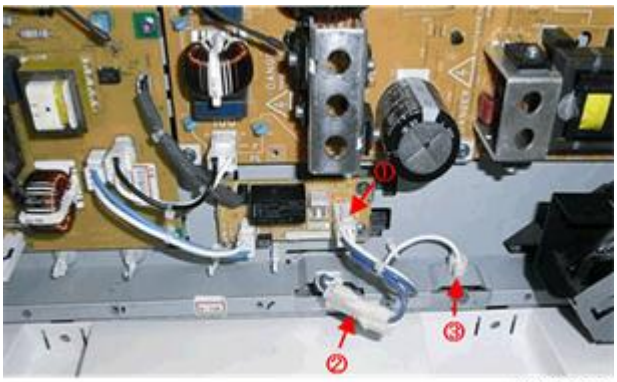
m0ajm0283

6. Connect the connector ① to the DHB, ② to the harness already attached, and ③ to the base frame for the optional paper feed unit.

Note

- This cable is only white for NA/EU/AA.

d1469008



d1469003

7. Pull out trays 1 and 2 from the machine.

d146f102

8. Connect the connector of the heater to the main machine.

d146f103

9. Install the heater inside the machine (☞x 1).

d146f105

10. Reattach trays 1 and 2.

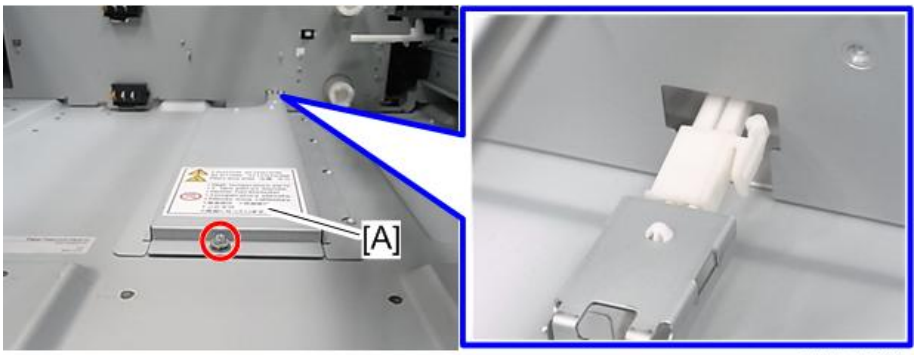
11. To keep the anti-condensation heater constantly ON, set SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to "1".

Connecting to Paper Feed Unit PB3240

1. Perform Steps 1 to 6 of "Connecting to Main Machine Tray" (Connecting to Main Machine Tray).

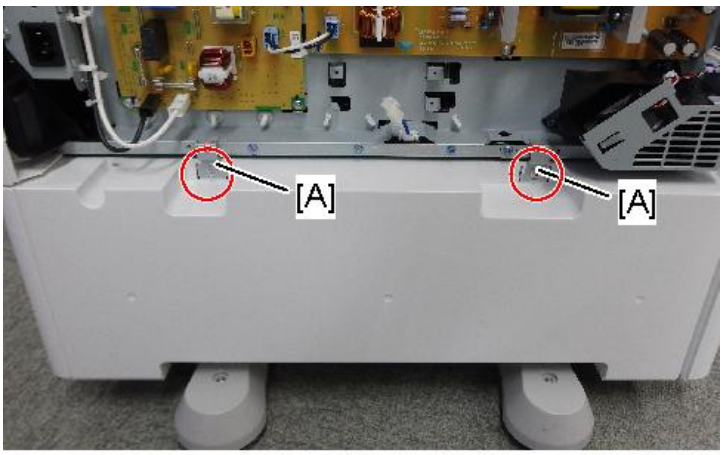
2. Pull out the 1st and 2nd paper feed trays of the 2-tray paper feed unit.

3. Pass the harness of the heater [A] out through the hole in the inner rear frame of the 2-tray paper feed unit, and then attach the tray heater on the bottom plate (x1).



d197z1082

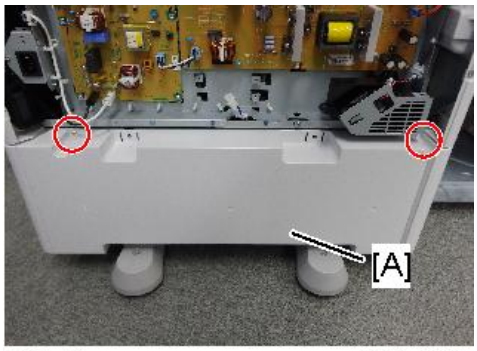
4. Remove the securing brackets [A] of the 2-tray paper feed unit.



x2

d238m0836

5. Remove the rear cover [A] of the 2-tray paper feed unit.

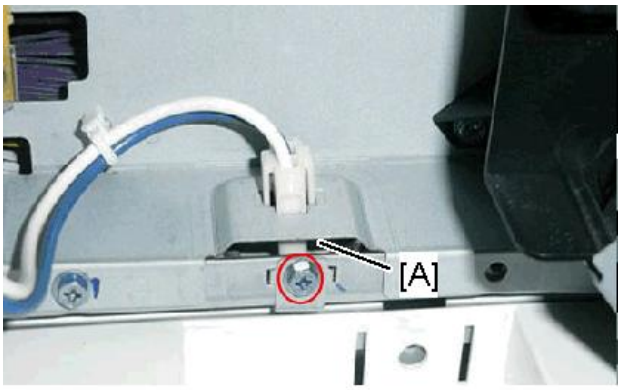


x2

d238m0837

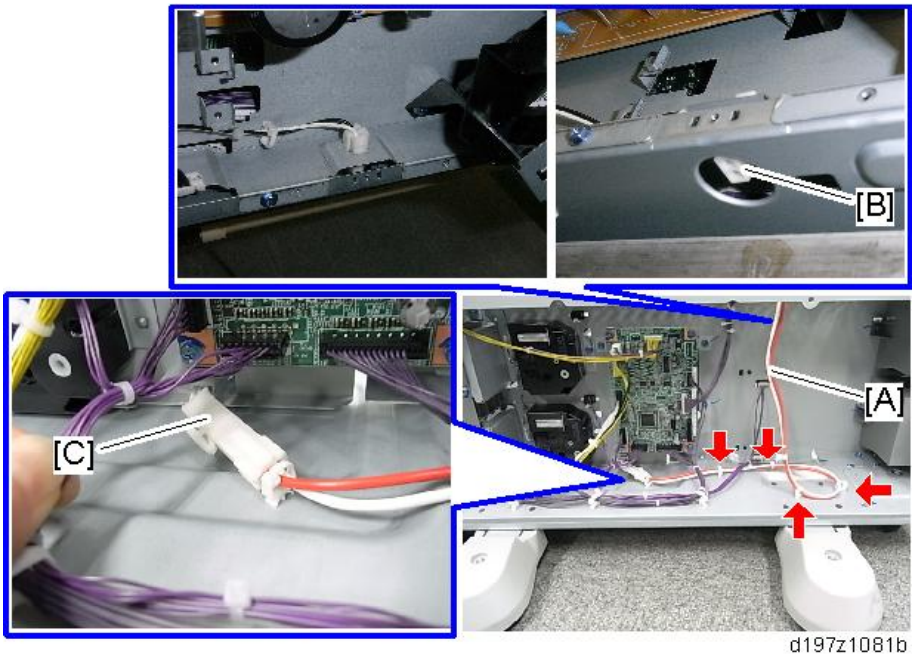
6. Remove the bracket [A] on the bottom of the main unit (x1).

The removed bracket can be discarded.



d1469004

7. Connect the PFU harness [A] of the 2-tray paper feed unit to the relay harness [B] of the main unit and the heater harness [C] (☞x4).



d197z1081b

8. Reinstall the removed parts and covers.

9. Connect the power supply cord and turn ON the main power.

10. To keep the anti-condensation heater constantly ON, set SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to "1".

Connecting to Paper Feed Unit PB3250

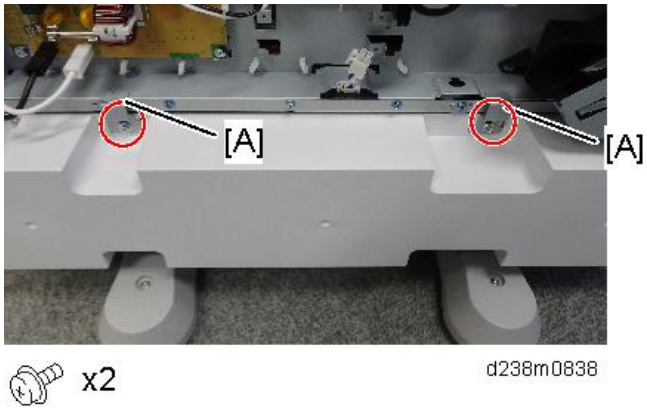
1. Perform Steps 1 to 6 of "Connecting to Main Machine Tray" (Connecting to Main Machine Tray).

2. Pull out the paper feed tray of the 1-tray paper feed unit.

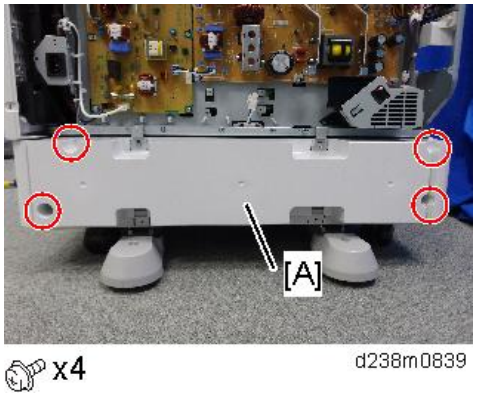
3. Put the harness of the heater [A] out through the hole in the inner rear frame of the 1-tray paper feed unit, and

then attach the tray heater on the bottom plate (x1).

4. Remove the securing brackets [A] of the 1-tray paper feed unit.

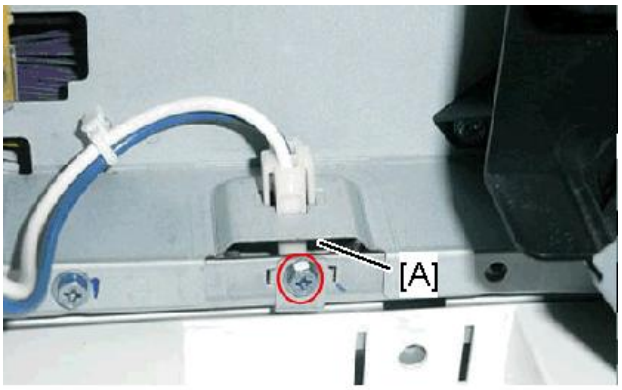


5. Remove the rear cover [A] of the 1-tray paper feed unit.



6. Remove the bracket [A] on the bottom of the main unit (x1).

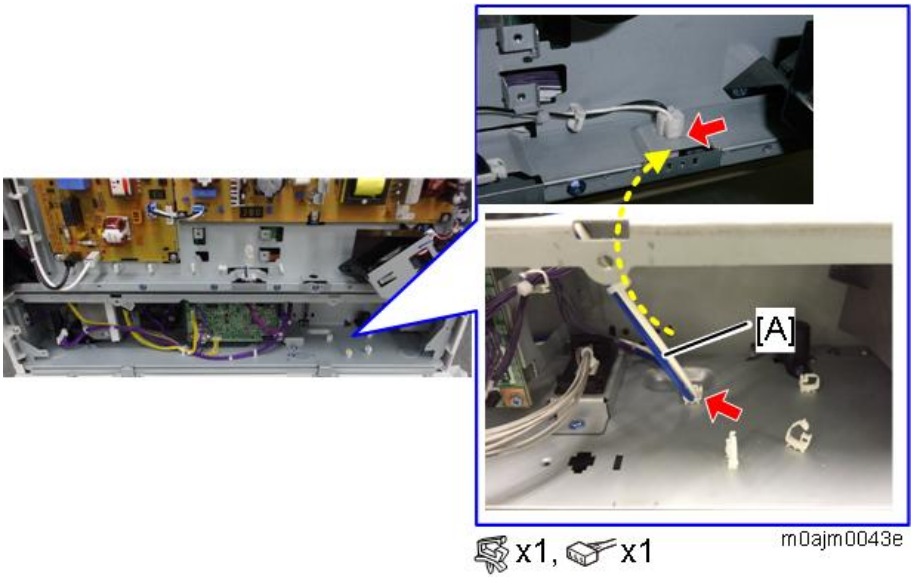
The removed bracket can be discarded.



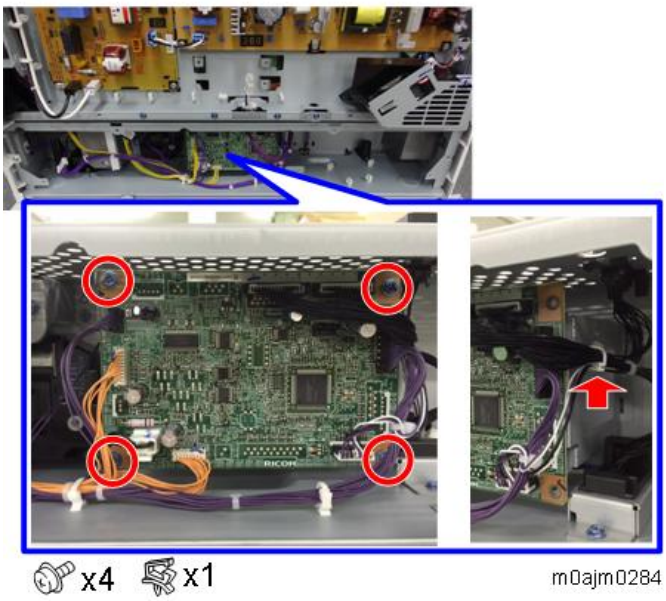
d1469004

7. Route and connect the PFU harness [A] in the 1-tray paper feed unit.

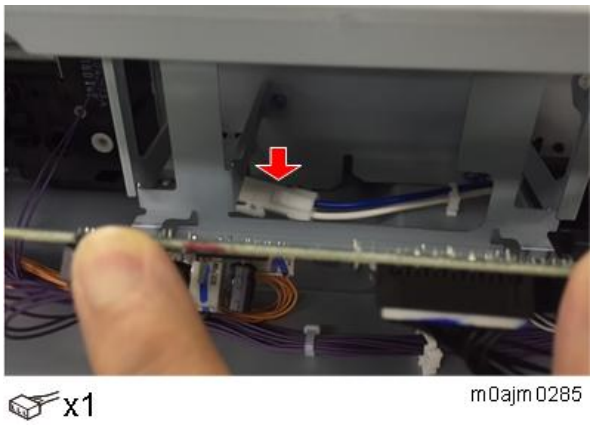
The other connector will be connected in step 9.



8. To gain access to the connector at the back of the board, remove the CTL board's screws and clamp.



9. Tilt the CTL board to the front to expose the connector, and then connect the heater harness.



10. Reinstall the removed parts and covers.

11. Connect the power cord and turn ON the main power.

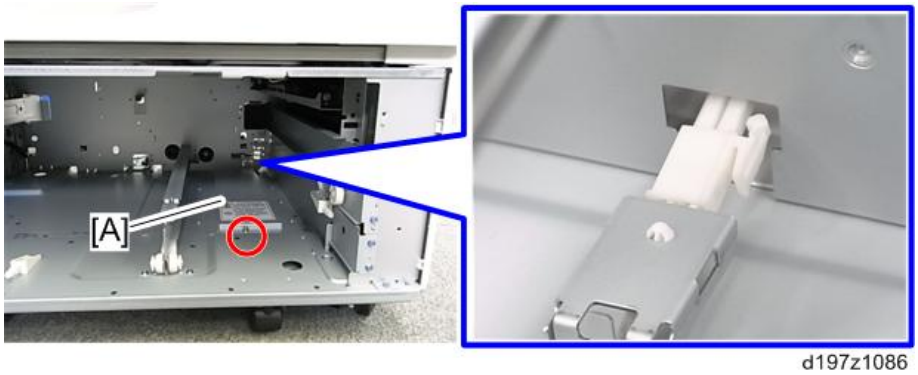
12. To keep the anti-condensation heater constantly ON, set SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to "1".

Connecting to LCIT PB3260

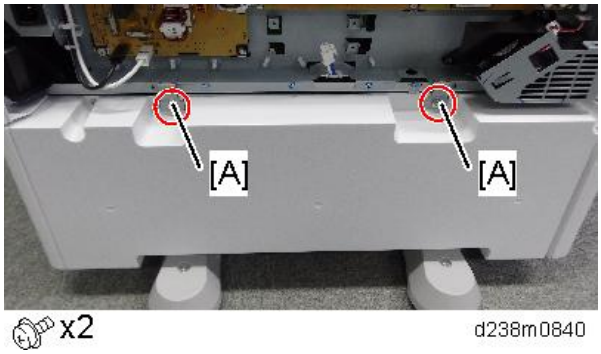
1. Perform Steps 1 to 6 of "Connecting to Main Machine Tray" (Connecting to Main Machine Tray).

2. Pull out the paper feed tray of the optional LCIT.

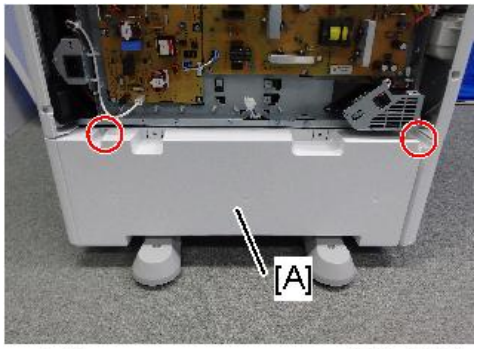
3. Pass the harness of the heater [A] out through the hole in the inner rear frame of the optional LCIT, and then attach the tray heater on the bottom plate (x1).



4. Remove the securing brackets [A] of the optional LCIT.



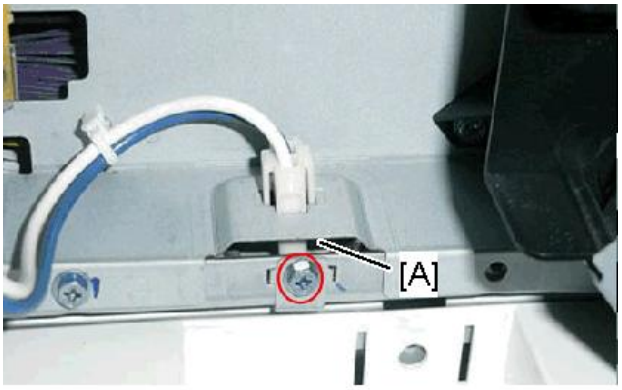
5. Remove the rear cover [A] of the optional LCIT.



x2 d238m0841

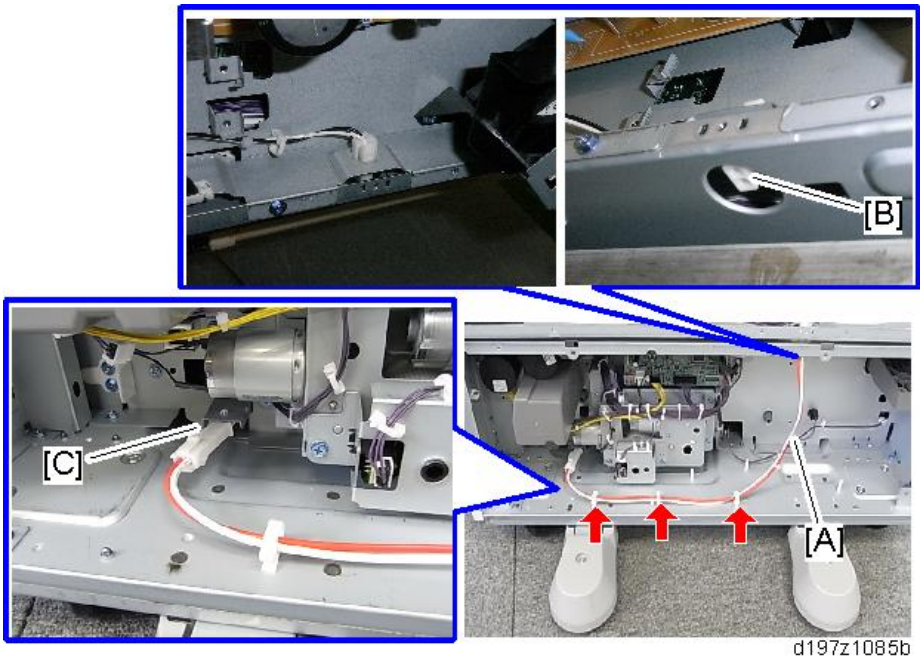
6. Remove the bracket [A] on the bottom of the main unit (x1).

The removed bracket can be discarded.



d1469004

7. Connect the PFU harness [A] of the optional LCIT to the relay harness [B] of the main unit and the heater harness [C] (x3).



d197z1085b

8. Reinstall the removed parts and covers.

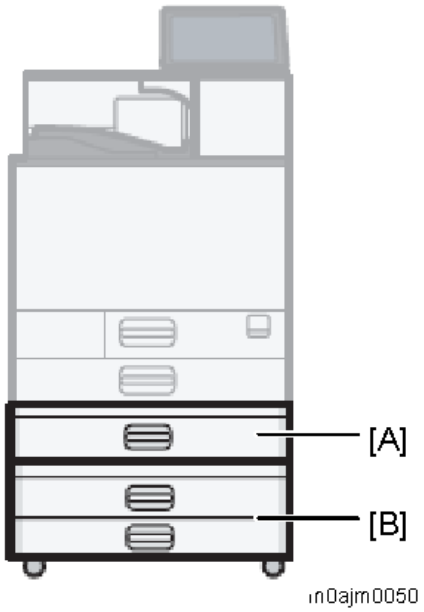
9. Connect the power cord and turn ON the main power.

10. To keep the anti-condensation heater constantly ON, set SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to "1".

Connecting the Heaters when Using a Stack of Five Paper Trays

Overview

When both Paper Feed Unit PB3250 [A] and Paper Feed Unit PB3240 [B] are connected, it is necessary to route the heater harness between the paper feed units.

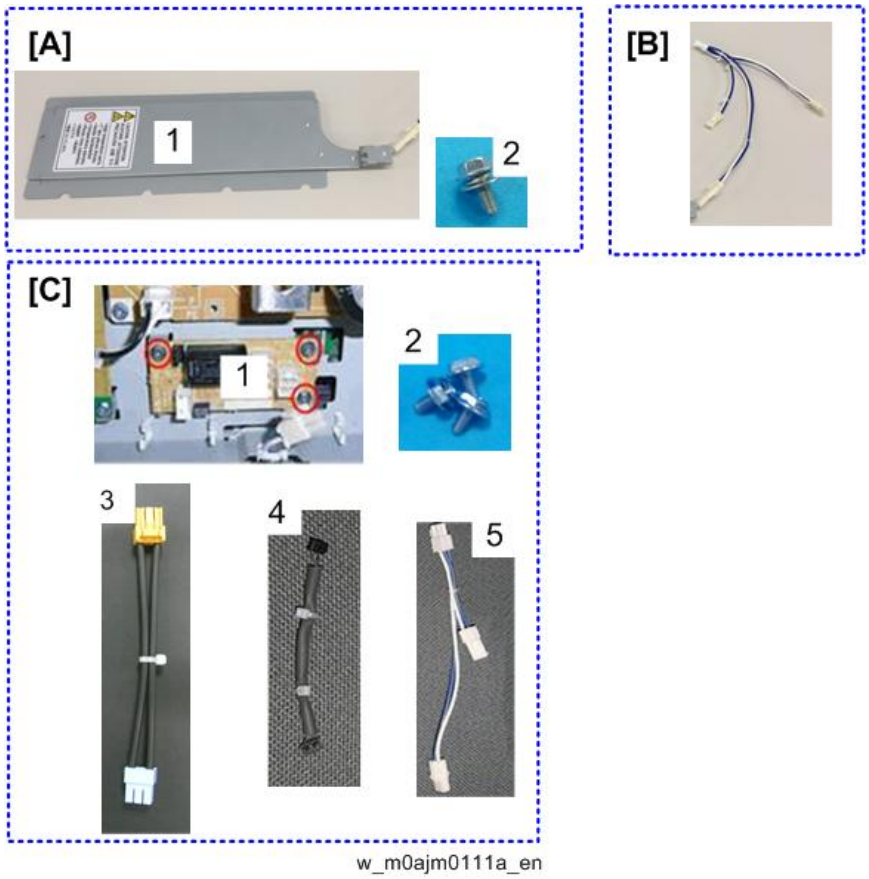


Order the following parts [A], [B] and [C] as service parts.

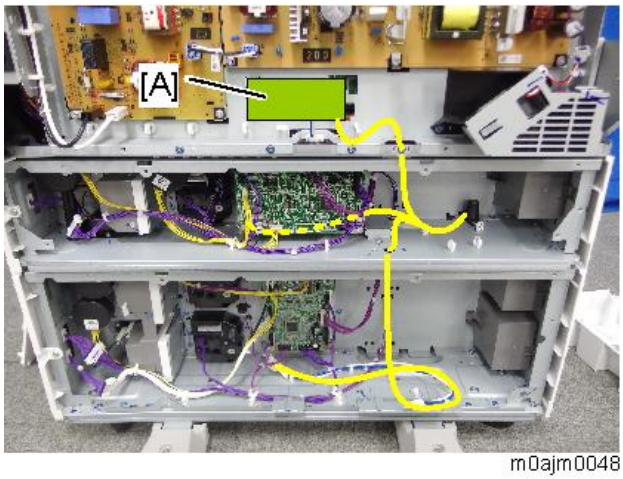
No.	Description	Q'ty	Remarks
[A]	1 : Tray heater for optional PFU/LCIT	1	Parts from Anti-Condensation Heater for Optional PFU and LCIT*
	2 : Tapping screw with washer : M4 x 10	1	
[B]	**Five-tier paper tray harness**	**1**	**Harness for Five-tier Paper Tray**
[C]	1: PCB: DHB	1	Electrical Components*
	2: Tapping screw: M3 x 6	3	
	3: Harness between HDB and PSU (Black)	1	

No.	Description	Q'ty	Remarks
	4: Harness between HDB and PSU (Gray)	1	
	5: Harness for tray	1	

*The voltage varies between different regions, so a set of the electrical components and the tray heater (120V and 230V) is available for each region. Order the correct set for your region.



Connection schematic diagram



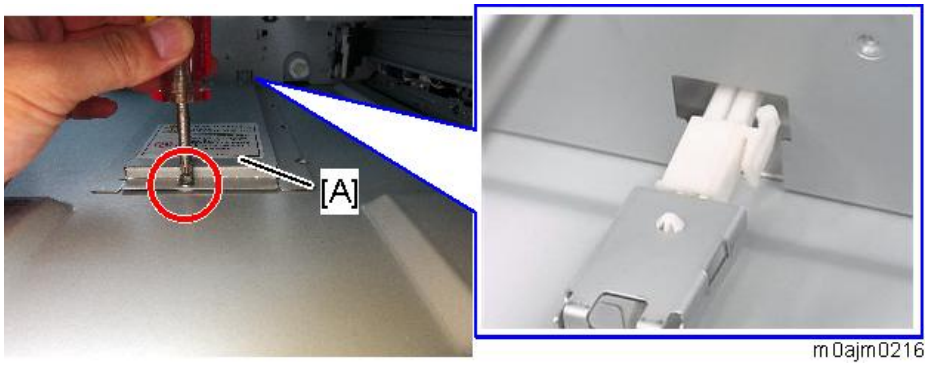
[A]: DHB

Installation Procedure

1. Perform Steps 1 to 6 of "Connecting to Main Machine Tray" (Connecting to Main Machine Tray).
2. Pull out the paper feed tray of the 1-tray paper feed unit [A].

m0ajm0217

3. Pass the harness of the heater [A] out through the hole in the inner rear frame of the 1-tray paper feed unit, and then attach the tray heater on the bottom plate using a stubby driver (x1).



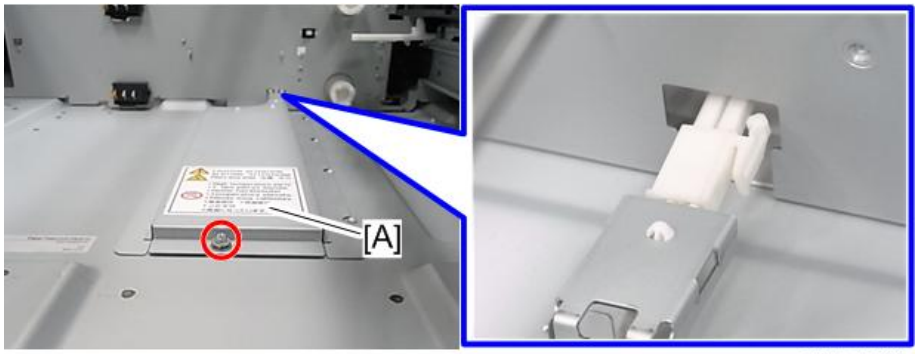
m0ajm0216

4. Pull out the 1st and 2nd paper feed trays of the 2-tray paper feed unit [A].

m0ajm0218

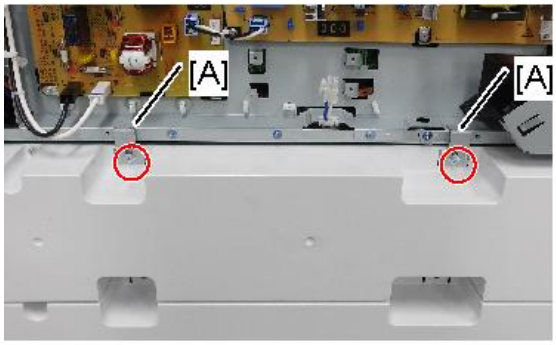
5. Pass the harness of the heater [A] out through the hole in the inner rear frame of the 2-tray paper feed unit,

and then attach it (x1).



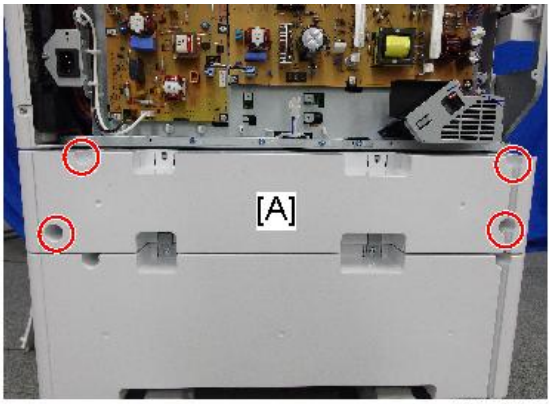
d197z1082

6. Remove the securing brackets [A] of the 1-tray paper feed unit.



x2 m0ajm0041

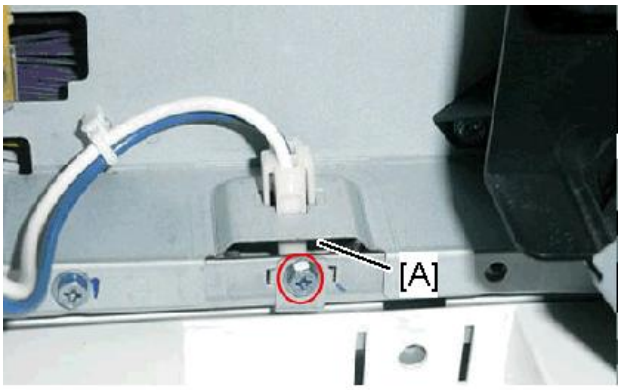
7. Remove the rear cover [A] of the 1-tray paper feed unit.



x4 m0ajm0042

8. Remove the bracket [A] on the bottom of the main unit (x1).

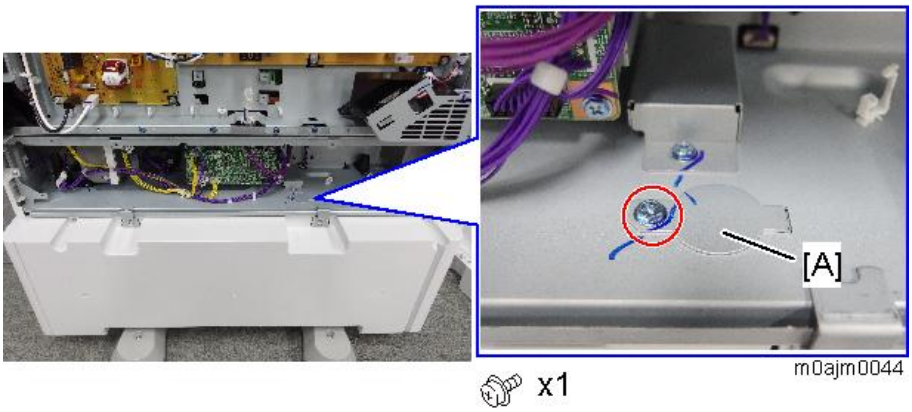
The removed bracket can be discarded.



d1469004

9. Remove the connector cover [A] on the bottom of the 1-tray paper feed unit.

The removed cover can be discarded.

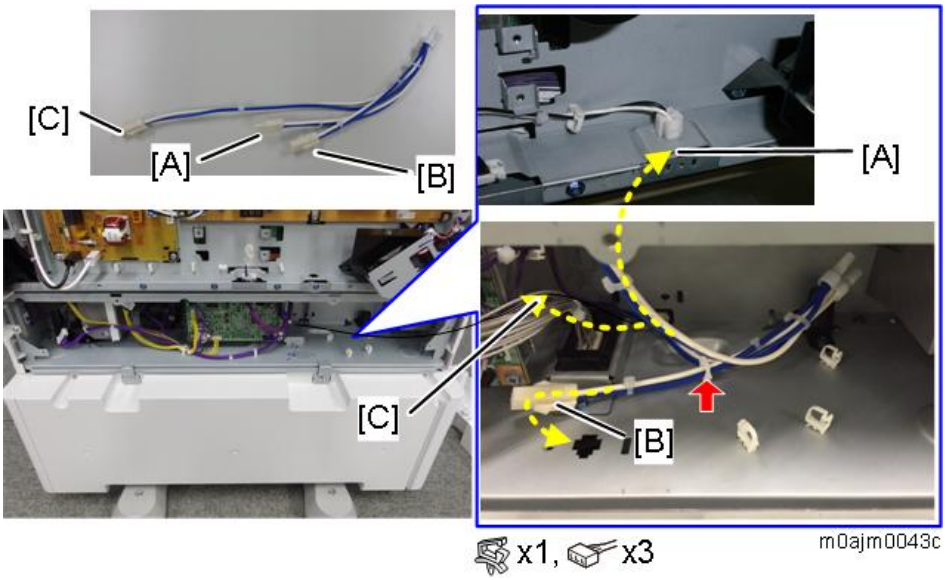


m0ajm0044

10. Route and connect the PFU harness as follows;

- Connect the connector [A] to the relay harness on the main unit.
- The connector [C] will be connected to the heater in step 12.

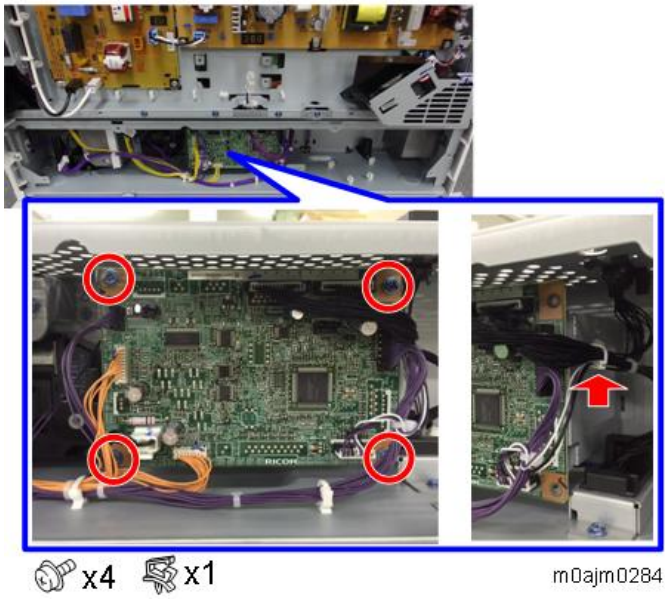
- Mount the connector [B] on the frame in order to connect it to the 2-tray paper feed unit.



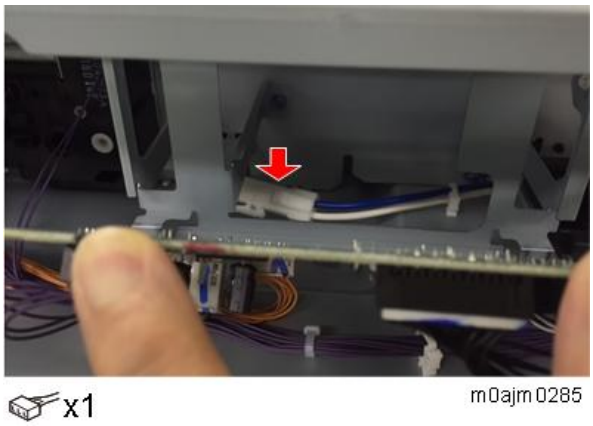
m0ajm0043c

-

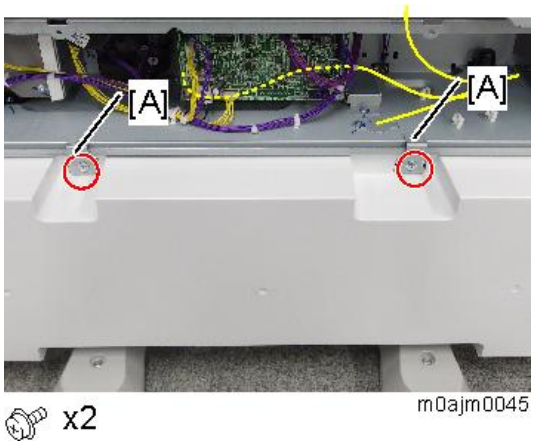
11. Remove the CTL board.



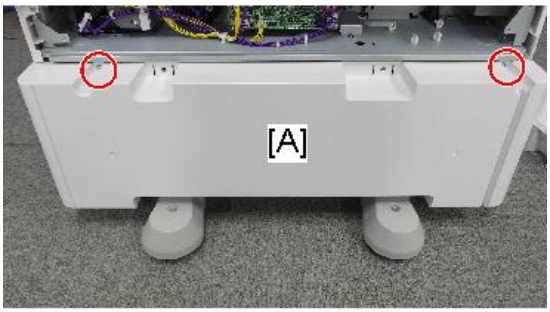
12. Tilt the CTL board to the front to expose the connector, and then connect the heater harness.



13. Remove the securing brackets [A] of the 2-tray paper feed unit.

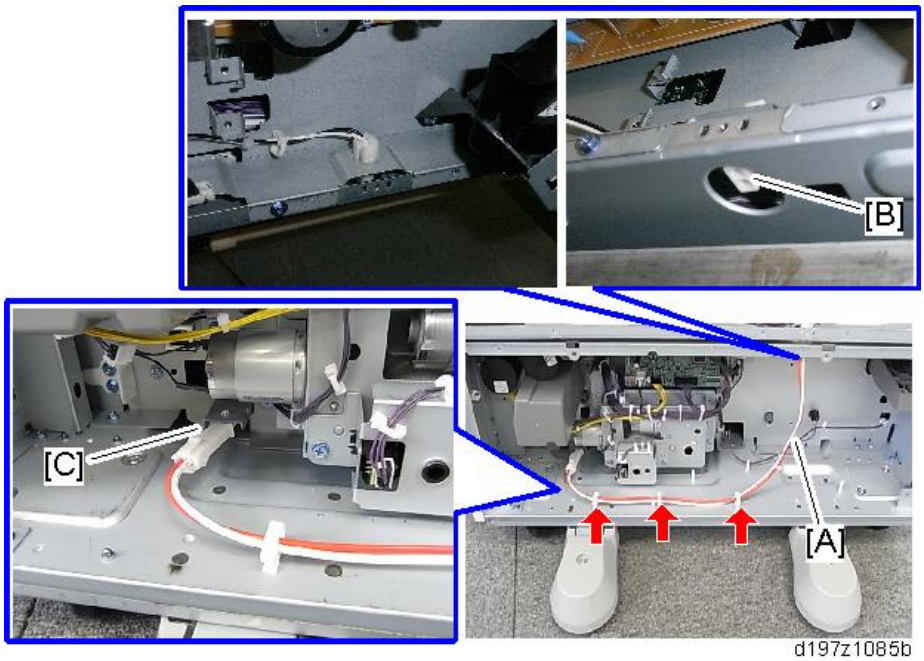


14. Remove the rear cover [A] of the 2-tray paper feed unit.



x2 m0ajm0046

15. Connect the PFU harness [A] of the 2-tray paper feed unit to the relay harness [B] from the main unit and the heater harness [C] (x3).



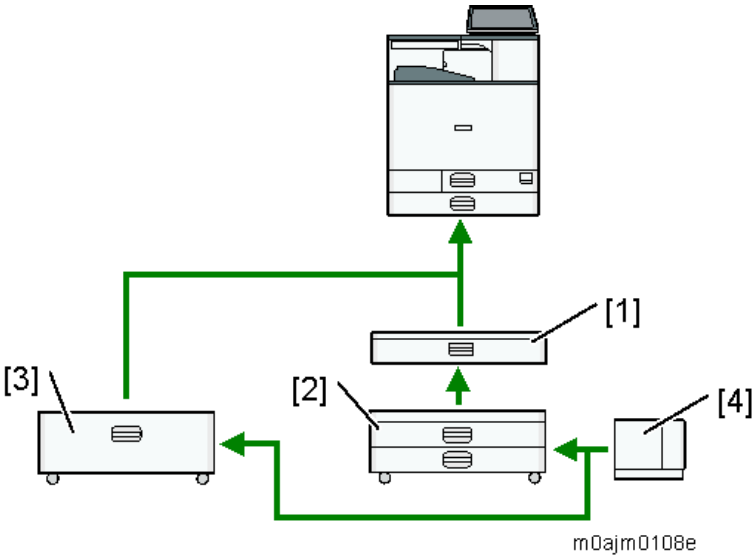
16. Reinstall the removed parts and covers.

17. Connect the power supply cord and turn ON the main power.

18. To keep the anti-condensation heater constantly ON, set SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to "1".

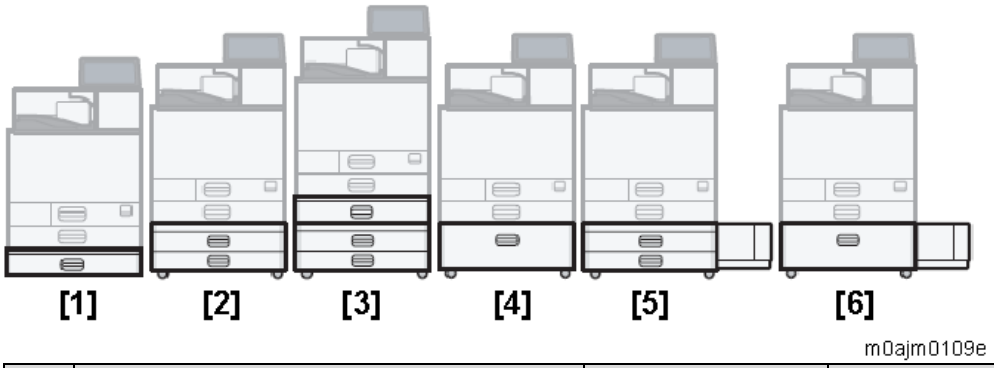
Paper Feed Unit Combinations

Connection Diagram



No.	Product Name
1	Paper Feed Unit PB3250
2	Paper Feed Unit PB3240
3	LCIT PB3260
4	LCIT RT3030

Connection Patterns



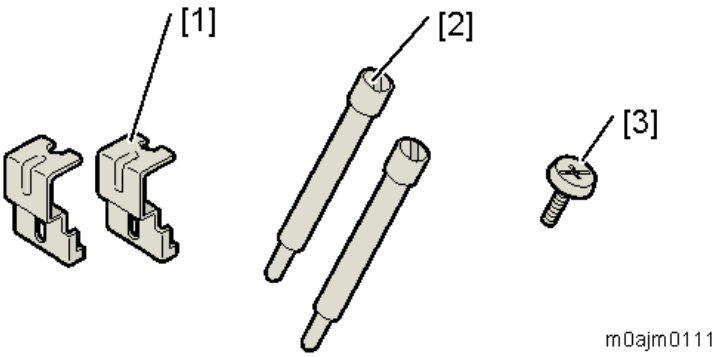
No.	Configuration	Finisher Connection	Capacity (Plain Paper 1 to Thick Paper 4)
1	Main unit trays + 1 tray PFU (Paper Feed Unit)	Not possible	1100+500 sheets

No.	Configuration	Finisher Connection	Capacity (Plain Paper 1 to Thick Paper 4)
2	Main unit trays + 2 tray PFU	Possible	1100+1100 sheets
3	Main unit trays + 1 tray PFU + 2 tray PFU	Not possible	1100+550+1100 sheets
4	Main unit trays + Tandem tray	Possible	1100+2000 sheets
5	Main unit trays + 2 tray PFU + Side LCIT	Possible	1100+1100+1500 sheets
6	Main unit trays + Tandem tray + Side LCIT	Possible	1100+2000+1500 sheets

Paper Feed Unit PB3240 (M494-17, -21)

Accessory Check

No.	Description	Q'ty	Remarks
1	Securing Bracket	2	
2	Long Screws (M4 × 10)	2	
3	Coin Screw (M4 × 10)	1	

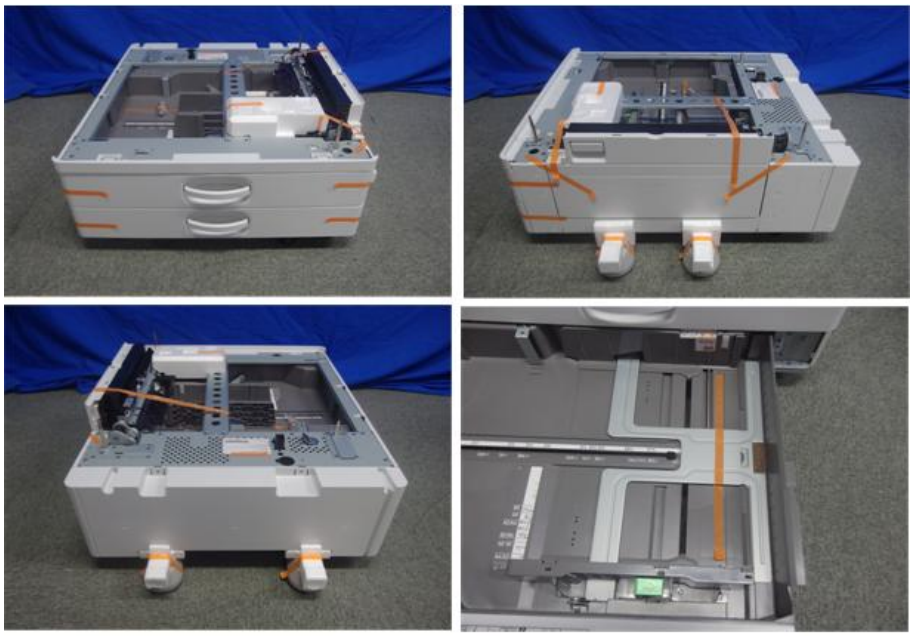


Installation procedure

⚠CAUTION

- The main machine weighs approximately 85 kg (187.4 lb.). The printer should always be lifted by at least four people.
- The machine should be held at the correct locations and lifted gently. If it is lifted without care, handled carelessly or dropped, it may result in an injury.
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over. If they are not connected, they may move and fall over, resulting in injury.

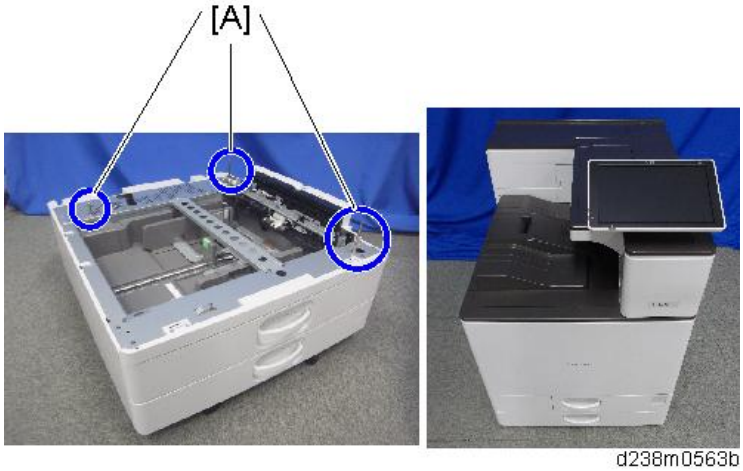
1. Remove the orange tape and retainers.



d238m0546

2. Remove the accessories (fixing screws, etc.) from the package.

3. Holding the grips on the machine, align the machine with the locating pins [A], and place the machine on the paper feed unit.



d238m0563b

Note

- When you lift the machine, hold the correct locations.

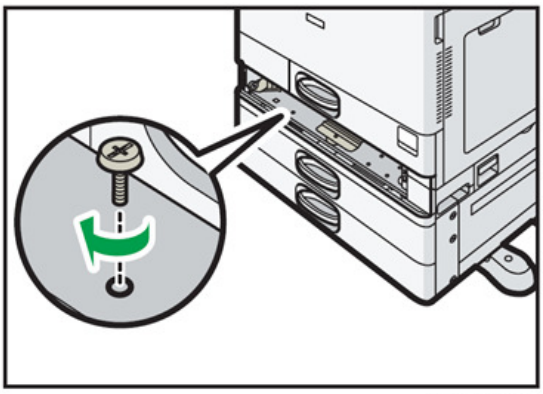
d238m0935b

- Do not hold any other parts of the machine when lifting it, because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause

the paper feed unit to deform. Always connect the machine and paper feed unit properly.

4. Pull out the 2nd paper feed tray of the main machine.
5. Fix the machine to the feed unit (coin screw x1: M4x10).

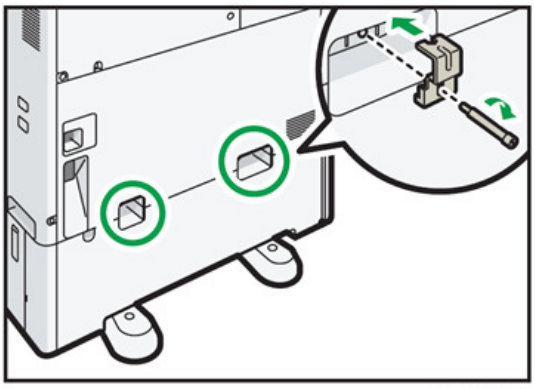
   Tighten the screw firmly using a coin.



m0ajm0146

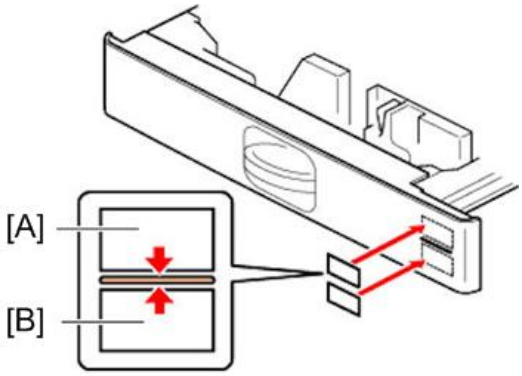
6. Attach the securing brackets to two positions on the left and right at the rear of the machine (long screw x2: M4x10).

   Tighten the screws firmly using a coin.



m0ajm0147

7. Put the 2nd paper feed tray back in the machine.
8. Attach the decals as shown below.



d1462230

[A]: Tray number decal

[B]: Paper size decal

Note

- The tray number decal and paper size decal are packaged together with the main machine.

9. Lock the casters of the paper feed unit.

d1462439

10. Connect the power cord to the machine.

Note

- Stabilizers are attached to the machine when it is shipped. Do not remove them.

d1462468

11. Turn ON the main power.

12. Load the paper, and check that the size of paper loaded in the paper feed tray is displayed on the operation panel.

13. Adjust the registration for the paper feed unit.

- SP1-002-004 (Side-to-Side Registration Paper Tray 3)
- SP1-002-005 (Side-to-Side Registration Paper Tray 4)

SP descriptions

- **SP1-002 (Side-to-Side Registration)**

  Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

  Increasing a value: The image is moved towards the rear edge of the paper.

  Decreasing a value: The image is moved towards the front edge of the paper.

Installing a Stack of Five Paper Trays

Overview

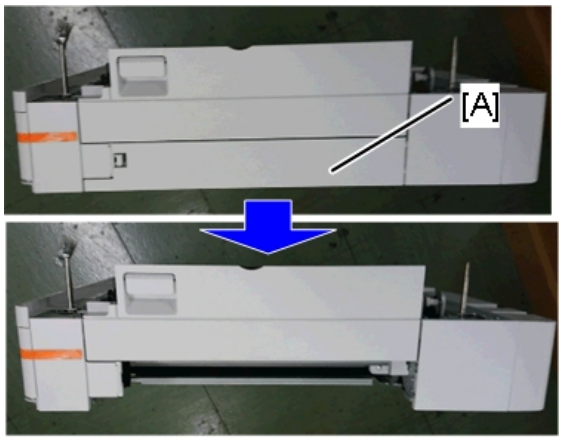
You can set up a five-tier stack of paper trays by mounting one Paper Feed Unit PB3240 and one Paper Feed Unit PB3250 under the machine.

Installation Procedure

⚠CAUTION

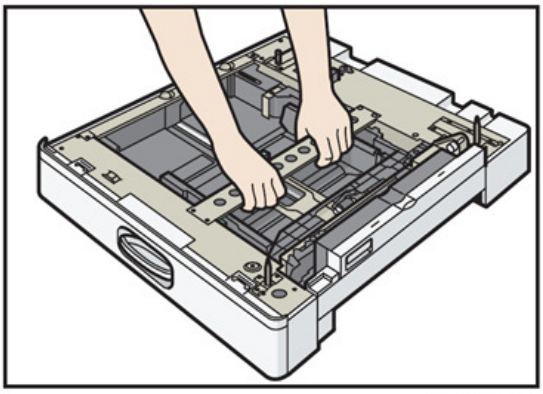
- The main machine weighs approximately 85 kg (187.4 lb.). The printer should always be lifted by at least four people.
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over. If they are not connected, they may move and fall over, resulting in injury.

1. Remove the orange tape and retainers for each optional paper feed units.
2. Remove the accessories (fixing screws, etc.) from the package.
3. Remove cover [A] of the 1-tray paper feed unit.



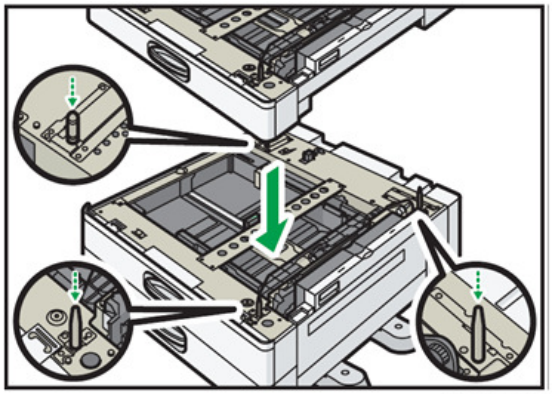
m0ajm0199

4. Hold the 1-tray paper feed unit as shown in the illustration below, and then lift it.



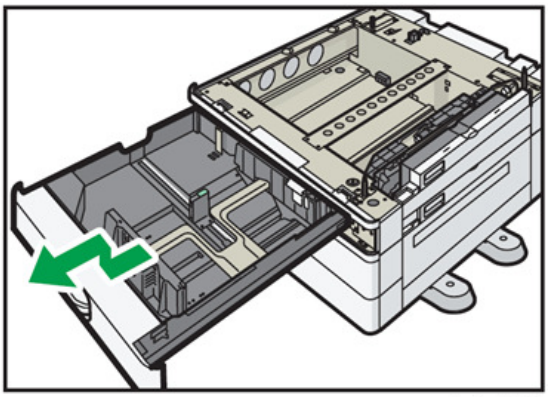
m0ajm0152

5. Align it with the top of the 2-tray paper feed unit, and slowly lower it straight down.



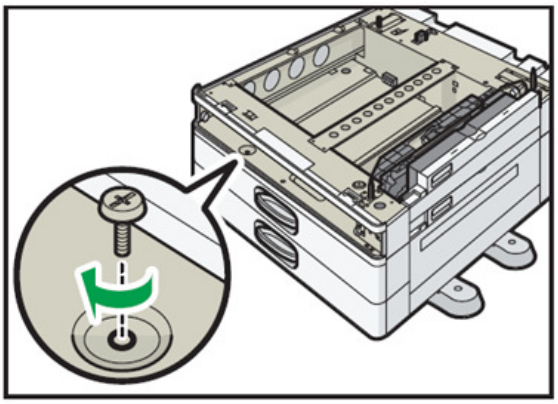
m0ajm0153

6. Pull out the tray of the 1-tray paper feed unit.



m0ajm0154

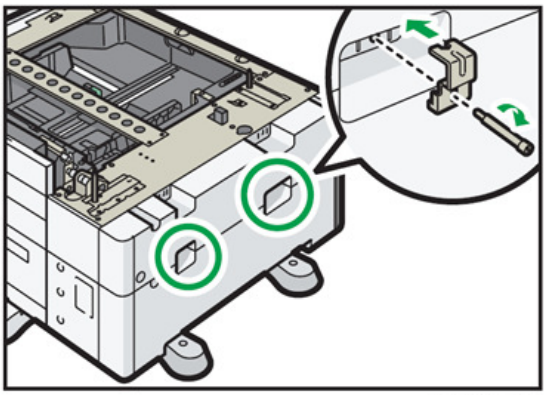
7. Attach the coin screw in the hole in the left side of the tray opening to secure it to the paper feed unit. Tighten the screw firmly using a coin.



m0ajm0155

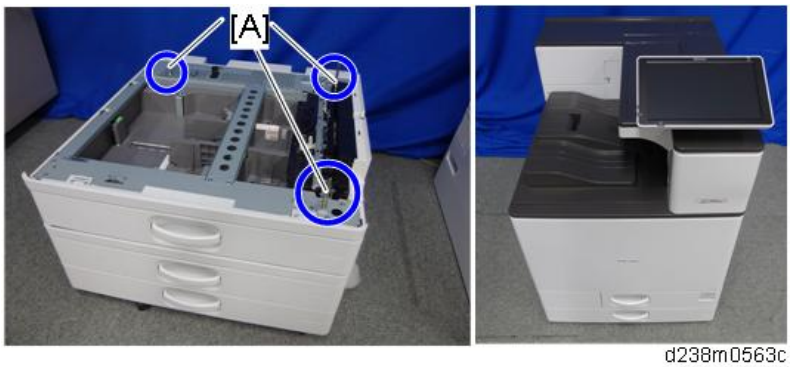
8. Put the paper feed tray back in the machine.

9. Attach the securing brackets to two positions on the left and right at the rear of the optional tray unit. Tighten the screws firmly using a coin.



m0ajm0156

10. Holding the grips on the machine, align the machine with the locating pins [A], and place the machine on the paper feed unit.



d238m0563c

Note

When you lift the machine, hold the correct locations.

d238m0935b

Do not hold any other parts of the machine when lifting it, because this may cause the machine to deform.

Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

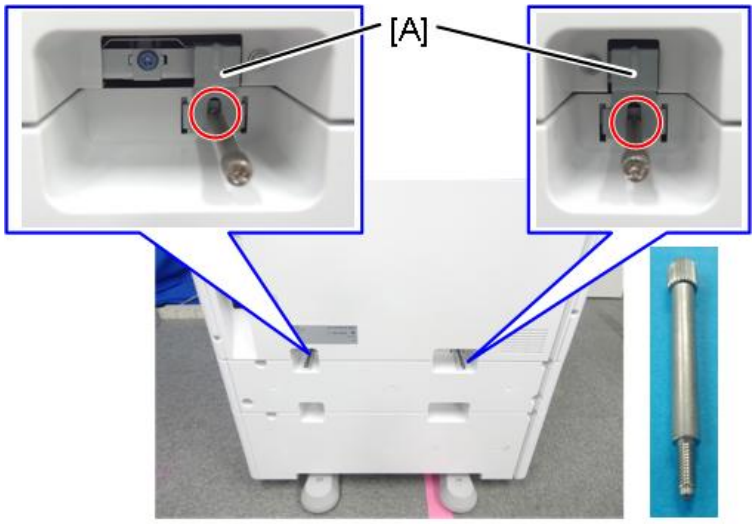
11. Pull out the 2nd paper feed tray of the main machine.

12. Fix the machine to the feed unit (coin screw x1: M4x10).

Tighten the screw firmly using a coin.

m0ajm0187

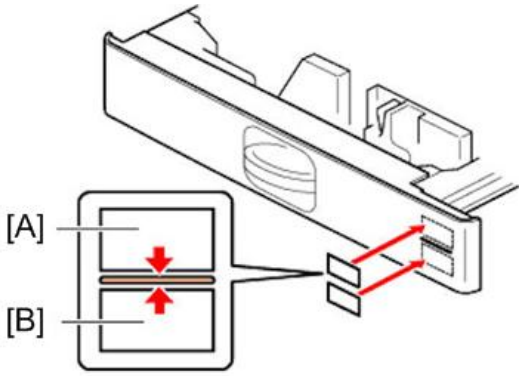
13. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine (long screw x2: M4x10).



m0ajm0188

14. Put the 2nd paper feed tray back in the machine.

15. Attach the decals as shown below.



d1462230

[A]: Tray number decal

[B]: Paper size decal

Note

- The tray number decal and paper size decal are packaged together with the main machine.

16. Lock the casters of the paper feed unit.

d1462439

17. Connect the power cord to the machine.

Note

- Stabilizers [A] are attached to the machine when it is shipped. Do not remove them.

m0ajm0189

18. Turn ON the main power.

19. Load the paper, and check that the size of paper loaded in the paper feed tray is displayed on the operation panel.

20. Adjust the registration for the paper feed unit.

- SP1-002-004 (Side-to-Side Registration Paper Tray 3)
- SP1-002-005 (Side-to-Side Registration Paper Tray 4)
- SP1-002-007 (Side-to-Side Registration Paper Tray 5)

SP descriptions

- **SP1-002 (Side-to-Side Registration)**

  Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

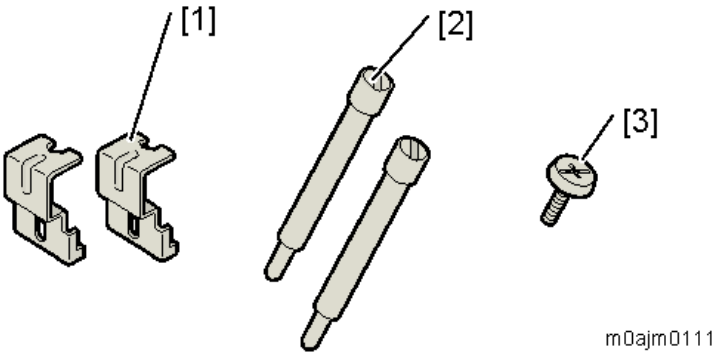
  Increasing a value: The image is moved towards the rear edge of the paper.

  Decreasing a value: The image is moved towards the front edge of the paper.

Paper Feed Unit PB3250 (M495-17, -21)

Accessory Check

No.	Descriptions	Q'ty	Remarks
1	Securing Bracket	2	
2	Long Screws (M4 × 10)	2	
3	Coin Screw (M4 × 10)	1	

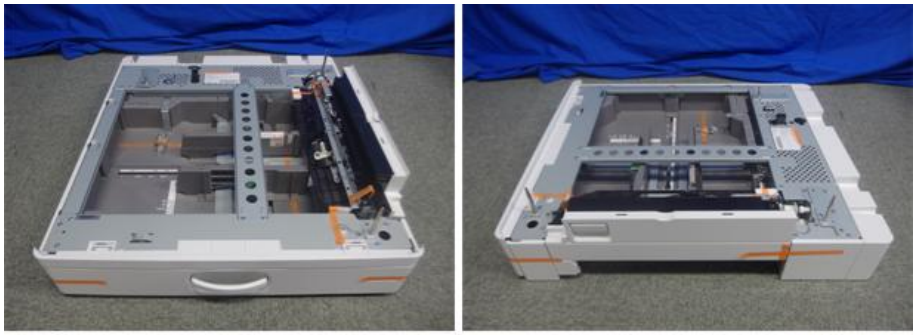


Installation Procedure

⚠CAUTION

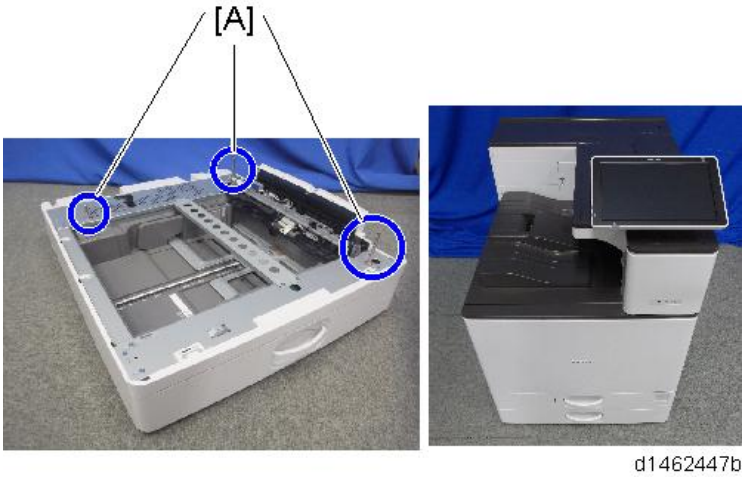
- The main machine weighs approximately 85 kg (187.4 lb.). The printer should always be lifted by at least four people.
- The machine should be held at the correct locations and lifted gently. If it is lifted without care, handled carelessly or dropped, it may result in an injury.
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over. If they are not connected, they may move and fall over, resulting in injury.

1. Remove the orange tape and retainers.



2. Remove the accessories (fixing screws, etc.) from the package.

3. Holding the grips on the machine, align the machine with the locating pins [A], and place the machine on the paper feed unit.



Note

- When you lift the machine, hold the correct locations.

- Do not hold any other parts of the machine when lifting it, because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

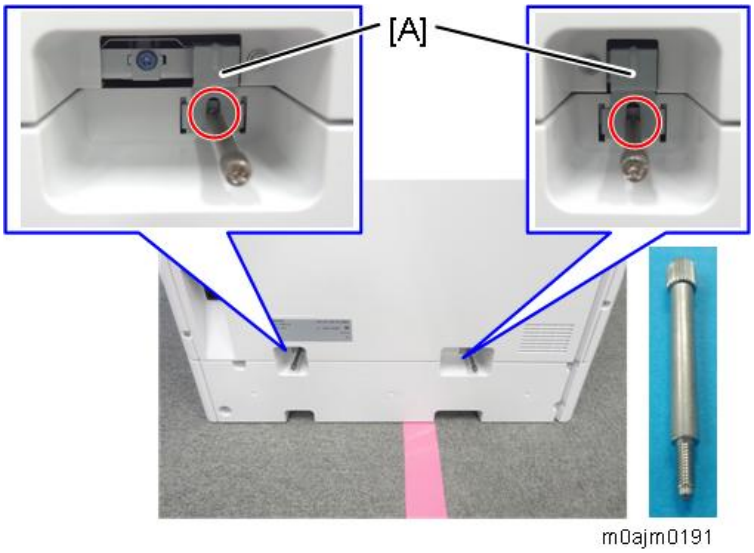
4. Pull out the 2nd paper feed tray of the main machine.

5. Fix the machine to the feed unit (coin screw x1: M4x10)

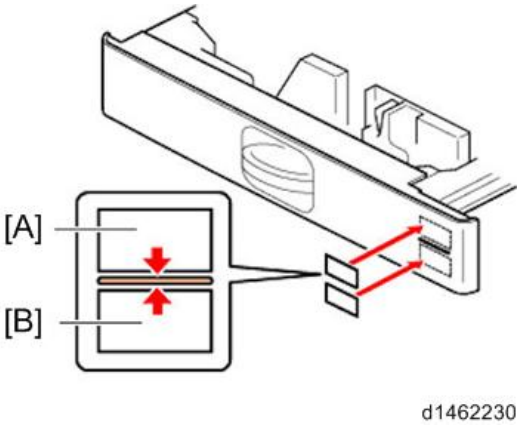
Tighten the screw firmly using a coin.

6. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine (long screw x2: M4x10).

Tighten the screws firmly using a coin.



7. Put the 2nd paper feed tray back in the machine
8. Attach the decals as shown below.



[A]: Tray number decal

[B]: Paper size decal

Note

- The tray number decal and paper size decal are packaged together with the main machine.

9. Connect the power cord to the machine.
10. Turn ON the main power.
11. Load the paper, and check that the size of paper loaded in the paper feed tray is displayed on the operation panel.
12. Adjust the registration for the paper feed unit.
    - SP1-002-004 (Side-to-Side Registration Paper Tray 3)

SP descriptions

- **SP1-002 (Side-to-Side Registration)**

  Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

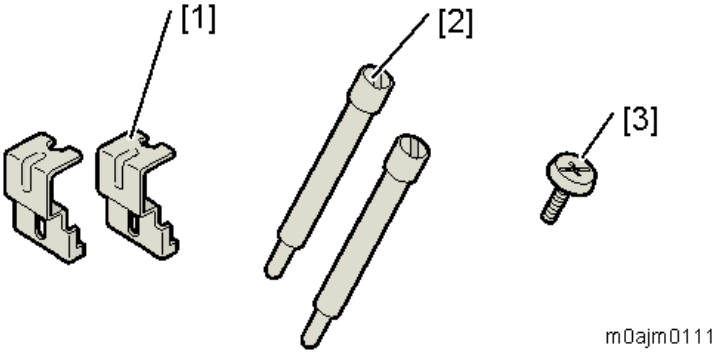
  Increasing a value: The image is moved towards the rear edge of the paper.

  Decreasing a value: The image is moved towards the front edge of the paper.

LCIT PB3260 (M496-17, -27, -21)

Accessory Check

No.	Descriptions	Q'ty	Remarks
1	Securing Bracket	2	
2	Long Screws (M4 × 10)	2	
3	Coin Screw (M4 × 10)	1	

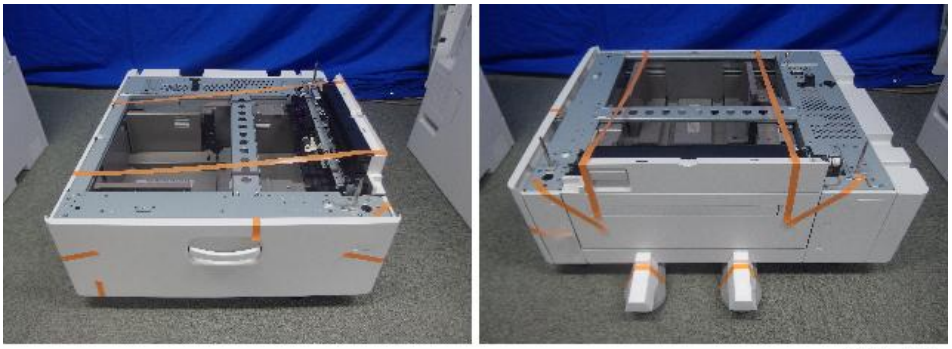


Installation procedure

⚠CAUTION

- The main machine weighs approximately 85 kg (187.4 lb.). The printer should always be lifted by at least four people.
- The machine should be held at the correct locations and lifted gently. If it is lifted without care, handled carelessly or dropped, it may result in an injury.
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over. If they are not connected, they may move and fall over, resulting in injury.

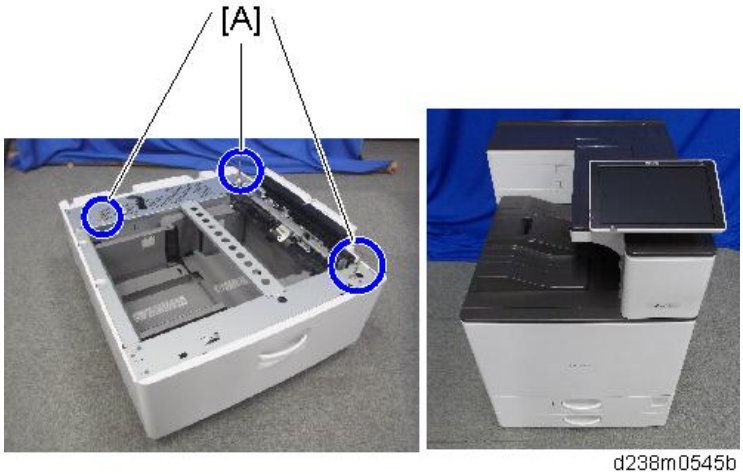
1. Remove the orange tape and retainers.



d238m544

2. Remove the accessories (fixing screws, etc.) from the package.

3. Holding the grips on the machine, align the machine with the locating pins [A], and place the machine on the paper feed unit.



d238m0545b

Note

- When you lift the machine, hold the correct locations.

d238m0935b

- Do not hold any other parts of the machine when lifting it, because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

4. Pull out the 2nd paper feed tray.

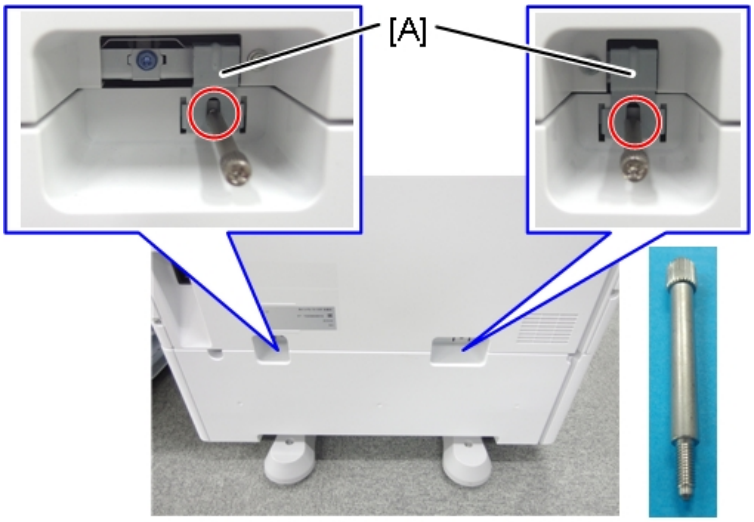
5. Fix the machine to the feed unit (coin screw x1: M4x10).

Tighten the screw firmly using a coin.

m0ajm0187

6. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine (long screw x2: M4x10).

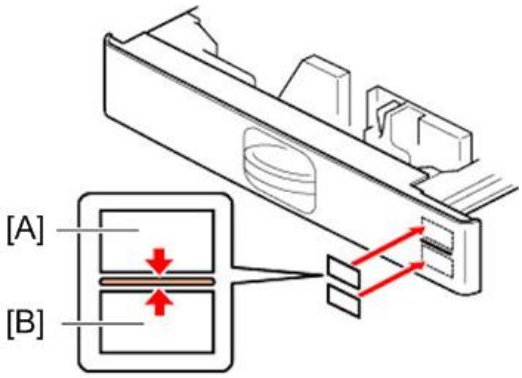
Tighten the screws firmly using a coin.



m0ajm0192

7. Put the 2nd paper feed tray back in the machine

8. Attach the decals as shown below.



d1462230

[A]: Tray number decal

[B]: Paper size decal

Note

- The tray number decal and paper size decal are packaged together with the machine.

9. Lock the casters of the paper feed unit.

d1462439

10. Connect the power cord to the machine.

Note

- The stabilizers are attached to the LCIT when it is shipped. Do not remove any of them.

d1462468

11. Turn ON the main power.

12. Load the paper, and check that the size of paper loaded in the paper feed tray is displayed on the operation panel.

13. Adjust the registration for the paper feed unit.
SP1-002-004 (Side-to-Side Registration Paper Tray 3)

SP descriptions

- SP1-002 (Side-to-Side Registration)
  Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.
  Increasing a value: The image is moved towards the rear edge of the paper.
  Decreasing a value: The image is moved towards the front edge of the paper.

Changing the paper size

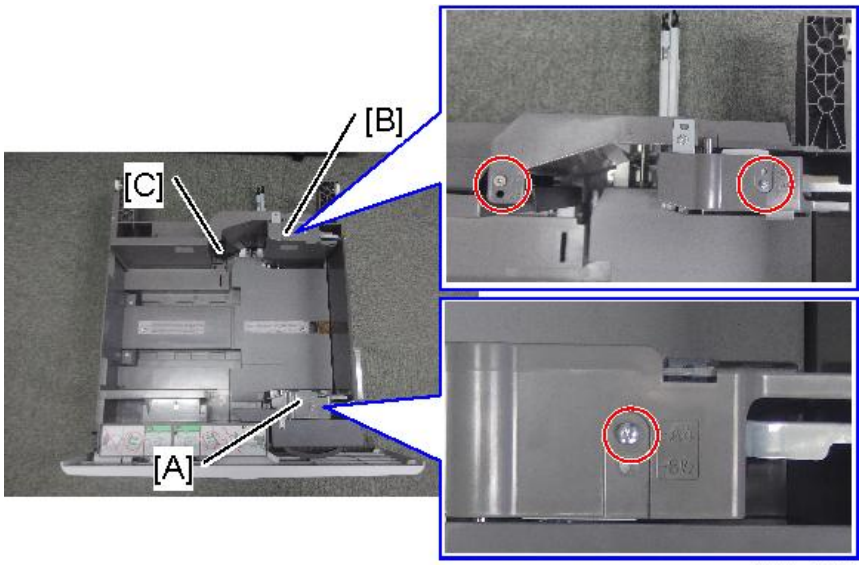
Paper size is set as shown below when the machine is shipped from the factory.

- NA: LT LEF
- EU, AA, CHN: A4 LEF

The paper size can be changed to A4 or LT.

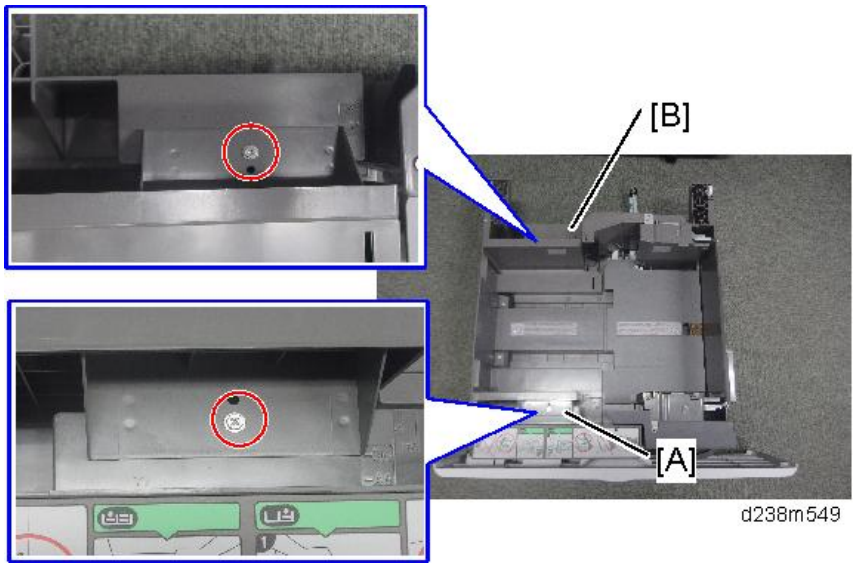
1. Pull out the left tray and right tray.

2. Remove the screws on the right tray side fences (front [A], rear [B]) and right tray end fence [C] (×3).



d238m548

3. Remove the screws on the left tray side fences (front [A], rear [B]).

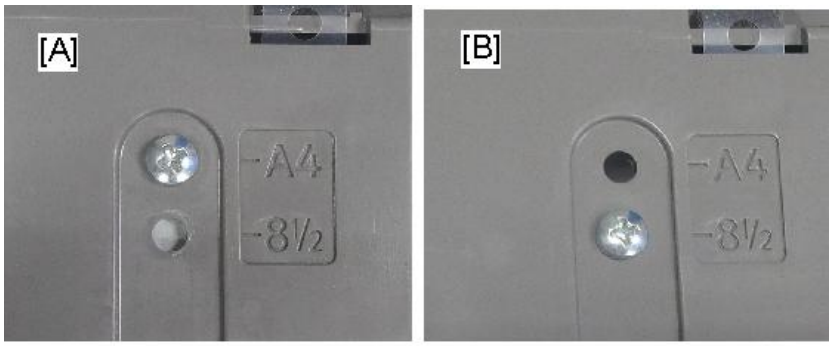


d238m549

4. Slide the fences to the required position (A4 or LT), and then tighten the screws.

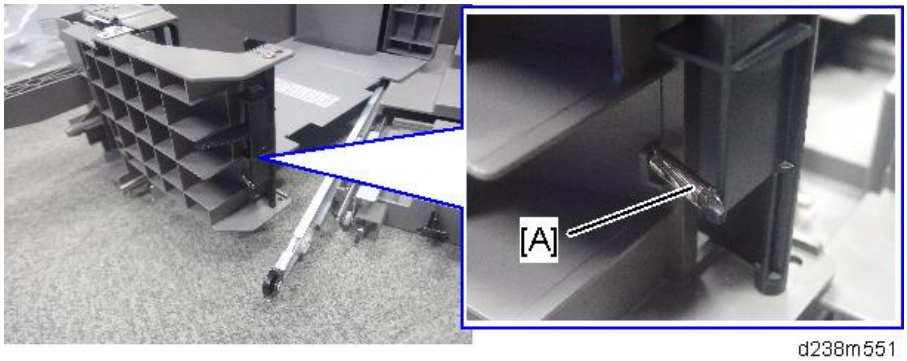
[A]: A4 position

[B]: LT position



d238m550

5. Make sure that the spring [A] is attached.



6. Adjust the following SP to set the paper size of the tandem paper tray.

SP5-181-007 (Size Adjust: TRAY 3/T-LCT: 1)

0: A4 LEF

1: LT LEF

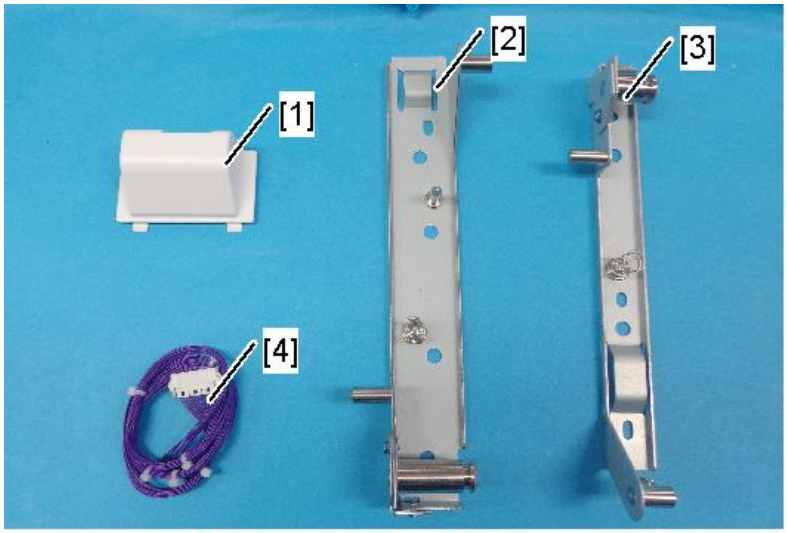
LCIT RT3030 (D696-17, -27, -21)

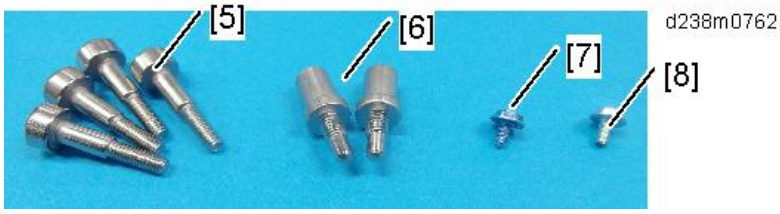
Important

- To install this optional unit, Paper Feed Unit PB3240 (M494) or LCIT PB3260 (M496) is required.

Accessory Check

No.	Description	Q'ty	Remarks
1	Connector Cover	1	
2	Front Bracket	1	
3	Rear Bracket	1	
4	Harness	1	
5	Stud screw	4	
6	Joint Pins	2	
7	Tapping Screw – M3 × 6	1	
8	Screw – M3 × 6	1	





Installation procedure

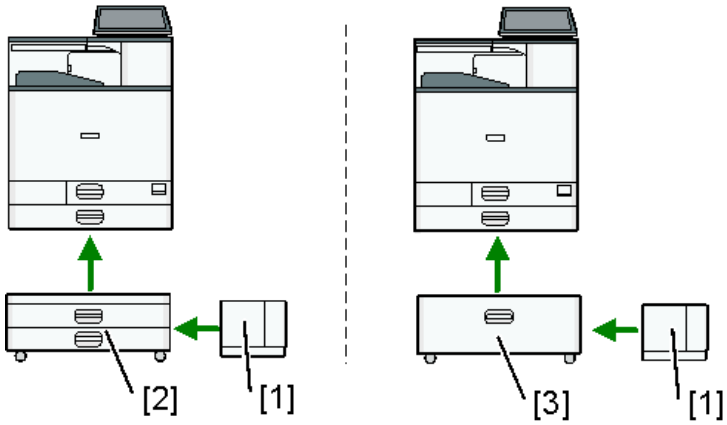
CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

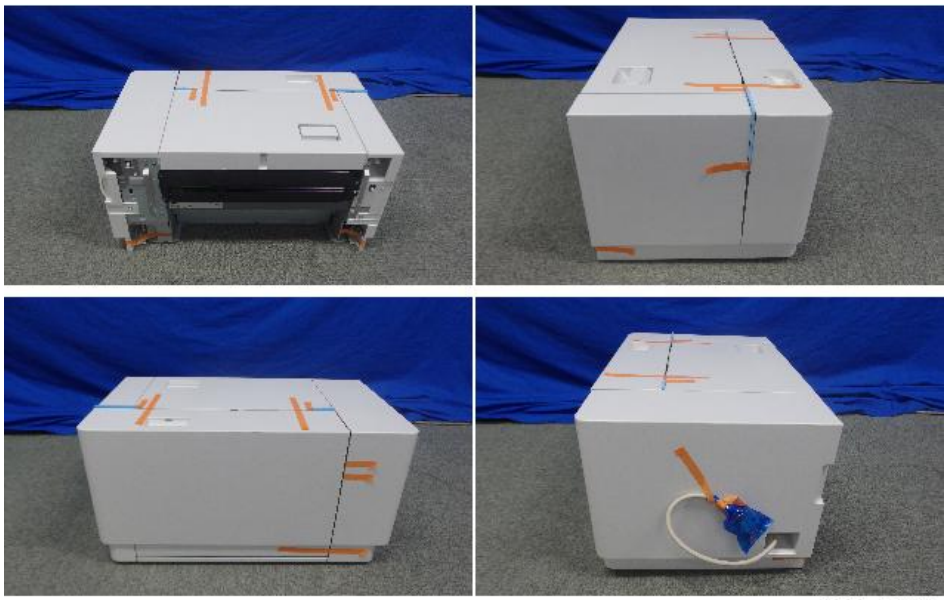
- LCIT RT3030 [A] can be connected to Paper Feed Unit PB3240 [2] or LCIT PB3260 [3] only in one of

the following two combinations.

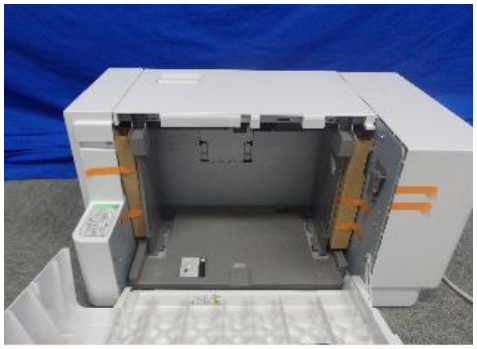


m0ajm0108f

1. Remove the orange tape and retainers.



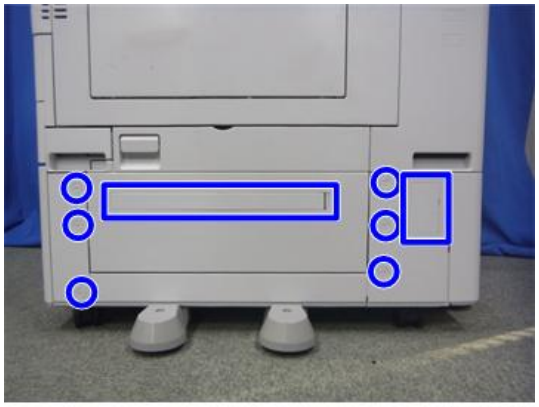
d238m0763



d238m0764

2. Remove the accessories (stud screws, etc.) from the package.

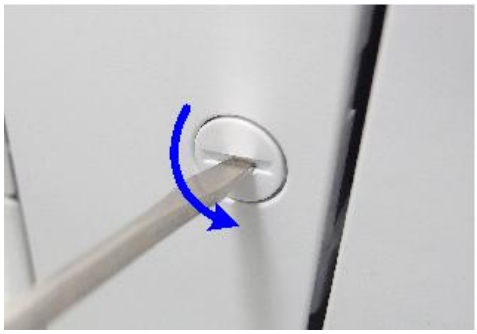
3. Remove the eight covers on the right of the paper feed table of the machine.



d1462457

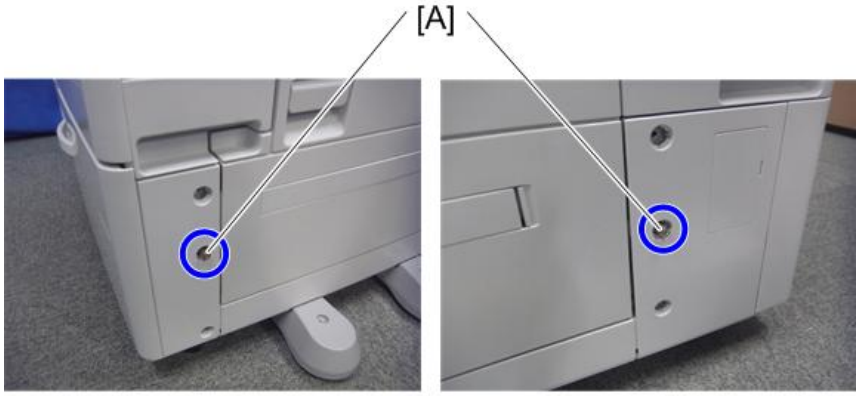
Note

Insert the flat-headed screwdriver into the cover and push and turn the driver counterclockwise to remove the it.



m0ajm0221

4. Attach the joint pins [A] to the front and rear on the right of the paper feed table.

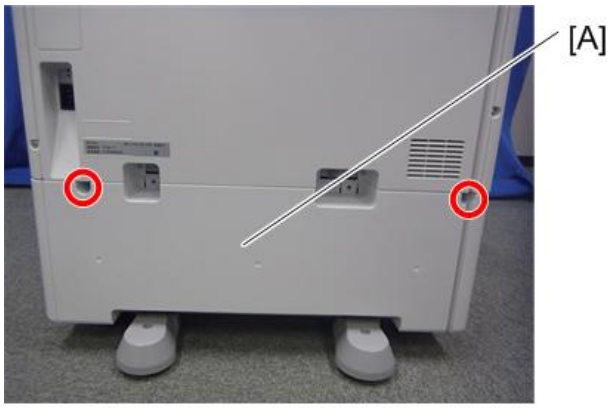


d1462458

5. Attach the front bracket [A] and rear bracket [B] at the positions of the joint pins (×4).

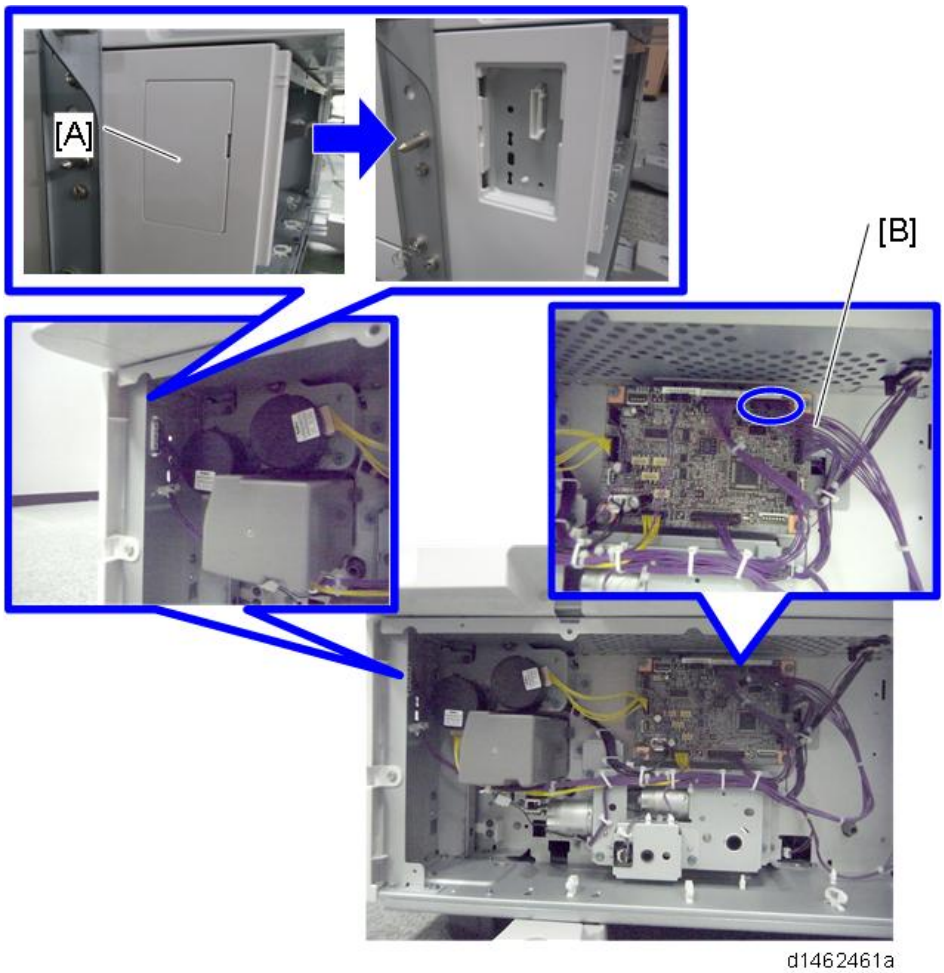
d1462459a

6. Remove the paper feed table rear cover [A] (×2).

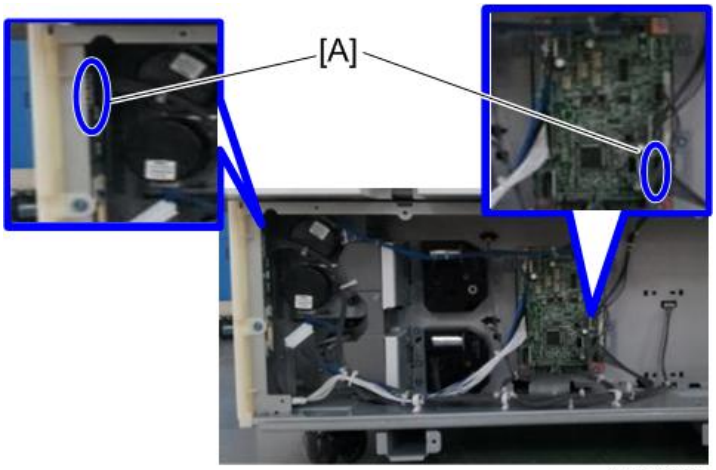


7. Remove the connection cover, and connect the harness [B].

For a machine with LCIT PB3260



For a machine with Paper Feed Unit PB3240



d146z0083

8. Clamp the harness.

For a machine with LCIT PB3260

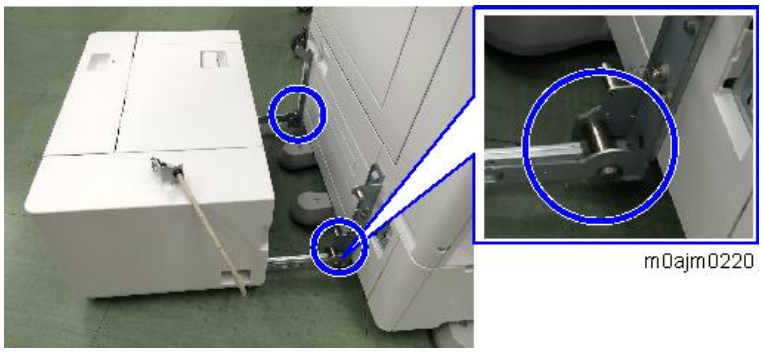
d146z0017b

For a machine with Paper Feed Unit PB3240

d146z0084

9. Attach the paper feed table rear cover.

10. Attach the hooks of the side LCIT to the brackets.



11. Connect the cable [A] of the side LCIT to the machine (×1).

12. Attach the connector cover [A] (×1).

13. Push the side LCIT towards the machine.

d1462465

14. Turn on the main power.

15. Set the paper, and check that the paper size set in the paper feed tray is displayed on the control unit.

16. Do the registration adjustment for the large capacity tray.

SP1-002-007 (Side-to-Side Registration Large Capacity Tray)

SP descriptions

- **SP1-002 (Side-to-Side Registration)**

Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

Increasing a value: The image is moved towards the rear edge of the paper.

Decreasing a value: The image is moved towards the front edge of the paper.

Changing the Paper Size

Paper size is set as shown below when the machine is shipped from the factory.

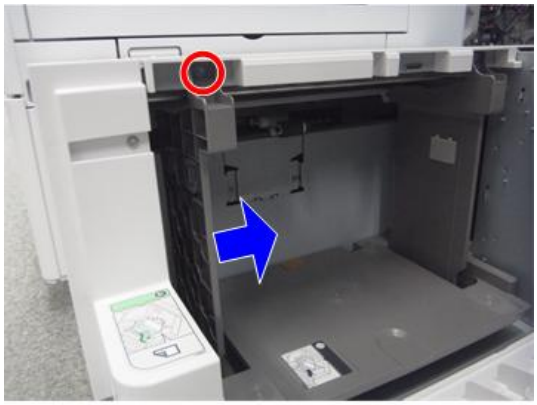
NA: LT LEF

EU, AA, CHN: A4 LEF

The paper size can be changed to A4, LT, or B5.

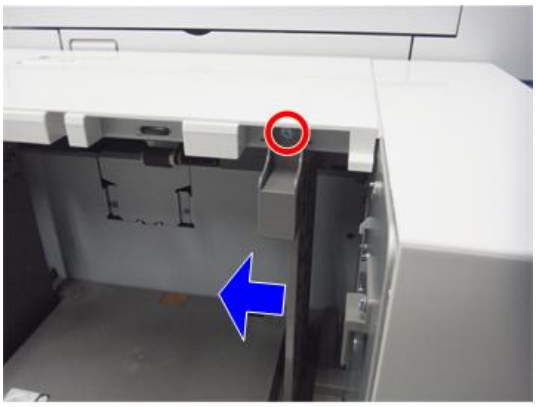
1. Open the tray cover.

2. Remove the upper screw at the front side fence, and after setting the side fence to the position of the paper (outer: A4 LEF, center: LT LEF, inner: B5 LEF), tighten the screw that was removed.



d1462466

3. Also change the rear side fence to the same size position.



d1462467

4. Change the paper size according to the new side fence position.

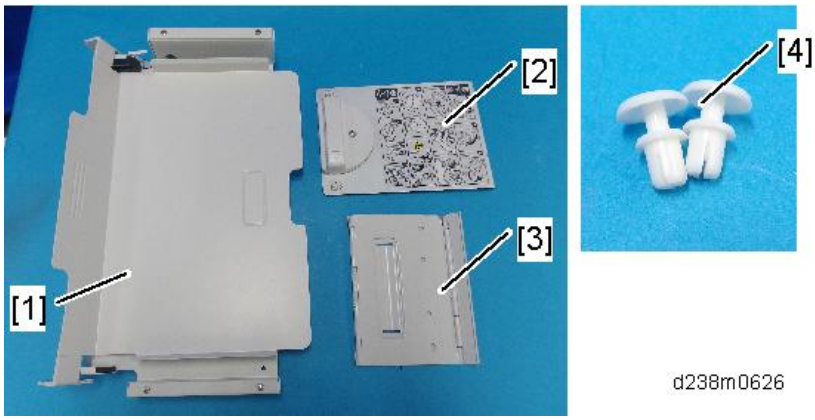
SP5-181-017 (Size Adjust: LCT)

- 0: A4 LEF
- 1: LT LEF
- 2: B5 LEF

Banner Paper Guide Tray Type M19 (D3BF-00)

Component Check

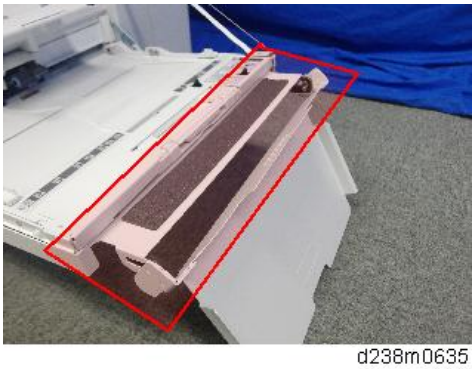
No.	Description	Q'ty	Remarks
1	Main Tray	1	
2	Lock Plate	1	
3	Sub Tray	1	
4	Rivet	2	



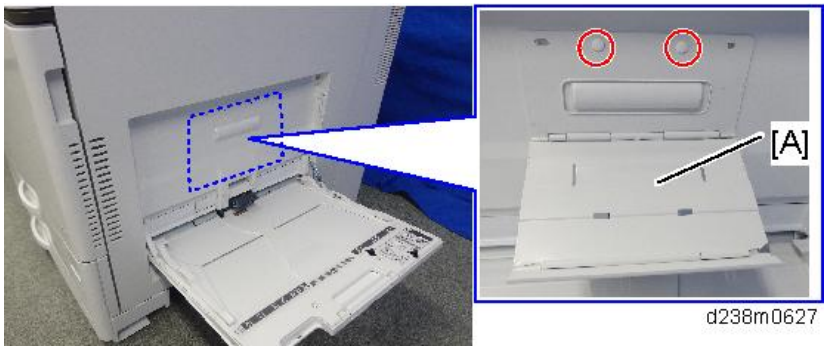
Installation Procedure

⚠CAUTION

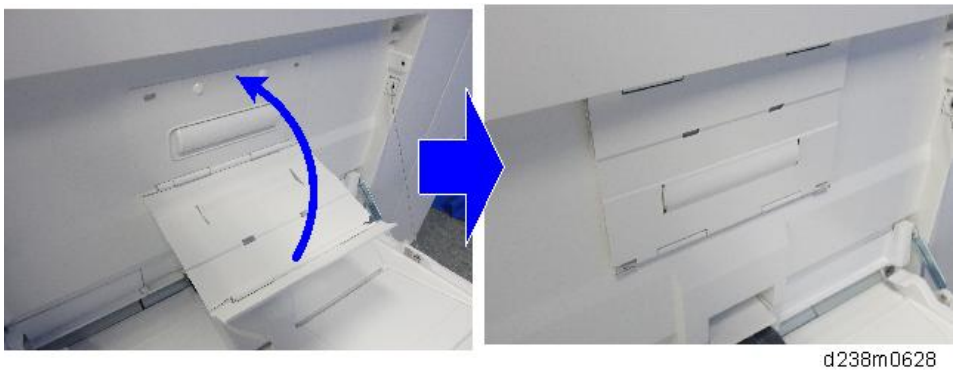
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Be careful not to get your finger caught in the area indicated by the red frame (this is where the tray rotates up and slides in).



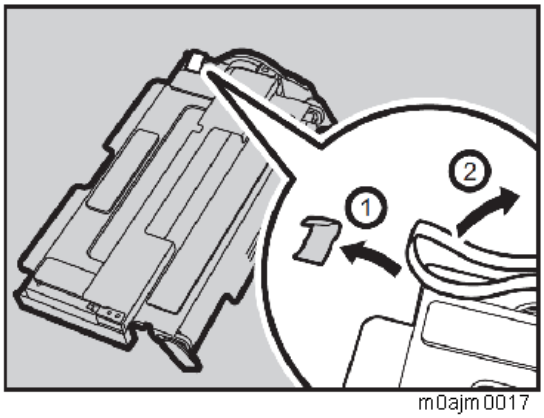
1. Open the by-pass tray, and then attach the sub tray [A]. (Rivet x2)



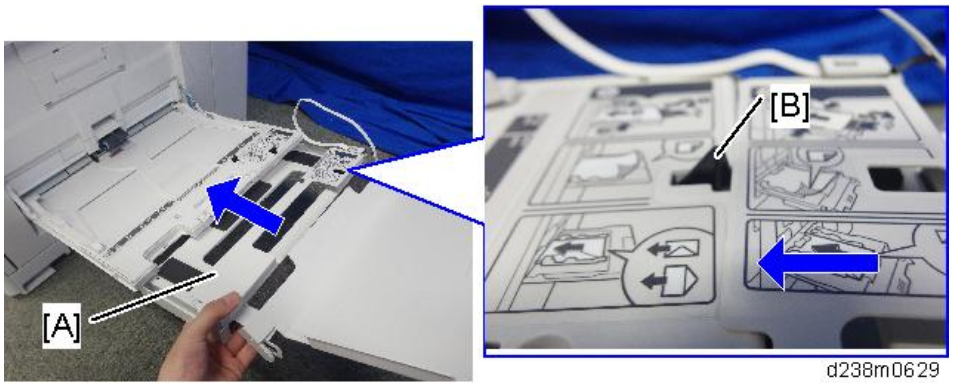
2. Fold the sub-tray.



3. Remove the packing tape attached on the main tray (1), and pull out the belt (2).

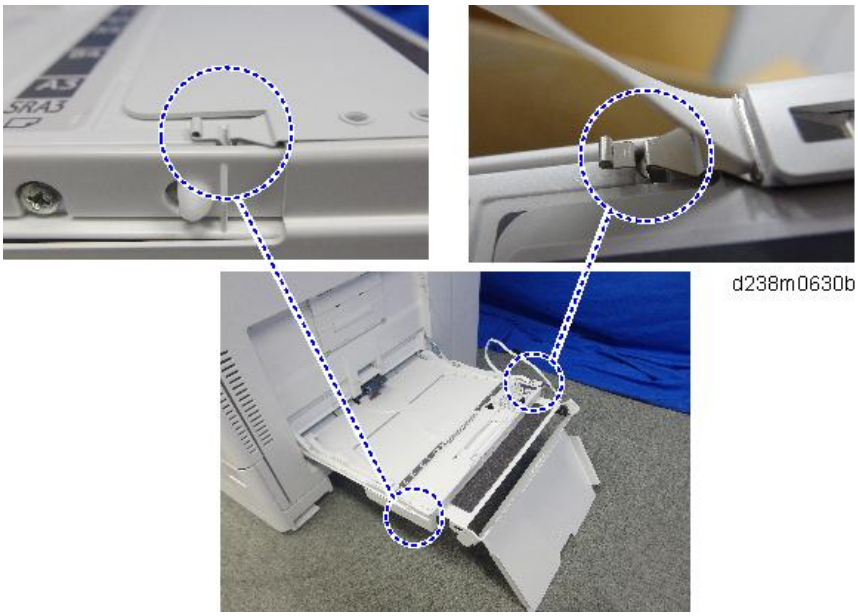


4. While pressing down the feeler [B] on the bypass tray, push the main tray [A] into the bypass tray to attach it. When you attach the tray, hold it with both hands to make sure that it does not fall.



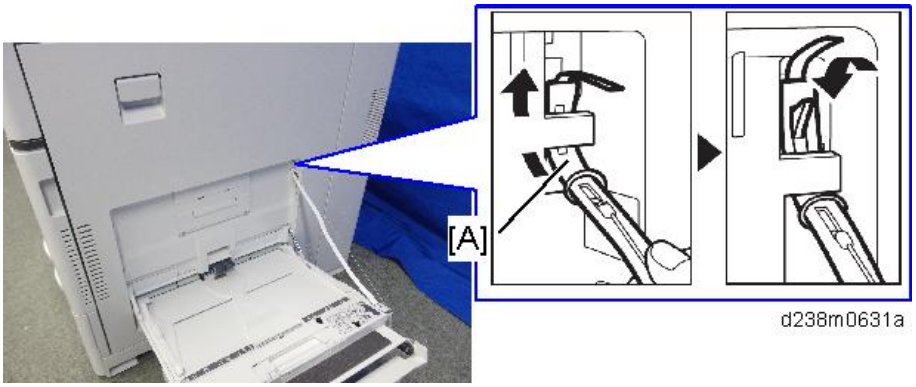
Note

- Check if the locks on the main tray's sides are engaged.



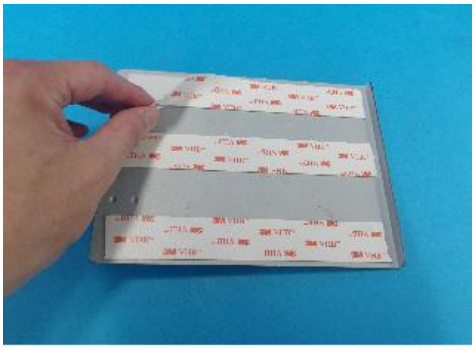
d238m0630b

5. Attach the belt by engaging it with the hooks [A].



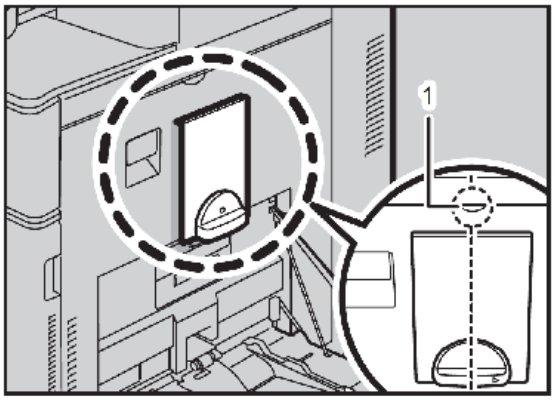
d238m0631a

6. Remove the backing paper for the double-sided tapes on the lock plate.



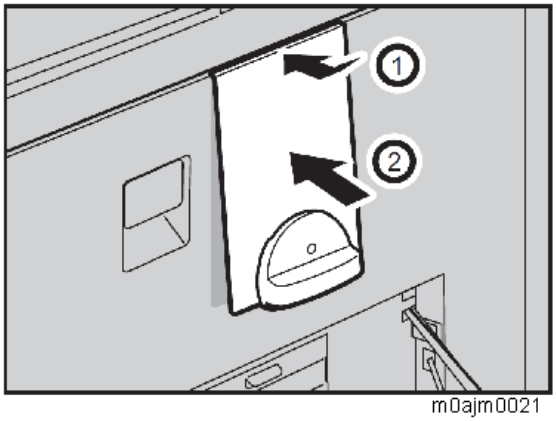
d238m0632

7. Adjust the position of the lock plate so that its center is aligned with the tab [1] on the machine's right cover.



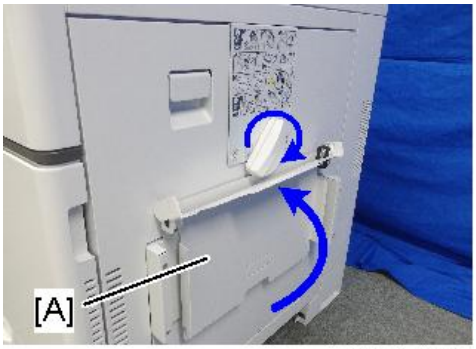
m0ajm0020

8. Hang the lock plate's top part on the right cover (①) and affix the lock plate (②).



m0ajm0021

9. Tuck in the banner paper guide tray [A] and turn the lock plate's knob to lock it.



d238m0634b

Note

- The double-sided adhesive tapes stick firmly in about one day.

Important

- When replacing the parts of the Banner Paper Guide Tray, use the installation procedure above in reverse order as a reference in order to make it easier to disassemble the unit.

Confirming the Banner Counter SP settings

Explain this counter specification change to the customer when installing the Banner Paper Guide Tray or changing these settings. The banner counter counts up 1 every threshold length when the paper length is more than 488mm.

Banner counter is controlled by the following SP and SSPs

SP No.	SP Name	Function	Min to Max/Int./Step
5-104-001	A3/DLT Double Count	Selects whether or not to count A3/DLT as A4 x 2 (double count).	0 or 1/1/1 0: OFF 1: ON
5-104-101 (SSP)	Banner Count Setting	Selects whether or not to activate the count setting when an output paper size is longer than 488mm.	0 or 1/1/1 0: OFF 1: ON
5-104-102 (SSP)	Banner Count Threshold	Specifies the threshold length for counting up when SP5-104-101 is set to "1". The default setting is 200mm.	0 to 65535/200/1

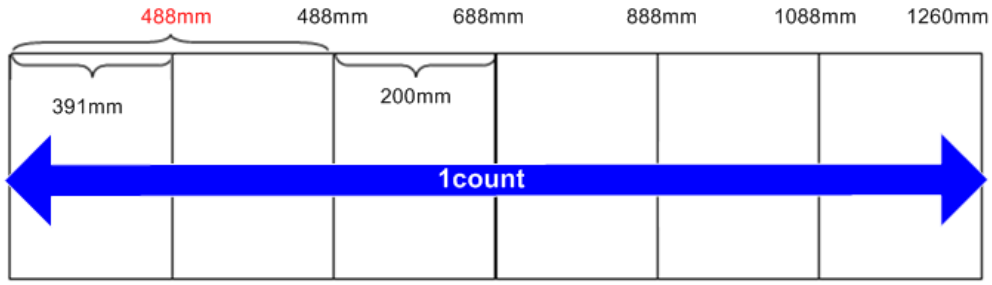
The count-up condition can be changed with the use of these Super SPs and the A3/DLT Couble Count SP as follows. Please set these Super SPs and SP to the values which are designated by sales staff.

Important

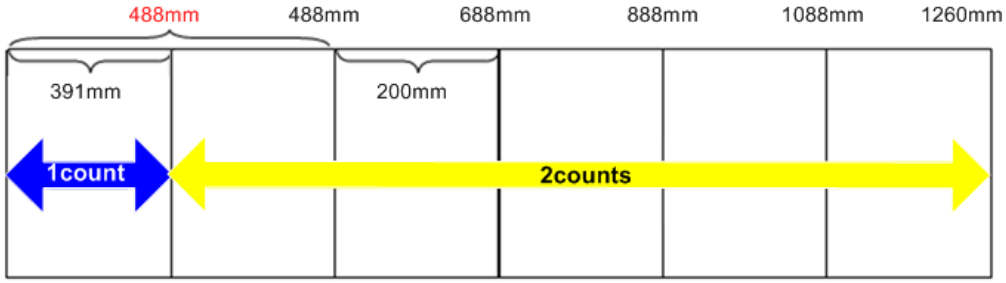
Important: When SP5-104-001 is "1(ON)", counts up 2 for paper length between 391 mm and 488mm.

	Case 1: Counts up 1 for all paper lengths.	Case 2: Counts up 2 for all paper lengths bigger than 391mm.	Case 3: Counts up 2 for all paper lengths bigger than 488mm.	Case 4: Counts up 2 for paper length between 391 and 488mm. Counts up 1 more for every 200mm over 488mm.	Case 5: Counts up 2 for paper length between 391 and 488mm. Counts up 1 more for every 350mm over 488mm.
SP5-104-001	0 (OFF)	1 (ON)	0 (OFF)	1(ON) Default	1(ON)
SP5-104-101 (SSP)	0 (OFF)	0 (OFF)	1 (ON)	1(ON) Default	1(ON)
SP5-104-102 (SSP)	Not used (Any value is OK.)	Not used (Any value is OK.)	0	200 Default	350

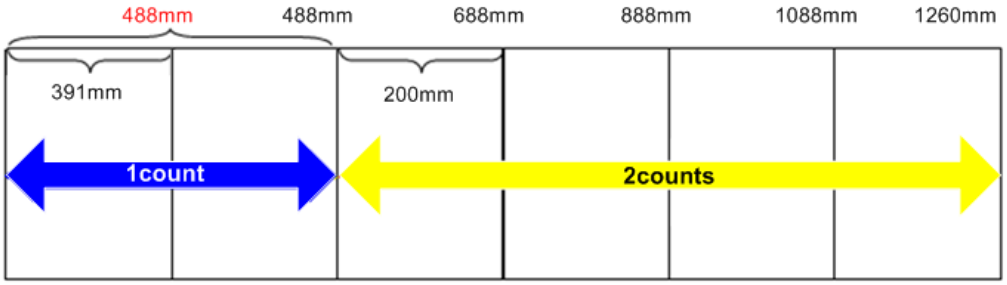
Case1: Customized setting



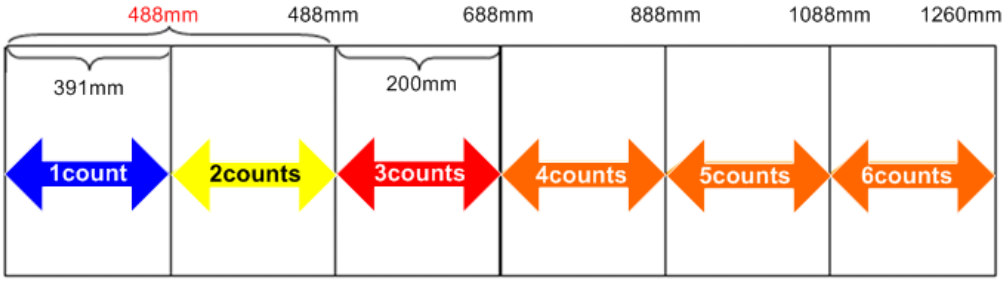
Case2: Customized setting



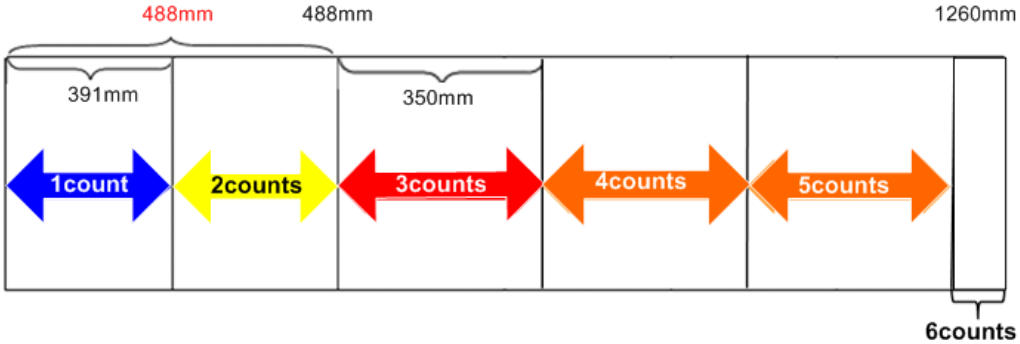
Case3: Customized setting



Case4: Default



Case5: Customized setting

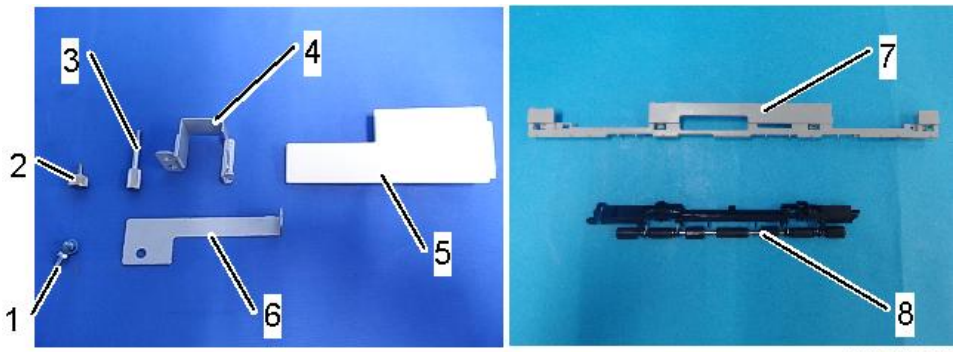


w_m0ajm0340_en

Bridge Unit BU3070 (D685-18, -22)

Accessory Check

No.	Description	Q'ty
1	Tapping screw- M3 × 8	1
2	Screw - M4	1
3	Knob Screw - M4	1
4	Right Front Bracket	1
5	Upper Left Cover	1
6	L type connecting bracket	1
7	Paper Support Guide	1
8	Driven Roller (Flat)	1



d238m0570

Installation procedure

⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

- The bridge unit cannot be used together with the internal multi-fold unit.

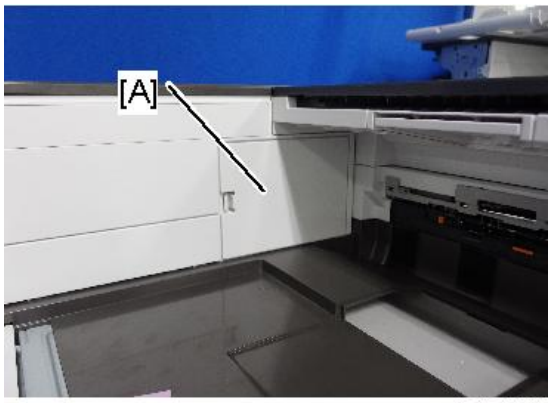
1. Remove the orange tapes, shipping retainers, and the accessories (fixing screws, etc.) provided with this unit.

d238m0569

2. Remove the paper exit tray [A].

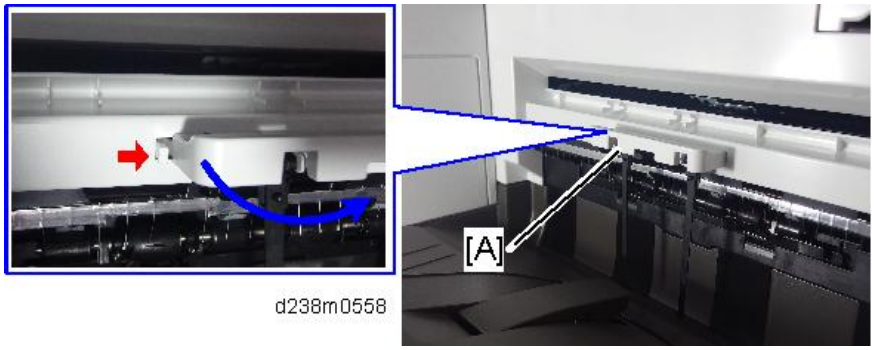
d1462023

3. Remove the connector cover [A].



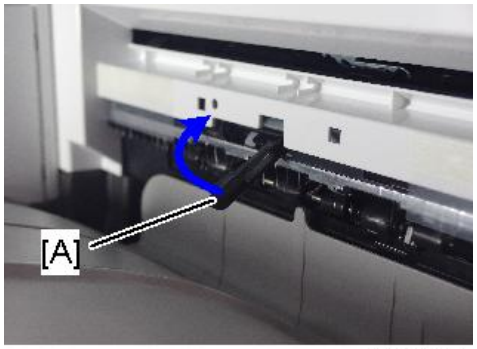
m0ajm0063

4. Remove the paper exit feeler [A].



d238m0558

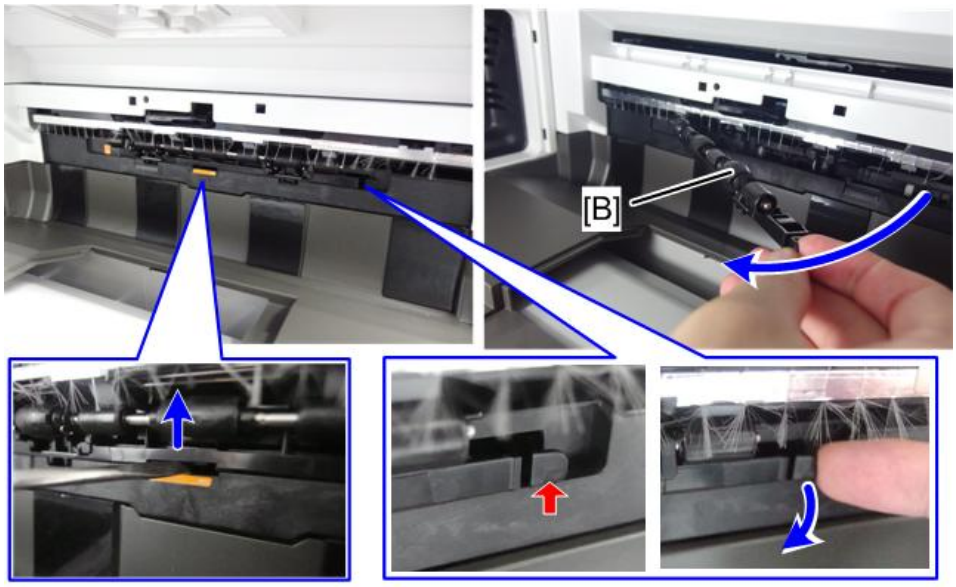
5. Tuck in the lever [A] for detecting when the tray is full.



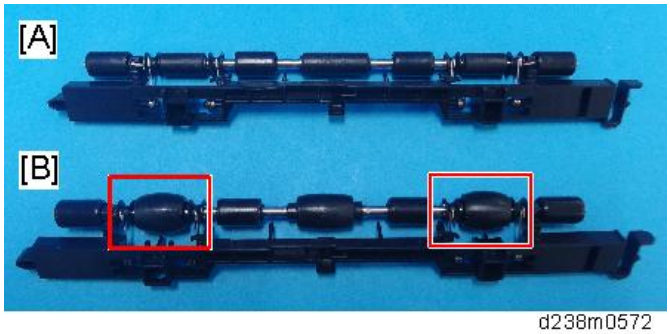
d238m0577

6. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- Insert a flat-headed screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.
- When attaching the driven roller, push its center all the way in until it clicks.



d238m0571c

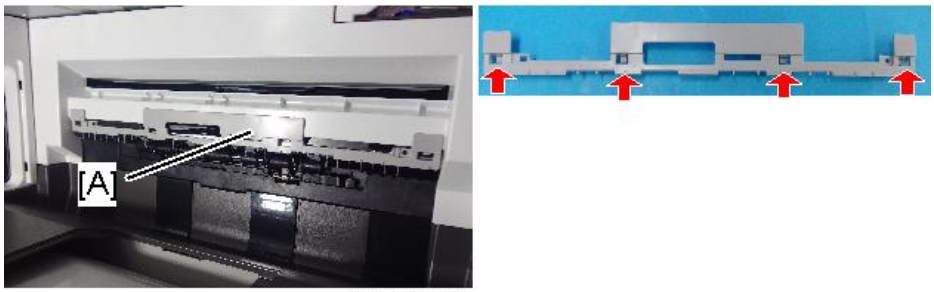


d238m0572

[A]: The supplied driven roller has flat rollers.

[B]: The machine's standard driven roller has drum-type rollers (as indicated by red frames).

7. Attach the paper support guide [A] (hook x 4).



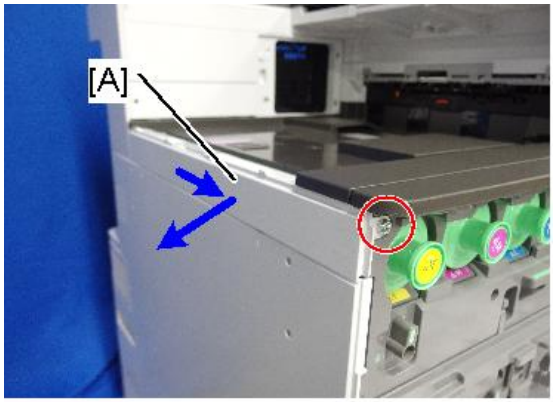
d238m0573b

8. Open the front cover.

9. Remove the upper left cover [A].

Note

- The screw removed is used again in step 14.

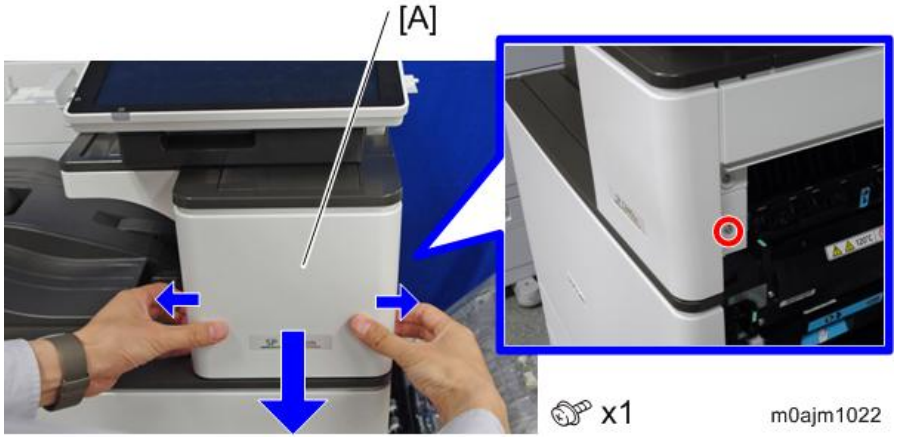


x1 m0ajm0064

10. Remove the small cover [A].

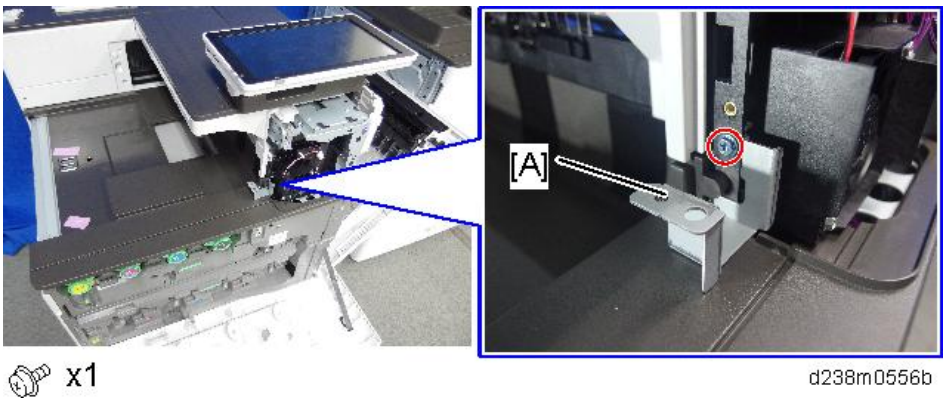
x1 m0ajm1021

11. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.

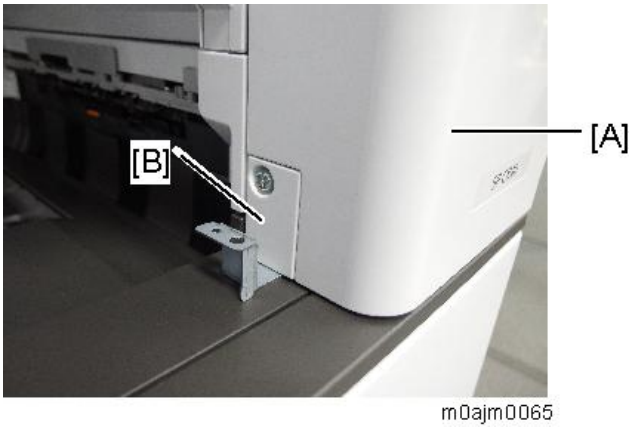


x1 m0ajm1022

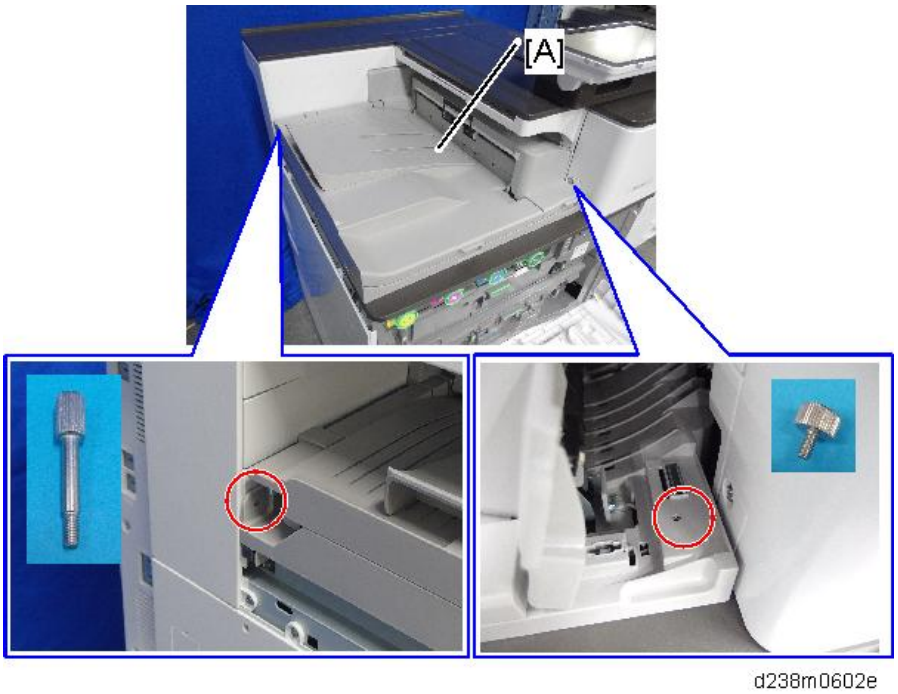
12. Attach the right front bracket [A].



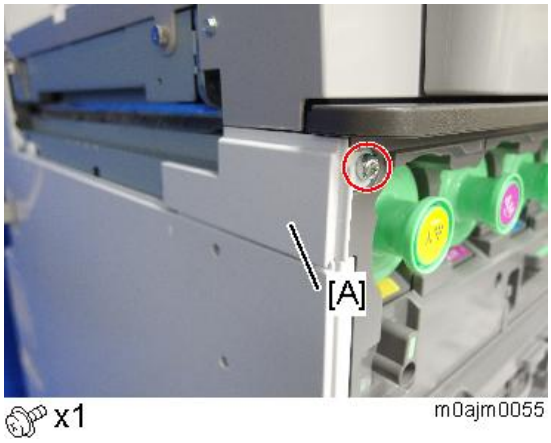
13. Reattach the front upper cover [A], and small cover [B], and close the right door.



14. Attach the bridge unit [A] to the machine.

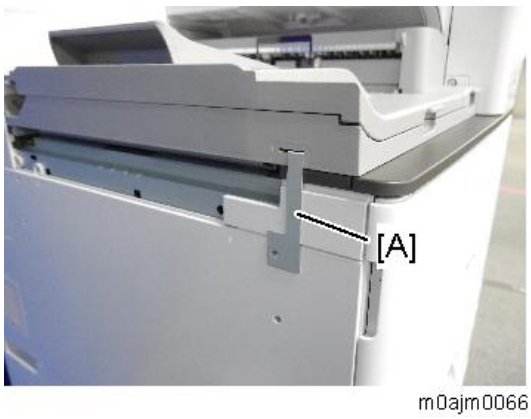


15. Attach the upper left cover [A] provided with the accessories (×1).



16. Attach the L type connecting bracket [A].

To fix the bridge unit securely on the machine, tighten the finisher's joint bracket and L type connecting bracket [A] together when installing the finisher.



17. Complete the bridge unit attachment. Refer to the procedure for connecting the optional unit downstream of the bridge unit.

- Booklet Finisher SR3240 (D3BB) (Finisher SR3230 (D3BA-17, -21))
- Booklet Finisher SR3220 (D3B9) (Booklet Finisher SR3220 (D3B9-17, -21))
- Finisher SR3210 (D3B8) (Finisher SR3210 (D3B8-17, -21))

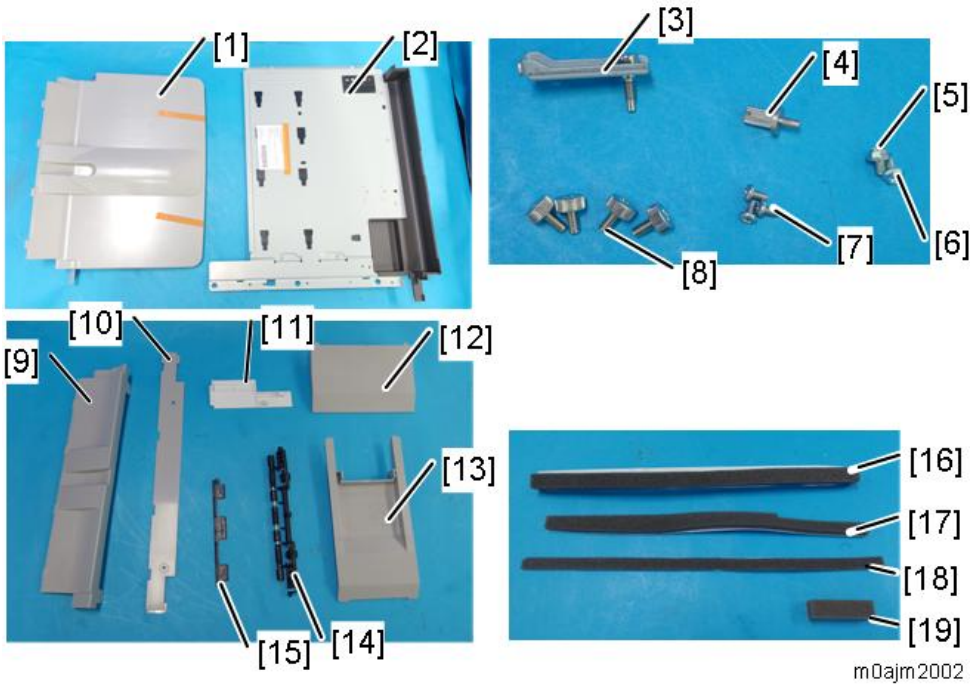
18. After the finisher is installed, turn ON the main power.

19. Check that the finisher can be selected at the operation panel.

Internal Multi-fold Unit FD3000 (M482-17, -21)

Accessory Check

No.	Description	Q'ty	Remarks
1	Paper Exit Tray	1	
2	Base Plate	1	
3	Correction Plate for Side-to-side Registration	1	
4	Coin Screw M4	1	
5	Screw M4x6	1	
6	Screw M3x6	1	
7	Bind Screw M3x6	3	
8	Coin Screw M4x8	4	
9	Paper Exit Guide (Relay)	1	Use this when connecting a finisher downstream from the internal multi-fold unit.
10	Paper Relay Cover	1	
11	Left Upper Cover	1	Use this when connecting a finisher downstream from the internal multi-fold unit.
12	Support Tray : Shift	1	Use this for the Finisher SR3230 shift tray.
13	Support Tray : Proof	1	Use this for the Finisher SR3230 proof tray.
14	Driven Roller (Flat)	1	
15	Paper Support Guide (Small)	1	
16	Cushion (Top/Front)	1	
17	Cushion (Rear)	1	
18	Cushion (Paper Entrance)	1	
19	Cushion (Short)	1	
-	Sheet (applying pressure to the folding roller)	1	
-	Sheet (attaching the paper support guide)	1	
-	Sheet (keeping the accessories)	1	
-	Sheet (aboutinterferencewith the finisher's I/F cables)	1	



When installing the internal multi-fold unit alone

Use the paper exit tray [1] and paper relay cover [10].

When connecting a finisher downstream from the internal multi-fold unit

Use the paper exit guide (relay) [9] and left upper cover [11].

Note

The customer should keep the unused accessories included with the product. When connecting a finisher that was purchased separately or when disconnecting the finisher that is connected downstream from the internal multi-fold unit, if the customer did not keep the necessary accessories, order them as service parts.

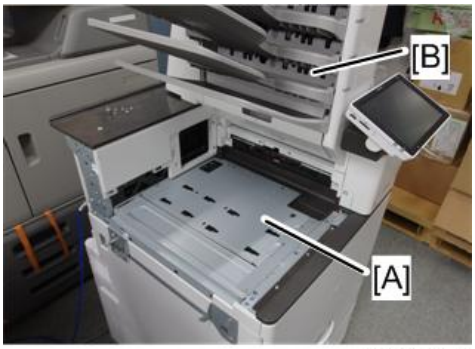
Installation Procedure

CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Important

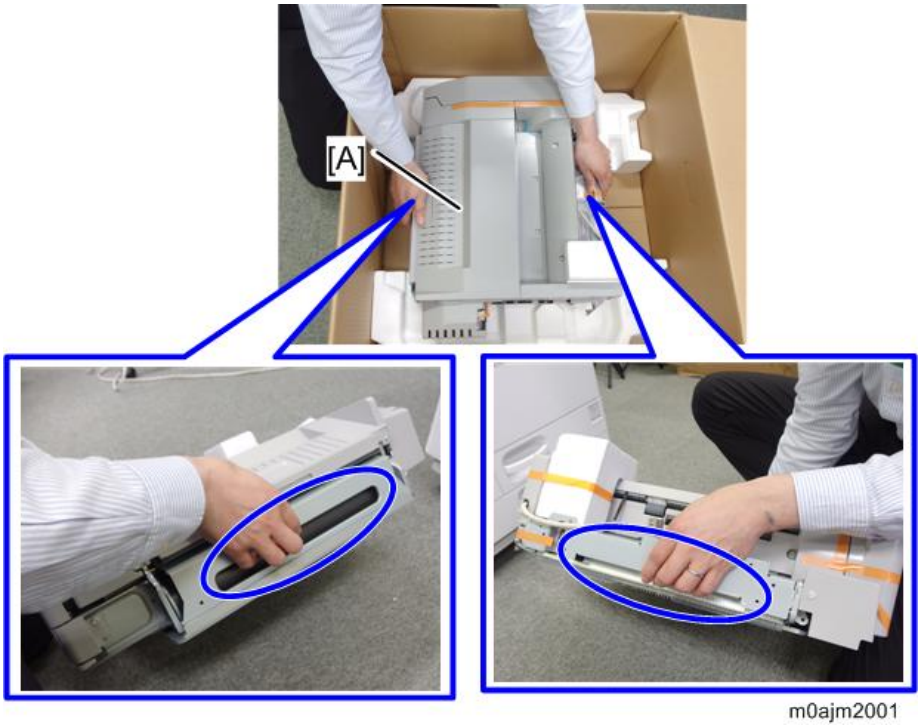
- When installing the Internal Multi-fold Unit FD3000 and the Mail Box CS3010 at the same time, first install the base plate [A] of the internal multi-fold unit. Then install the mailbox [B]. Then install the internal multi-fold unit.



m0ajm0120

1. Unpack the internal multi-fold unit [A].

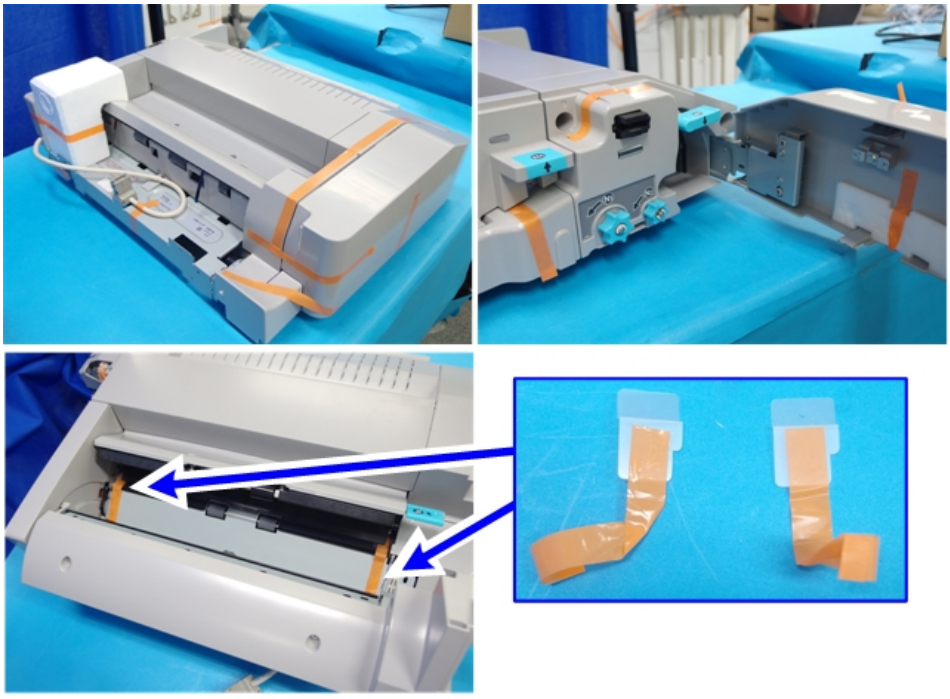
Hold the parts circled in blue. Do not hold other parts. Doing so may damage the exterior cover or deform the frame.



m0ajm2001

2. Remove the orange tapes and shipping retainers, and take out the accessories (fixing screws, etc.) provided with this unit.

There are two mylar sheets inside this unit. Do not forget to remove them.



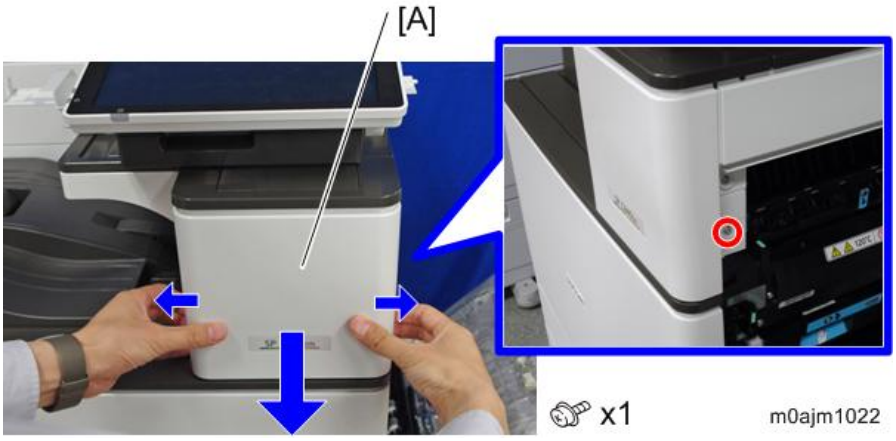
m0ajm0086

3. Remove the small cover [A].

x1 m0ajm1021

4. Open the right door.

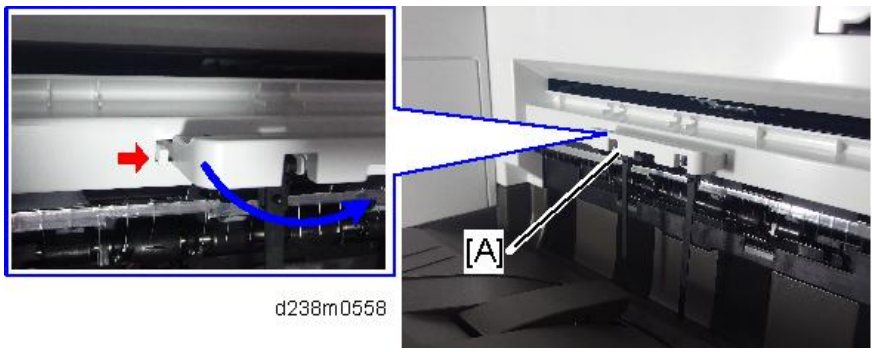
5. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.



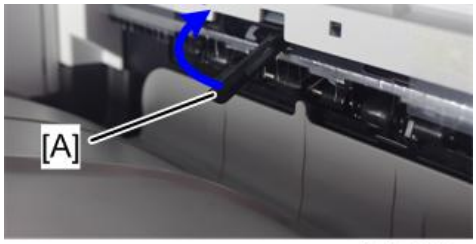
x1 m0ajm1022

6. Remove the paper exit feeler [A].

The removed paper exit feeler can be discarded.

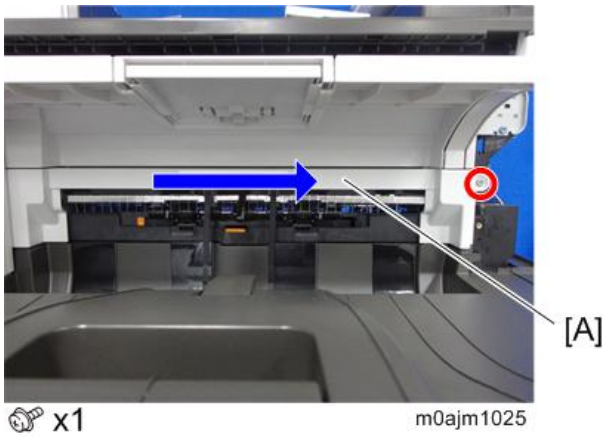


7. Tuck in the lever [A] for detecting when the tray is full.



m0ajm2002a

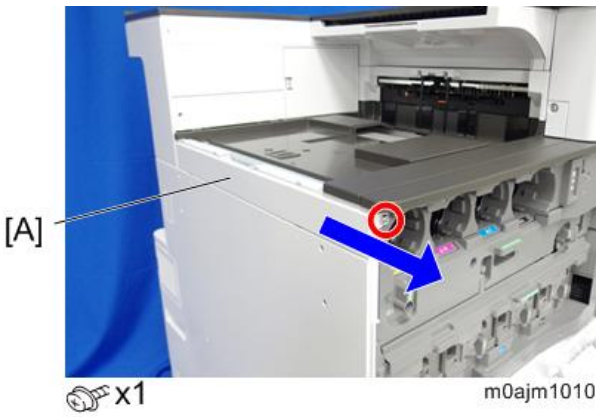
8. Remove the paper exit cover [A] by sliding it to the right.



9. Remove the paper exit tray [A].

m0ajm1024

10. Open the front cover, and remove the upper left cover [A] by sliding it in the direction of the arrow.



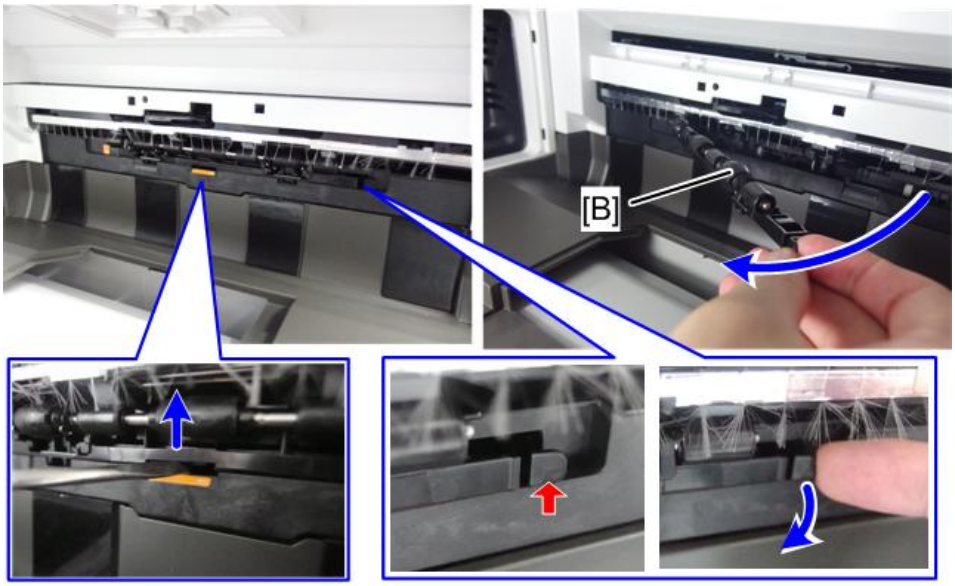
11. Remove the left rear cover [A].

12. Remove the connector cover [A].

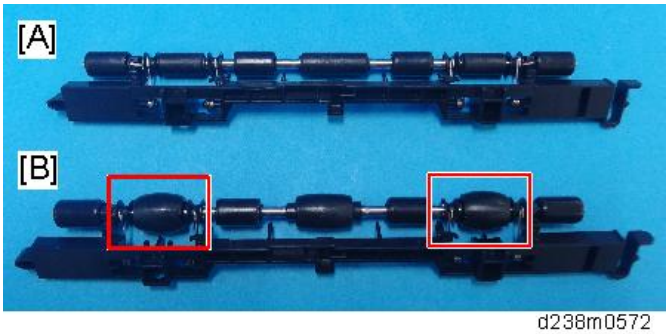
13. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- Insert a flat-headed screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.

- When attaching the driven roller, push its center all the way until it clicks.



d238m0571c



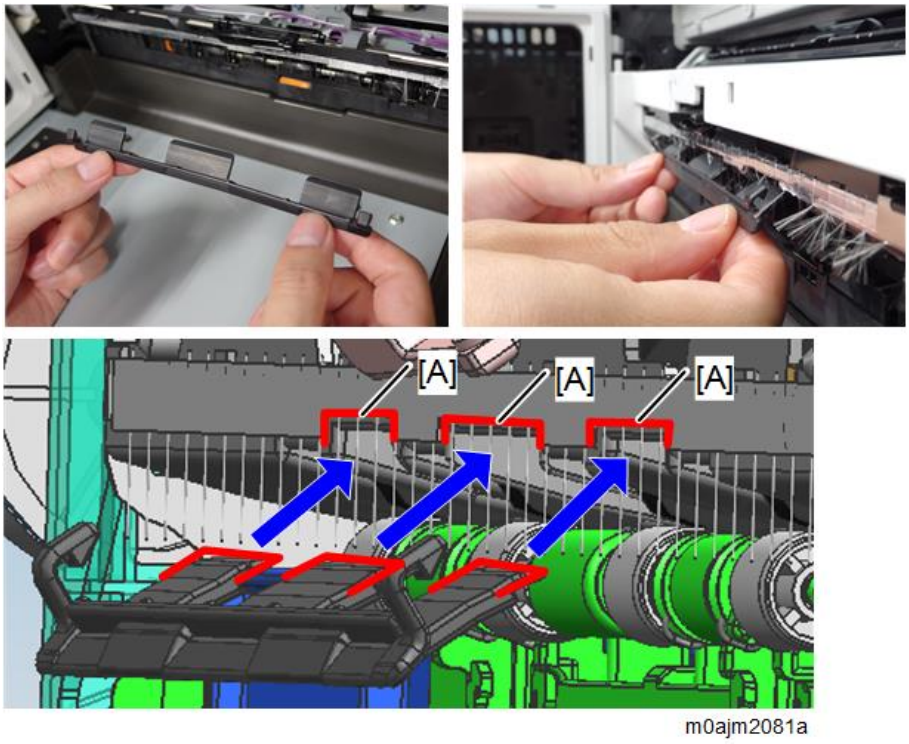
d238m0572

[A]: The supplied driven roller has flat rollers.

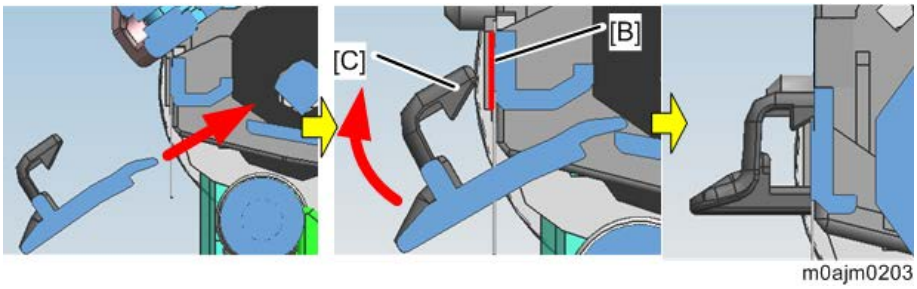
[B]: The machine's standard driven roller has drum-type rollers (as indicated by red frames).

14. Attach the paper support guide (small) to the exit tray (hook x2).

1. Align and insert the support guide's tabs under the notches of the discharge brush frame [A] upward at an angle.

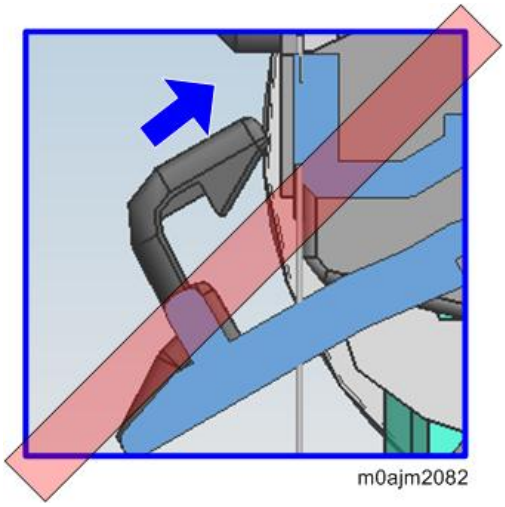


2. Rotate the support guide upward so that the support guide's hooks [C] become horizontal to the discharge brush frame [B].



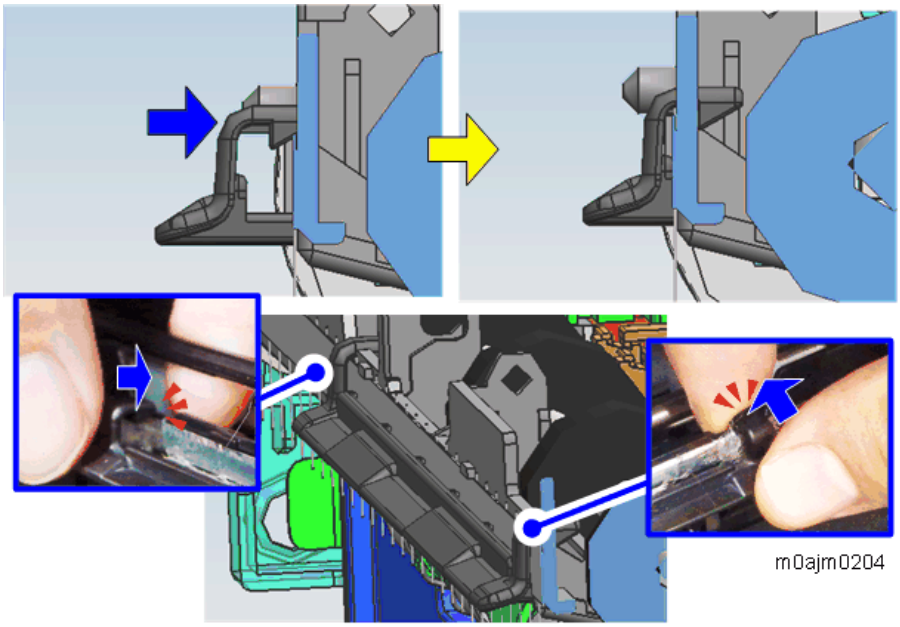
Important

Do not continue to hold the support guide at an angle when pushing it in. Otherwise you might cause faulty attachment or damage to the hooks.



3. Holding the back of the discharge brush frame with the forefingers, push the hooks in horizontally one

at a time until they click.

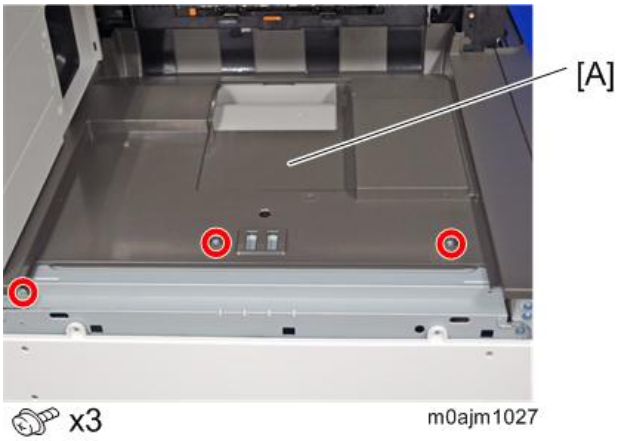


Note

Even if the discharge brush is trapped by the support guide, it is acceptable.

The following figure shows the mounted unit.

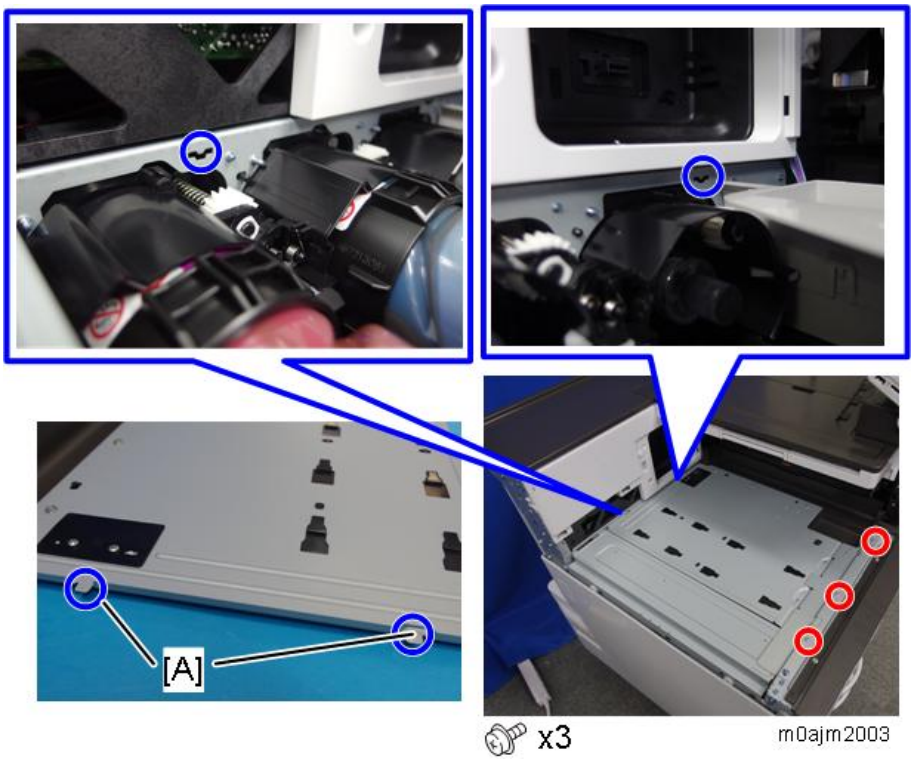
15. Remove the paper exit lower cover [A].



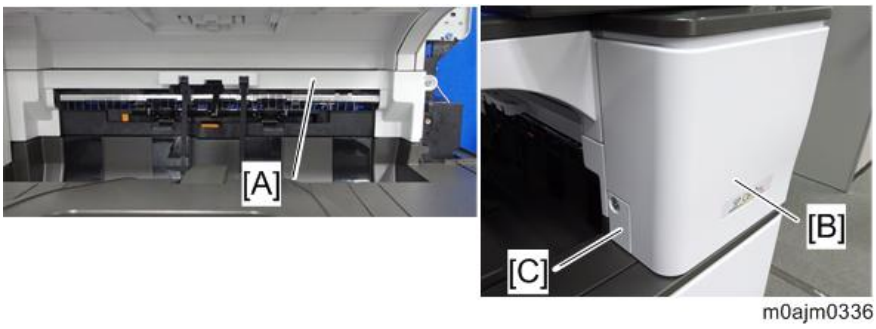
16. Attach the base plate. Before you attach the screws, insert the base plate's 2 tabs [A] into the slots in the

machine.

RTB 26
Step 16 is
modified



17. Reattach the covers in the following order: paper exit cover [A], front upper cover [B], and small cover [C].

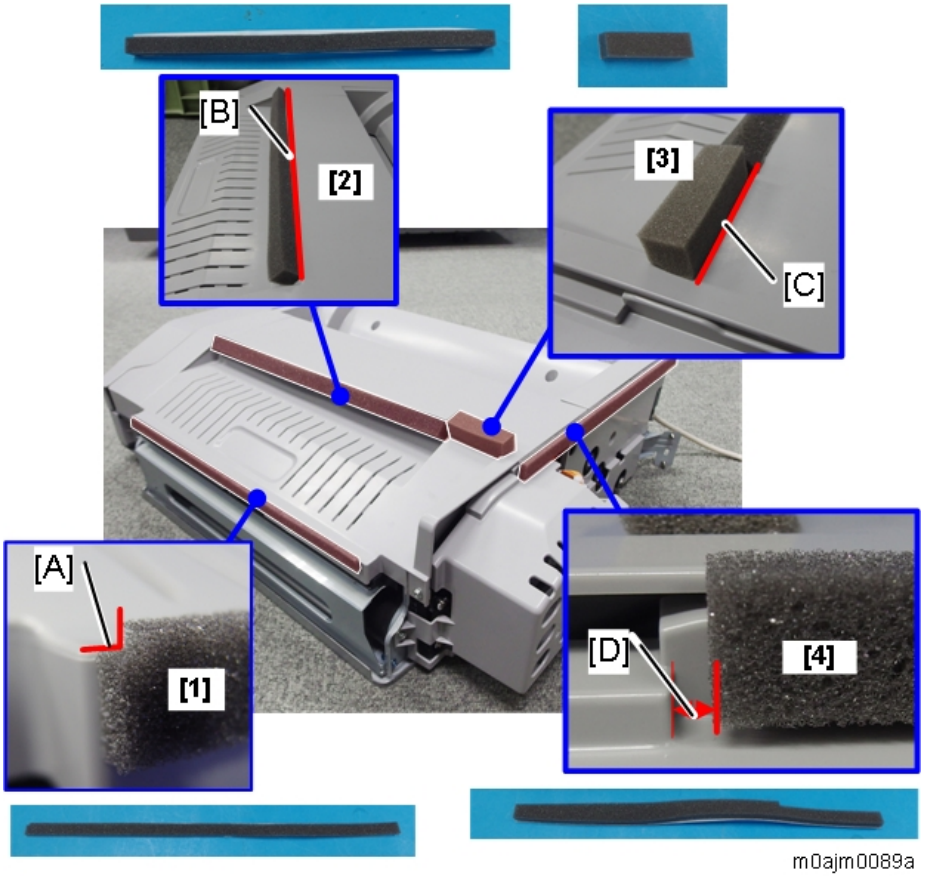


18. Close the front cover and right door.

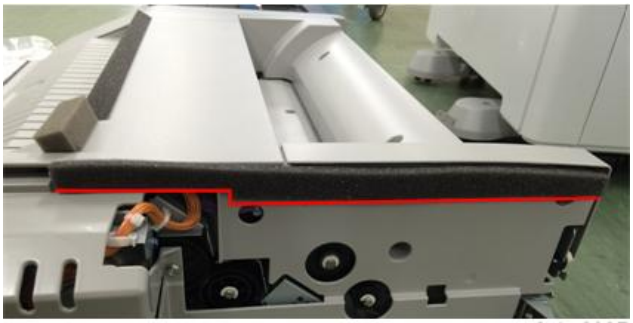
19. Attach the cushions to the internal multi-fold unit.

RTB 26
Step 19 is
modified

- When attaching the cushion (paper entrance) [1], align the cutout [A] with the top of the upper cover.
- When attaching the cushion (top/front) [2], align it with the slope [B] of the upper cover.
- When attaching the cushion (short) [3], align it with the slope [C] of the upper cover.
- When attaching the cushion (rear) [4], align it with a point 3 mm from the left edge [D].



m0ajm0089a

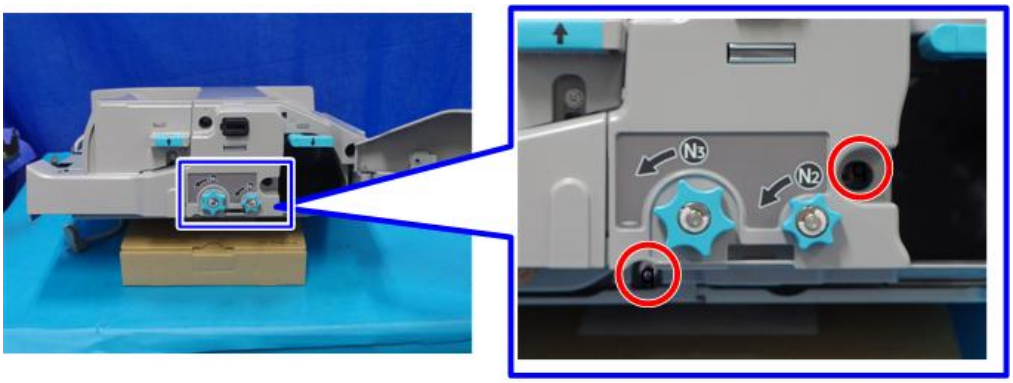

m0ajm0337

m0ajm0338

Note

It is not necessary to attach the cushions [2] and [3] when the mailbox is attached.

20. Open the front cover of the internal multi-fold unit, and then tighten the 2 screws in the recesses.

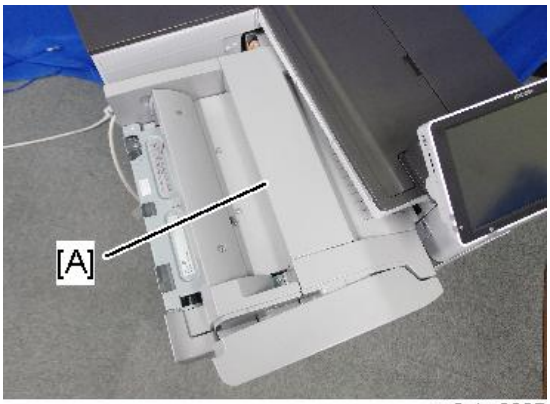


m0ajm2008

Note

This operation is required to apply pressure to the internal multi-fold unit roller when attaching it. The screw holes become inaccessible when the unit is attached to the machine, so be sure to perform this in advance. Be sure to turn the screws until they stop. It is not necessary to continue tightening them.

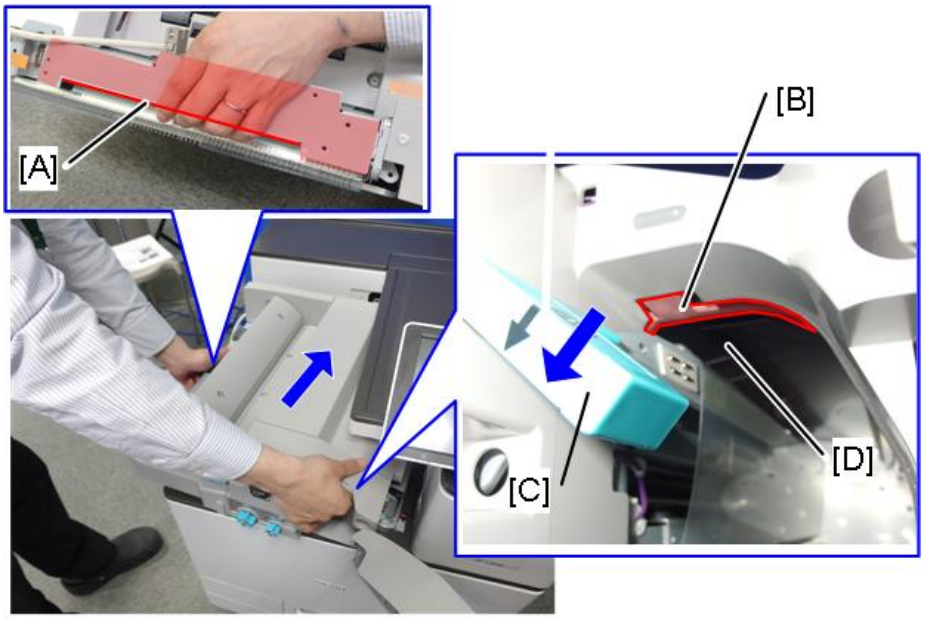
21. Temporarily place the internal multi-fold unit [A] on the base plate.



m0ajm0087

22. Open the front cover of the internal multi-fold unit, and then, holding the exit tray frame [A] and top part of the opening [B], lift the internal multi-fold unit and attach it to the machine.

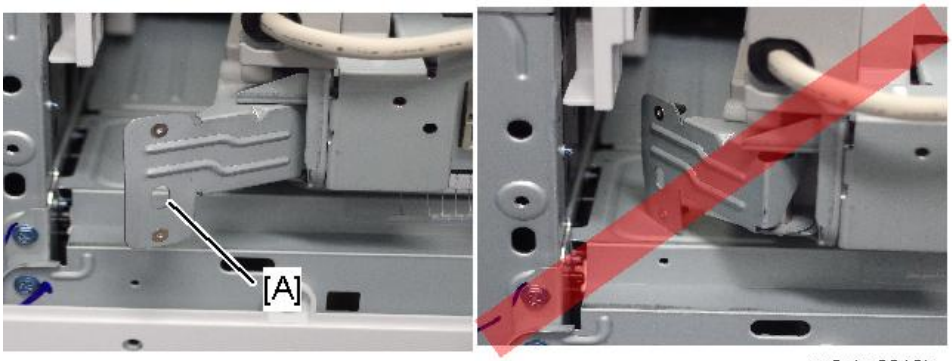
- Lower the lever [C] to keep the paper guide plate open during operation, because the plate might be deformed if a strong force is applied while the guide plate is closed.
- Hold the metal frame part [B], not the exterior cover, to avoid damaging the cover.
- Be careful not to touch the mylar sheet [D] located behind.



m0ajm0088a

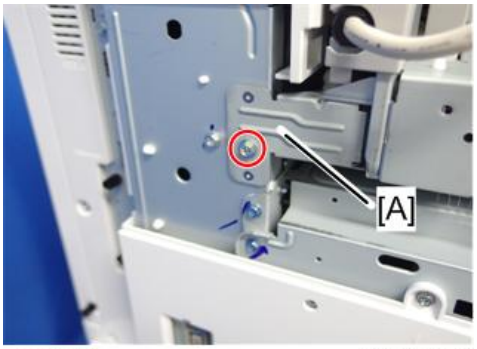
Note

Make sure that the securing bracket [A] is not caught between the internal multi-fold unit and the machine.



m0ajm2010b

23. Attach the securing bracket [A] (M4x6).



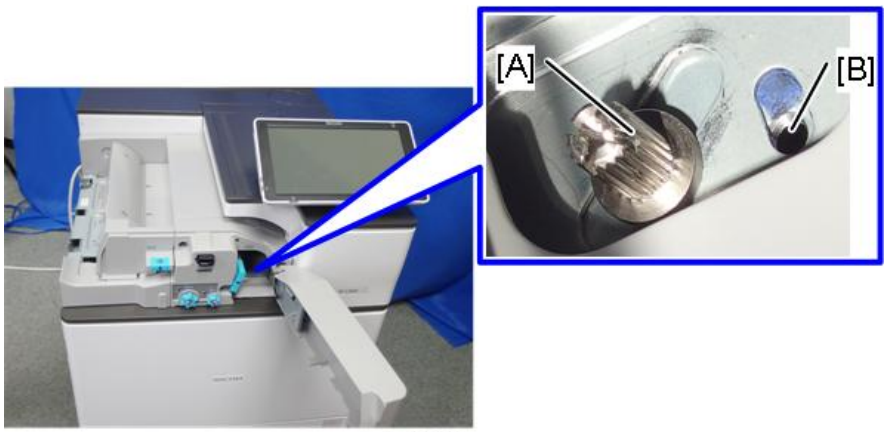
x1 m0ajm2011

24. Temporarily attach the internal multi-fold unit with the supplied coin screw (M4x1).

Note

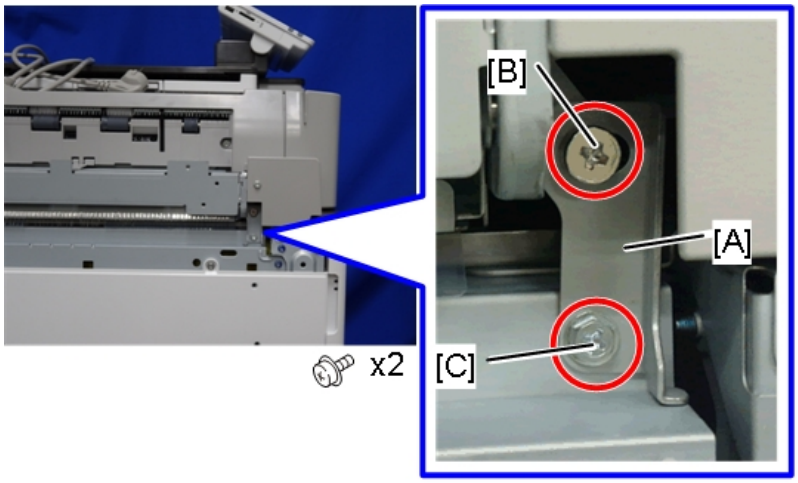
The unit is only temporarily attached at this stage, so leave the screws loose.

Fix the screw to the left screw hole [A] of the two screw holes. Do not use the right screw hole [B].



m0ajm2012b

25. Attach the correction plate for side-to-side registration [A] to the machine (M3x6).

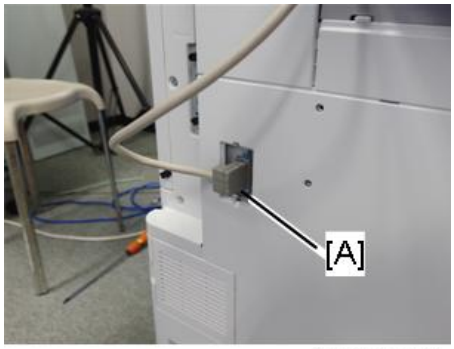


m0ajm2013c

Note

Partially secure the adjusting screw [B] on the upper part of the correction plate, and then secure the screw [C] at the bottom part of the plate.

26. Connect the cable [A] of the internal multi-fold unit to the machine.



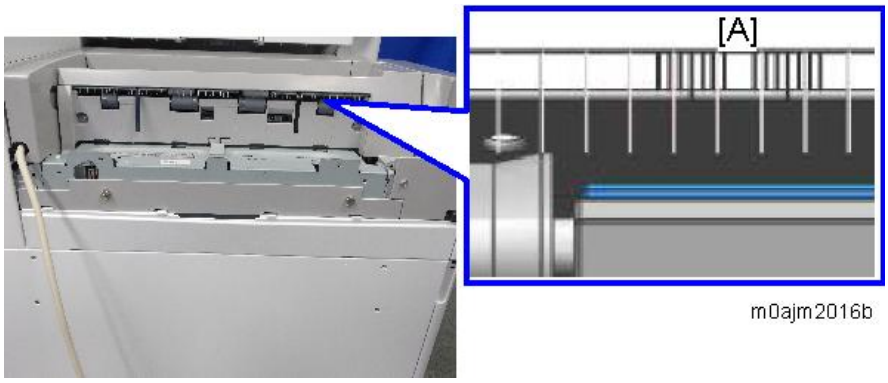
m0ajm2015a

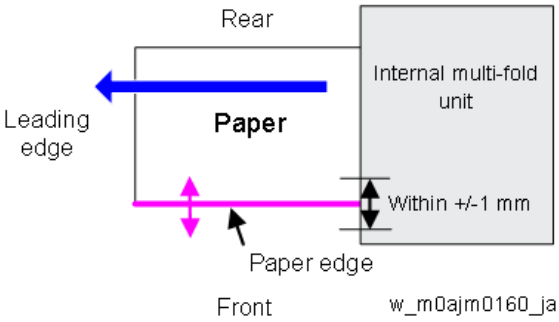
27. Turn ON the main power.

28. Feed A3/DLT paper (any brand) from Tray 2 and check the scale [A].

RTB 26 Step 28 is modified

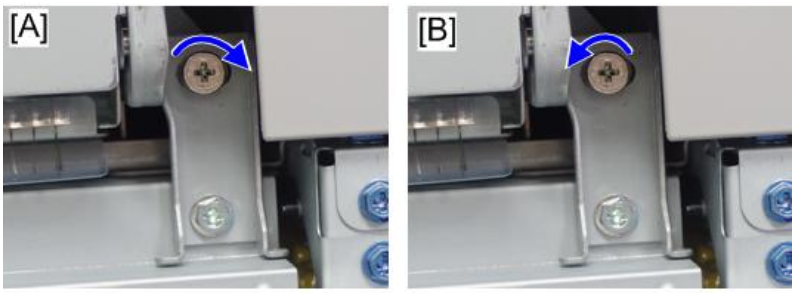
Select the [User Tools] icon > [Machine Features] > [Printer Features] > [List/ Test Print] > [Operation Test].





29. Check the movement at the paper edge from the leading to trailing edges, and turn the adjusting screws of the correction plate to adjust the internal multi-fold unit's position until the deviation stays within 2 markings on the scale. (Each marking represents 1 mm.)

- [A]: When the paper edge shifts towards the front, turn the adjusting screw clockwise.
- [B]: When the paper edge shifts towards the rear, turn the adjusting screw counterclockwise.

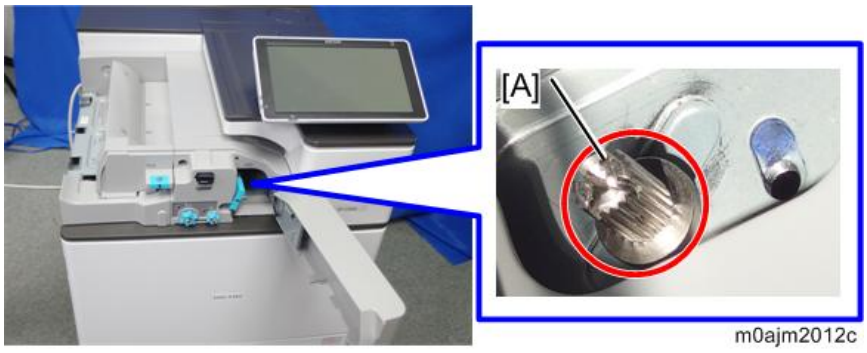


m0ajm2017

30. After registration, tighten the coin screw [A] to secure the internal multi-fold unit.

Important

When you fully open the front cover of the internal multi-fold unit, it may interfere with the machine's upper front cover, causing the internal multi-fold unit to become misaligned. Therefore, tighten the screw [A] with a stubby screwdriver.

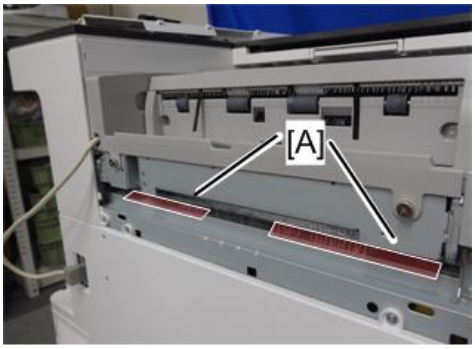


31. Reattach the left rear cover [A].

32. When attaching a finisher downstream from the internal multi-fold unit, attach the supplied paper exit guide (No.9). For details, refer to When Attaching a Finisher Downstream from the Internal Multi-Fold Unit

33. Reattach the left upper cover.

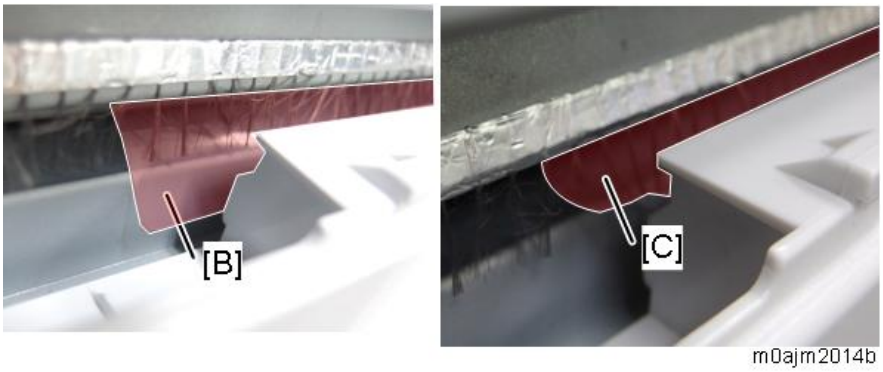
- The exit tray of the internal multi-fold unit has mylar sheets [A] on it. When attaching the cover, be careful not to damage the mylar sheets [A].
- The left upper cover bulges slightly because of the mylar sheets, but this does not cause any problem if the mylar sheets are positioned correctly.



m0ajm2014a

- Reattach the left upper cover with the mylar sheets [B] sandwiched behind it. The mylar sheets must not

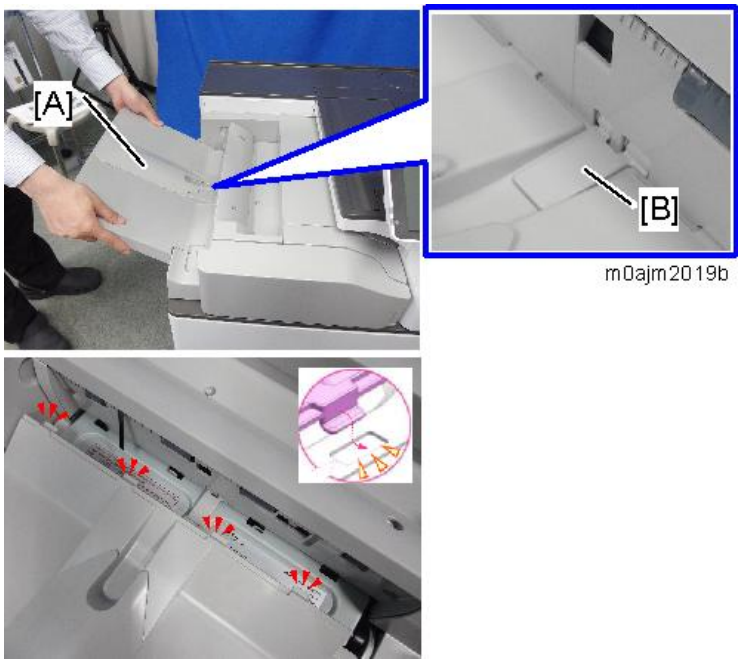
catch on or hang over the left upper cover, as shown by [C].



m0ajm2014b

34. Insert the 4 hooks on the paper exit tray [A] into the slots (hook x 4).

When attaching the paper exit tray, do not put the movable plate [B] under the paper exit tray, because that would interfere with the operation of the internal multi-fold unit.



m0ajm2019b

35. Tighten the screws to secure the paper exit tray (coin screw x2 :M4).

m0ajm2020

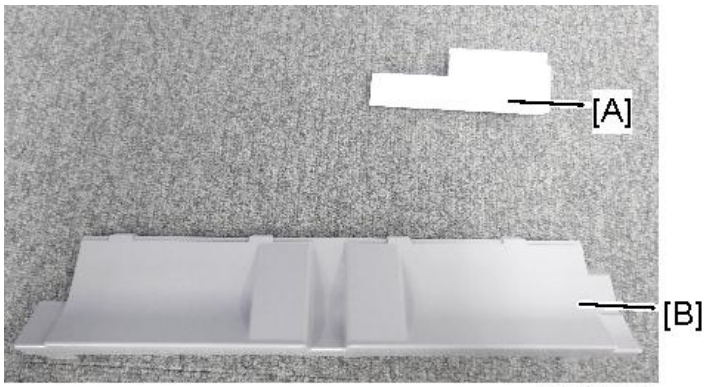
36. Attach the paper relay cover (coin screw x2: M4).

2.Installation

m0ajm2021

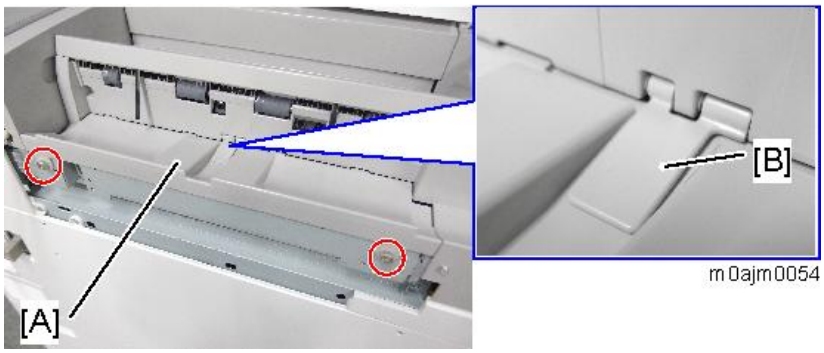
When Attaching a Finisher Downstream from the Internal Multi-Fold Unit

When attaching a finisher downstream from the internal multi-fold unit, attach the supplied left upper cover [A] and paper exit guide (relay) [B].



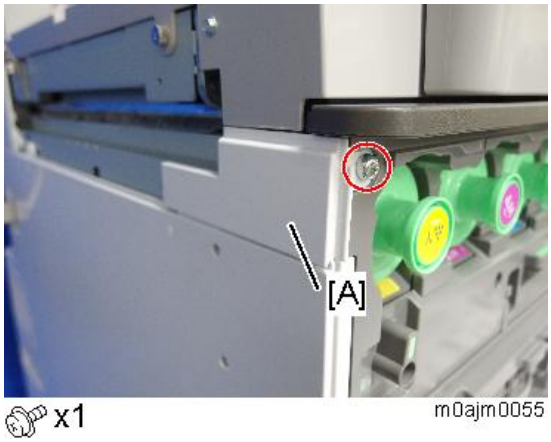
m0ajm0057

1. Attach the paper exit guide (relay) [A] provided with this unit (coin screw x2).
When attaching the paper exit tray, do not put the movable plate [B] under the paper exit tray, because that would interfere with the operation of the internal multi-fold unit.



m0ajm0054

2. Attach the left upper cover [A] provided with this unit.



3. To complete installation of the finisher, refer to the finisher installation below.

- Finisher SR3230 (D3BA-17, -21)
- Booklet Finisher SR3220 (D3B9-17, -21)
- Finisher SR3210 (D3B8-17, -21)

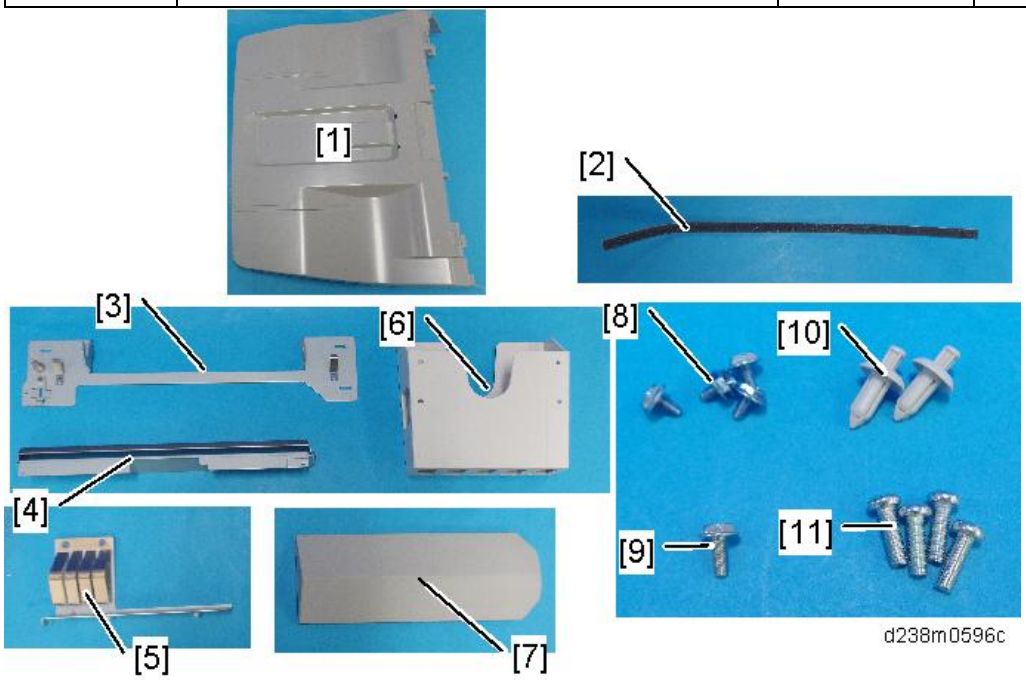
Finisher SR3230 (D3BA-17, -21)

Important

- To install this optional unit, the following optional units are required.
  1. Bridge Unit BU3070 (D685), or Internal Multi-fold Unit FD3000 (M482)
  2. LCIT PB3260 (M496), or Paper Feed Unit PB3240 (M494)

Accessory Check

No.	Description	Q'ty	Remarks
1	Shift Tray	1	
2	Cushion	1	
3	Joint Bracket	1	
4	Relay Guide Plate	1	
5	Ground Plate	1	
6	Tray Holder	1	
7	Proof Support Tray	1	
8	Screws (3x6)	4	
9	Screws (3x8)	1	
10	Round Rivets	2	
11	Screws (4x12)	4	



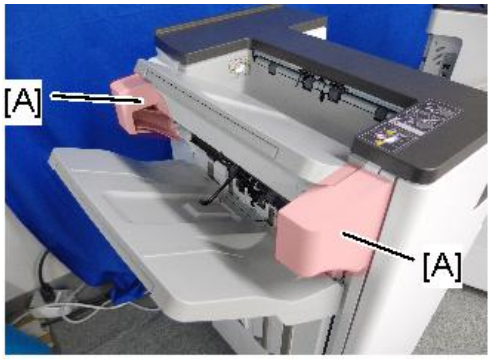
Installation Procedure

⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Important

- When you unpack or move this unit, do not hold the paper exit guide [A]. Doing so may damage the unit.



m0ajm0076

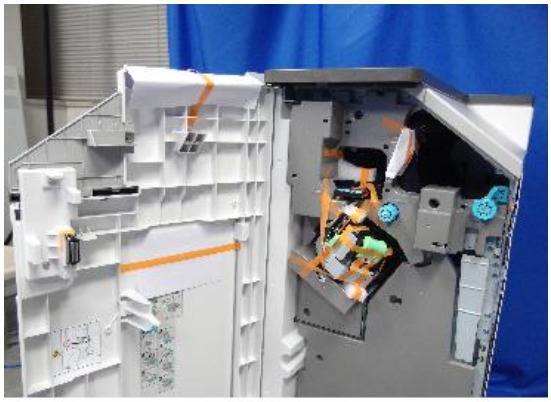
Note

- Before installing this option, install the following options first;
  1. Bridge Unit BU3070 (D685), or Internal Multi-fold Unit FD3000 (M482)
  2. LCIT PB3260 (M496), or Paper Feed Unit PB3240 (M494)

1. Remove the orange tape on the exterior covers and remove the shipping retainers. Then remove the accessories in the package (fixing screws, etc.).

d238m0597b

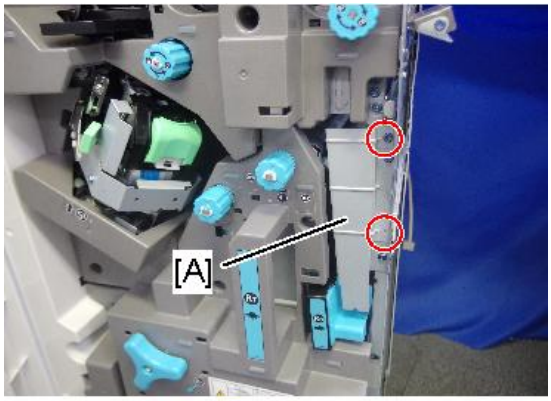
2. Open the front cover, and remove the orange tapes and shipping retainers.



d238m0598b

3. Remove the plate [A] only when installing the punch unit.

For details about the punch unit installation, refer to Punch Unit PU3060 (D706-00, -01, 02, -03).

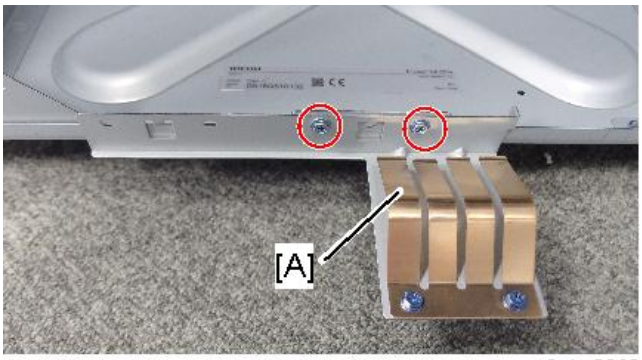


x2 d238m0759

4. Attach the shift tray [A] (×1: M3x8).

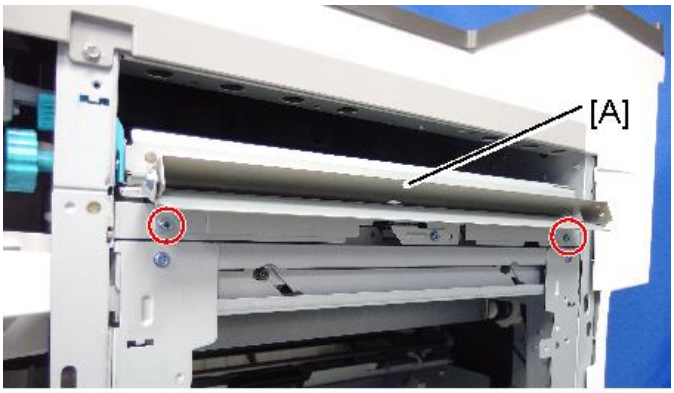
d1462544

5. Attach the ground plate [A] (M3x6).



x2 m0ajm0060

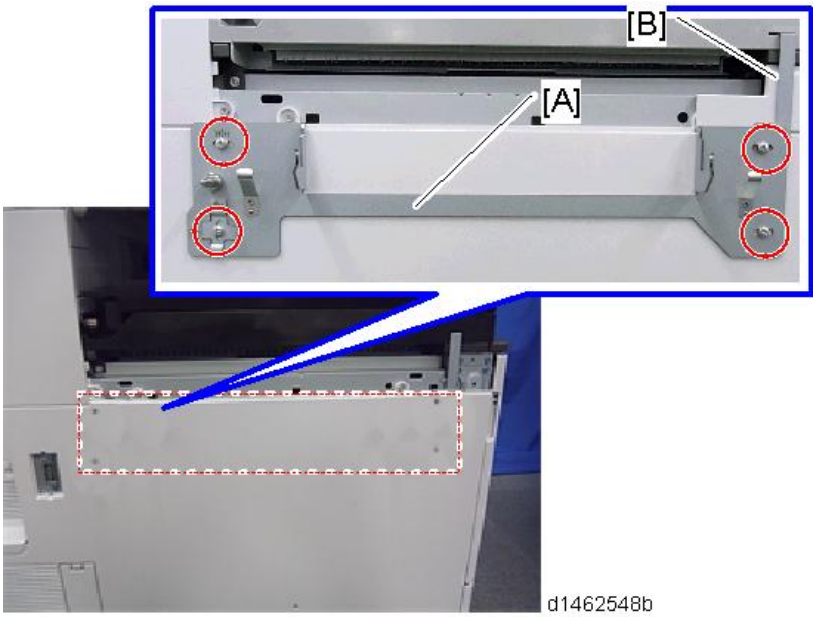
6. Attach the relay guide plate [A] (M3x6).



x2 m0ajm0059

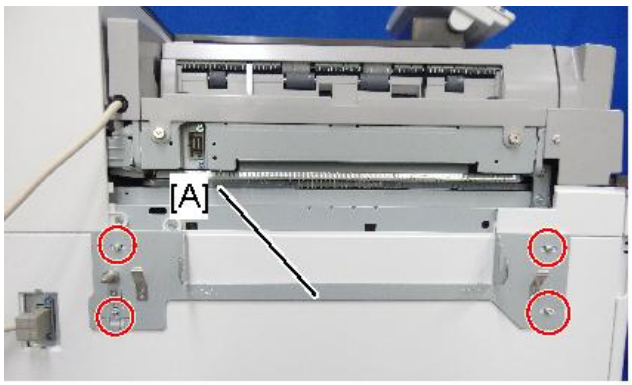
7. Attach the joint bracket [A] to the main machine (x4: M4x12).

If the machine is equipped with the bridge unit, attach the joint bracket [A] together with the L type connecting bracket [B] of the bridge unit.



d1462548b

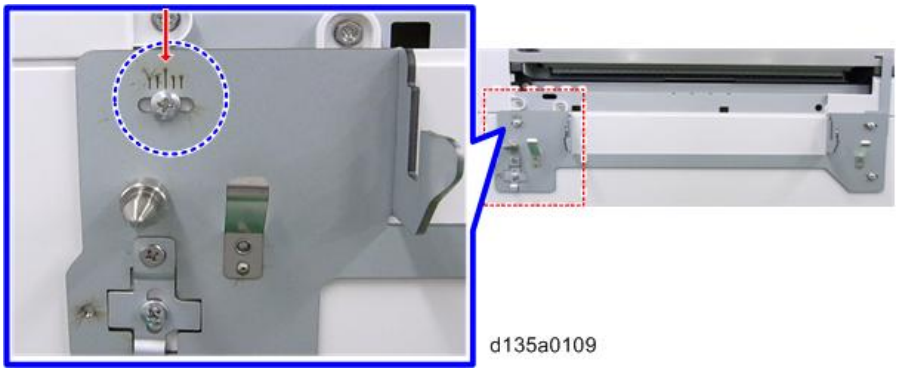
If the machine is equipped with the internal multi-fold unit, attach the joint bracket [A] only.



x4 m0ajm0061

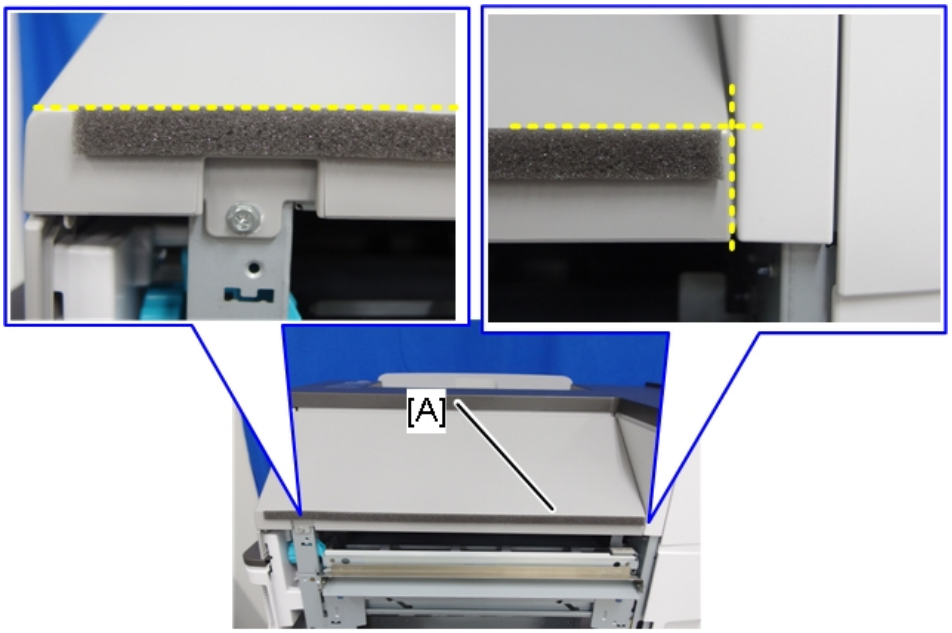
Note

- Attach the screw so that the screw head is at the center of the mark.



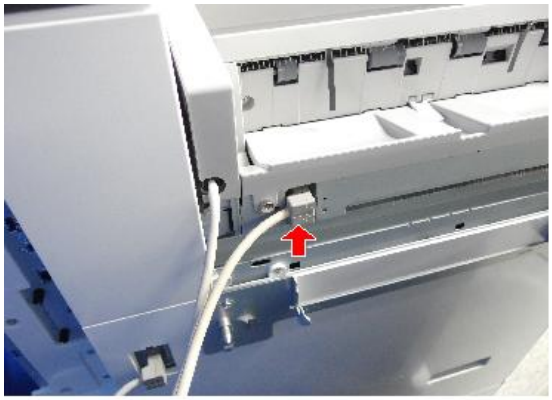
8. Clean the right side of the upper cover with a cloth moistened with alcohol, and then attach the cushion [A] to the finisher.

- Make sure that the cushion is aligned with the rear-upper edge of the upper cover.



m0ajm0062

9. If the internal multi-fold unit is installed, connect the finisher cable to the connector on the internal multi-fold unit.



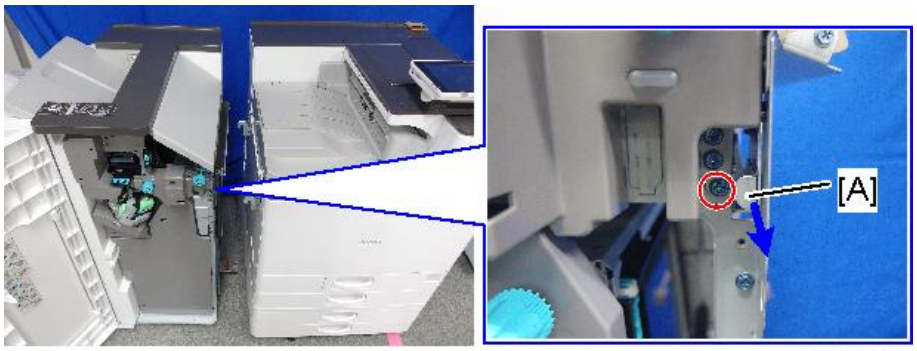
m0ajm0068

Important

Make sure that the finisher's 2 cables are not crossing each other before you connect the finisher.

m0ajm0202

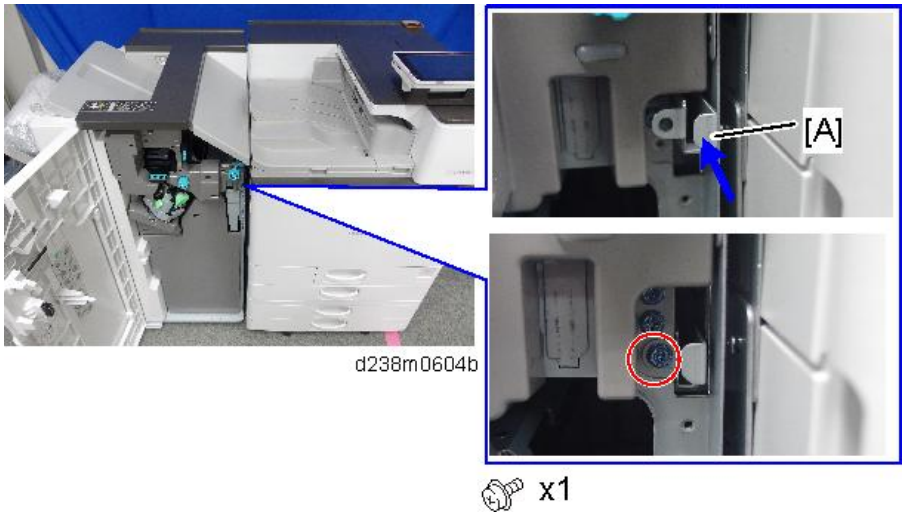
10. Remove the screw on the connection lever [A] and pull the lever.



x1

d238m0603c

11. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit.



12. If the bridge unit is installed, connect the interface cable to the machine.

13. Attach the tray holder (x2).

14. Close the front cover of the finisher.

15. Turn ON the main power.

16. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the

adjustment scale for A3/DLT paper (Troubleshooting for Finishing Options).

17. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

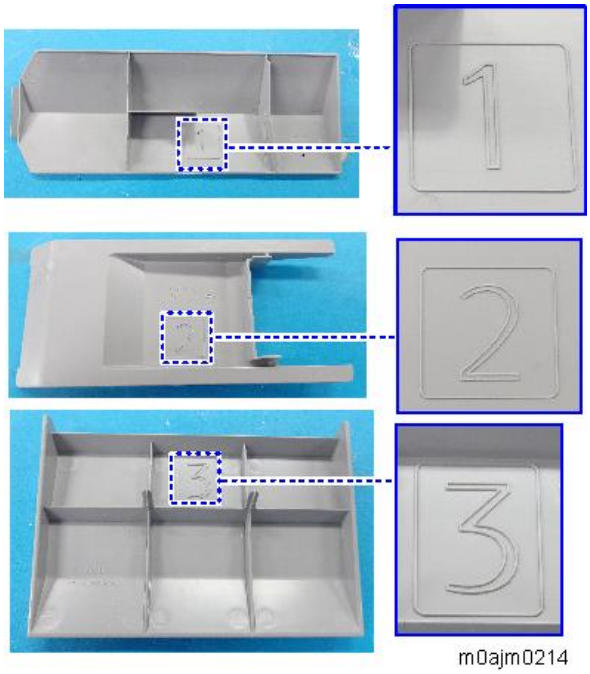
Attaching a Support Tray

Explain the following information to the users.

The sensor may detect that the exit tray is full prematurely when delivering z-folded sheets or curled paper to the tray.

If a message reporting a full paper exit tray appears, the job is suspended until the paper is removed from the paper exit tray. By attaching a support tray, you can prevent the premature full detection.

Three types of support tray are supplied with this finisher. Make sure that you understand the purpose of each support tray before installing one of them.

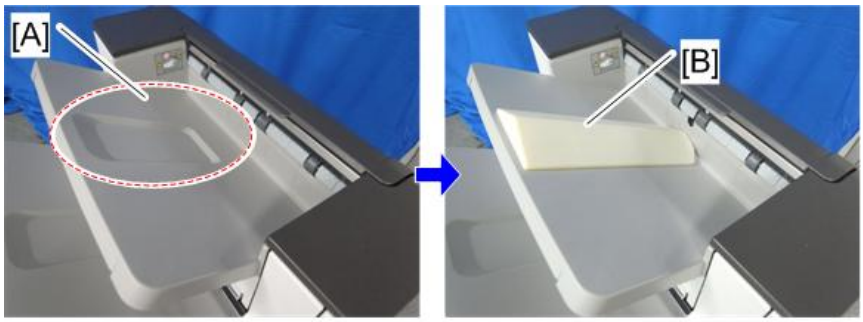


Proof Support Tray ("1" marked on the back), provided with this finisher

When using B4, LG or larger paper, or when using limp paper, the sheet may become kinked, resulting in premature full detection.

d1826009

This can be solved by attaching the proof support tray [B] on the proof tray [A].



d1826010

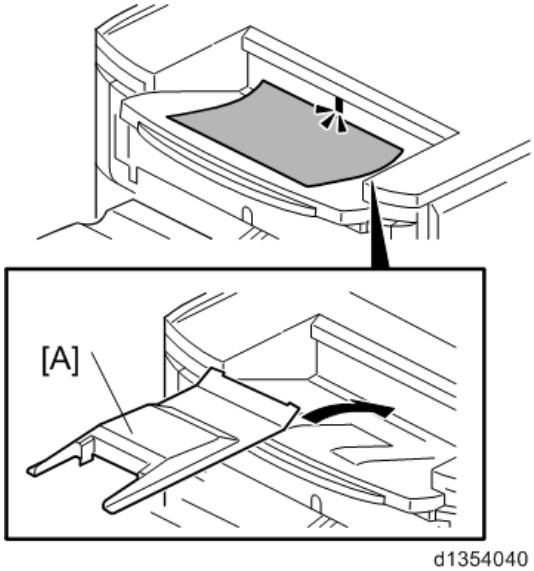
Problem that may occur after attaching this support tray:

When printing A4, LT or smaller paper with the support tray, the machine stacks only 200 sheets, which is less than the standard specification of 250 sheets.

When printing B4, LG or larger paper with the support tray, the machine stacks 50 sheets, which is the same as the standard specification.

Support Tray: Proof ("2" marked on the back), provided with the multi-fold unit

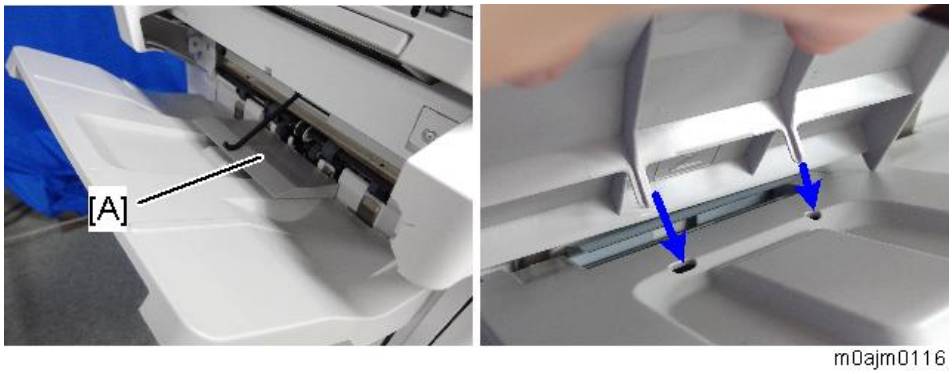
By attaching Support Tray: Proof [A], more sheets can be stacked when delivering z-folded sheets to the proof tray, preventing premature full detection.



Support Tray: Shift ("3" marked on the back), provided with the multi-fold unit

By attaching Support Tray: Shift [A], more sheets can be stacked when delivering z-folded sheets to the shift tray, preventing premature full detection.

The sensor is located at the paper exit. During the installation, be careful not to remove the feeler.



Output Jogger Unit Type M25 (D3CJ-01)

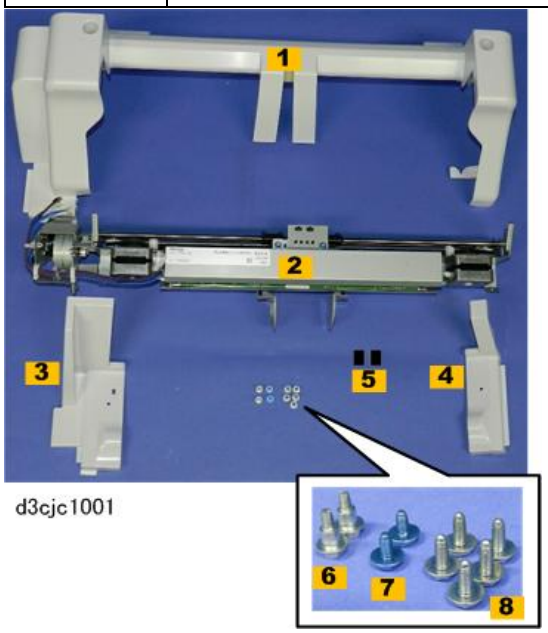
Important

- This jogger unit is installed and used with Finisher SR3230 only.

Accessory Check

Check the quantity and condition of the accessories against the following list.

No.	Description	Q'ty	Remarks
1	Jogger Unit Cover	1	
2	Jogger Unit	1	
3	Rear End Cover	1	
4	Front End Cover	1	
5	Cushions	5	
6	Shoulder Screws	2	
7	Screws (Blue) M3x6	2	
8	Screws (Silver) M3x8	5	



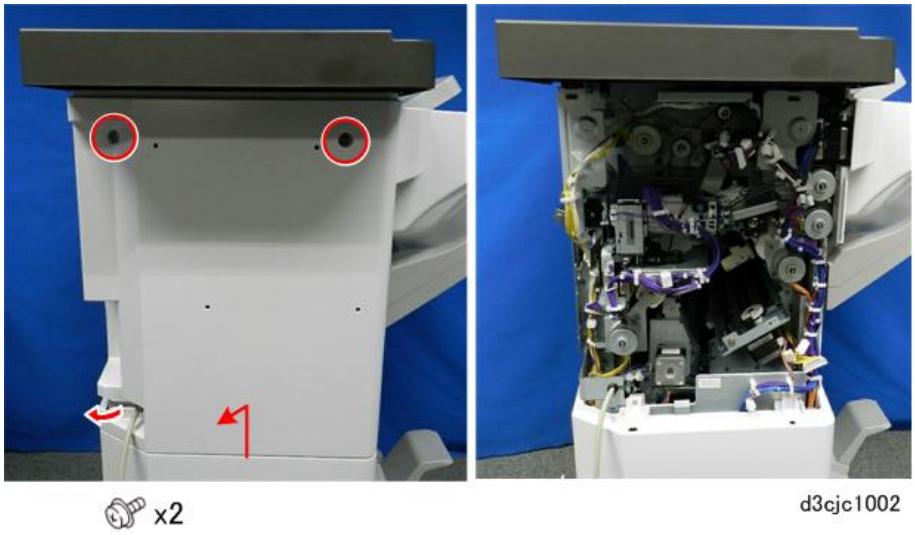
Installation Procedure

CAUTION

- Always switch the machine off and unplug the machine before doing the following procedure.

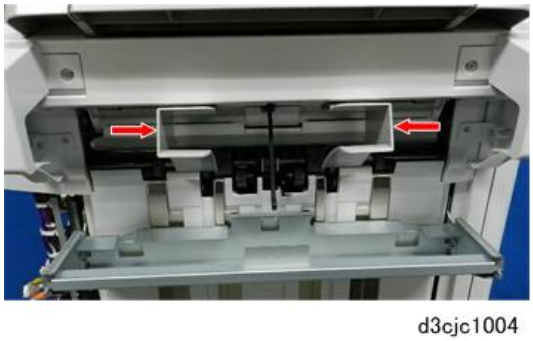
1. Disconnect the finisher from the main frame.

2. Remove the rear cover.

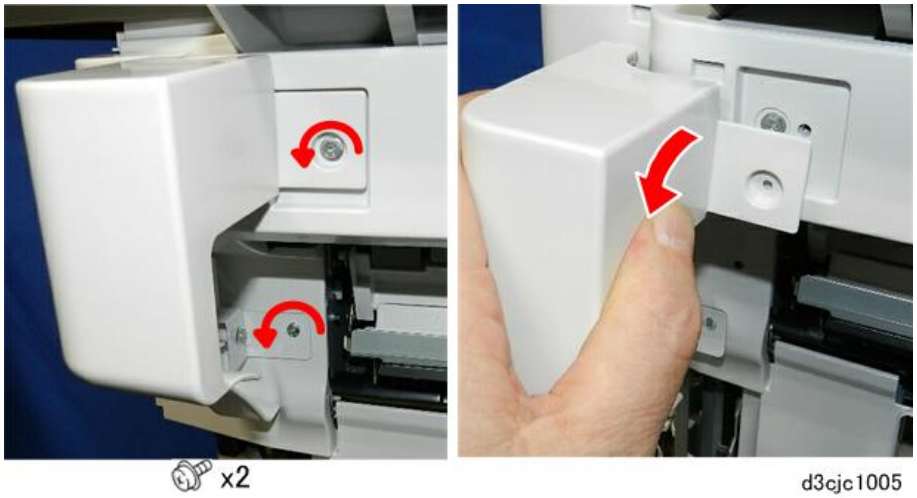


3. Remove the shift tray.

4. Push the paper guides to the center.



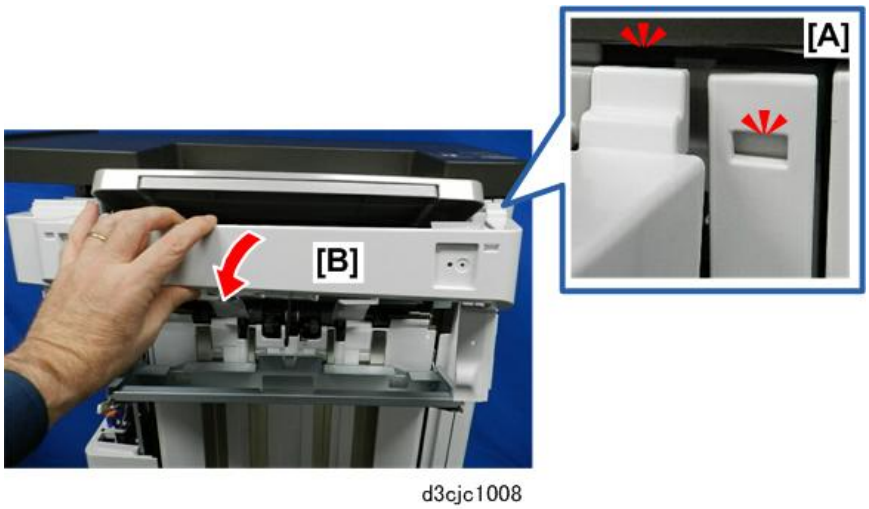
5. Remove the rear paper guide cover.



6. Remove the front paper guide cover.

7. Disconnect the main paper guide cover.

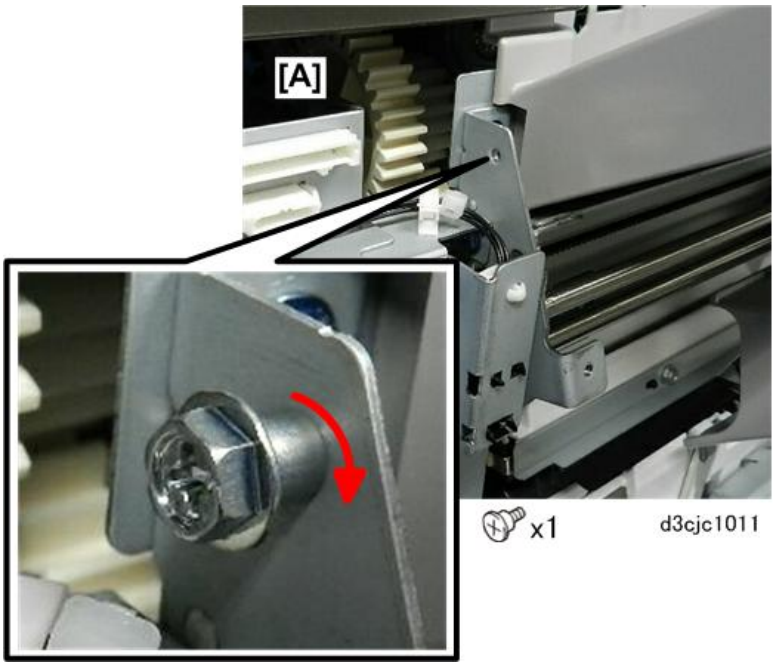
8. Carefully, separate the front tabs at [A], and then remove the main paper guide cover [B].



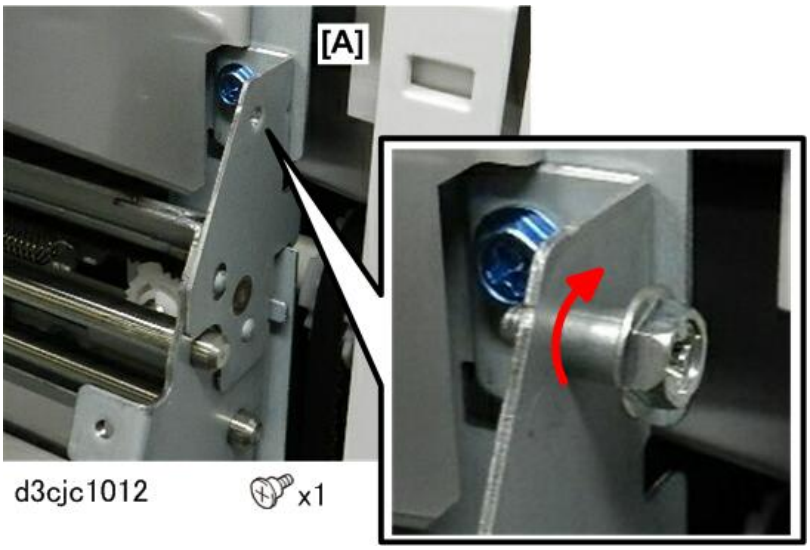
9. Disconnect the cover installation bracket.

10. Slowly, disconnect the bracket from the rail above, and then remove it.

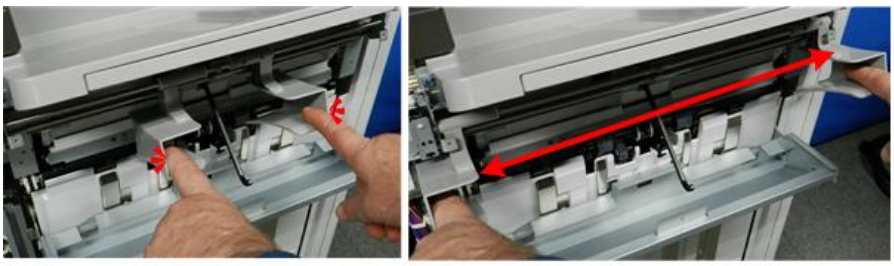
11. At the rear [A], set one shoulder screw.



12. At the front [A], set the other shoulder screw.

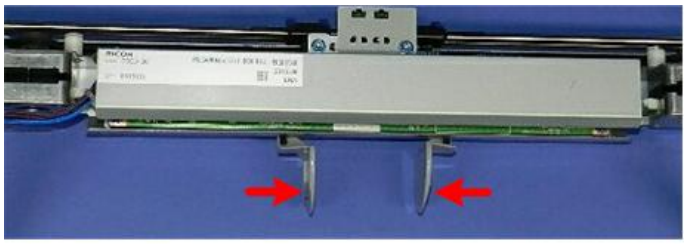


13. Spread the paper guides to the maximum width.



d3cjc1013

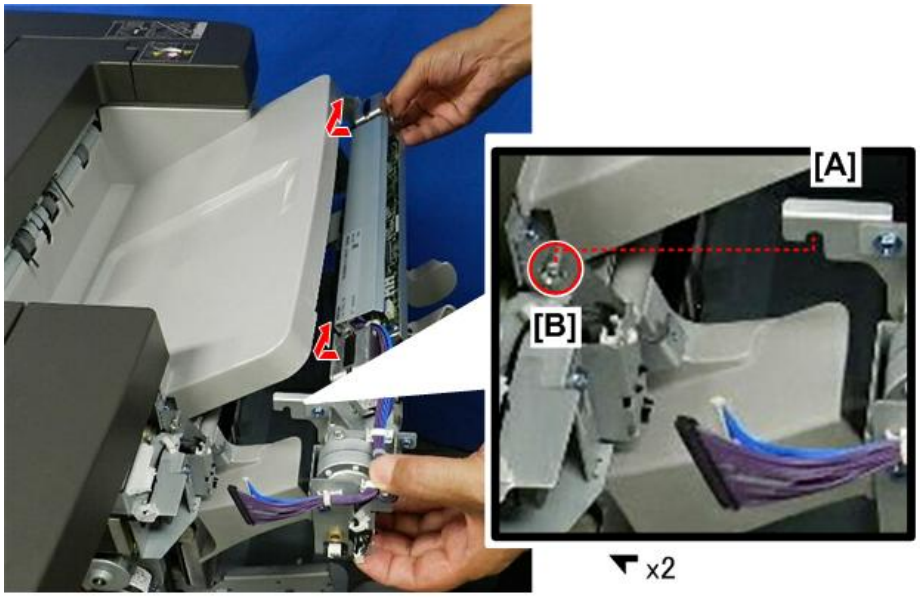
14. Move the jogger arms on the jogger unit to the center.



d3cjc1014

15. Hold the jogger unit so the hooks [A] on both ends of the unit are in line with the installed shoulder screws [B].

16. Rotate the jogger unit slightly up under the output tray so that the motors on both ends of the unit go under the tray, and then hang the hooks on the shoulder screws at the front and rear.



d3cjc1015

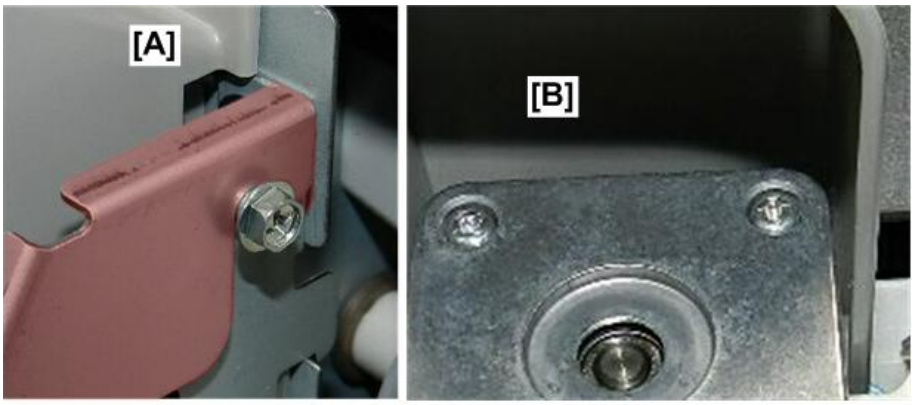
17. Confirm that the rear bracket [A] is on the shoulder screw.

18. Confirm that the rear motor [B] is up under the tray.

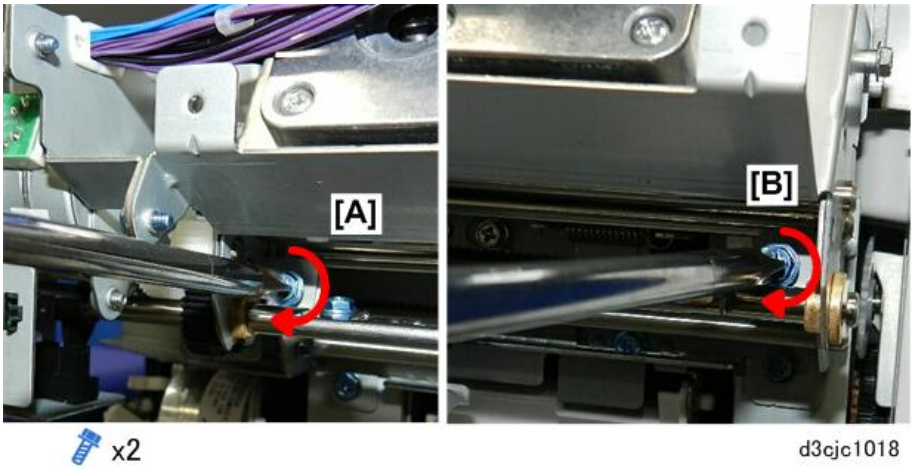
d3cjc1016

19. Confirm that the front bracket [A] is on the shoulder screw.

20. Confirm that the front motor [B] is up under the tray.



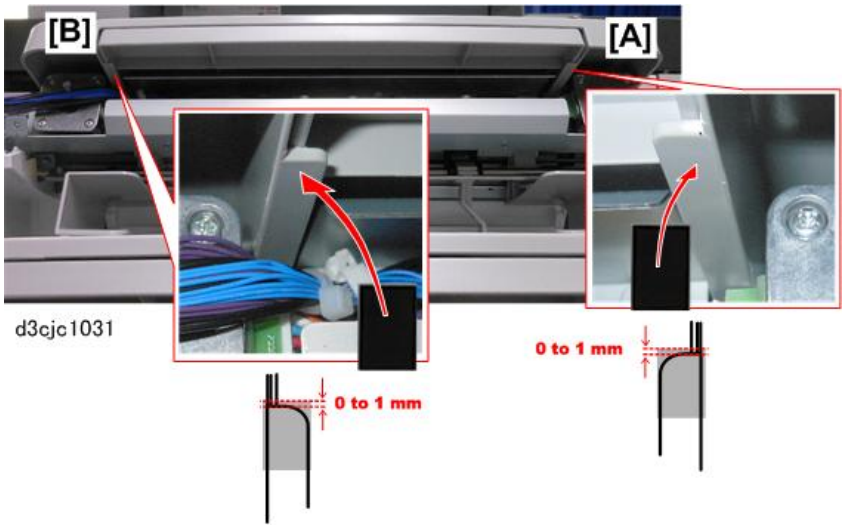
21. Fasten the jogger unit at the rear [A] and front [B].



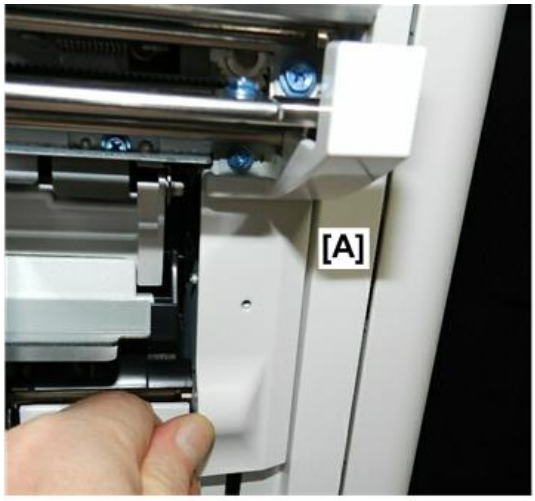
22. Connect the jogger unit at the rear.

23. Peel the back off the two accessory cushions.

24. Attach the cushions to the front [A] and rear [B] of the lower arms of the output tray.

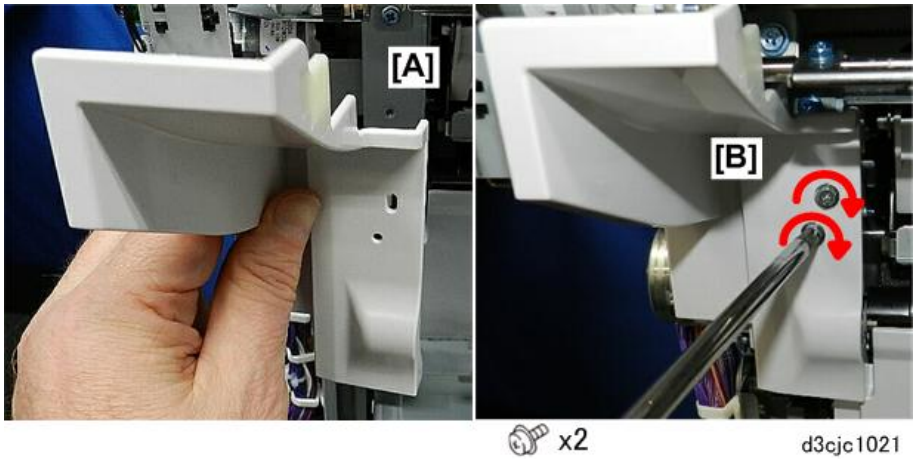


25. Set the front end cover [A]. Do not attach the screw yet.



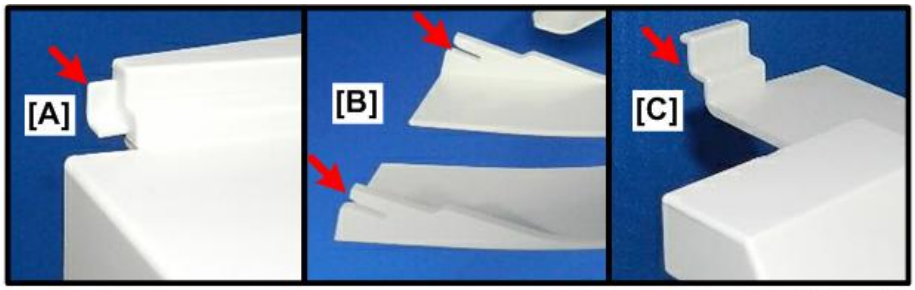
d3cjc1020

26. Set the rear end cover [A], and then fasten it [B].



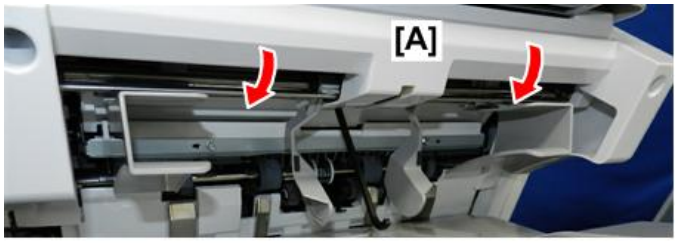
27. Look at the jogger cover. Note the tabs and slots on the rear end [A], center arm covers [B], and front end

[C].



d3cjc1022

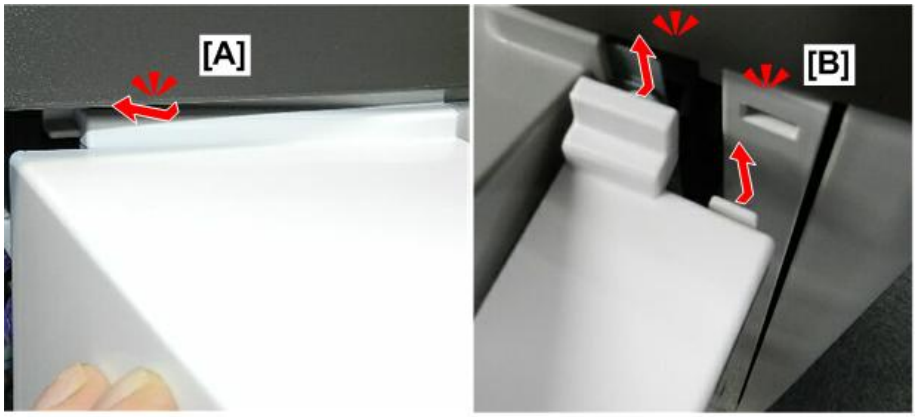
28. Slowly, set the jogger cover [A] on the jogger unit.



d3cjc1023

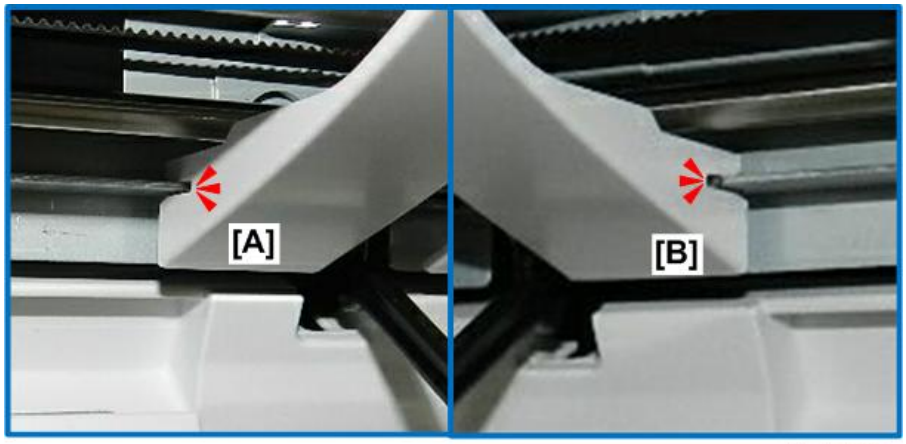
29. At the rear [A] confirm that the tab inserts correctly.

30. At the front [B] confirm that both tabs set correctly.



d3cjc1024

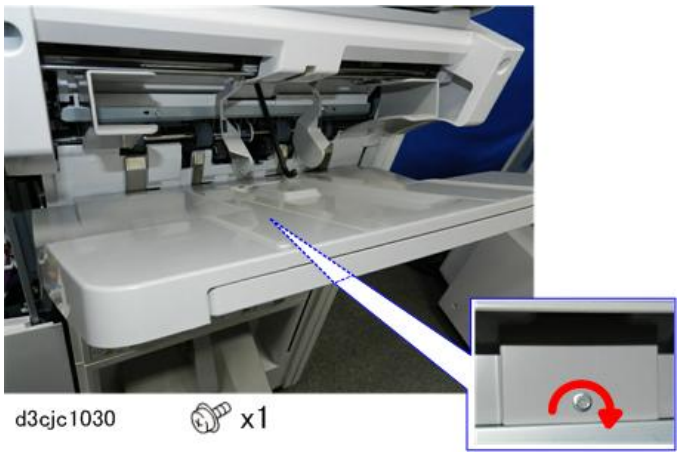
31. In the center under the jogger unit, make sure the rear arm cover [A] and front arm cover [B] fit over the edge of the plate as shown.



d3cjc1025

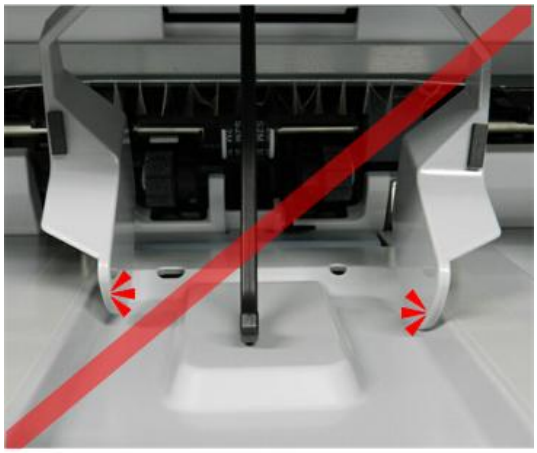
32. After making sure that all tabs are set correctly, fasten the cover to the jogger unit.

33. Re-install the shift tray.



34. Check the center of the shift tray.

If the jogger arms are touching the surface of the shift tray as shown, this will cause a jam when the machine is turned on because the arms will move and hit the tray.

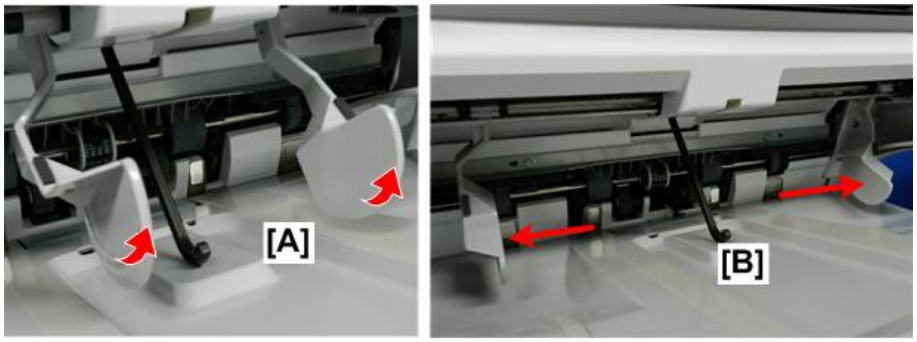


35. To avoid a jam at power on, before you turn the machine on you can:

Raise the jogger arms [A] slightly so they are not touching the shift tray below.

-or-

You can spread the jogger arms [B] away from the center so they are not touching the surface of the tray.



d3cjc1028

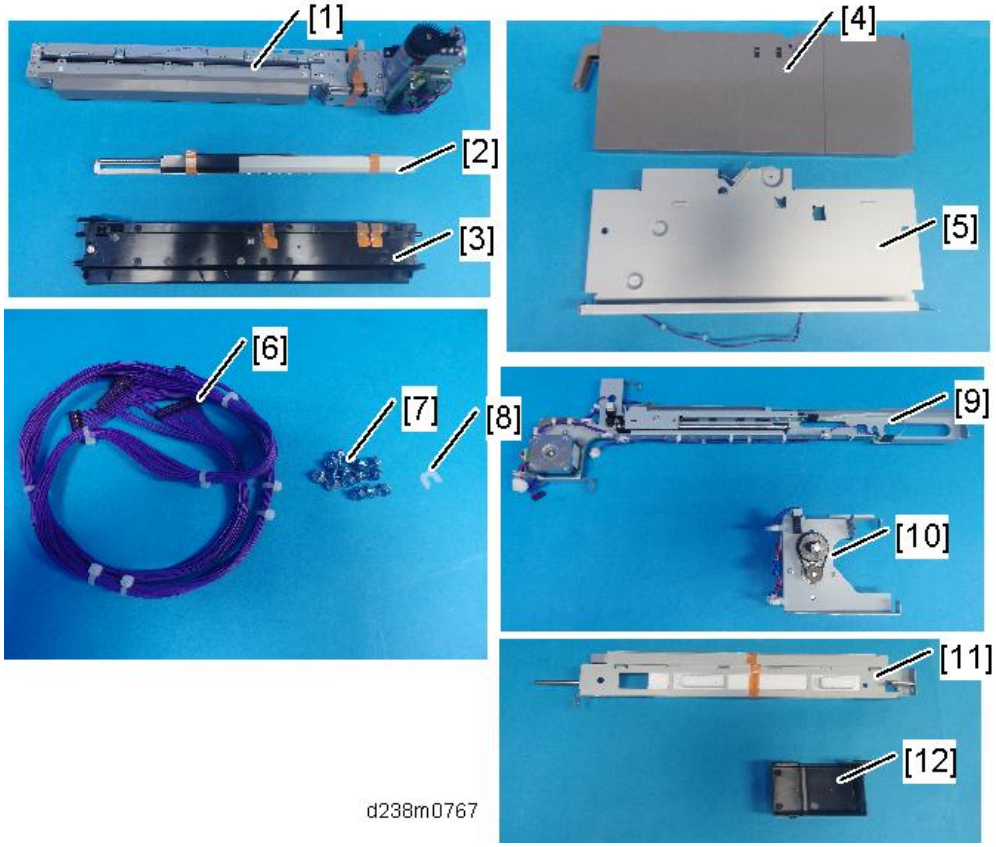
Punch Unit PU3060 (D706-00, -01, 02, -03)

Note

- This Punch Unit is for Finisher SR3230 (D3BA).

Accessory Check

No.	Description	Q'ty	Remarks
1	Punch Unit	1	
2	Registration Guide Plate	1	
3	Punch Waste Paper Guide	1	
4	Hopper	1	
5	Hopper Bracket	1	
6	Harness	1	
7	Tapping Screw- M3×6	15	
8	Clip Ring	1	
9	Side-to-side Detection Unit	1	
10	Punch Unit Movement Motor Unit	1	
11	Punch Unit Stay	1	
12	Cover	1	

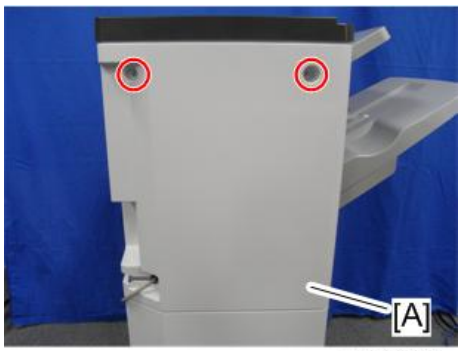


Installation Procedure

⚠CAUTION

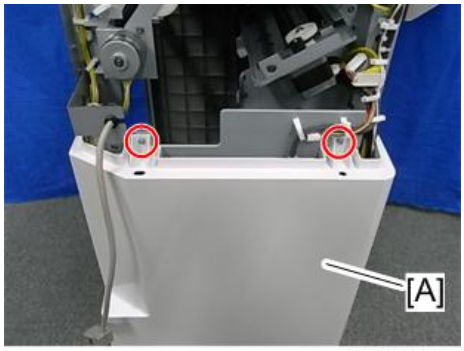
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the rear upper cover [A] (×2)



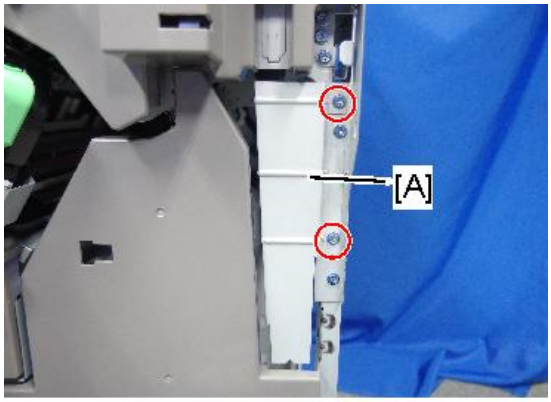
d7060011

2. Remove the rear lower cover [A] (×2)



d7060012

3. Remove the plate [A].



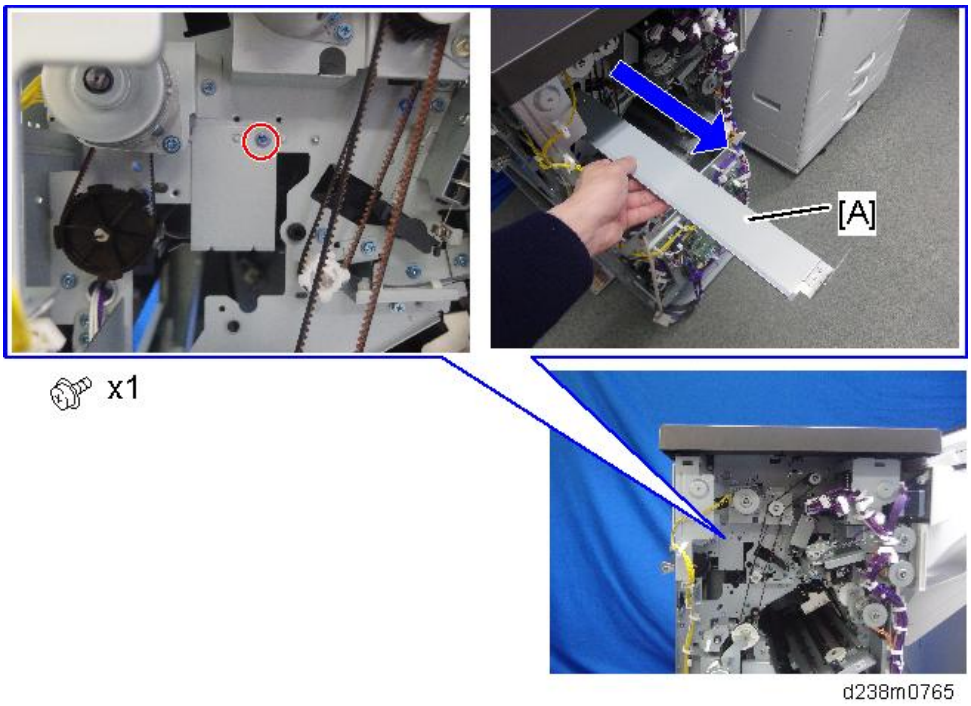
x2 m0ajm0058

4. Remove the inner cover [A] (×3, ×1)

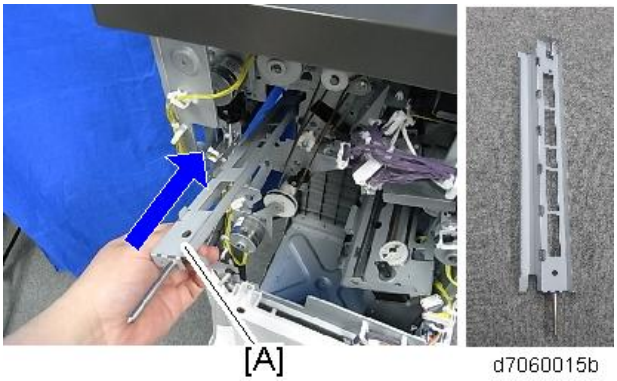
Note

- There is a connector on the back of the inner cover.

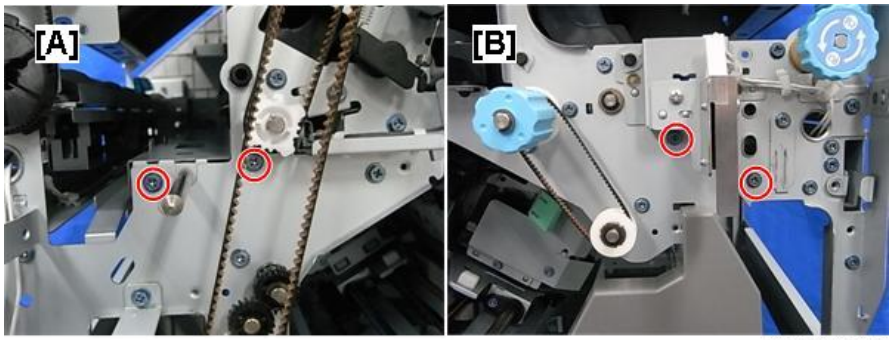
5. Remove the punch guide plate [A].



6. Attach the punch unit stay [A] (×4).



[A]: Rear, [B]: Front

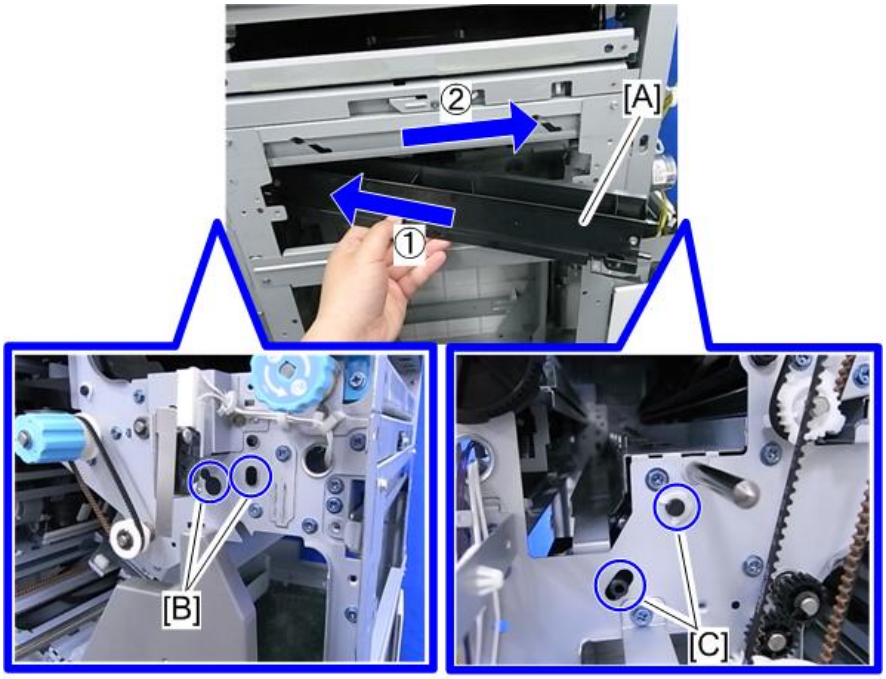


d238m0930a

7. Attach the punch waste paper guide [A] (×1).

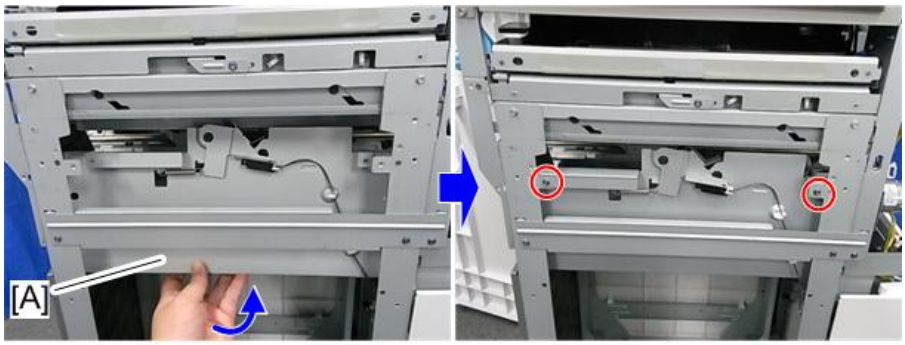
Note

- After inserting the front tab of the punch waste paper guide into the frame [B] of the finisher, insert the rear tab into the frame [C].



d7060017

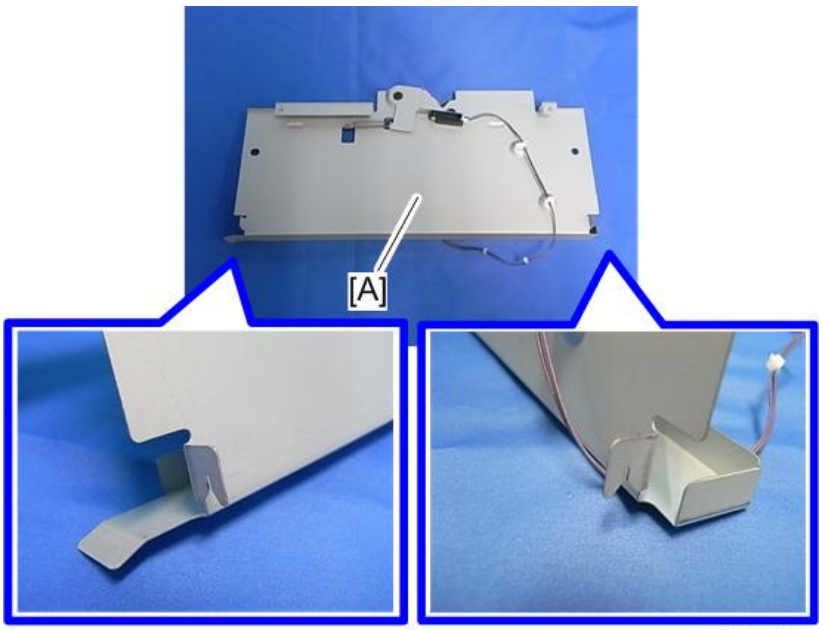
8. Attach the hopper bracket [A], inserting from the outside frame of the finisher. (×2, 2 hooks)



d7060018

Note

- Hook the hooks of the hopper bracket [A] onto the back side of the frame.



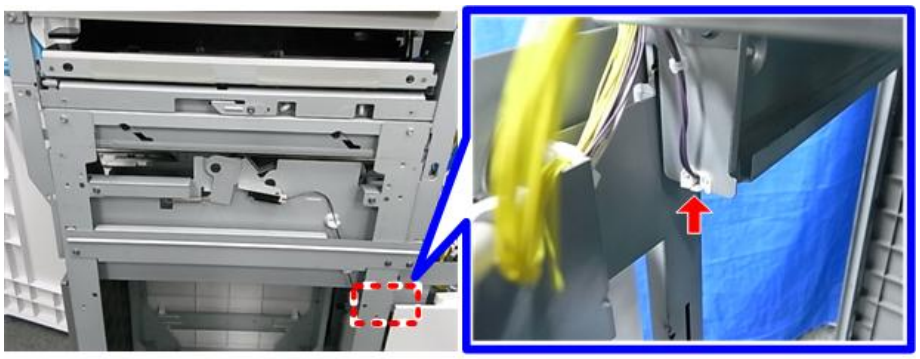
d7060019

d7060020

- Hook the upper frame of the hopper bracket onto the outside frame of the finisher.

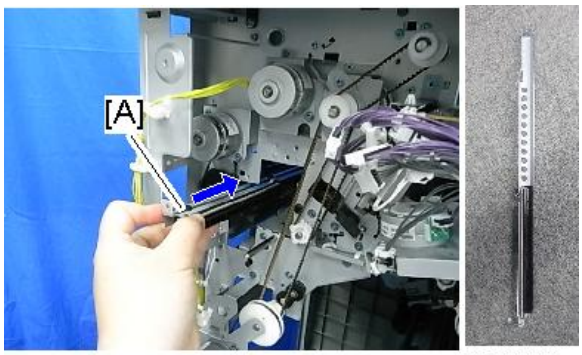
d7060021

9. Fix the harness of the hopper sensor. (×1)



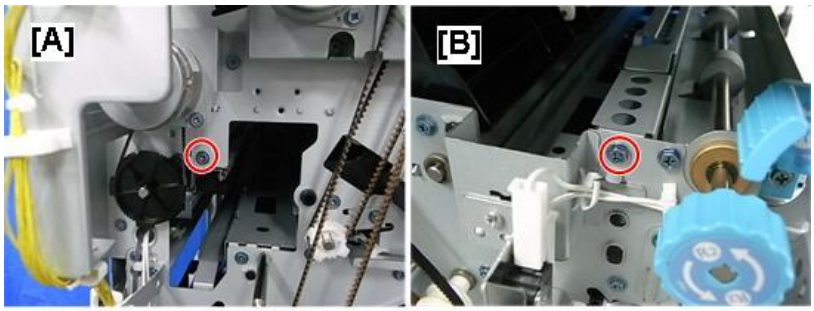
d7060022

10. Attach the registration guide plate [A]. (×2)



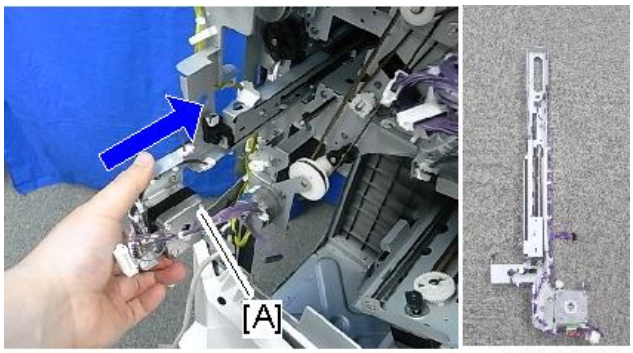
d7060023b

[A]: Rear, [B]: Front

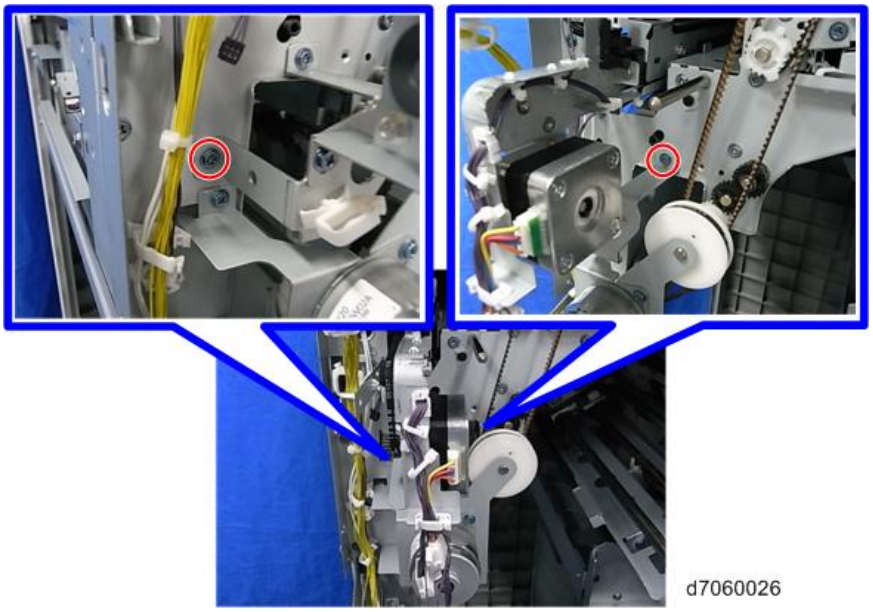


d238m0931a

11. Attach the side-to-side detection unit [A]. (×2)



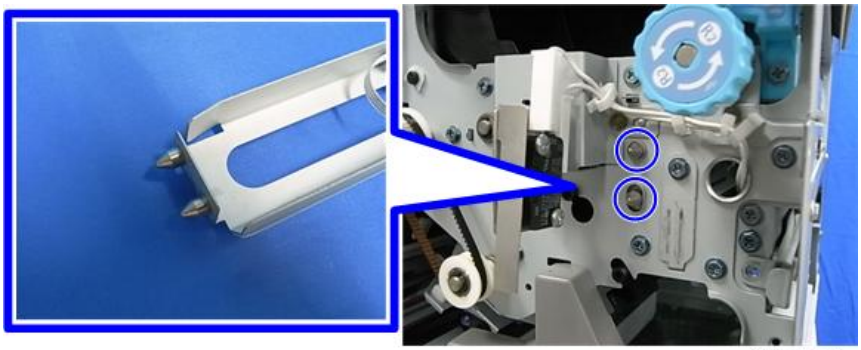
d7060025b



d7060026

Note

- Insert the front pins of the side-to-side detection unit into the holes of the frame.

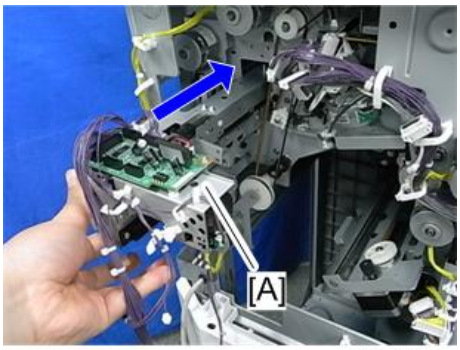


d7060027

12. Attach the punch unit [A]. (×2)

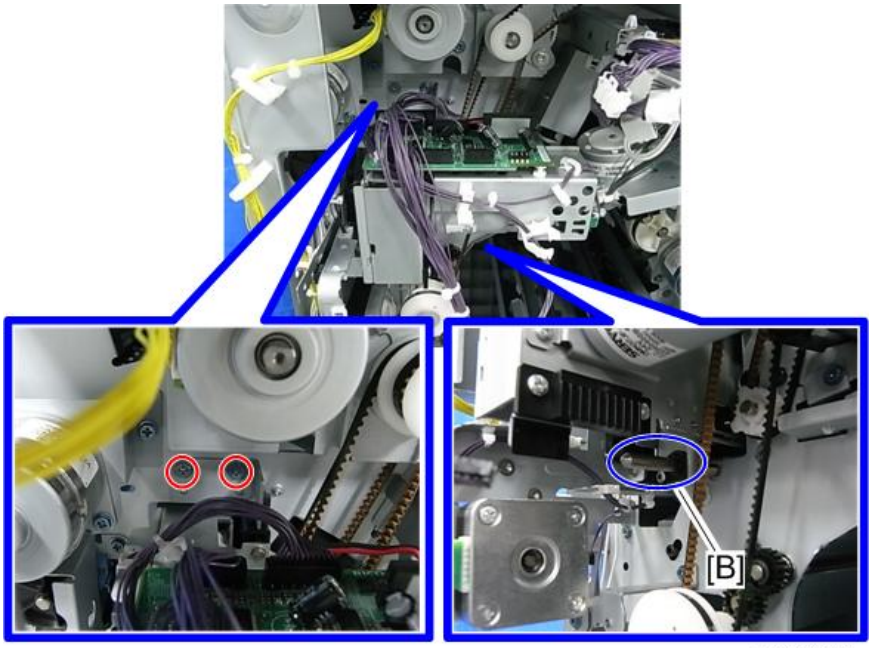
Note

- After inserting the pins [B] of the punch unit stay into the front and rear holes of the punch unit, fix the punch unit with two screws.



d7060028

- Rear

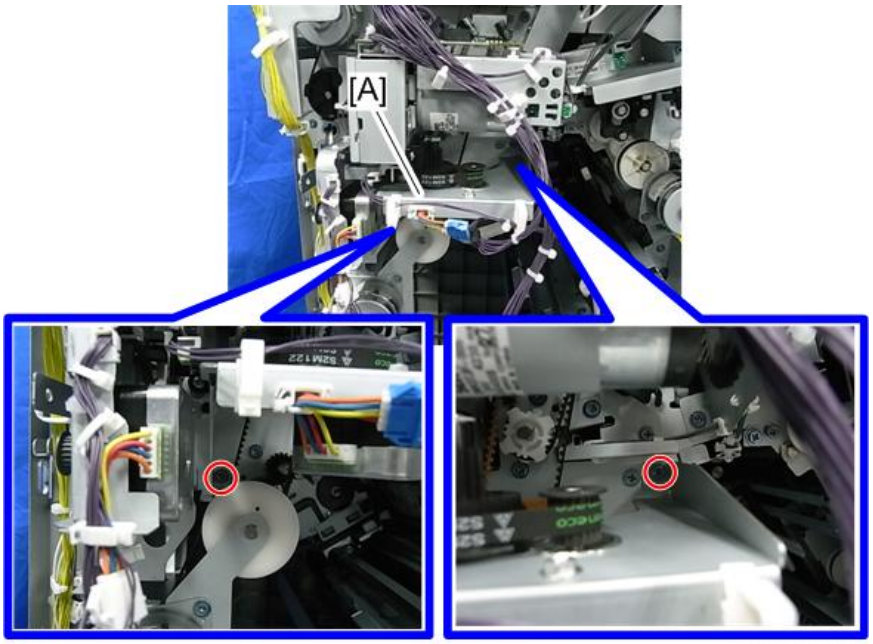


d7060029

- Front

d7060030

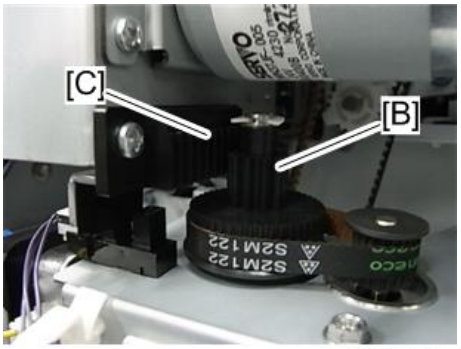
13. Attach the punch unit movement motor unit [A]. (×2)



d7060031

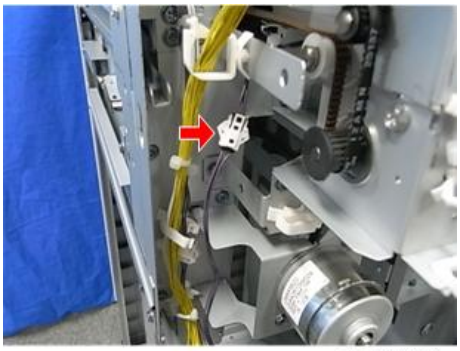
Note

- Engage the gear [B] of the punch unit movement motor unit with the rack [C] of the punch unit.



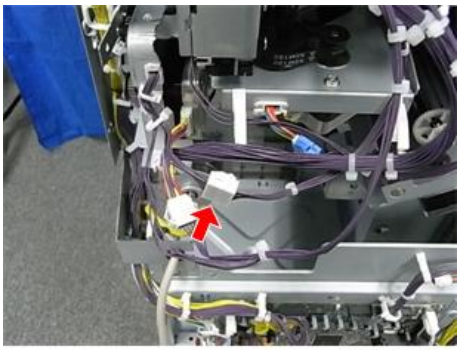
d7060032

14. Connect the harness of the hopper sensor to the connector of the finisher.



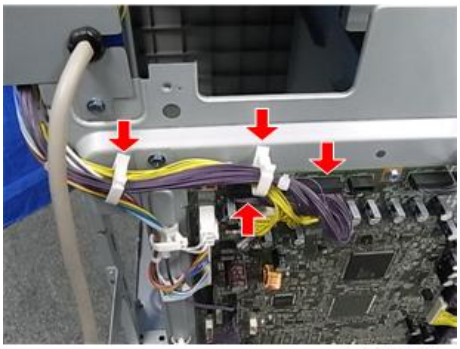
d7060033

15. Connect the harness of the punch unit to the connector of the registration drive unit.



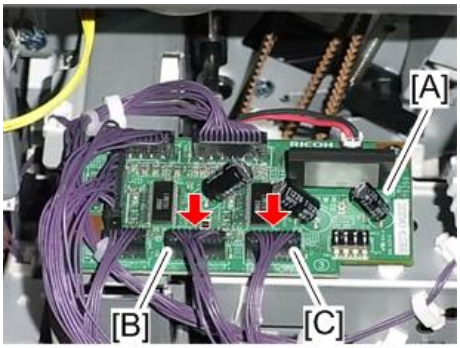
d7060034

16. Connect the harness of the punch unit to the main board, and then clamp it. (×2, ×2)



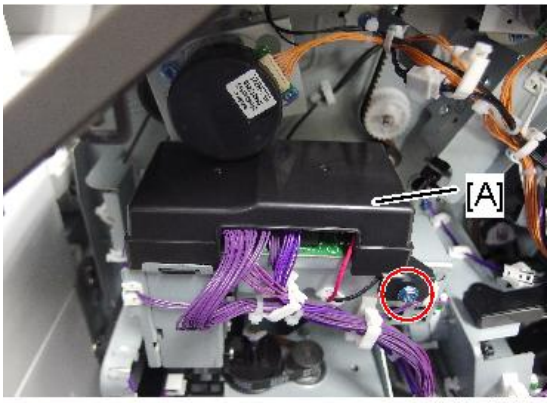
d7060035

17. Connect the harness [B] of the punch unit movement motor unit and the harness [C] of the side-to-side detection unit to the punch unit board [A].



d7060036

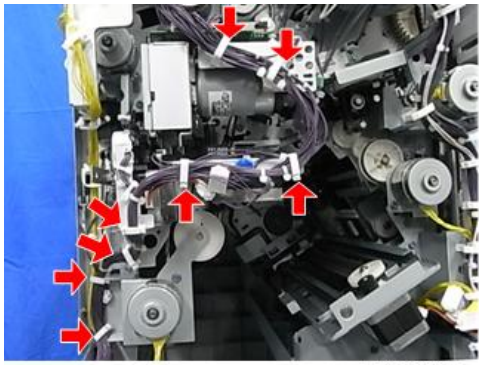
18. Attach the supplied cover [A] to the punch unit board.



x1

d238m0814

19. Clamp all the harnesses of the punch unit PU3060. (×8)



d7060037

20. Attach the hopper [A].

d7060038

21. Attach the rear upper cover, the rear lower cover, the inner cover, and the punch guide plate.

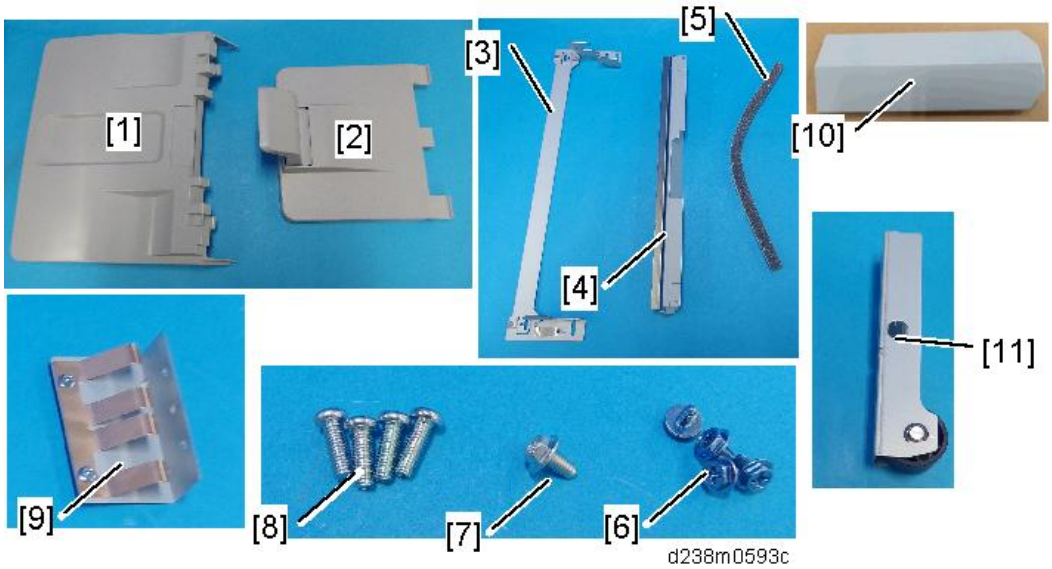
Booklet Finisher SR3220 (D3B9-17, -21)

Important

- To install this optional unit, the following optional units are required.
  1. Bridge Unit BU3070 (D685), or Internal Multi-fold Unit FD3000 (M482)
  2. LCIT PB3260 (M496), or Paper Feed Unit PB3240 (M494)

Accessory Check

No.	Description	Q'ty	Remarks
1	Shift Tray	1	
2	Booklet Tray	1	
3	Joint Bracket	1	
4	Relay Guide Plate	1	
5	Cushion	1	
6	Tapping screws - M3 × 6	4	
7	Tapping screw - M4 × 8	1	
8	Screws - M4 × 12	4	
9	Ground Plate	1	
10	Proof Support Tray	1	
11	Stabilizer	1	This part must be attached to the finisher just after it is taken out of the shipping box.



Installation Procedure

⚠CAUTION

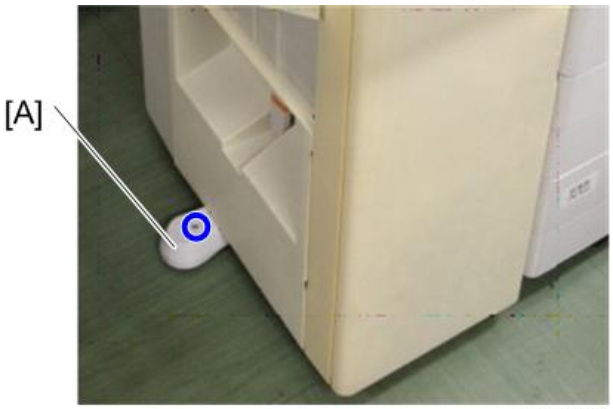
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

- Before installing this option, install the following options first;

1. Bridge Unit BU3070 (D685), or Internal Multi-fold Unit FD3000 (M482)
2. LCIT PB3260 (M496), or Paper Feed Unit PB3240 (M494)

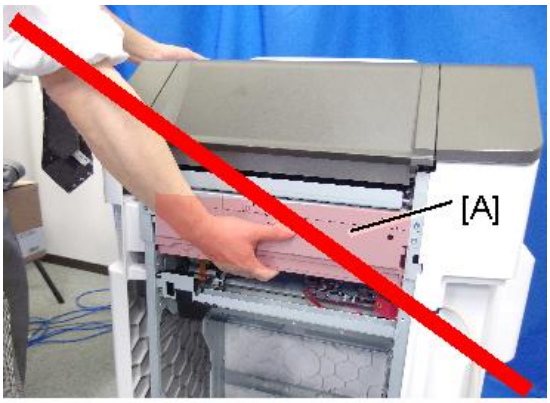
- This finisher is light and has a high center of gravity, so it easily topples when installing or moving it. Therefore, it is equipped with the stabilizer [A] attached to it when shipped.



d1463221

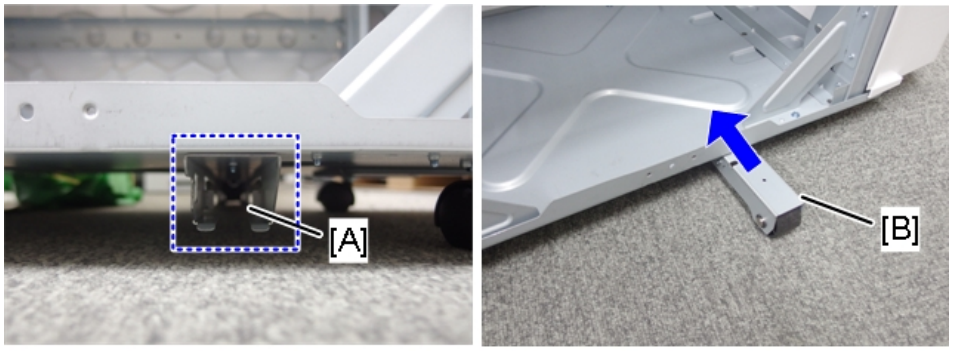
Important

- When you lift the finisher at the time of unpacking, do not hold the part [A]. Doing so may damage the frame.



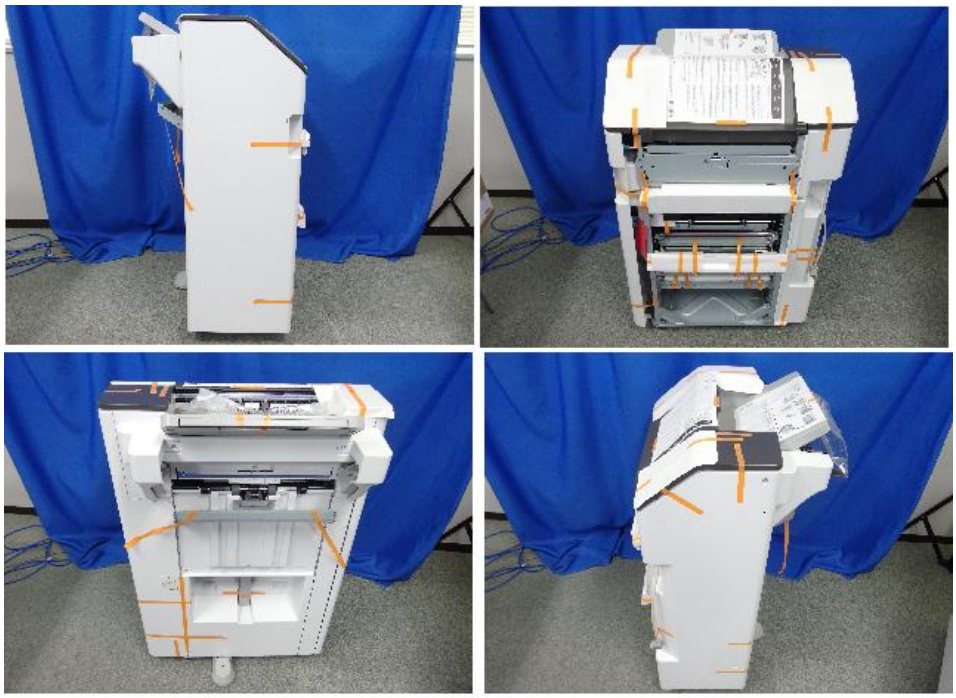
d238m0601b

1. After unpacking, immediately attach the stabilizer [B] to prevent toppling.
Attach it along the guide rail [A] and push it in all the way, until it clicks.



m0ajm0201

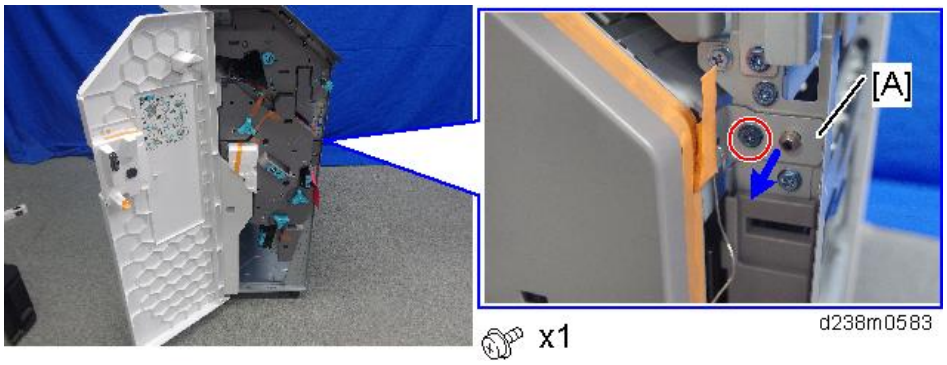
2. Remove the external orange tape and the shipping retainers.



d238m0584b

3. Open the front cover, and then remove the orange tapes and packing materials.

4. Remove the fixing bracket [A].



d238m0583

5. Pull out the saddle stitch unit [A], and remove the filament tape and packing materials.

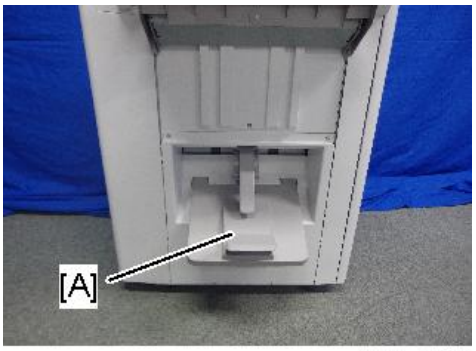
d1462528

6. Remove the accessories in the package (fixing screws, etc.).

7. Attach the shift tray [A] (×1: M4 × 8).

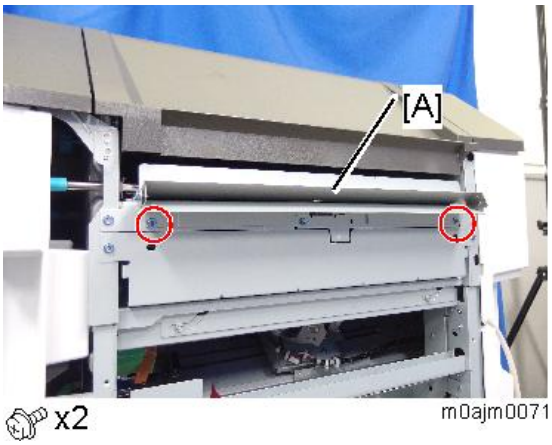
d1462529

8. Attach the booklet tray [A].



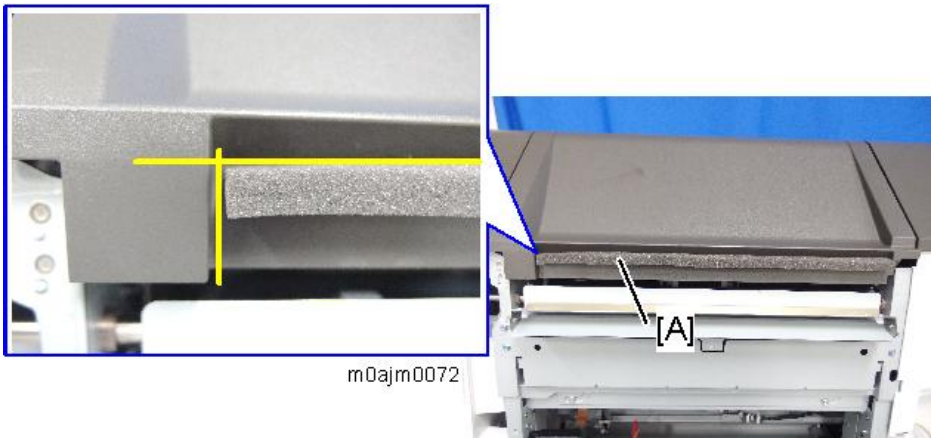
d238m0580

9. Attach the relay guide plate [A].



10. Clean the right side of the upper cover with a cloth moistened with alcohol, and then attach the cushion to the finisher.

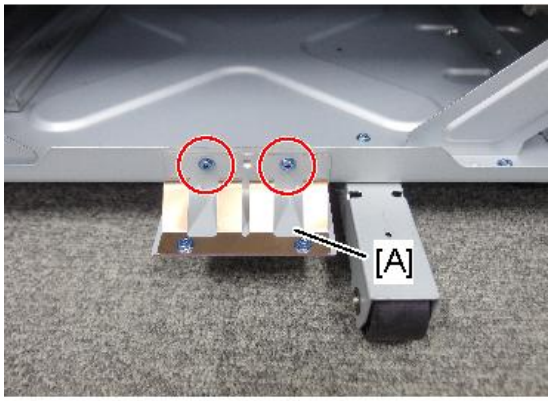
- Make sure that the cushion is aligned with the left-upper edge [A] of the upper cover.



Important

If the internal multi-fold unit is installed on the main machine, cut off the section of the cushion indicated by the notch so that the cushion does not interfere with the I/F connector [A] of the finisher.

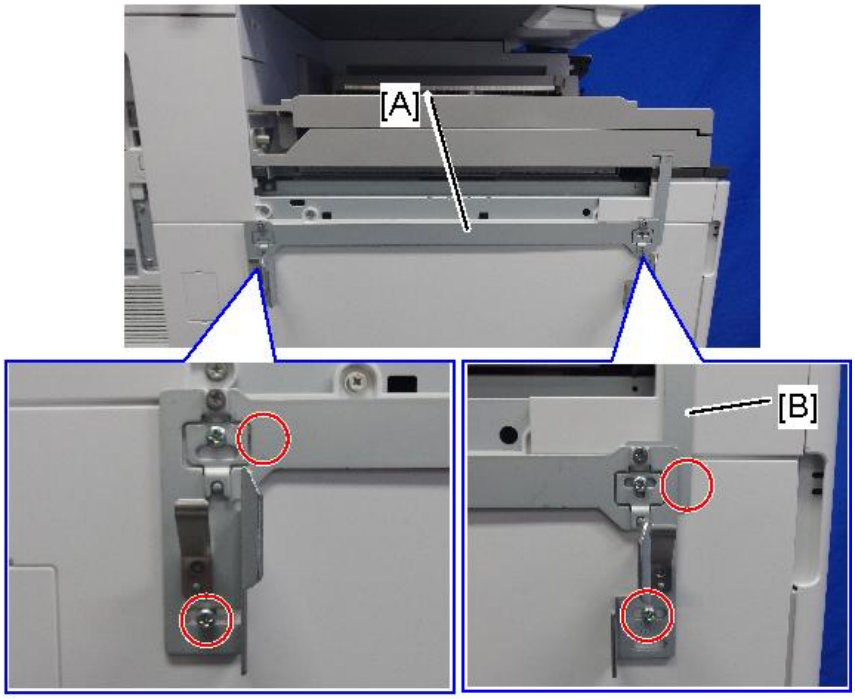
11. Attach the ground plate [A] (M3x6).



x2 m0ajm0075

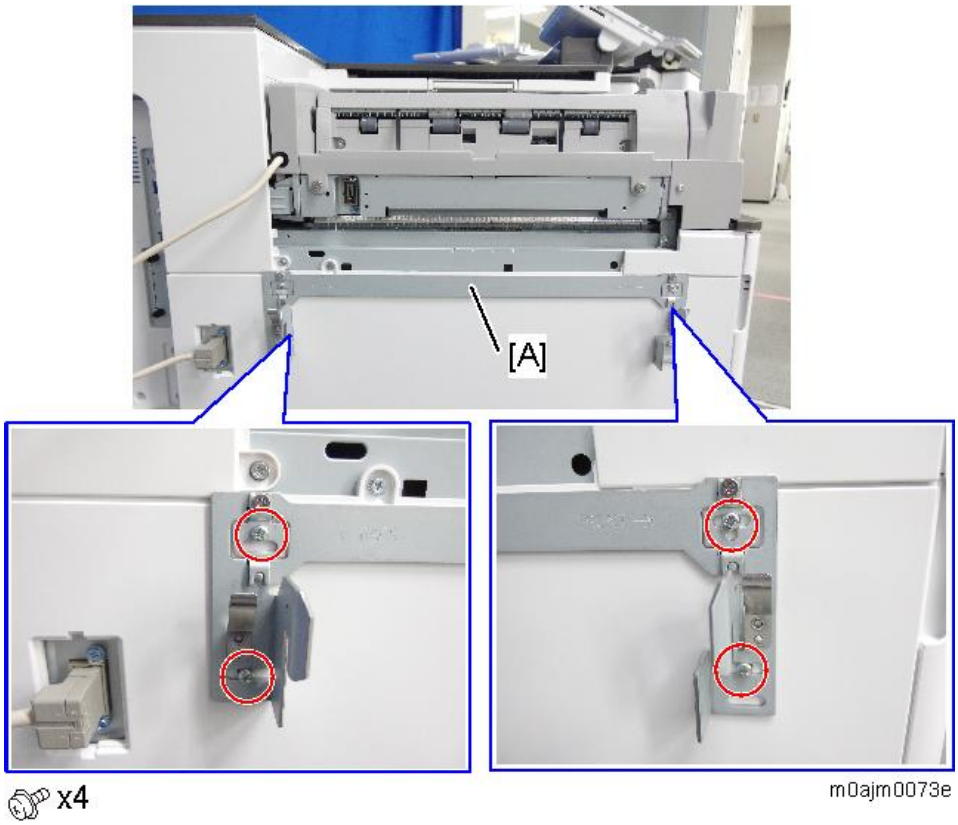
12. Attach the joint bracket [A] to the main machine (M4x12).

If the machine is equipped with the bridge unit, attach the joint bracket [A] together with the L type connecting bracket [B] of the bridge unit.



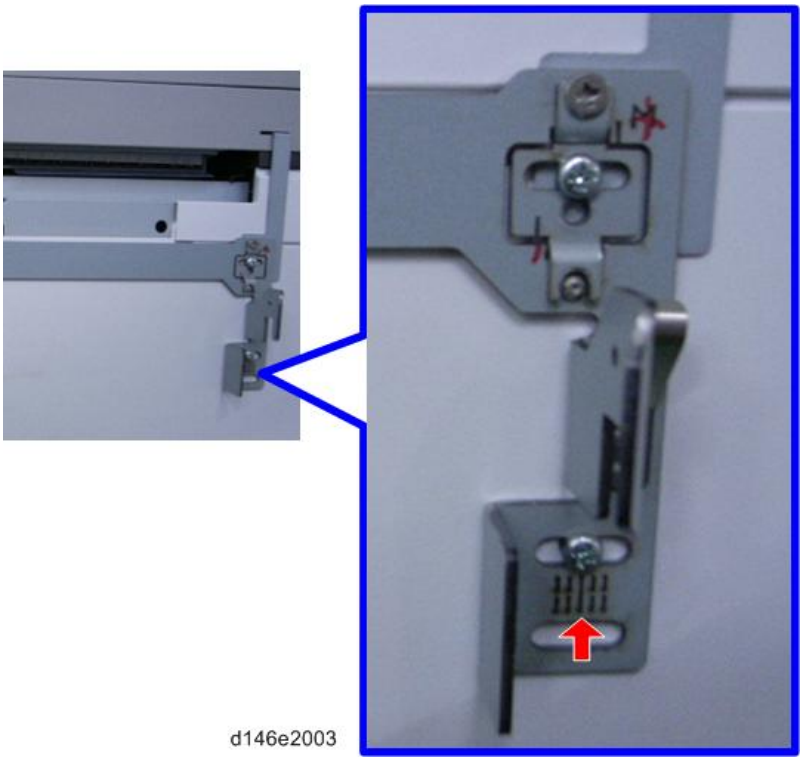
x4 d238m0581e

If the machine is equipped with the internal multi-fold unit, attach the joint bracket [A] only.

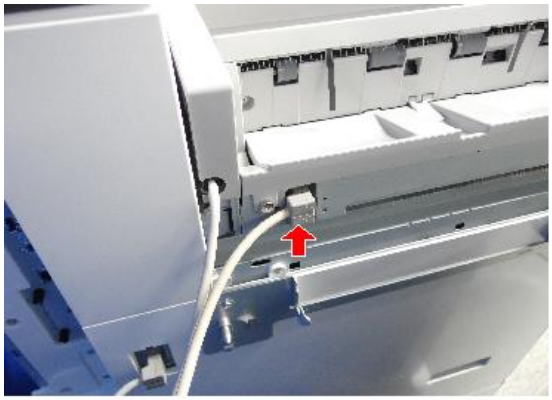


Note

- Attach the screw so that the screw head is at the center of the mark.



13. If the internal multi-fold unit is installed, connect the finisher cable to the connector on the internal multi-fold unit.



m0ajm0068

14. Remove the screw on the connection lever [A] and pull the lever.

x1

d238m0582f

15. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit.

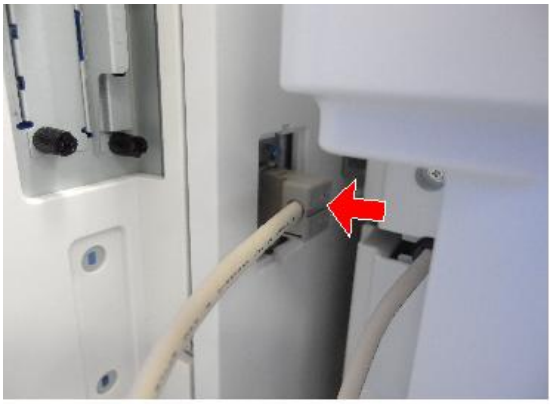
x1

d238m0595f

If the internal multi-fold unit is installed, make sure that the finisher's 2 cables are not crossing each other before you connect the finisher.

m0ajm0074

16. Connect the interface cable to the machine (only when the bridge unit is installed).



m0ajm0069

17. Close the front cover.

18. Turn ON the main power.

19. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper (Troubleshooting for Finishing Options).

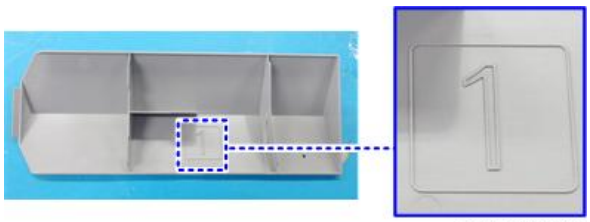
20. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

Attaching a Proof Support Tray

Explain the following information to the users.

The sensor may detect that the exit tray is full prematurely when delivering z-folded sheets or curled paper to the tray.

If a message reporting a full paper exit tray appears, the job is suspended until the paper is removed from the paper exit tray. By attaching a support tray, you can prevent the premature full detection.



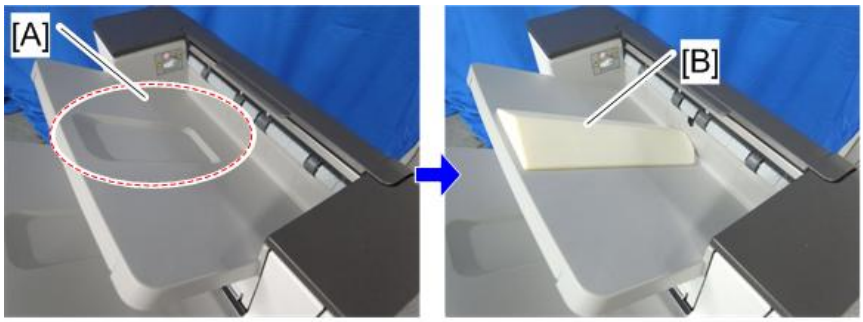
m0ajm0215b

Proof Support Tray ("1" marked on the back), provided with this finisher

When using B4, LG or larger paper, or when using limp paper, the sheet may become kinked, resulting in premature full detection.

d1826009

This can be solved by attaching the proof support tray [B] on the proof tray [A].



d1826010

Problem that may occur after attaching this support tray:

When printing A4, LT or smaller paper with the support tray, the machine stacks only 200 sheets, which is less than the standard specification of 250 sheets.

When printing B4, LG or larger paper with the support tray, the machine stacks 50 sheets, which is the same as the standard specification.

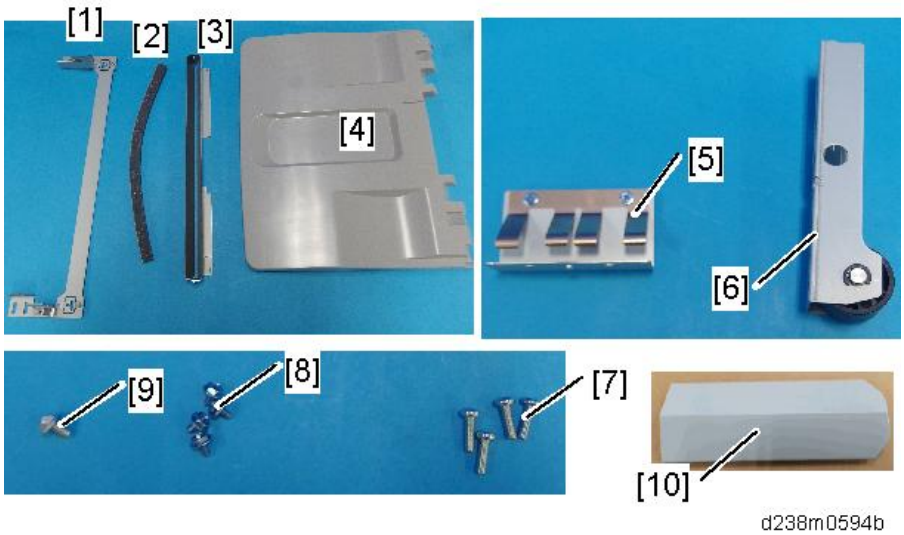
Finisher SR3210 (D3B8-17, -21)

Important

- To install this optional unit, the following optional units are required.
  1. Bridge Unit BU3070 (D685), or Internal Multi-fold Unit FD3000 (M482)
  2. LCIT PB3260 (M496), or Paper Feed Unit PB3240 (M494)

Accessory Check

No.	Description	Q'ty	Remarks
1	Joint Bracket	1	
2	Cushion	1	
3	Relay Guide Plate	1	
4	Shift Tray	1	
5	Ground Plate	1	
6	Stabilizer	1	This part must be attached to the finisher just after it is taken out of the shipping box.
7	Screws - M4 × 12	4	
8	Tapping screws - M3 × 6	4	
9	Tapping screw - M4 × 8	1	
10	Proof Support Tray	1	
-	Installation Instruction for stabilizer	1	



Installation Procedure

⚠CAUTION

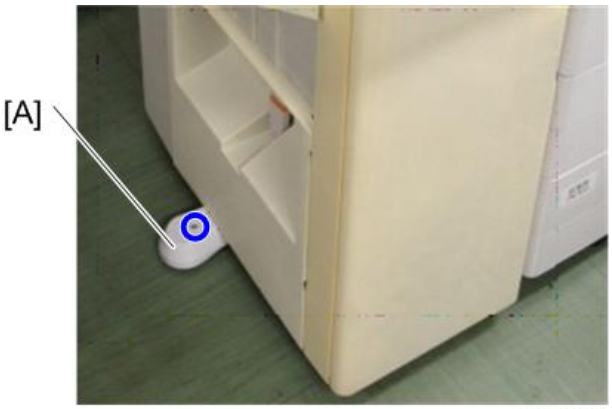
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

- Before installing this option, install the following options first;

1. Bridge Unit BU3070 (D685), or Internal Multi-fold Unit FD3000 (M482)
2. LCIT PB3260 (M496), or Paper Feed Unit PB3240 (M494)

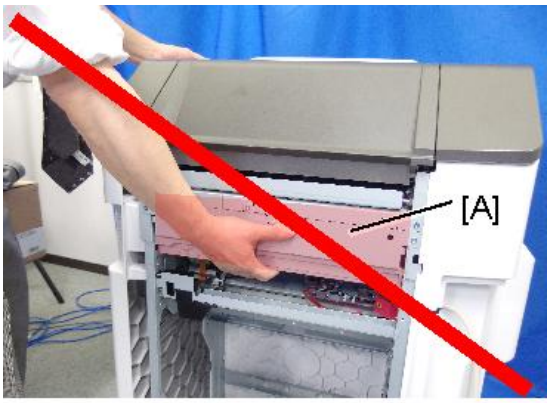
- This finisher is light and has a high center of gravity, so it easily topples when installing or moving it. Therefore, it is equipped with the stabilizer [A] attached to it when shipped.



d1463221

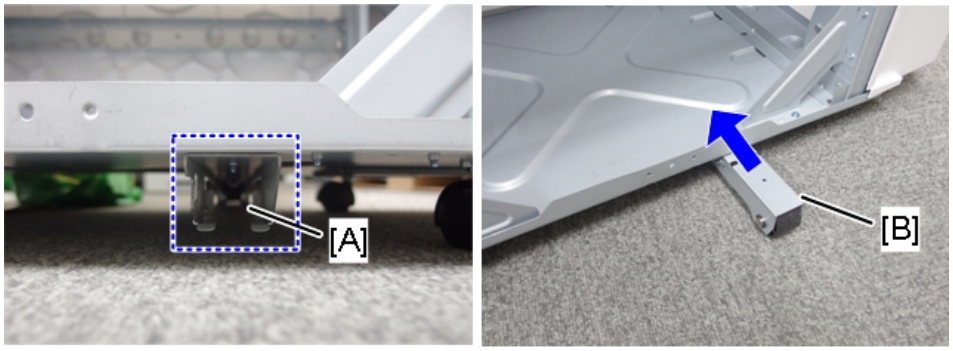
Important

- When you lift the finisher at the time of unpacking, do not hold the part [A]. Doing so may damage the frame.



d238m0601b

1. After unpacking, immediately attach the stabilizer [B] to prevent toppling.
Push it in thoroughly along the guide [A] until it clicks.

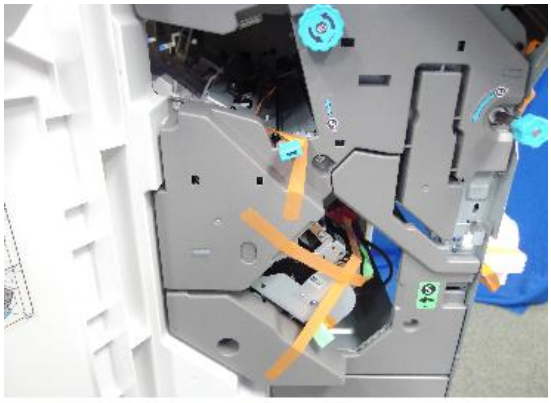


m0ajm0201

2. Remove the external orange tape and shipping retainers.

d238m0585b

3. Open the front cover, and then remove the orange tapes and shipping retainers.

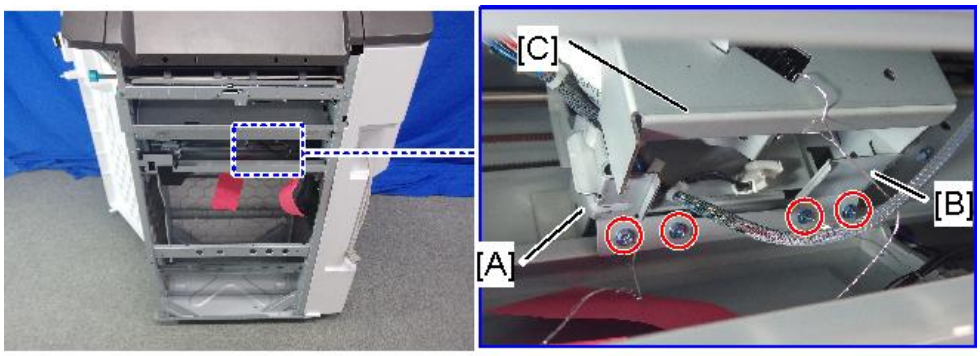


d238m0586b

4. Remove the accessories in the package (fixing screws, etc.).

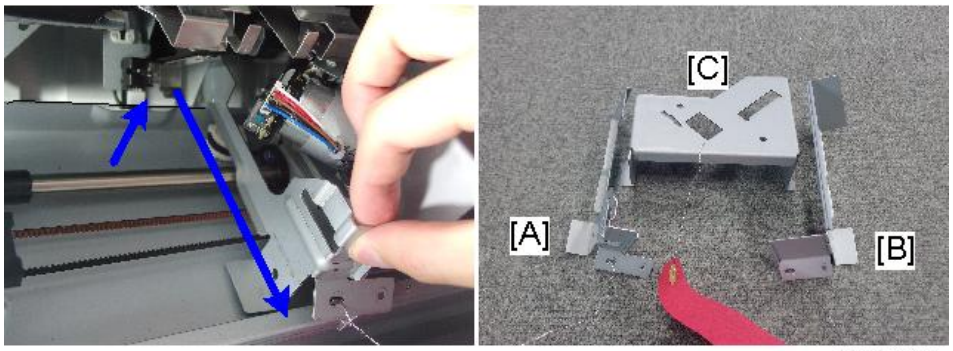
5. Remove the fixing brackets of the stapleless stapler unit.

Remove the fixing brackets in the order of [A], [B], and [C].



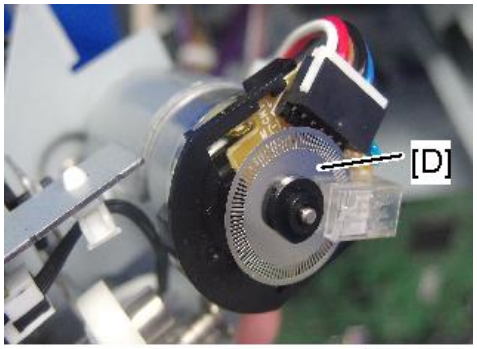
d238m587

The fixing brackets are hooked onto a metal plate, so lift them slightly and then remove them.



d238m588

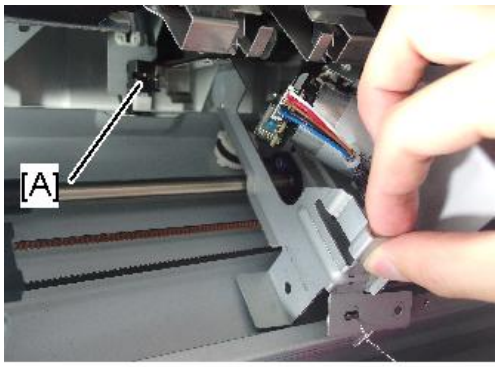
Be careful not to touch the encoder [D] at the back of the motor.



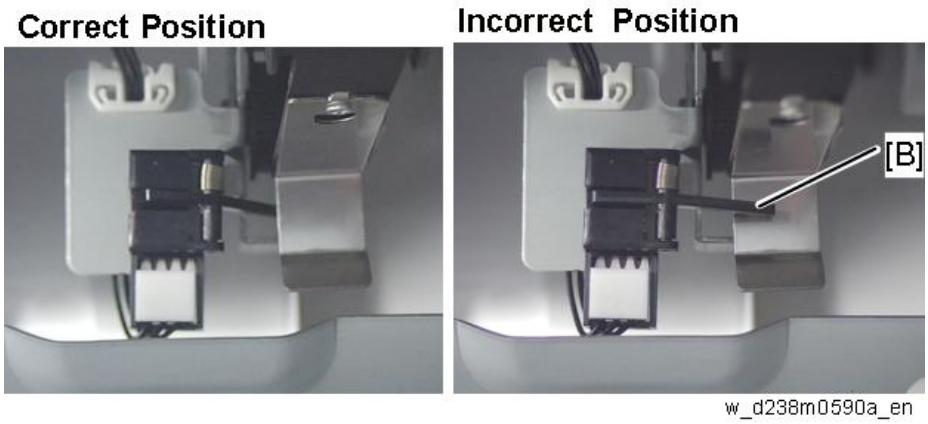
d238m0807

Be careful so that the fixing brackets do not come into contact with the feedout pawl HP sensor [A].

If they come into contact, check that the feeler [B] for the feedout pawl HP sensor is positioned correctly.

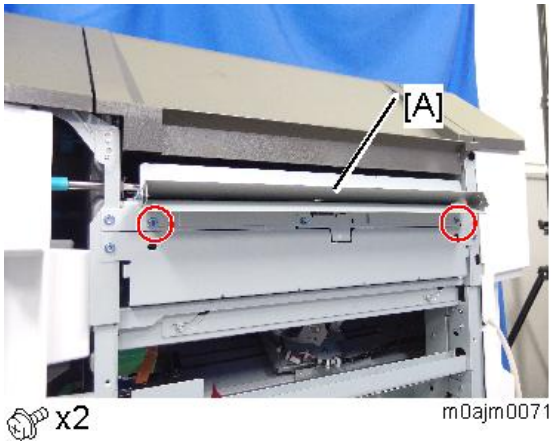


d238m589



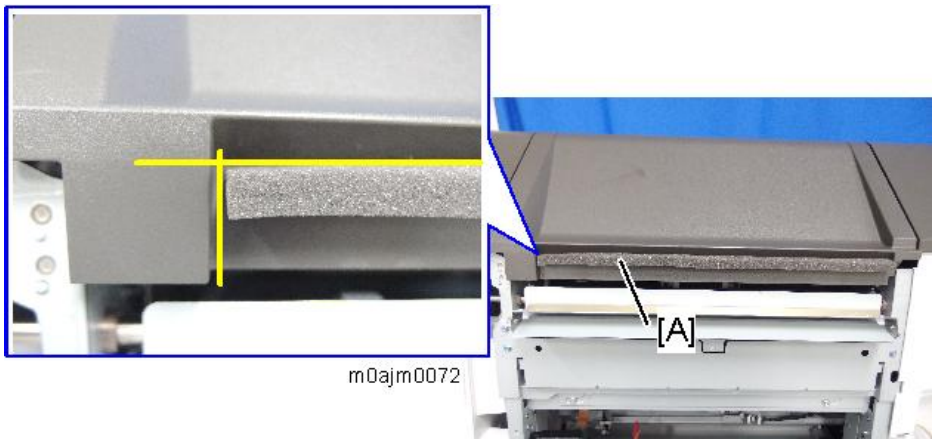
6. Attach the shift tray [A] (×1: M4 × 8).

7. Attach the relay guide plate [A].



8. Clean the right side of the upper cover with a cloth moistened with alcohol, and then attach the cushion to the finisher.

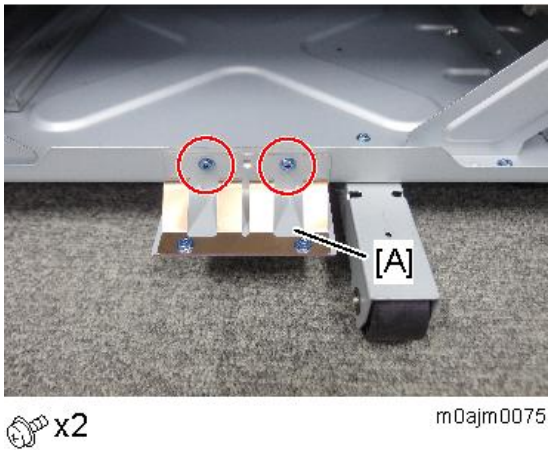
- Make sure that the cushion is aligned with the left-upper edge [A] of the upper cover.



Important

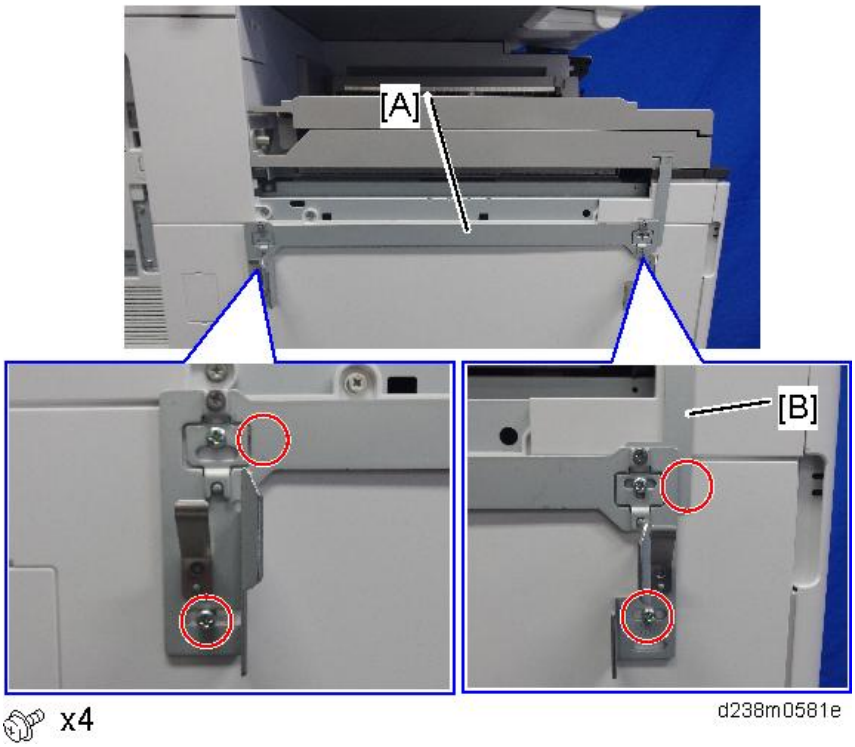
If the internal multi-fold unit is installed on the main machine, cut off the section of the cushion indicated by the notch so that the cushion does not interfere with the I/F connector [A] of the finisher.

9. Attach the ground plate [A] (M3×6).

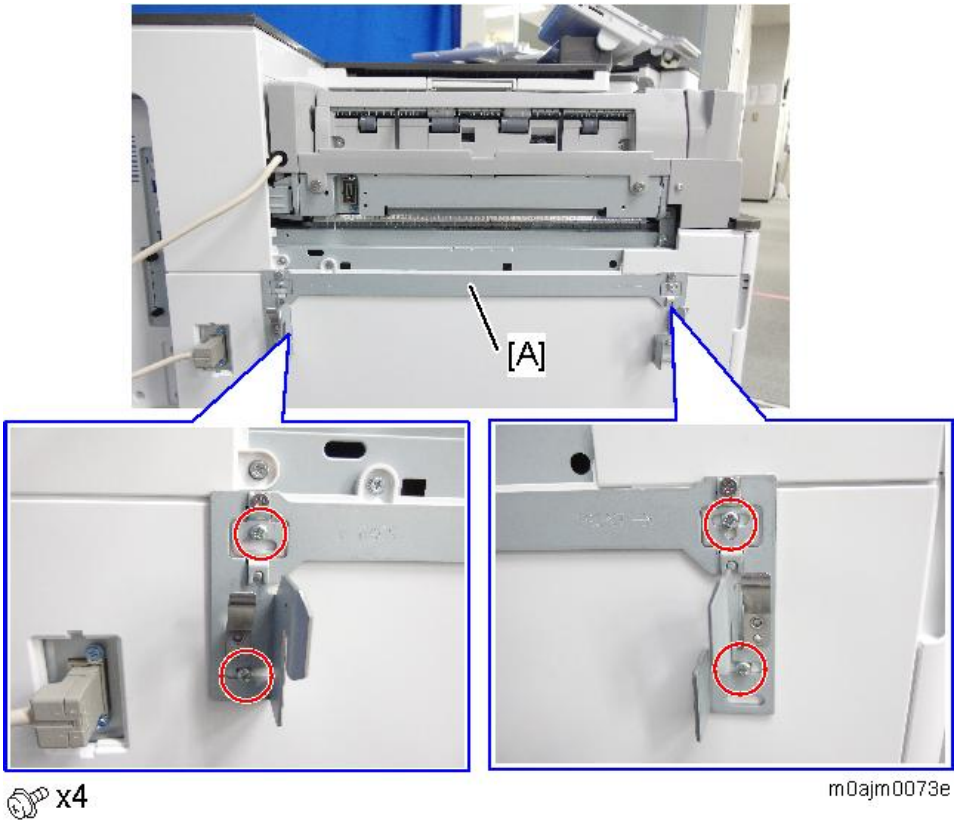


10. Attach the joint bracket [A] to the main machine (M4x12).

If the machine is equipped with the bridge unit, attach the joint bracket [A] together with the L type connecting bracket [B] of the bridge unit.

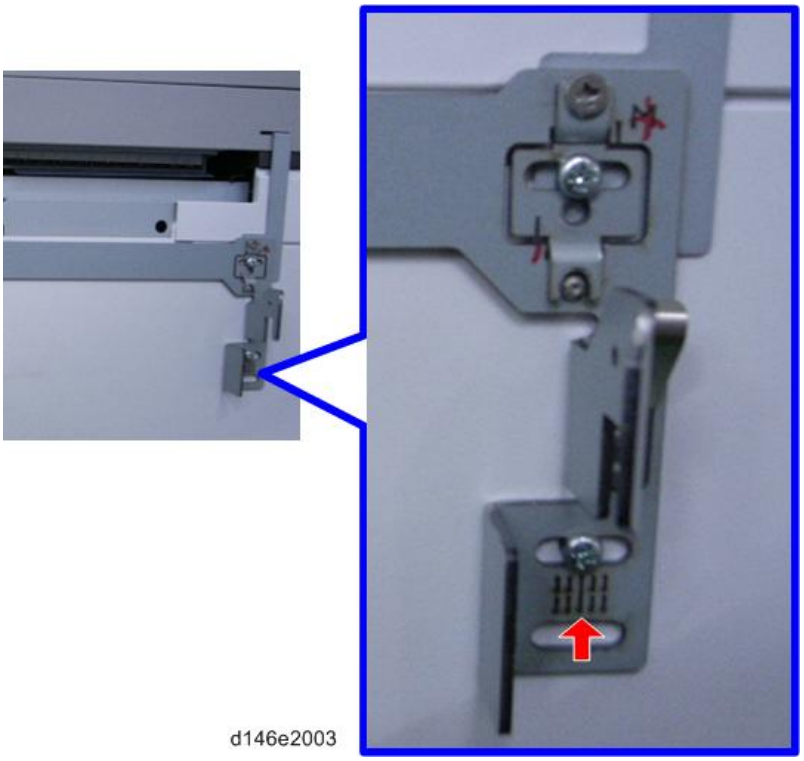


If the machine is equipped with the internal multi-fold unit, attach the joint bracket [A] only.

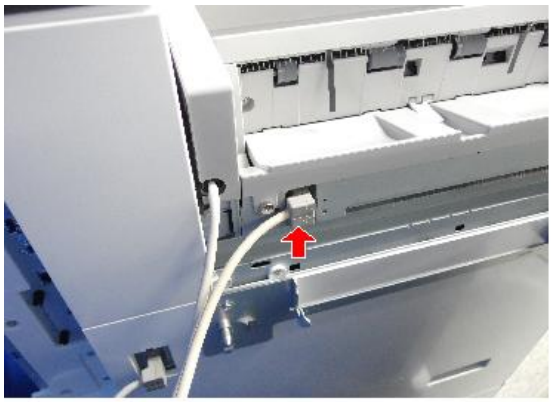


Note

- Attach the screw so that the screw head is at the center of the mark.

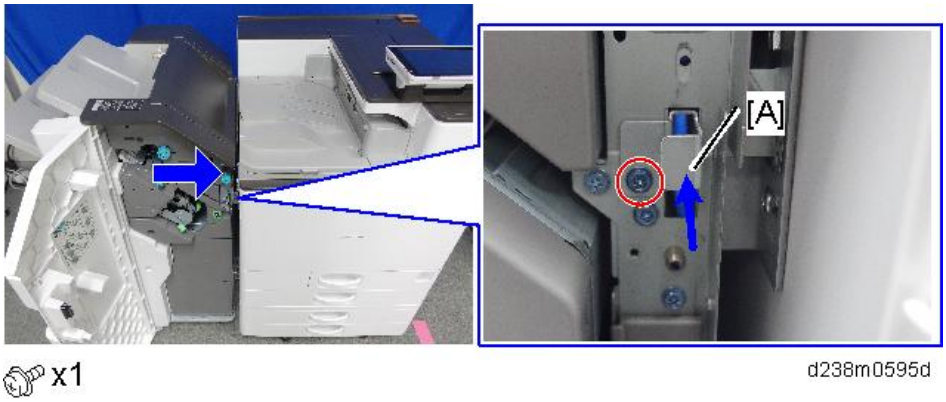


11. If the internal multi-fold unit is installed, connect the finisher cable to the connector on the internal multi-fold unit.



12. Remove the screw on the connection lever [A] and pull the lever.

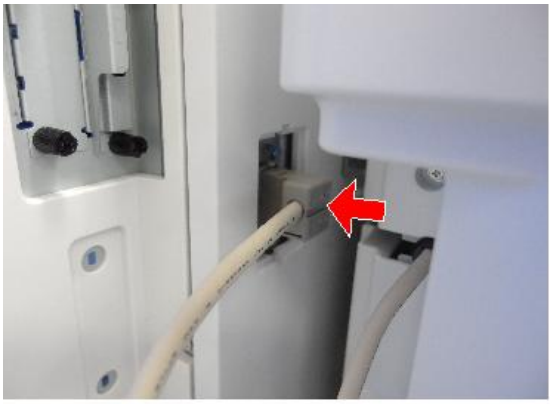
13. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit.



If the internal multi-fold unit is installed, make sure that the finisher's 2 cables are not crossing each other before you connect the finisher.

m0ajm0074

14. Connect the interface cable to the machine (only when the bridge unit is installed).



m0ajm0069

15. Close the front cover.

16. Turn ON the main power.

17. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper (Troubleshooting for Finishing Options).

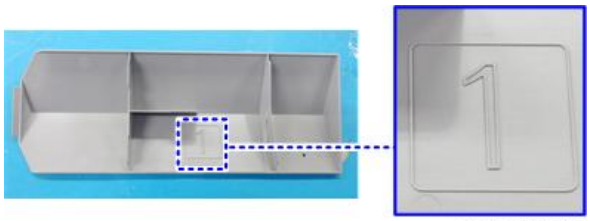
18. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

Attaching a Proof Support Tray

Explain the following information to the users.

The sensor may detect that the exit tray is full prematurely when delivering z-folded sheets or curled paper to the tray.

If a message reporting a full paper exit tray appears, the job is suspended until the paper is removed from the paper exit tray. By attaching a support tray, you can prevent the premature full detection.



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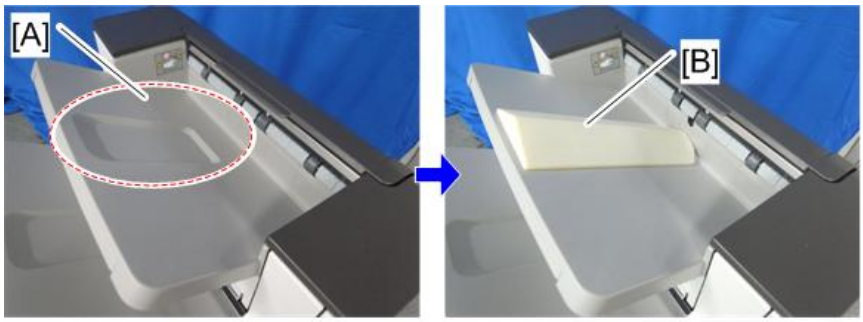
Proof Support Tray ("1" marked on the back), provided with this finisher

When using B4, LG or larger paper, or when using limp paper, the sheet may become kinked, resulting in premature full detection.

d1826009

This can be solved by attaching the proof support tray [B] on the proof tray [A].



d1826010

Problem that may occur after attaching this support tray:

When printing A4, LT or smaller paper with the support tray, the machine stacks only 200 sheets, which is less than the standard specification of 250 sheets.

When printing B4, LG or larger paper with the support tray, the machine stacks 50 sheets, which is the same as the standard specification.

Stapleless Stapler Initial Settings

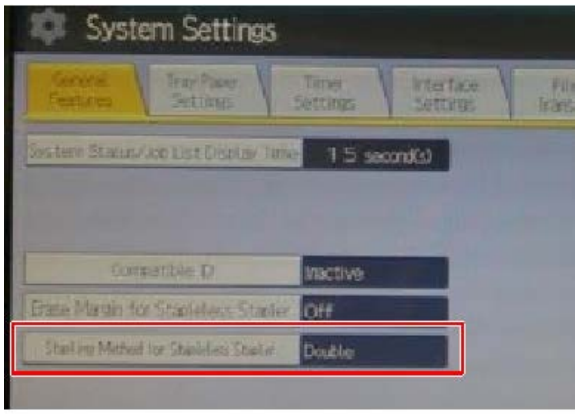
Note

- To adjust the strength of the crimp between sheets of stapled paper, there is a setting to select either single or double stapling.
- The crimp is weakened when there is an image (toner) at the point which is to be stapled. There also is a setting to mask the image on the point for stapling, in order to prevent the crimp from being weakened.
- Depending on users demands, explain the settings/methods of the settings by checking the following instructions.

How to change the setting of Staple Method for Stapleless Stapler

Use this procedure to select the type of stapling that is done by the stapleless stapler.

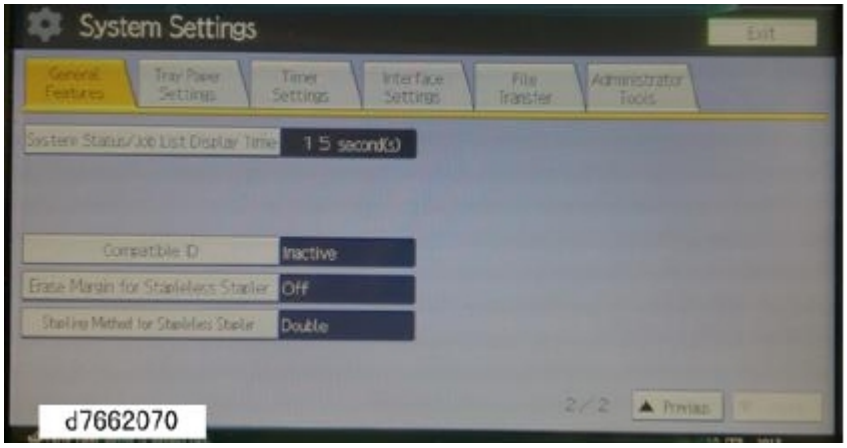
1. Press the [User Tools] icon on Home screen.
2. Press [Machine Features] > [System Settings] > [General Settings] > [Stapling Method for Stapleless Stapler].
3. Select [Double] or [Single].



d7665070a

How to set Margin Erase for Stapleless Stapler

1. Press the [User Tools] icon.
2. Press [Machine Features] > [System Setting] > [General Setting].
3. Press [Erase Margin for Stapleless Stapler].



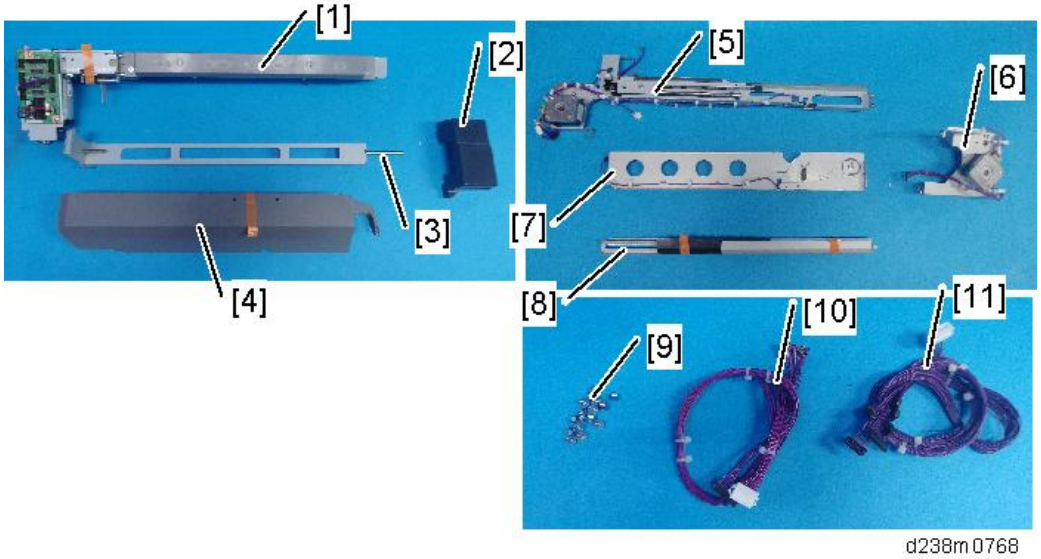
Punch Unit PU3050

Note

- This Punch Unit is for the Booklet Finisher SR3220 (D3B9)/Finisher SR3210 (D3B8).

Accessory Check

No.	Description	Q'ty	Remarks
1	Punch unit	1	
2	Cover	1	
3	Stay	1	
4	Hopper	1	
5	Side-to-side detection unit	1	
6	Punch unit movement motor unit	1	
7	Hopper guide plate	1	
8	Guide plate	1	
9	Tapping screws - M3 × 6	16	
10	Harness (Short)	1	Used for SR3220
11	Harness (Long)	1	Used for SR3210



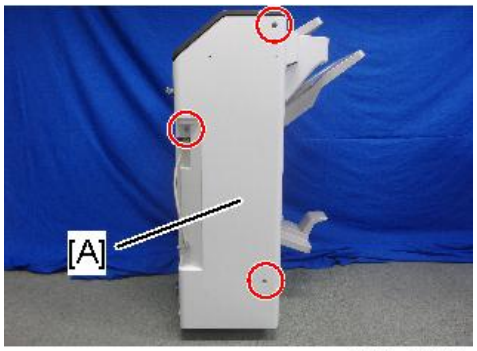
Installation Procedure

CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

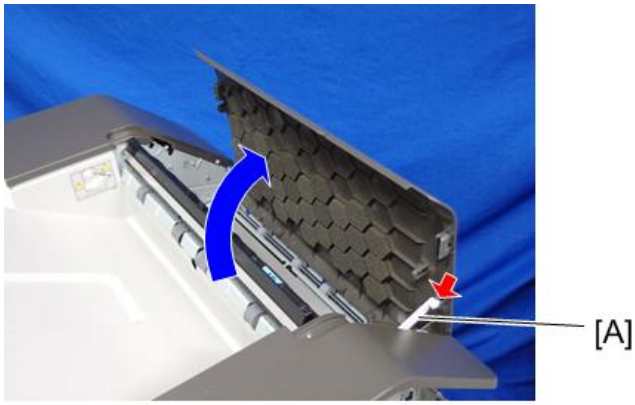
1. Take out of the box, and remove the orange tape and shipping retainers.
2. Pull out the finisher interface cable, and move it away from the machine.

3. Remove the finisher rear cover [A] (×3).



d238m0769

4. Open the top cover, and then remove the arm [A] (×1).

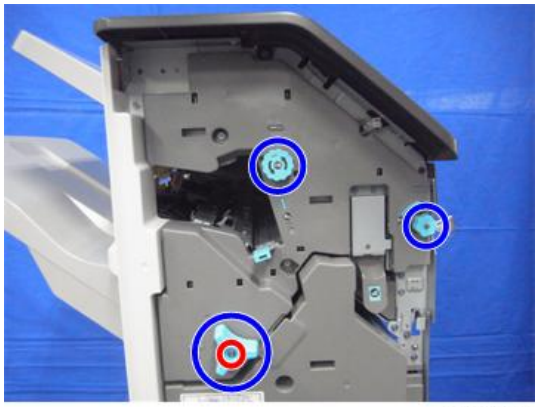


d238m1399

5. Open the finisher front cover, and remove the three knobs (x1).

Note

- Knobs with a lock mechanism are removed using a knob screwdriver or similar while releasing the lock.



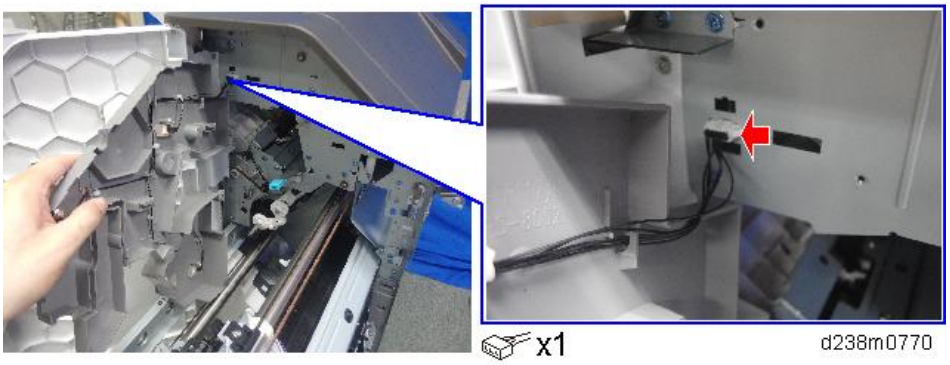
d6873232

6. Pull the saddle stitch unit [A] or stapling unit.

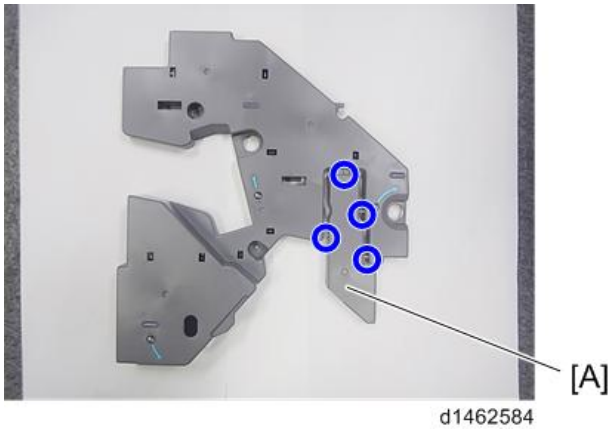
7. Remove the finisher inner cover [A] (×3)

Note

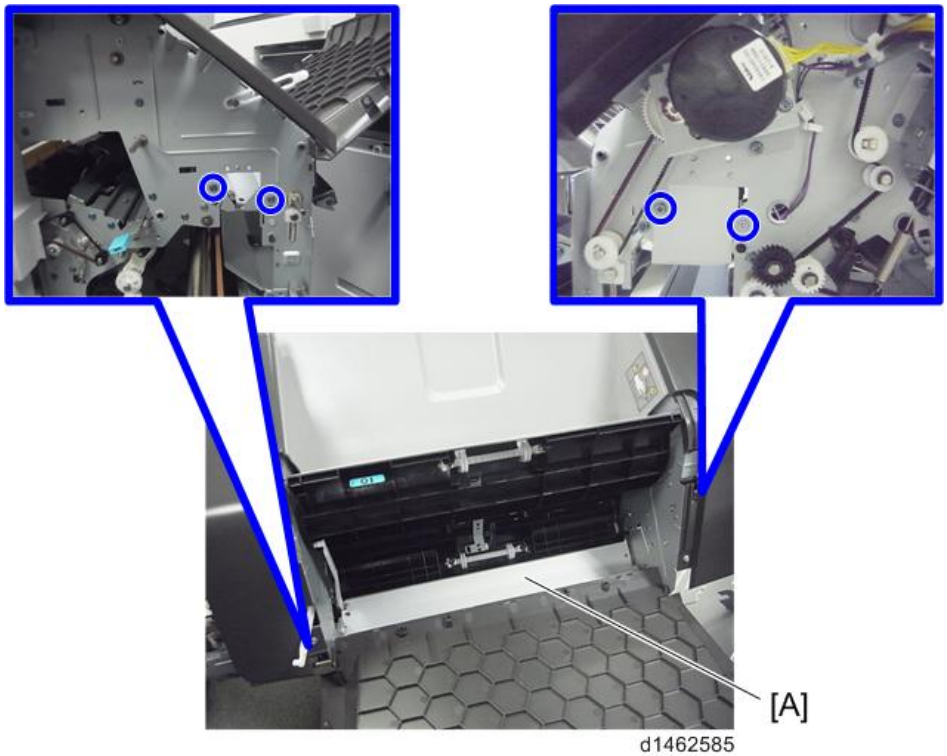
- Disconnect the connector at the back of the inner cover.



8. Cut off part of the finisher inner cover [A].

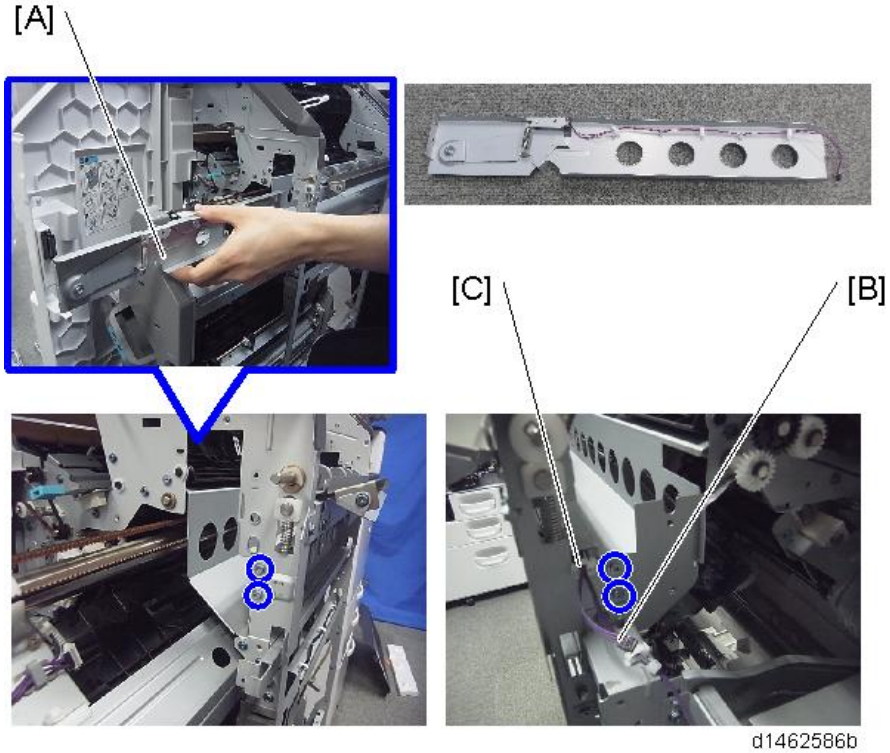


9. Remove the guide plate [A] (×4).



10. Insert and attach the hopper guide plate [A] from the front (×4).

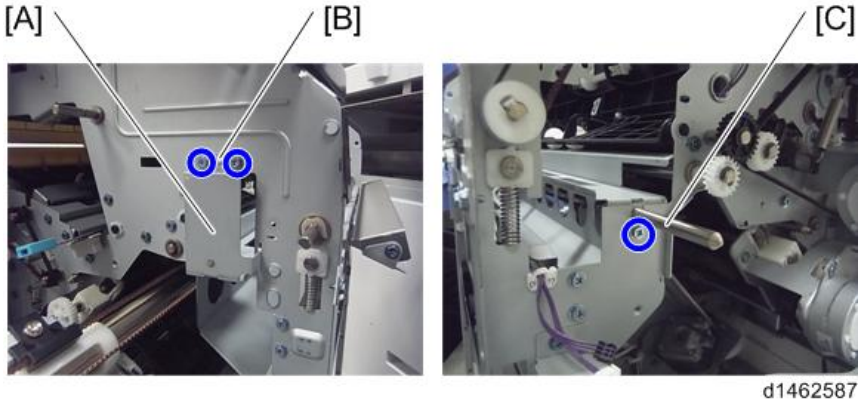
At this time, pass the harness [B] through the clamp [C].



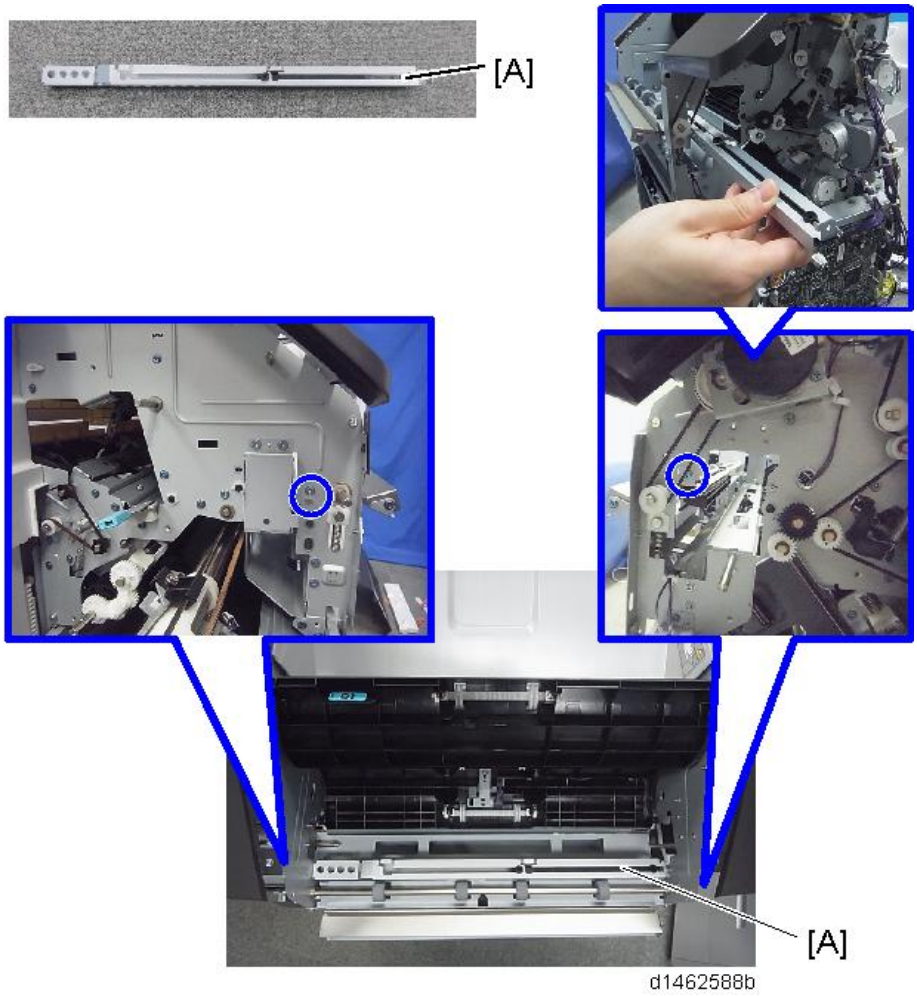
11. Attach the stay [A] (×3).

Front [B]: Insert the holes in the stay over the embossed parts on the finisher.

Rear [C]: Place the axis of the stay through the notch in the finisher.

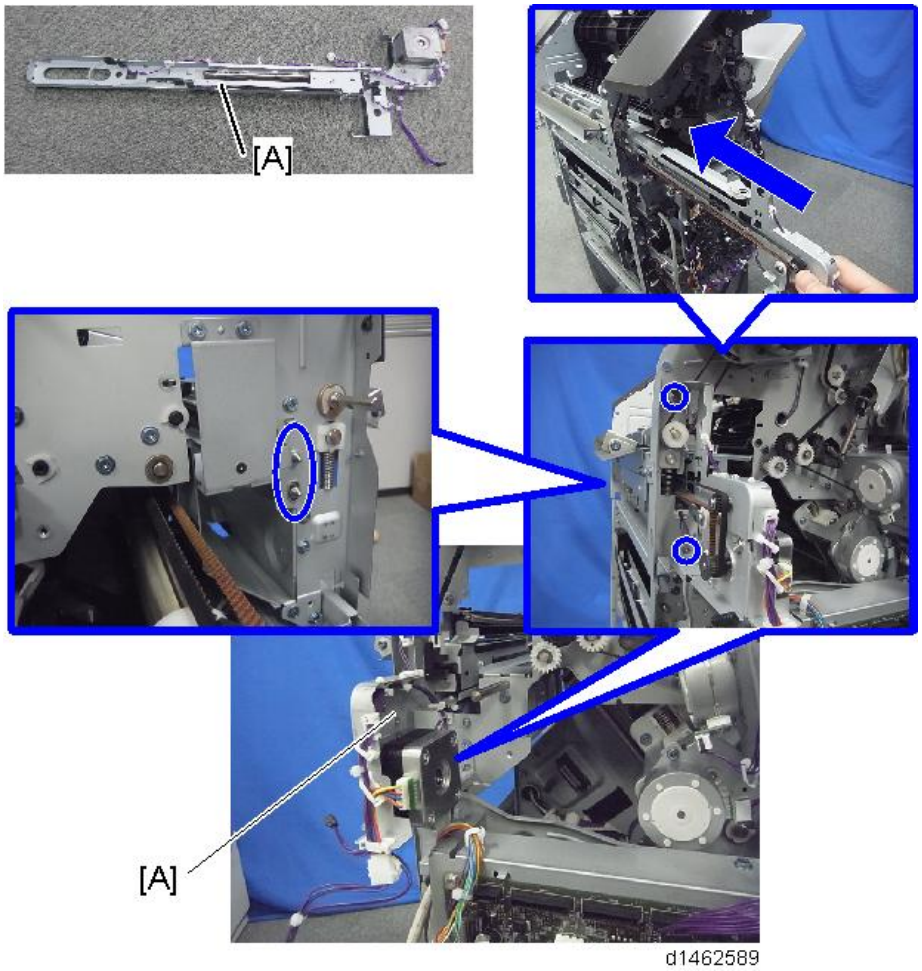


12. Insert and attach the guide plate [A] from the rear (✆×2).

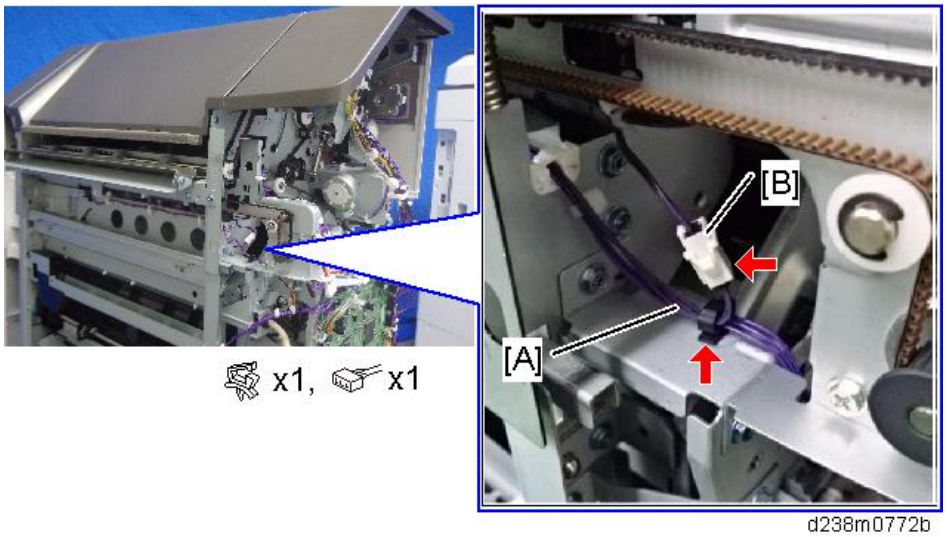


13. Insert and attach the side-to-side detection unit [A] from the rear (✆×2).

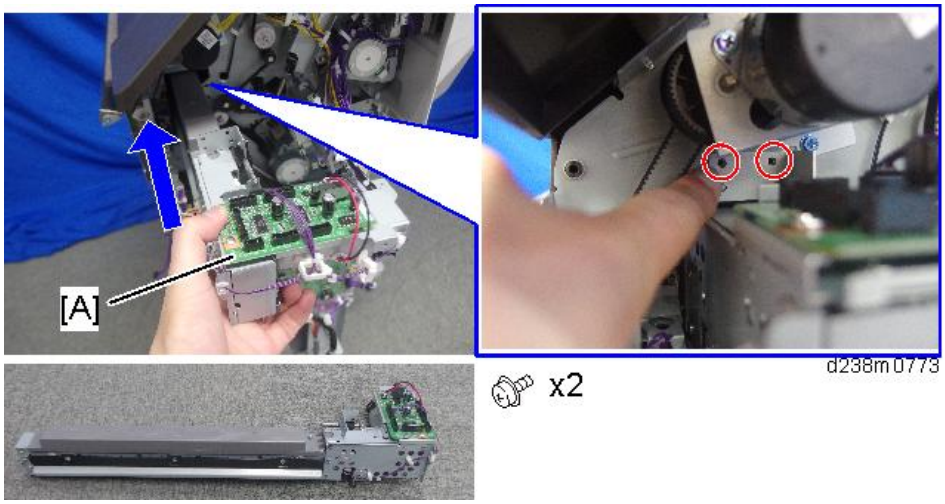
Front: The two shafts of the unit are passed through bearings in the finisher.



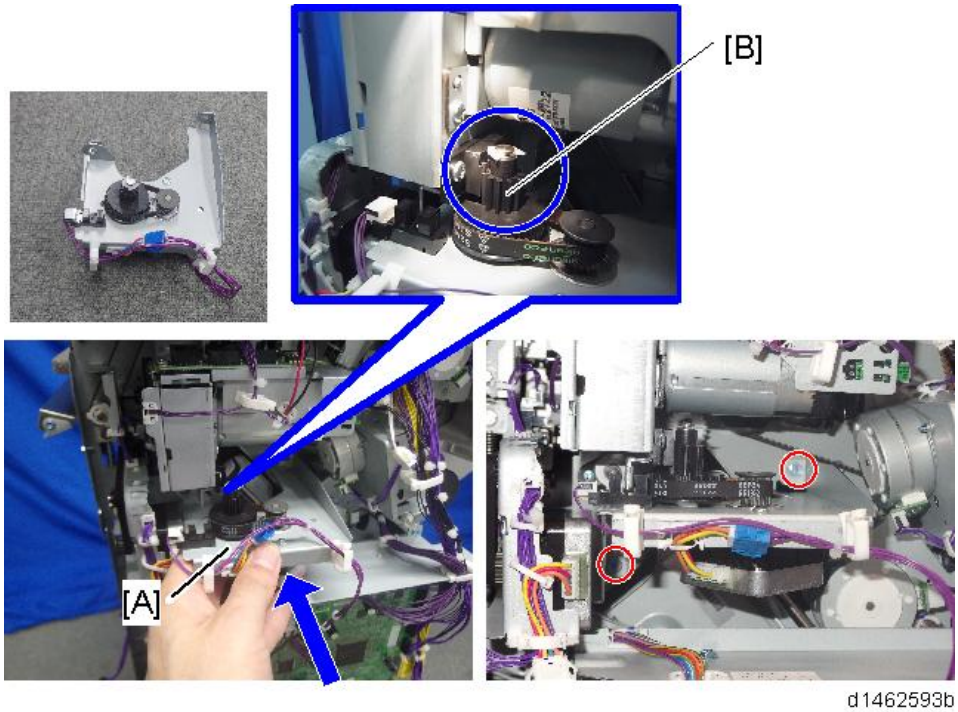
14. Connect the harness [A] of the hopper guide plate to the relay connector [B] of the side-to-side detection unit, and then clamp the harness.



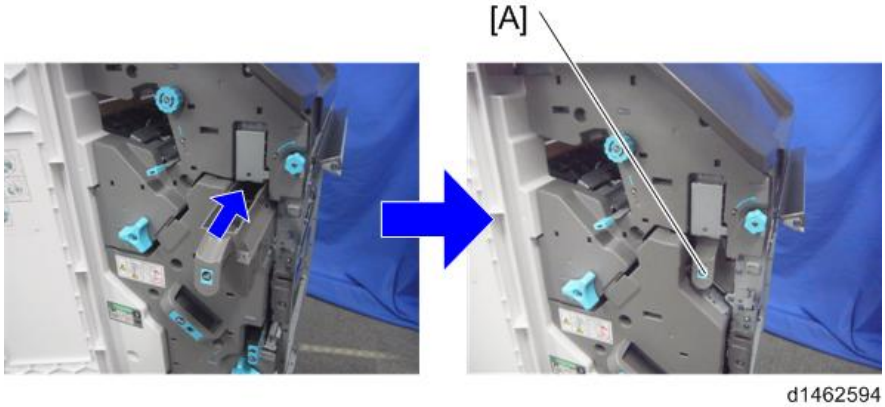
15. Insert and attach the punch unit [A] from the rear.



16. Attach the punch unit movement motor unit [A] so that the gear [B] meshes firmly (×2).

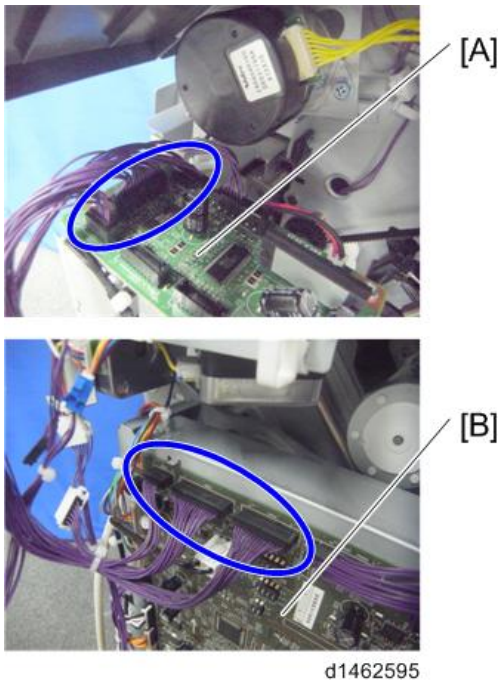


17. Insert the hopper [A].

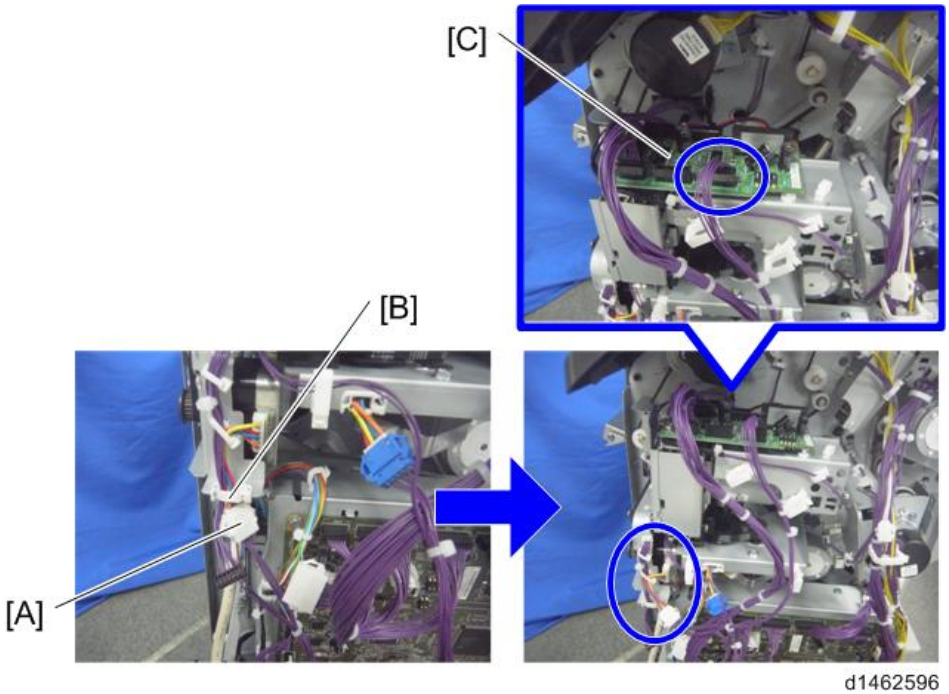


18. Connect the provided harness to the punch unit board [A] and the control board [B] of the finisher (×6).

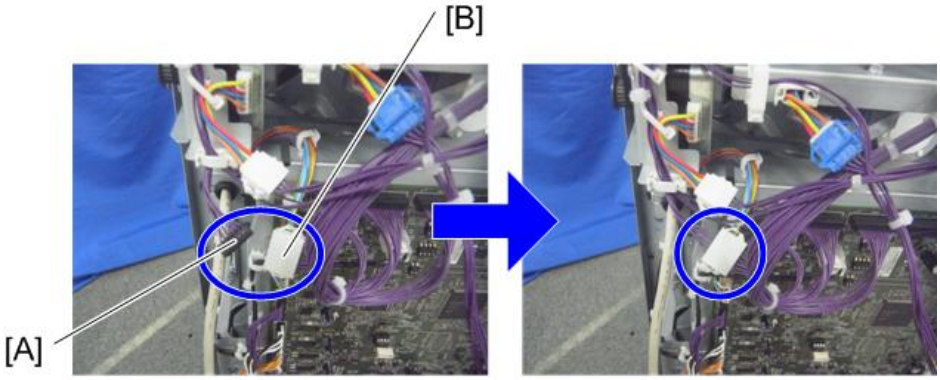
Use Harness (short) for Booklet Finisher SR3220 and Harness (long) for Finisher SR3210.



19. Remove the harness [A] from the clamp [B], and connect it to the punch unit board [C] (☞×1).

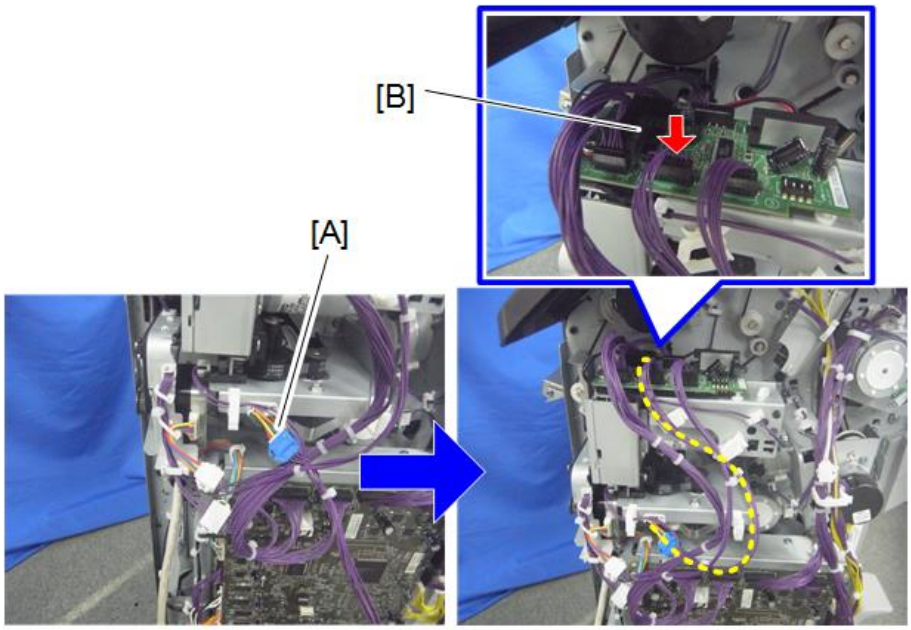


20. Connect the harness [A] of the side-to-side detection unit to the relay connector [B] of the harness (×1).



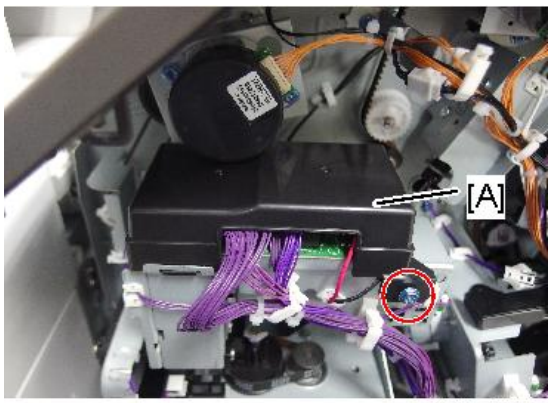
d1462597

21. Connect the harness [A] of the punch unit movement motor unit to the punch unit board [B] (×1).



d1462598a

22. Attach the supplied cover [A] to the punch unit board.

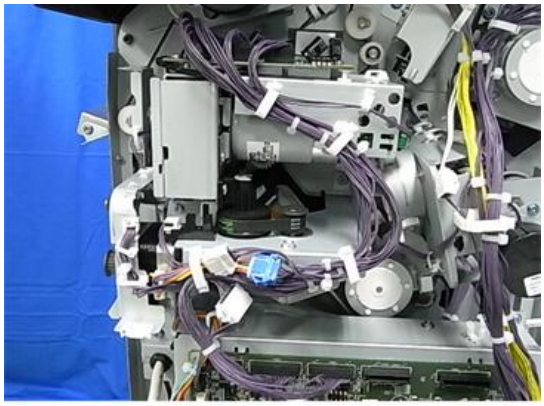


x1

d238m0814

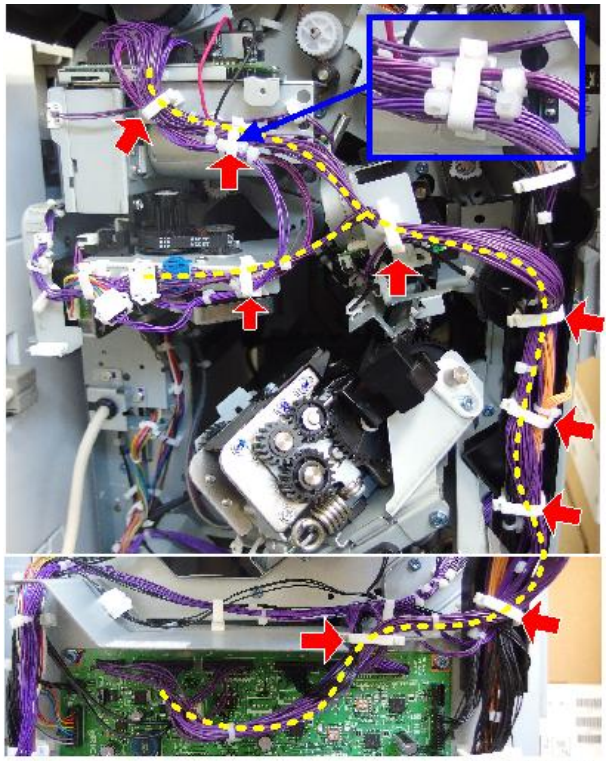
23. Clamp the harnesses.

For Booklet Finisher SR3220



d146z0068

For Finisher SR3210



x7

d238m0809b

24. Reattach the finisher rear cover.

25. Reattach the finisher inner cover and three knobs.

26. Close the front cover.

27. Close the top cover.

28. Reconnect the finisher to the machine, and connect the interface cable.

29. Turn ON the main power.

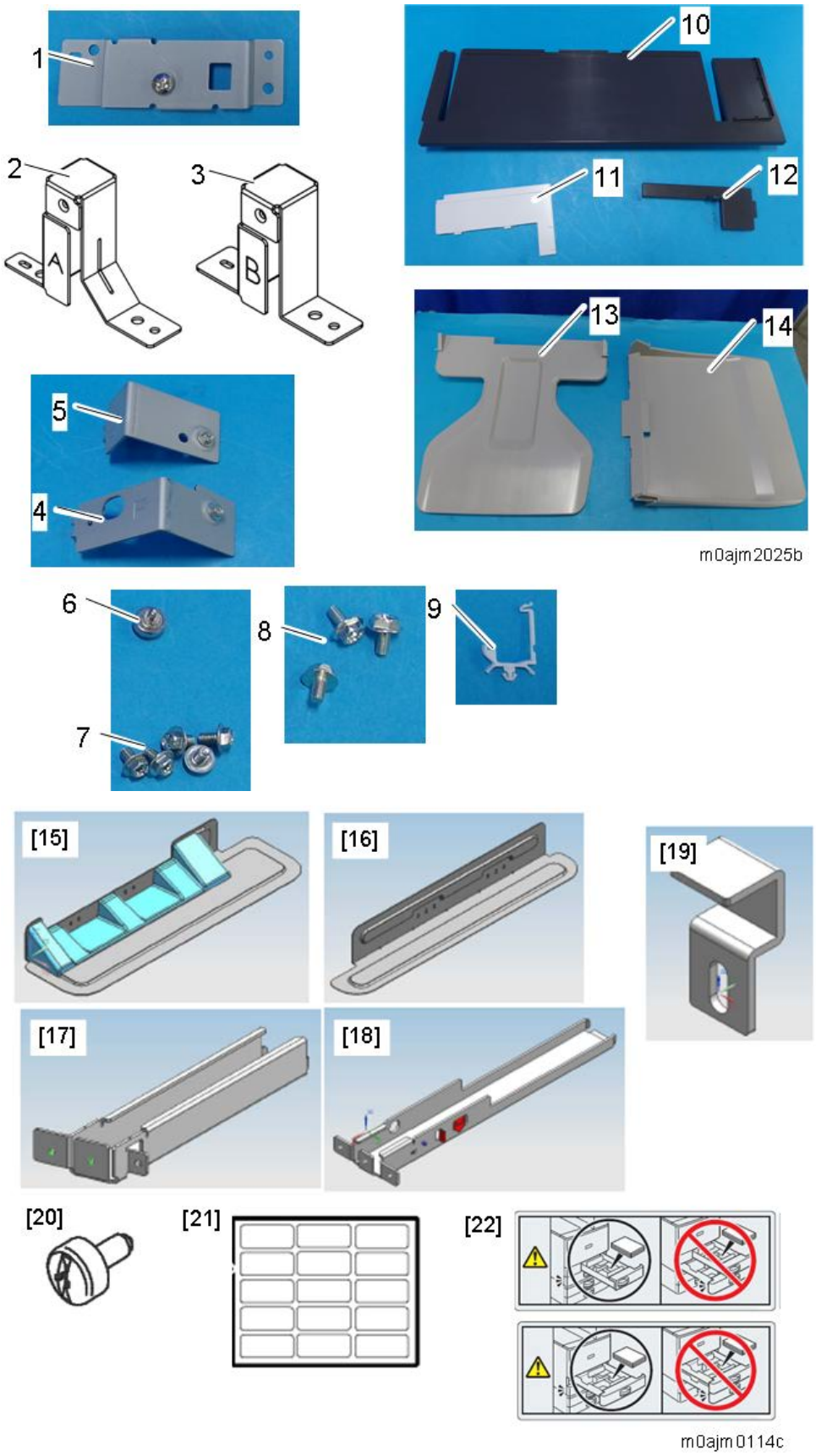
30. Check that the punch can be selected at the operation panel, and check the operation.

Mail Box CS3010 (M481-17)

Accessory Check

No.	Description	Q'ty	Remarks
1	Rear bracket (with shoulder screw)	1	
2	Support bracket A	1	
3	Support bracket B	1	Not used for SP C840DN/C842DN
4	Front securing bracket (with M4x6 screw and nut)	1	
5	Rear securing bracket (with M4x6 screw and nut)	1	
6	Shoulder screw	1	
7	Screw M4x6	7	
8	Screw M3x6	3	
9	Clamp	1	
10	Top right cover	1	
11	Rear cover	1	
12	Rear top cover	1	
13	Paper exit tray	4	
14	Inverter tray	1	
15	Right stabilizer	1	
16	Left stabilizer	1	
17	Right arm	2	
18	Left arm	2	
19	Securing bracket	4	
20	Coin screw	10	
21	Tray information decal	1	
22	Caution decal	2	Two decals are supplied, but only attach one of them to the SP C840DN/C842DN. The other decal is for a different model.
-	Sheet: EMC address	1	

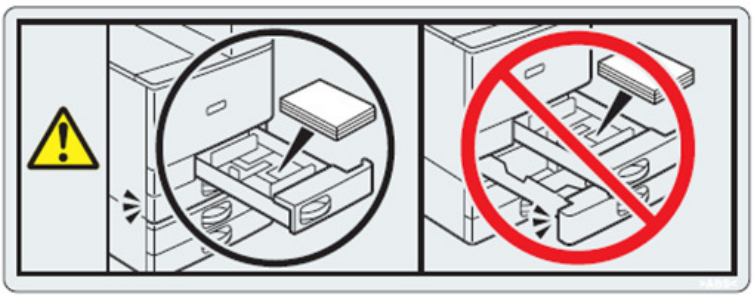
2.Installation



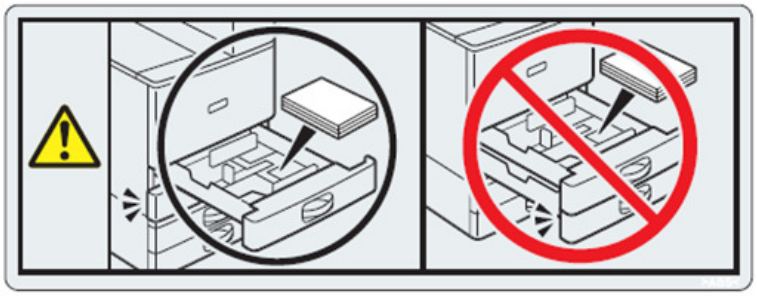
Important

- Two Caution decals are supplied. With this model, use Decal [A]. (The illustrations on the decals look similar, but the shape of the tray is different.)

[A]



[B]



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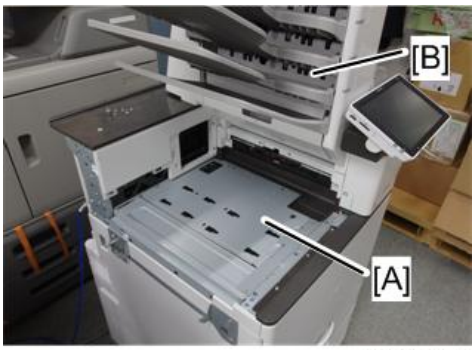
Installation Procedure

CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Important

- When installing the Internal Multi-fold Unit FD3000 and the Mail Box CS3010 at the same time, first install the base plate [A] of the internal multi-fold unit. Then install the mailbox [B]. Then install the internal multi-fold unit.



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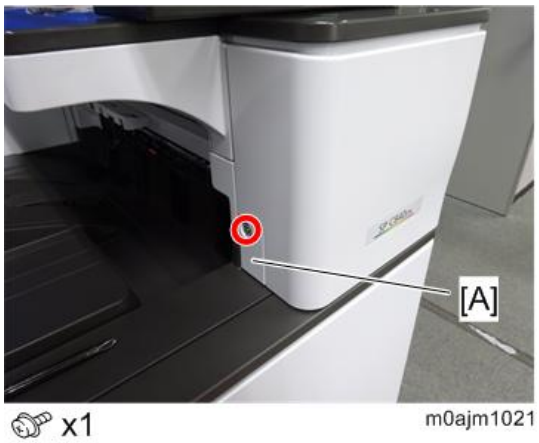
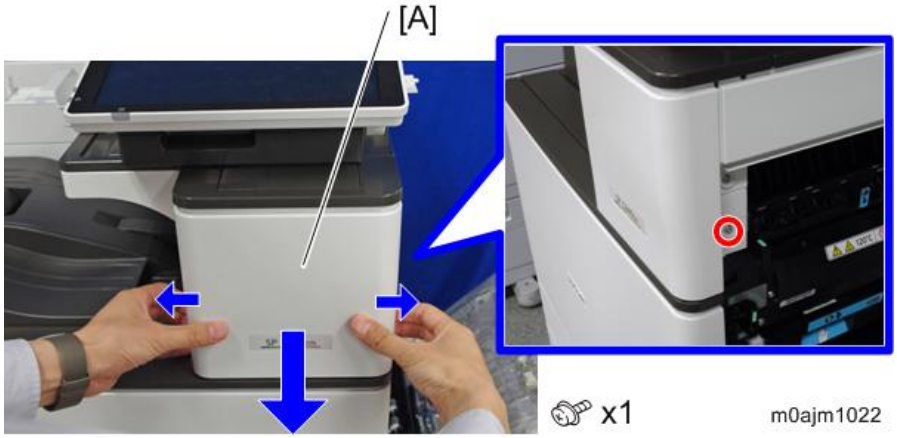
Removal of the Machine Exterior

1. Remove the small cover [A].

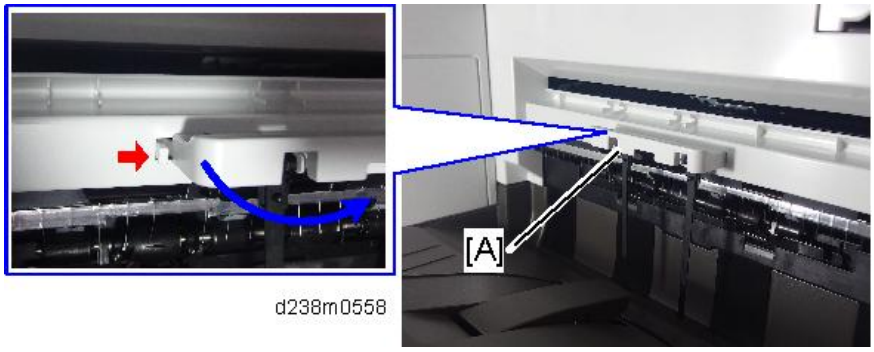


2. Open the right cover.

3. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.

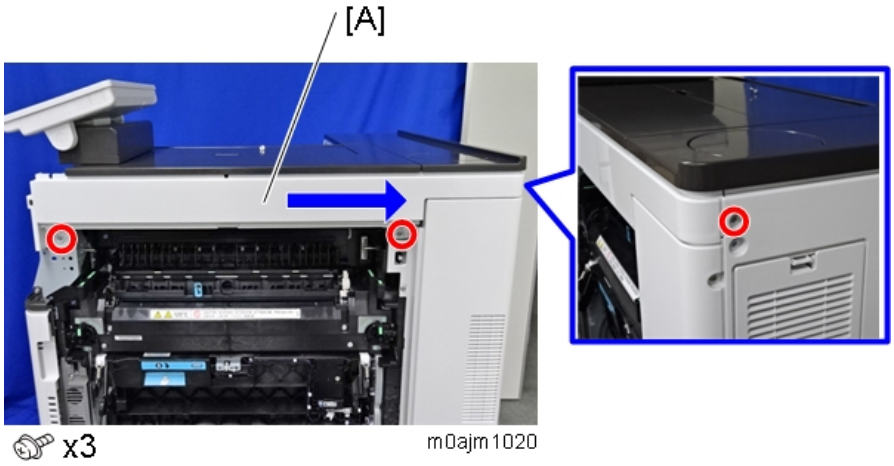


4. Remove the paper exit feeler [A].

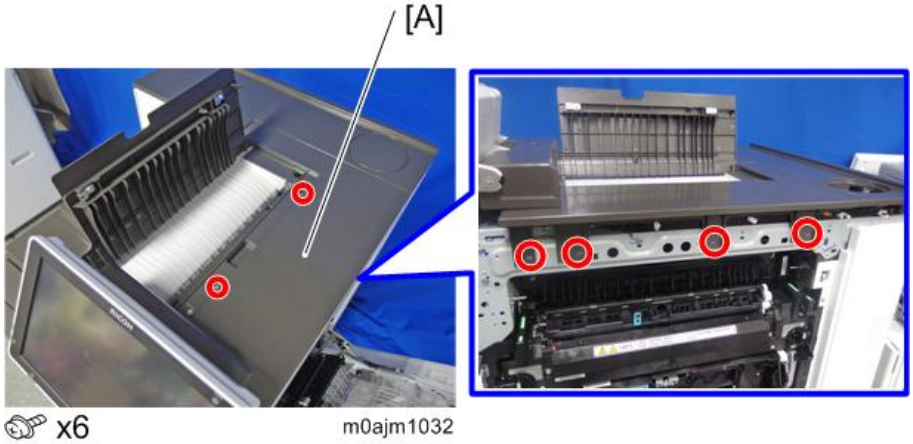


5. Remove the right upper cover [A].

When removing the right upper cover, pull it out in the horizontal direction of the blue arrow.



6. Remove the top right cover [A].

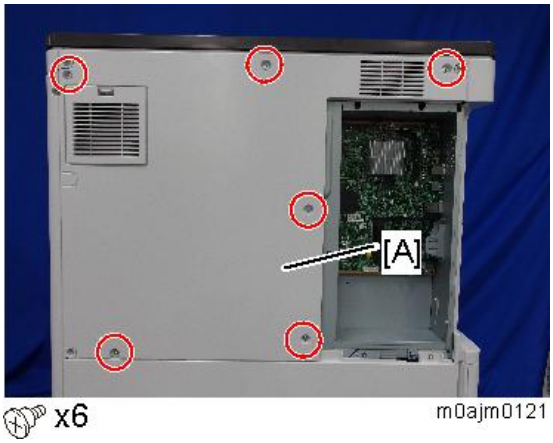


Transferring the Operation Panel

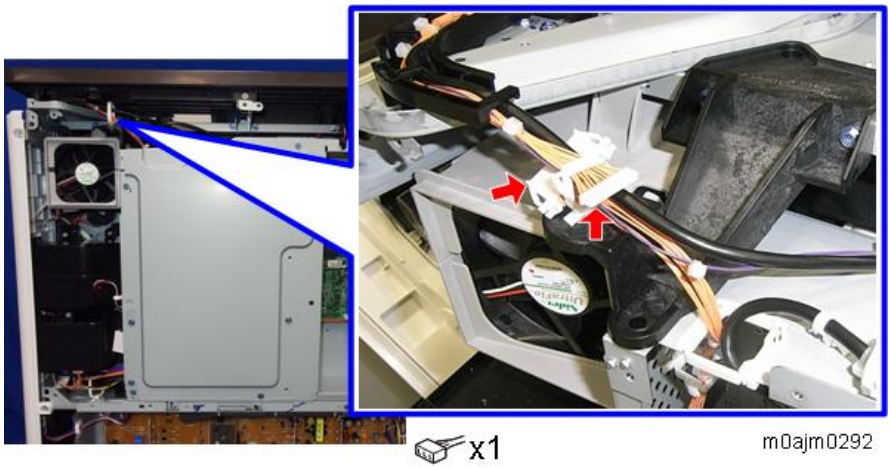
To secure space for installing Mail Box CS3010, move the operation panel to the front. Also, pull out the USB cable connected to the operation panel as far as needed for the move.

1. Remove the rear left cover [A] (coin screw × 2).

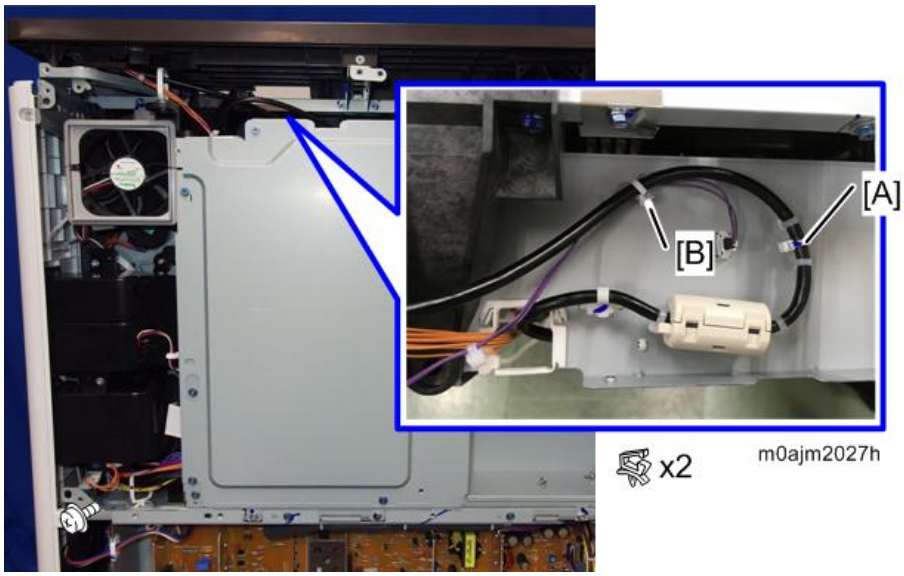
2. Remove the rear cover [A].



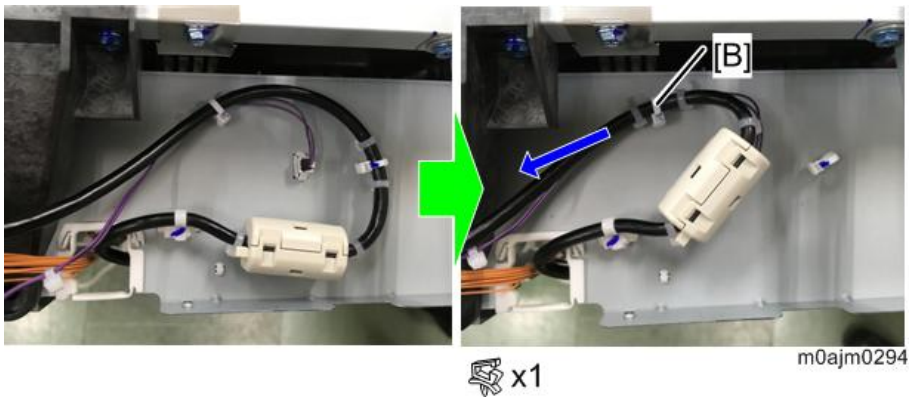
3. The orange harness is clamped but not connected. Release the clamp, connect the harness to the connector, and then tighten the clamp.



4. Remove the clamps [A] and [B], and release the USB cable.

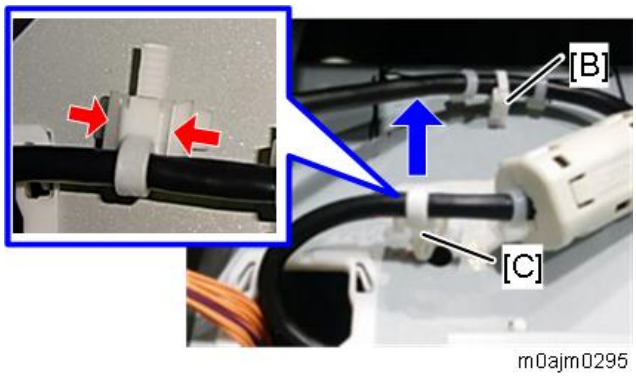


5. Pull the USB cable in the direction of the blue arrow and attach the clamp [B] to the part between the 2 ties.

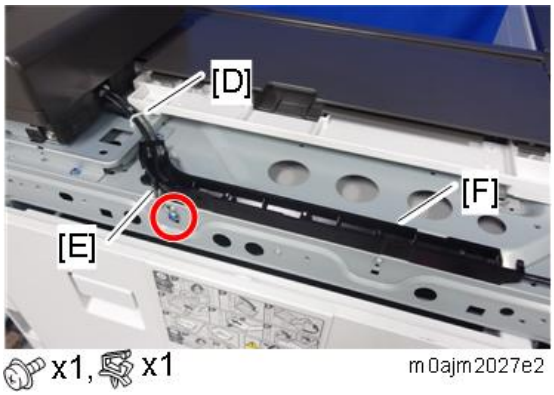


Note

If the cable is too stiff to attach the clamp [B], pull out the clamp [C] on the frame by pinching as shown by the red arrows.

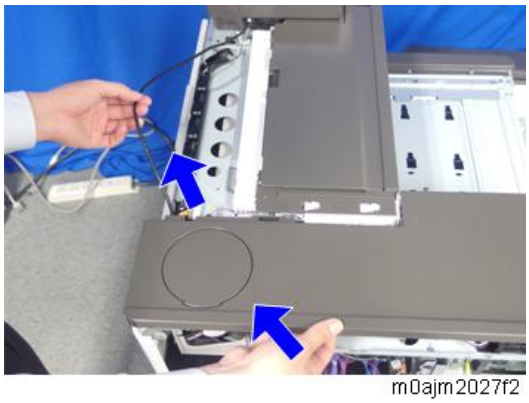


6. Disconnect the clamp [D] and the ground wire [E], and release the USB cable from the harness guide [F].



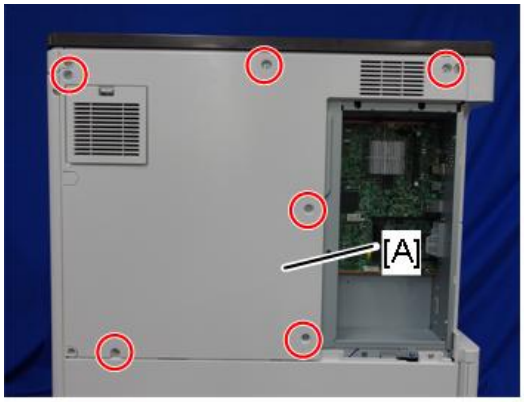
7. Pull the USB cable out toward the operation panel side and secure sufficient length to move the operation

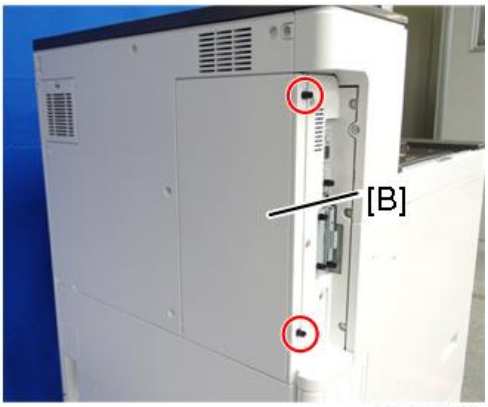
panel.



m0ajm2027f2

8. Reattach the rear cover [A] and then the rear left cover [B] (coin screw x2).

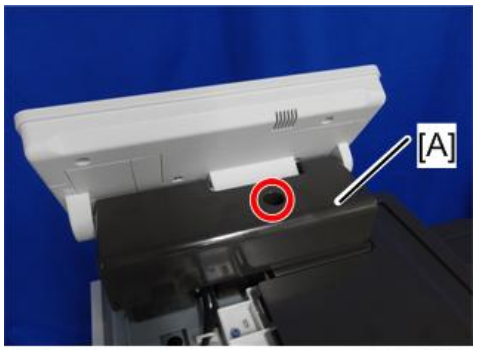




x6

m0ajm0210

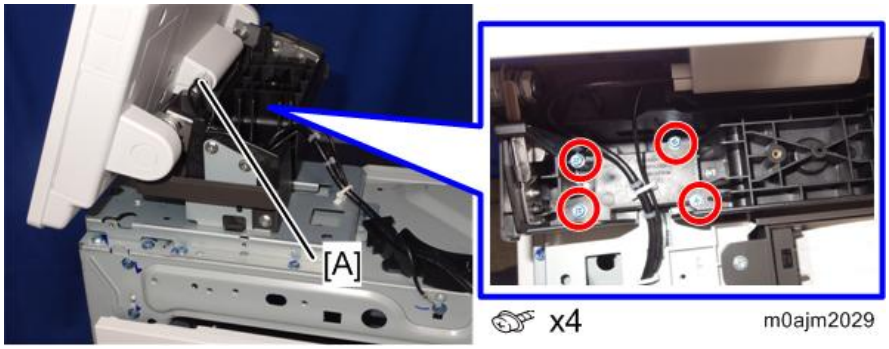
9. Remove the operation panel upper cover [A].



x1

m0ajm2028

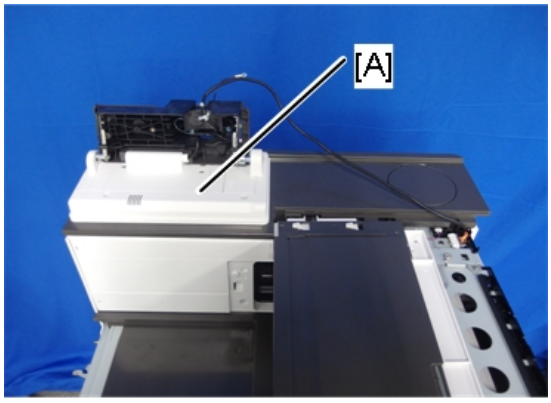
10. Remove the operation panel [A] from the machine while keeping the USB cable connected to the machine.



x4

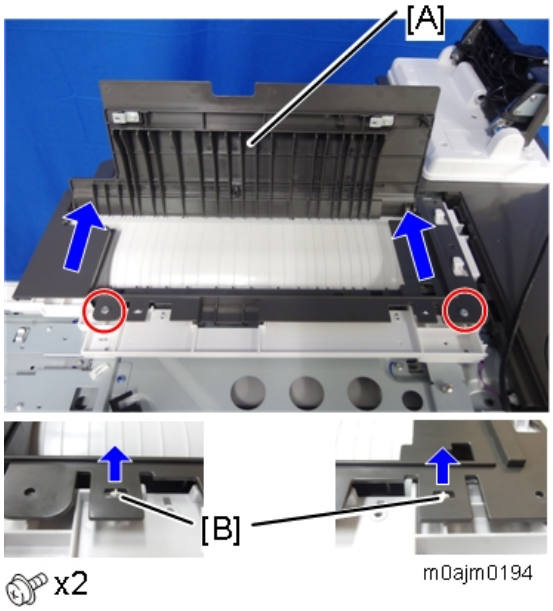
m0ajm2029

11. Place the operation panel [A] on the top rear cover with LCD facing down.



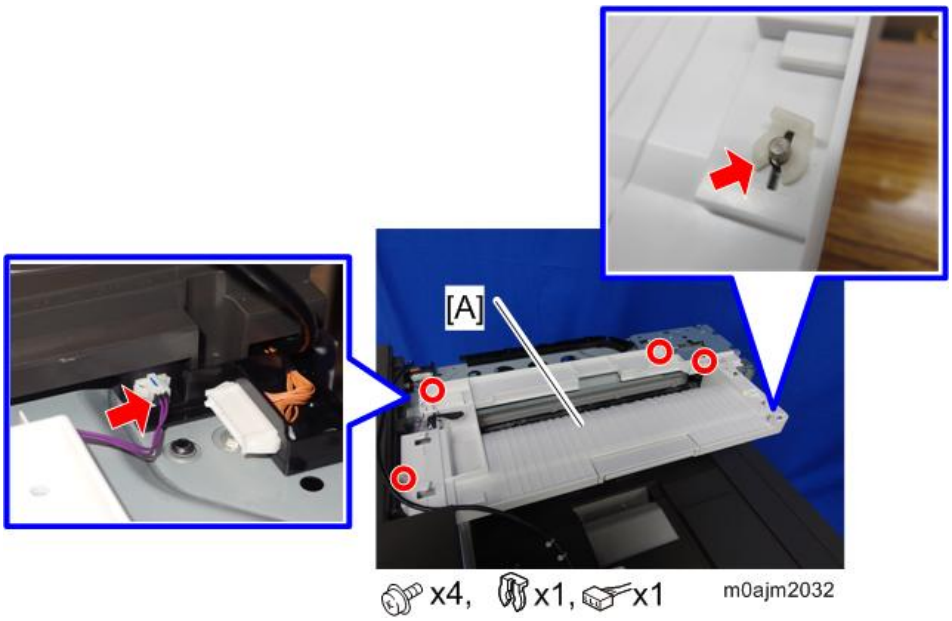
m0ajm0193

12. Open the inverter guide cover [A], and remove the inverter guide cover and its exterior cover.
Lift the exterior cover from the screw bosses [B], and then slide the inverter module in the direction of the blue arrow and remove it.

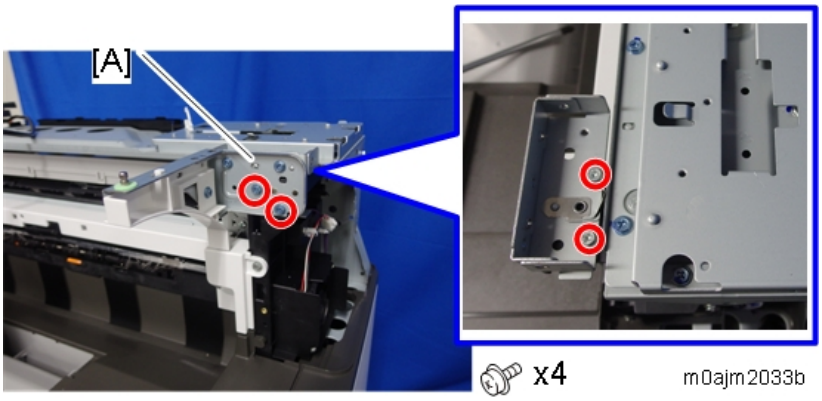


m0ajm0194

13. Disconnect the inverter guide cover sensor and remove the inverter guide [A].



14. Remove the inverter guide bracket [A].



15. Attach the operation panel more forward than before.

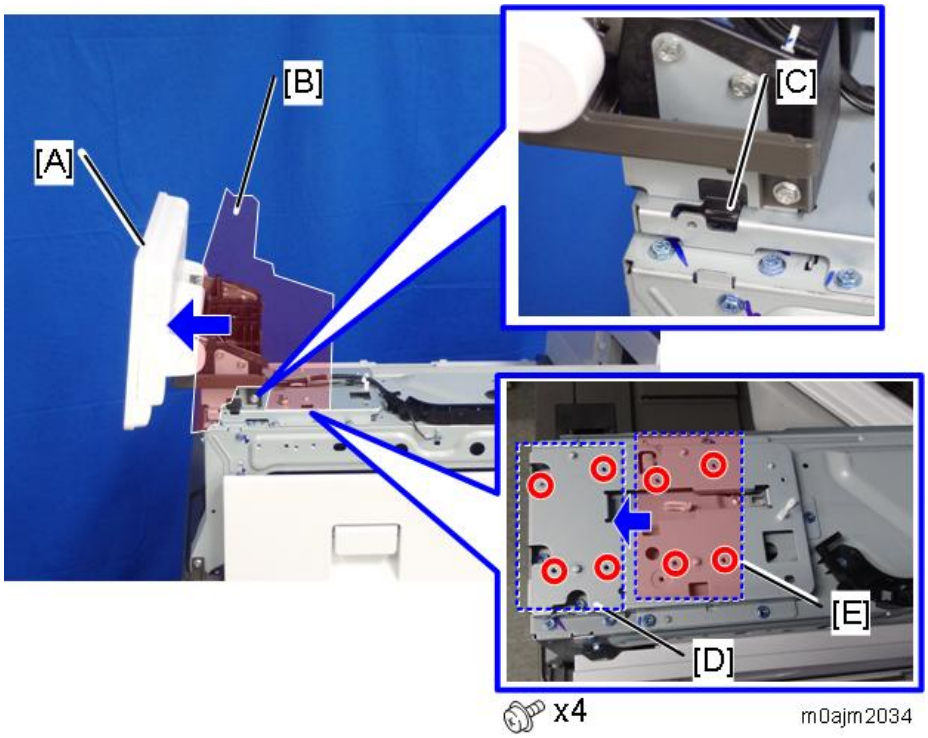
[A]: Installed position: After moving

[B]: Installed position: Before moving

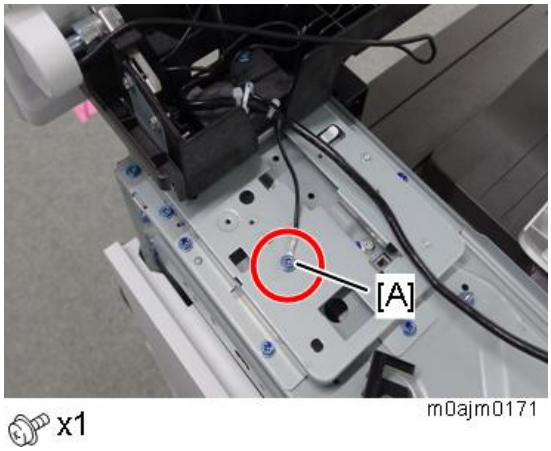
[C]: Adjust the tab at the base of the operation panel to the indicated position

[D] Position of screw holes for operation panel securing brackets: After moving

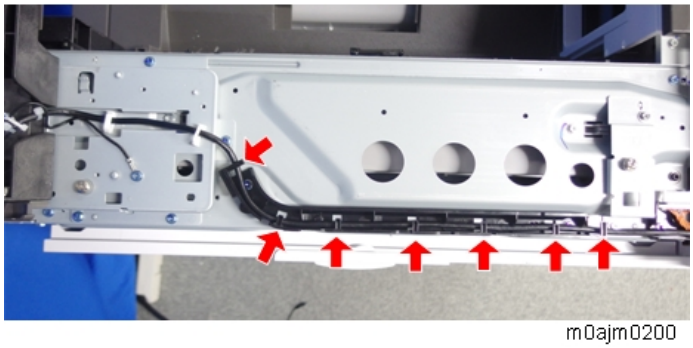
[E] Position of screw holes for operation panel securing brackets: Before moving



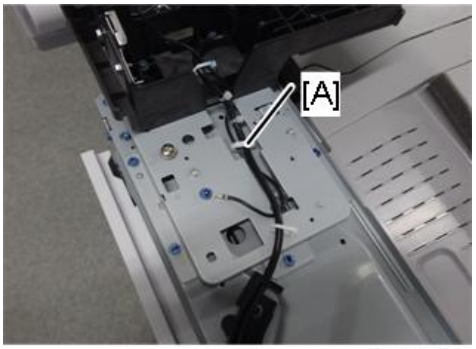
16. After transferring the operation panel, attach the ground wire at the position [A]. Fasten it with the screw removed at step 6.



17. Route the USB cable inside the 7 hooks on the harness guide.



18. Fasten the USB cable and the ground wire at the position [A] using the supplied clamp.

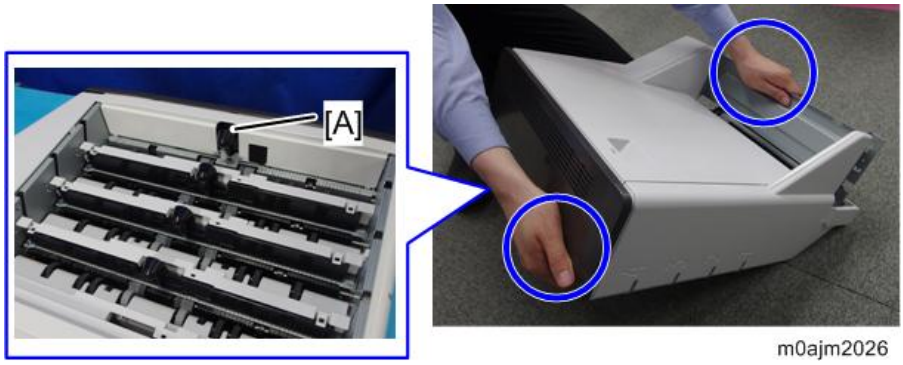


m0ajm0195

Installation of the Mailbox

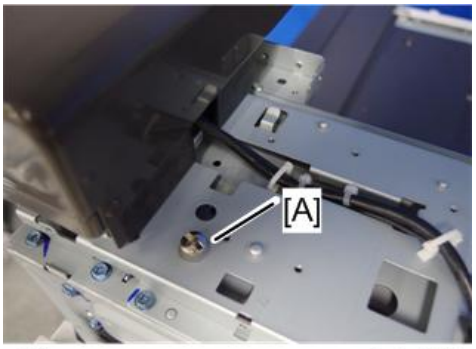
Important

- When lifting the mailbox to unpack it, hold the parts circled in blue.
- Be sure not to hold the unit's upper central part, where the feeler [A] to detect when the paper tray is full is located.
- Do not hold other parts. Doing so may damage the exterior cover or deform the frame.



m0ajm2026

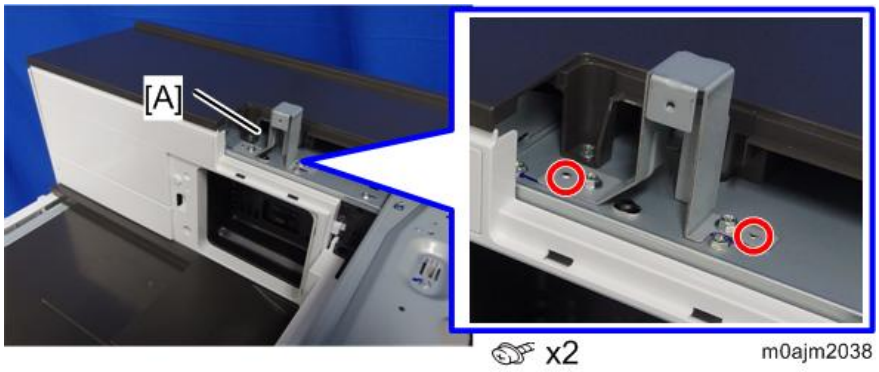
1. Attach the shoulder screw [A] (provided with this unit) to the base of the operation panel.



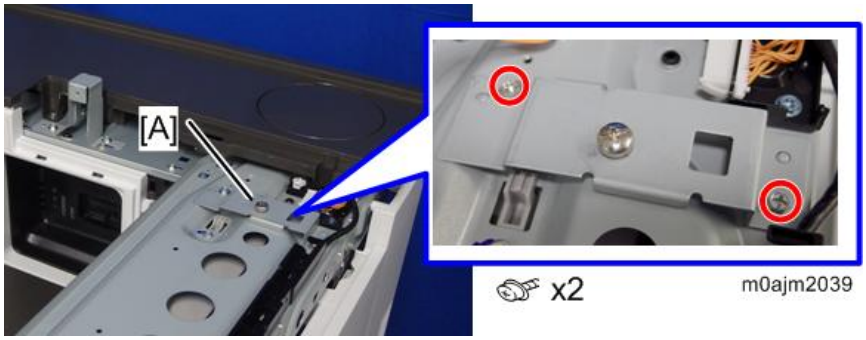
x1 m0ajm2037

2. Attach the support bracket [A] (M4x6).

Use the bracket with "A" stamped on it.

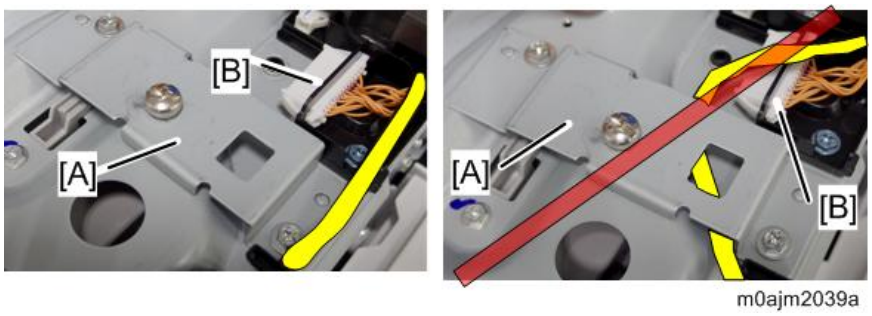


3. Attach the rear bracket [A] with shoulder screws (M4x6).

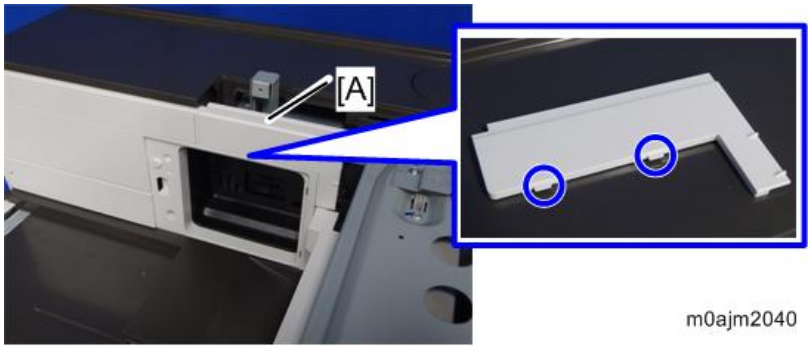


Important

Do not route the USB cable (indicated in yellow in the figure) under the support bracket [A] or under the interface harness [B]. Doing so may cause the cable to break.



4. Attach the rear cover [A] provided with this unit (hook x 2).



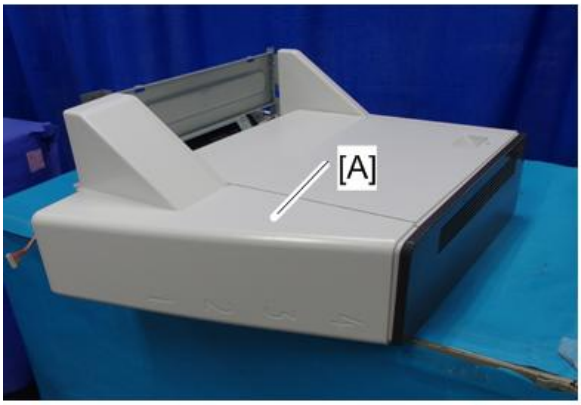
5. Attach the rear top cover [A] provided with this unit (M3x6, hook x 1).

x1 m0ajm2041

6. Place the mailbox on a flat surface.

Important

- Put the mailbox on a table so that the rear part [A] is over the edge. Be careful not to drop the mailbox.



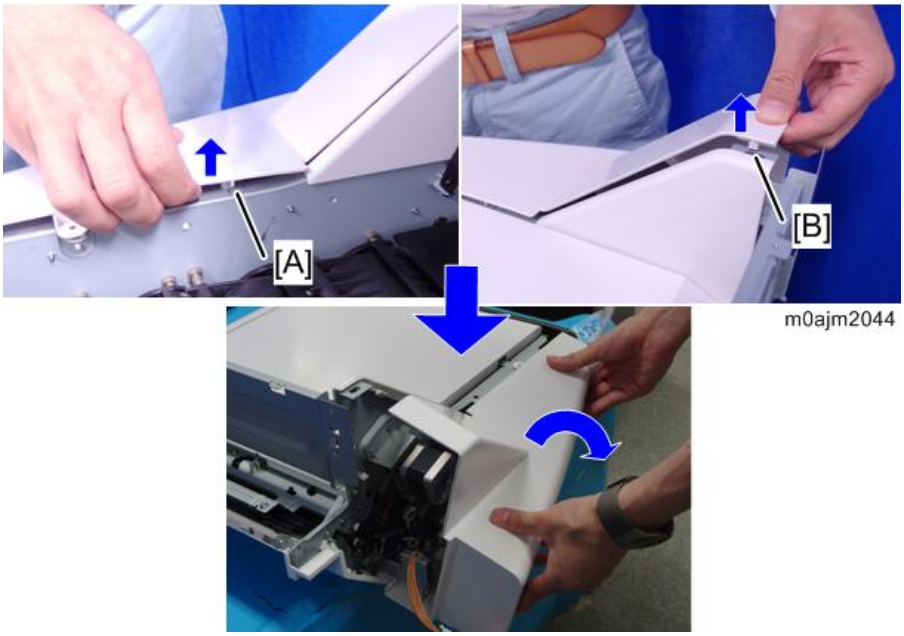
m0ajm2042

7. Remove the orange tapes.

8. Open the right door and remove the indicated screw (M3x8).

x1 m0ajm2043

9. Release the rear cover's hooks [A] and [B], and then remove the rear cover by holding it at the top and pulling it.



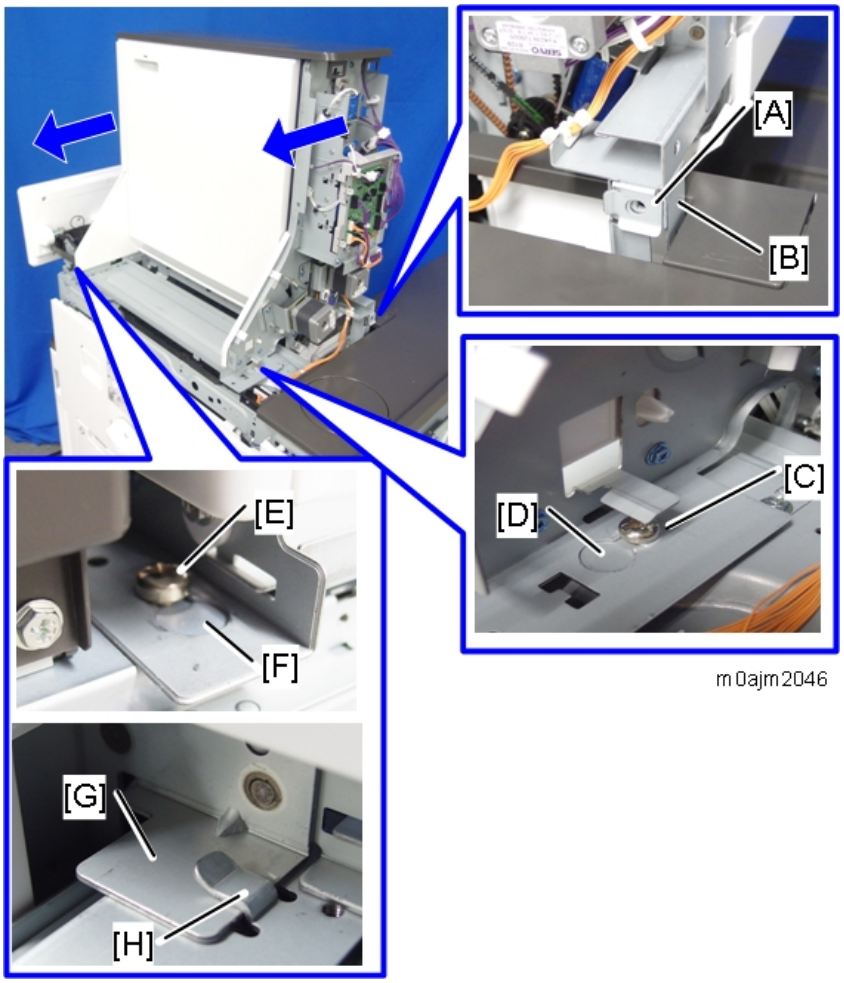
10. Hold the areas shown by the blue circles, and mount the mailbox on the machine.

When you mount the mail box, it is easier if you stand at the right side of the machine, facing the bypass tray.

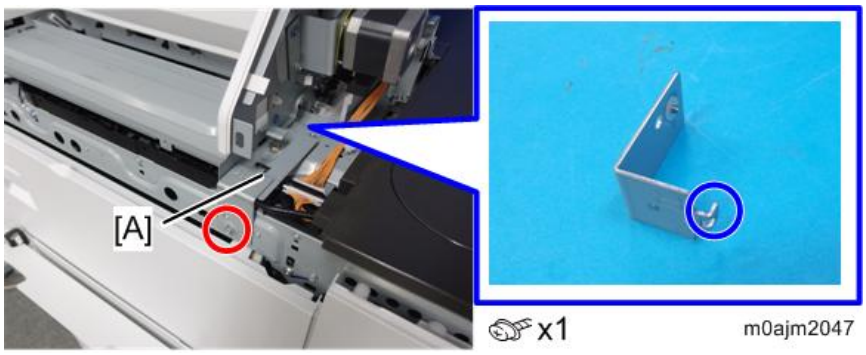
11. Slide the mailbox from left to right as viewed from the front.

- Mount the bracket [A] on the support bracket [B] at the rear of the mailbox, and then slide it to align the screw holes.
- Align the shoulder screw [C] with the positioning hole [D], and then slide it until it engages with the groove behind the hole.
- Align the shoulder screw [E] with the positioning hole [F], and then slide it until it engages with the groove behind the hole.

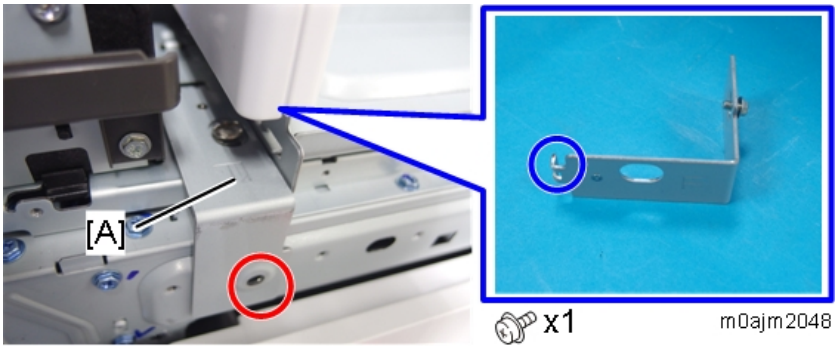
- Slide the mailbox plate [G] toward the stopper [H] on the machine's mounting base until it stops.



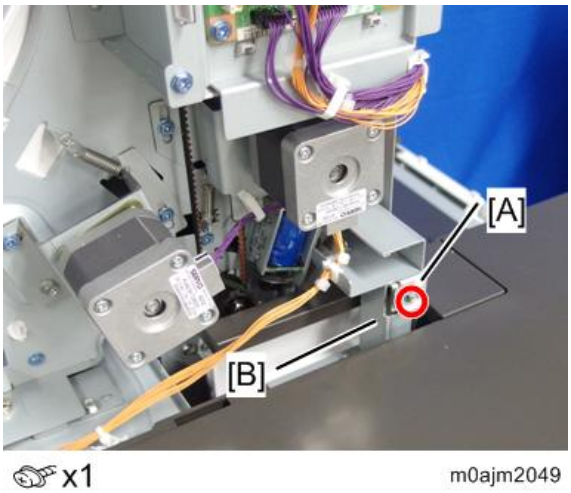
12. Attach the rear securing bracket [A] (hook x1).



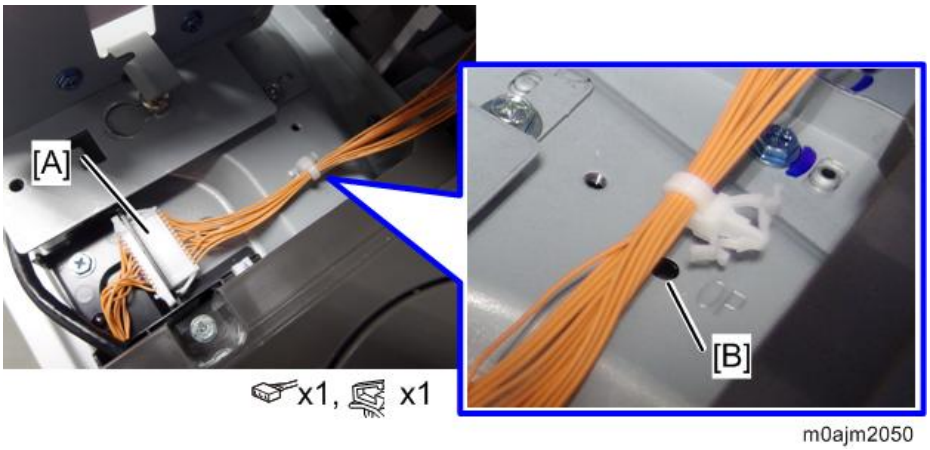
13. Attach the front securing bracket [A] (hook x1).



14. At the rear side of the mailbox, fasten the joint [A] to the indented part of the support bracket [B] (M4x6 screw) as shown.

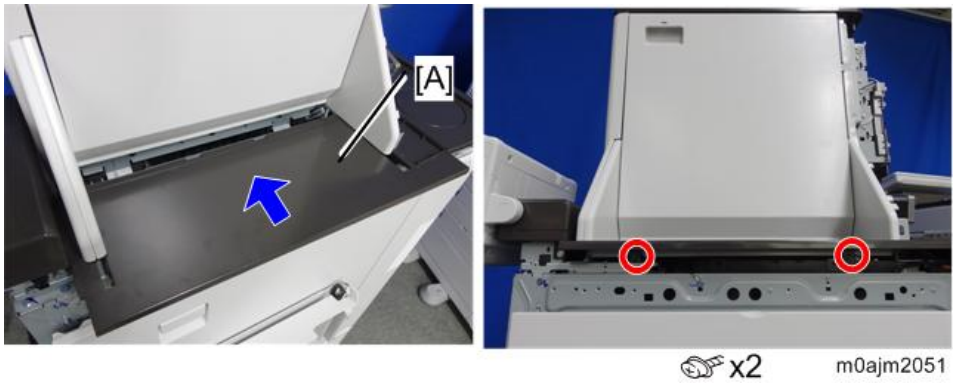


15. Connect the harness [A] to the relay connector on the machine, and insert the clamp attached to the harness into the hole [B] in the machine frame.



16. Insert the top right cover [A] (provided with this unit) beneath the mailbox, and secure it to the machine

(M3x6).

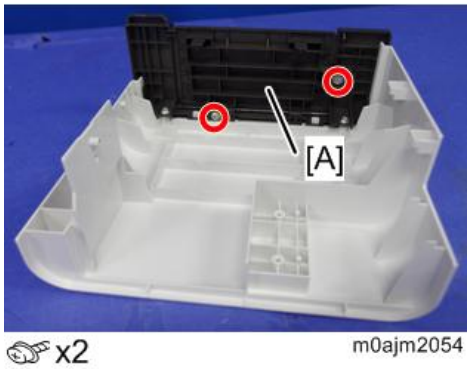


17. Reattach the rear cover of the mailbox.

18. Attach the supplied inverter tray.

19. Attach the four supplied paper exit trays.

20. Remove the canopy [A] of the front upper cover.



21. Reattach the right upper cover, front upper cover, and small cover.

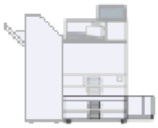
22. Reattach the operation panel top cover.

Make sure that the harness and USB cable are not caught when attaching the operation panel top cover.

Installation of Stabilizers

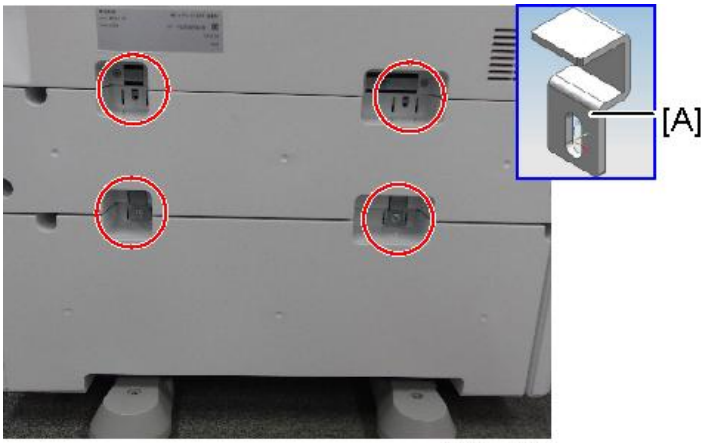
Install stabilizers according to the following table.

Configuration	Securing brackets	Right stabilizer	Left stabilizer
Main unit only	**Not required**	**Not required**	**Not required**
With 1-tray PFU	Required	**Not required**	**Not required**
With 2-tray PFU (or Tandem Tray)	Required	Required	Required
With 1-tray PFU and 2-tray PFU (or Tandem Tray)	Required	Required	Required
With 2-tray PFU (or Tandem Tray) and Side LCIT	Required	**Not required** (Cannot be installed because it interferes with the LCIT.)	Required
With Finisher	Required	Required	**Not required** (The connection between the main unit and the finisher functions as a stabilizer.)

Configuration	Securing brackets	Right stabilizer	Left stabilizer
With Internal Multi-fold Unit	Required	Required	Required
With Finisher and Side LCIT 	Required	**Not required** (Cannot be installed because it interferes with the LCIT.)	**Not required** (The connection between the main unit and the finisher functions as a stabilizer.)

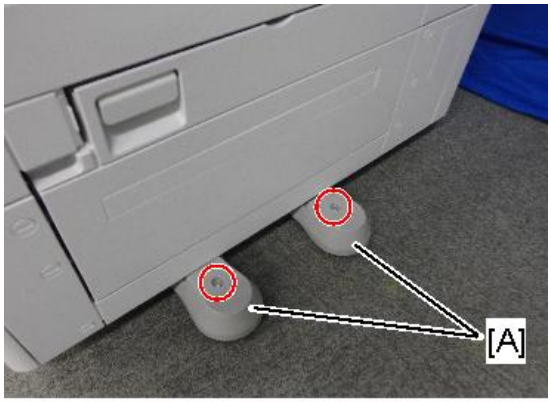
1. Remove the brackets that secure the optional paper feed unit to the machine, and replace them with the securing brackets [A] provided with the mailbox.

- Use the screws from the removed brackets.
- Normally, replace 2 brackets. When using a stack of five paper feed units, replace all 4 brackets.



m0ajm0122

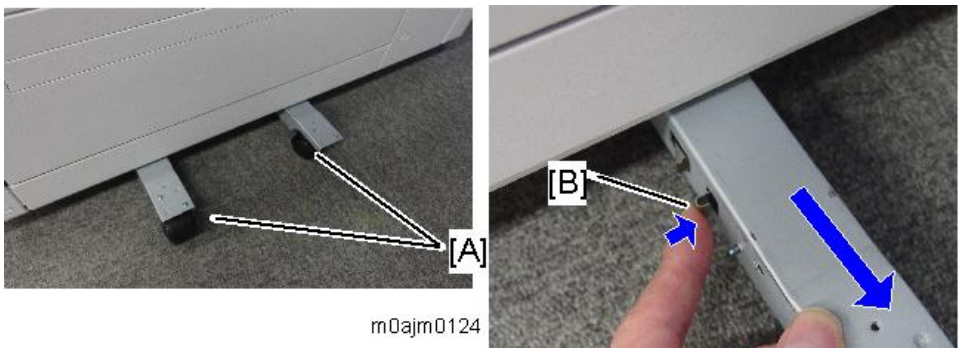
2. Remove the two covers for the stabilizers [A] at the right of the paper feed unit.



x2 m0ajm0123

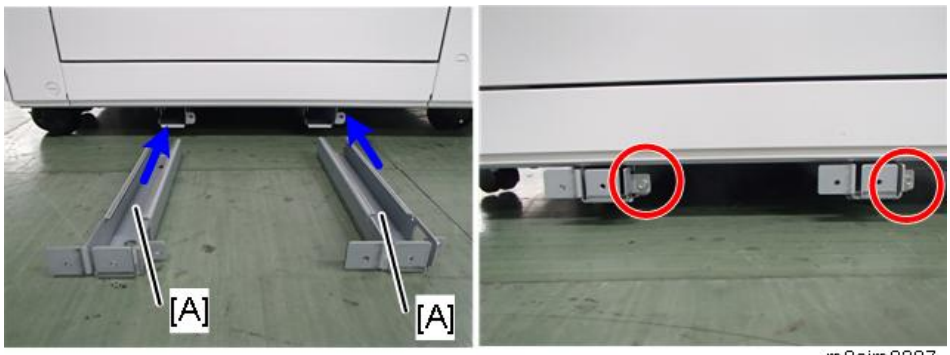
3. Remove the two arms [A].

Pull out the arms while pressing the lock [B].



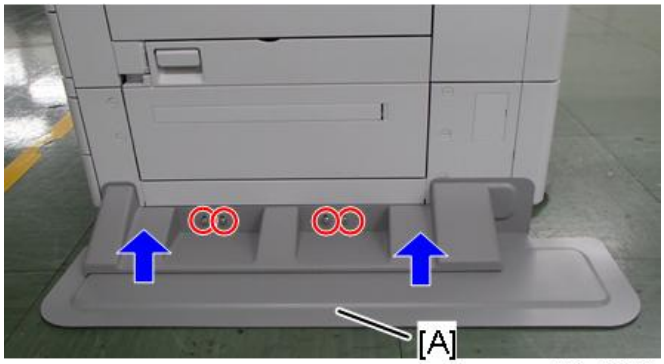
m0ajm0124

4. Insert the two right arms [A] (provided with the mailbox) where the old ones went (M4x6).



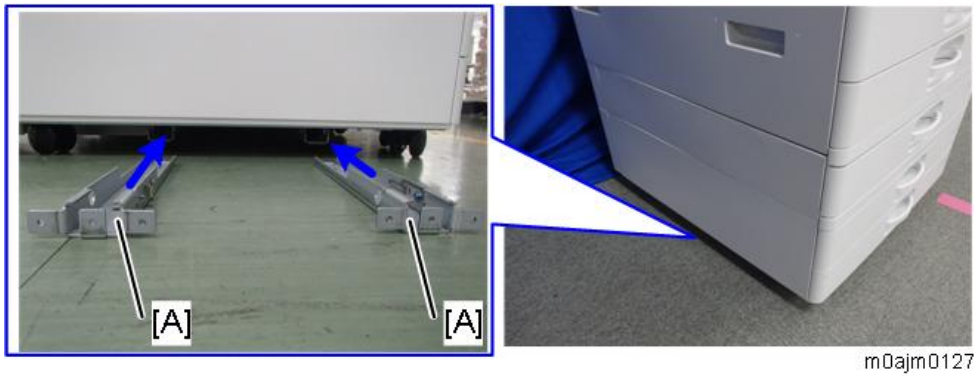
x2 m0ajm0207

5. Place the right stabilizer [A] on a level floor, push it against the paper feed unit, and tighten the arms and stabilizer together (coin screw x 4).



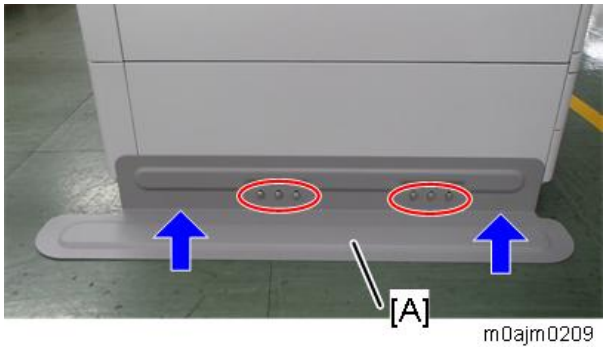
m0ajm0206

6. Insert the two left arms [A] until they stop.



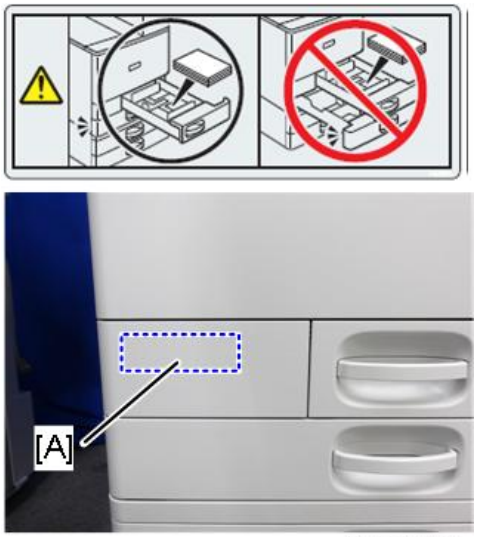
m0ajm0127

7. Place the left stabilizer [A] on a level floor, push it against the paper feed unit, and tighten the arms and stabilizer together (coin screw x 6).



m0ajm0209

8. Attach the caution decal at the position [A]. Two decals come with the accessories. One of them is for use with another model, so make sure you attach the correct one.



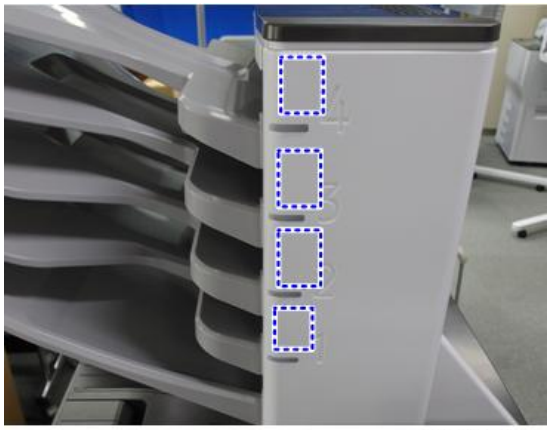
m0ajm0173

Important

The decal cautions users not to pull out more than one tray at the same time. Be sure to instruct users to pull out the paper feed trays one at a time when using the machine with the mailbox. Pulling out more than one paper feed tray at the same time may cause the machine to overbalance and topple forward.

9. Give the tray decals to the customer.

The customer will write down information such as department name or location on the decals and attach them to the front cover.

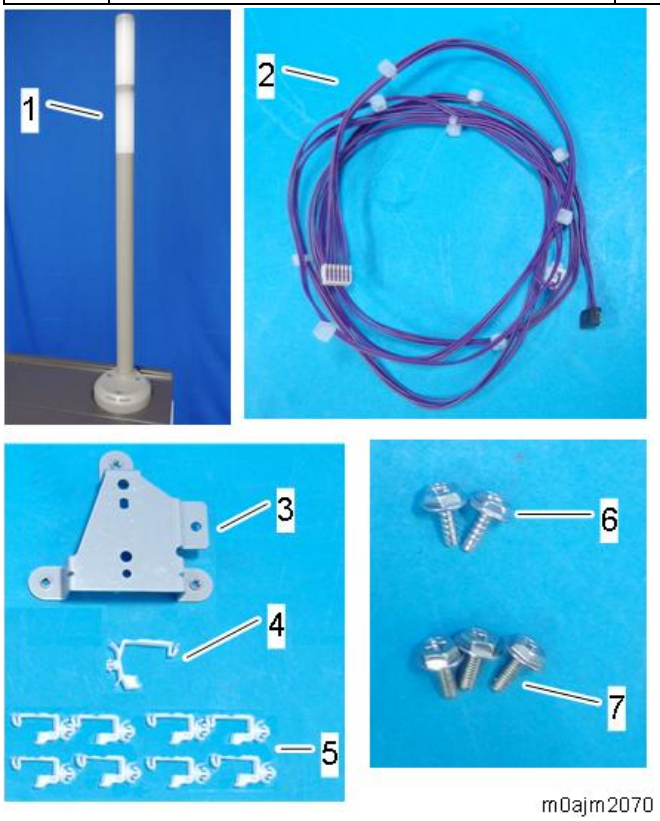


m0ajm0172

Attention Light AL3000 (M500-36)

Component Check

No.	Description	Q'ty	Remarks
1	Attention Light	1	
2	Harness	1	
3	Bracket	1	
4	Large Clamp	1	
5	Small Clamp	8	Use only four in this machine.
6	3x8 Screw	2	
7	3x8 Screw (Round-headed)	3	



Installation Procedure

⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Unpack the attention light and the accessories (fixing screws, etc.) provided with this unit.

2. Remove the connection cover [A].

Insert a flat-headed screwdriver into the gap at the front and lift the cover.

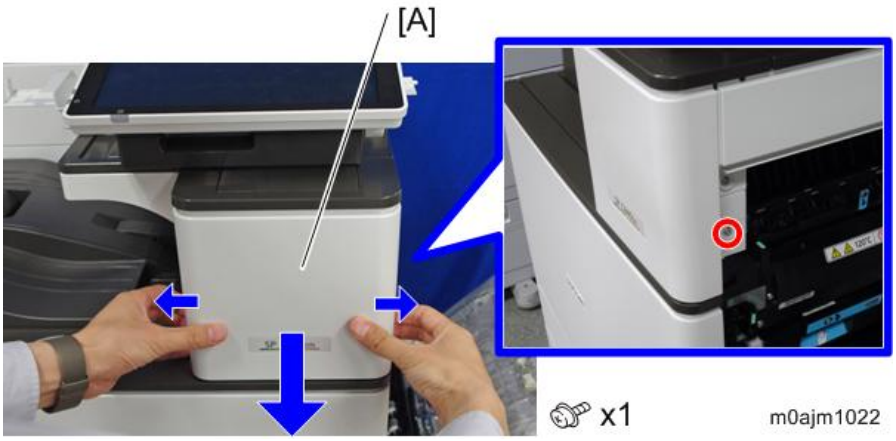
m0ajm2071

3. Remove the small cover [A].

x1 m0ajm1021

4. Open the right door.

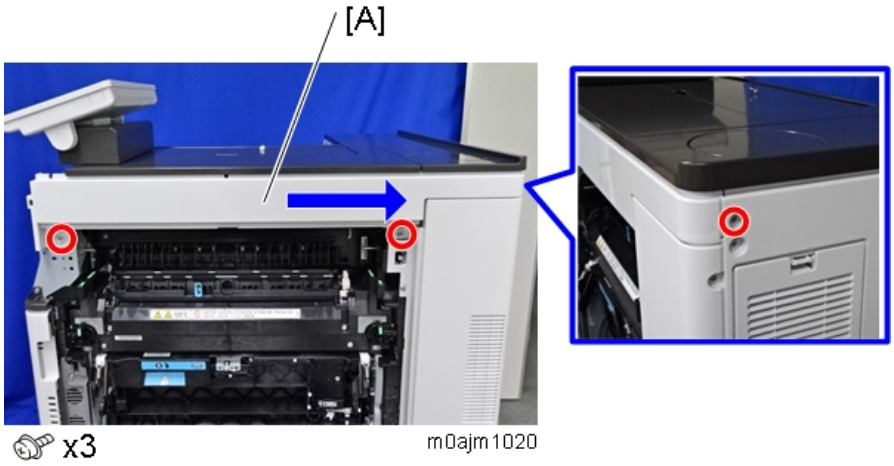
5. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.



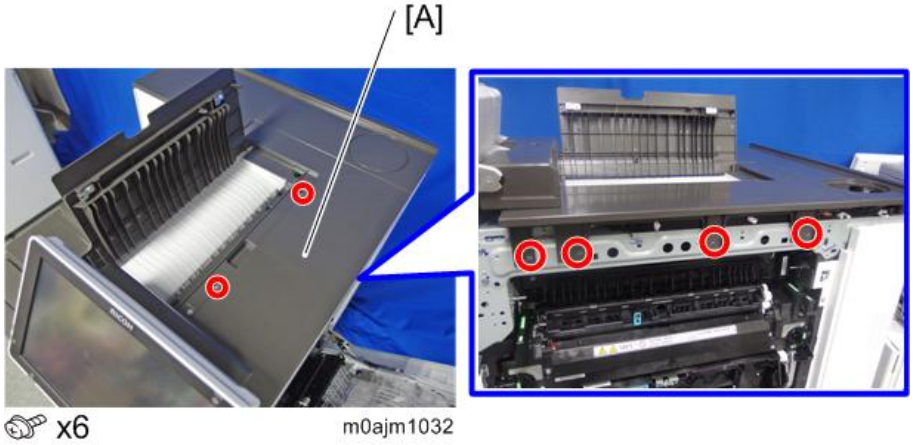
x1 m0ajm1022

6. Remove the right upper cover [A].

When removing the right upper cover, pull it out in the direction of the blue arrow.

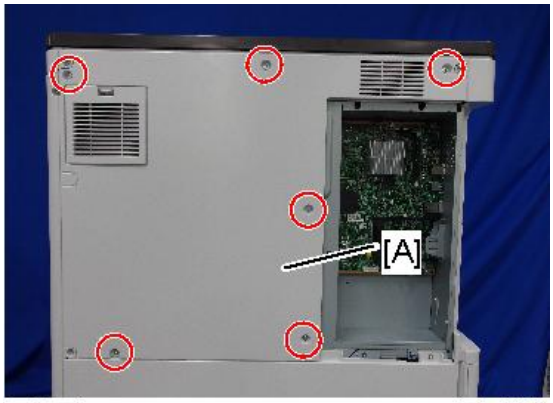


7. Remove the top right cover [A].



8. Remove the rear left cover [A] (coin screw x2).

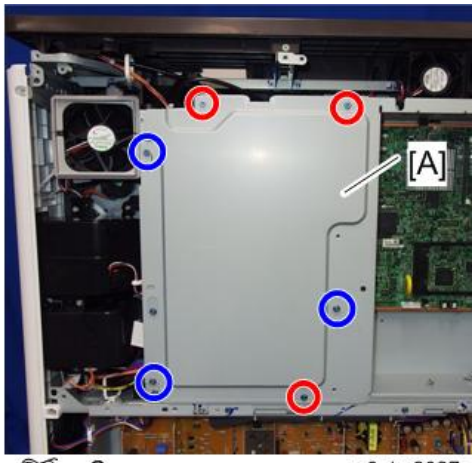
9. Remove the rear cover [A].



x6 m0ajm0121

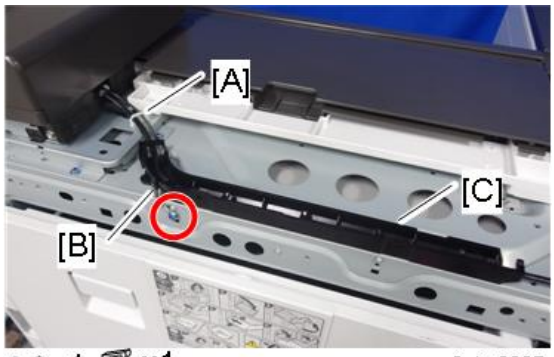
10. Remove the controller box cover [A].

Red Circle: Remove, Blue Circle: Loosen



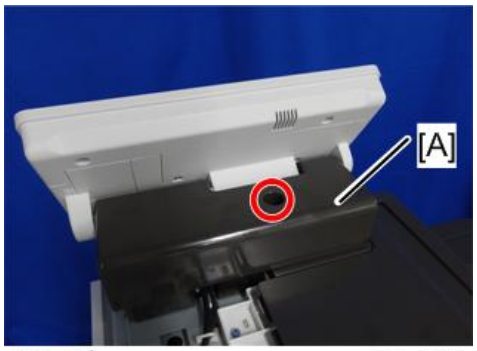
x6 m0ajm2027c

11. Remove the clamp [A] and grounding wire [B], and release the USB cable from the harness guide [C]. (This is to prevent the USB cable from being pulled when turning over the operation panel.)



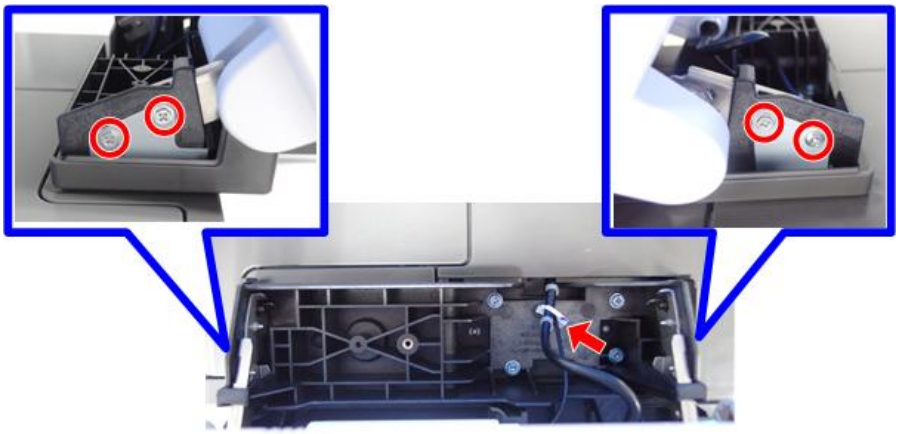
x1, x1 m0ajm0297

12. Remove the operation panel upper cover [A].



x1 m0ajm2028

13. Remove the screws and clamps securing the operation panel to the hinge.



x4 x1 m0ajm1036

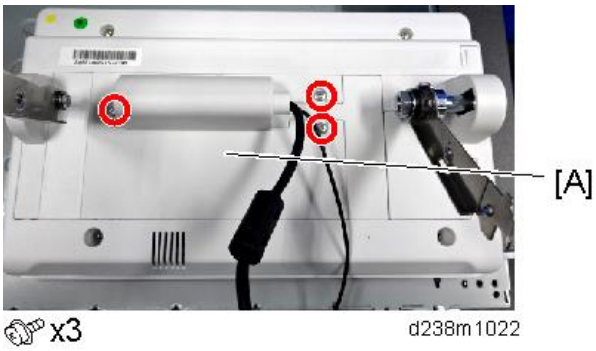
14. Spread out the service mat [A] on top of the machine, detach the operation panel from the hinge, and then place the operation panel face down on the mat.

Important

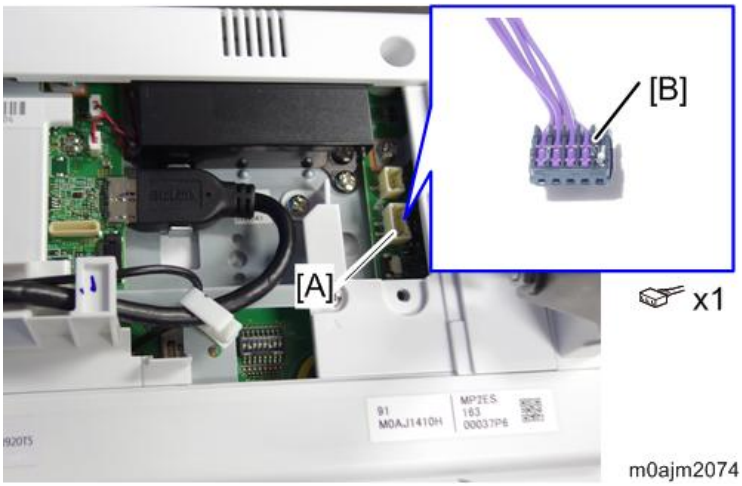
Be sure the service mat remains spread out underneath the operation panel to protect the display.

m0ajm1037

15. Remove the rear center cover [A].



16. Connect the black 5-pin connector [B] to the operation panel connector [A].



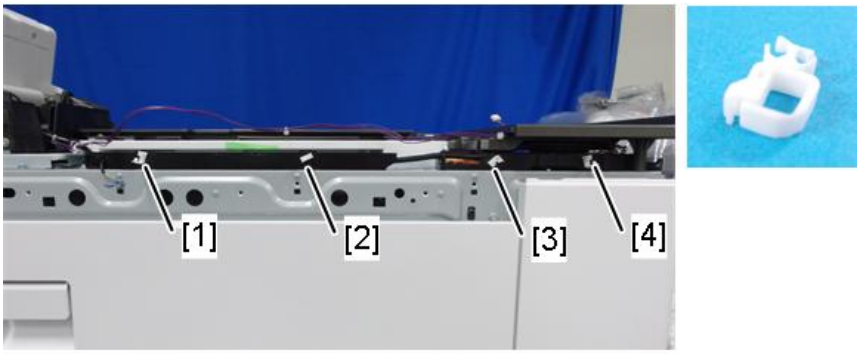
17. Secure the harness with the clamp [A] and route the harness along the USB cable.

18. Reattach the rear center cover of the operation panel, and then reattach the operation panel.

19. Reattach the operation panel upper cover.

20. Reattach the USB cable, clamps, and ground wire.

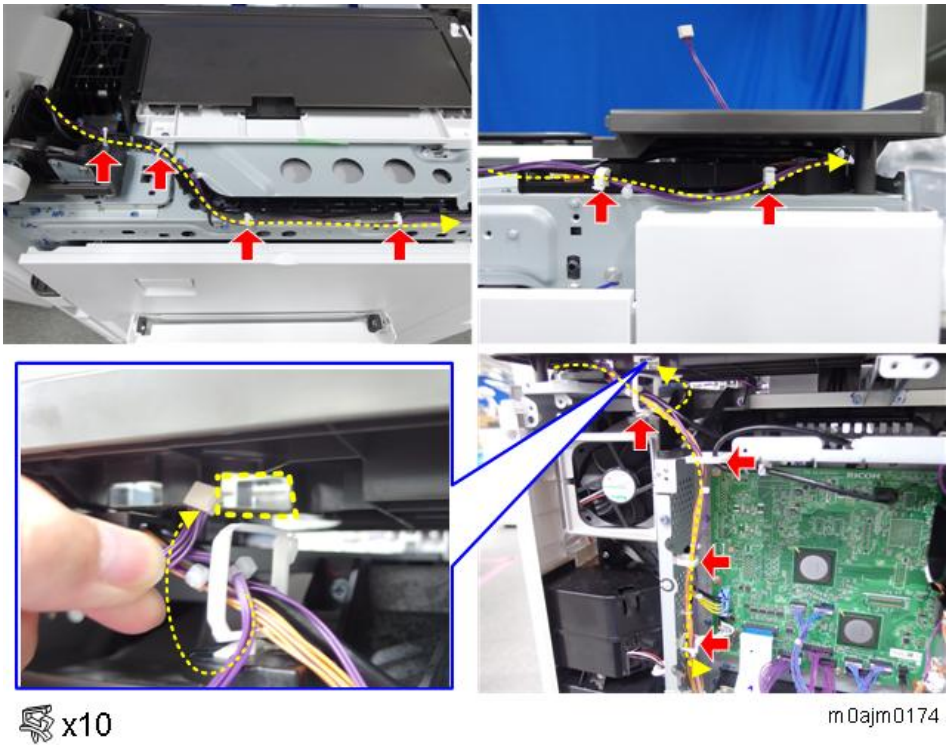
21. Attach small clamps (provided with this unit) on the side of the cable guide



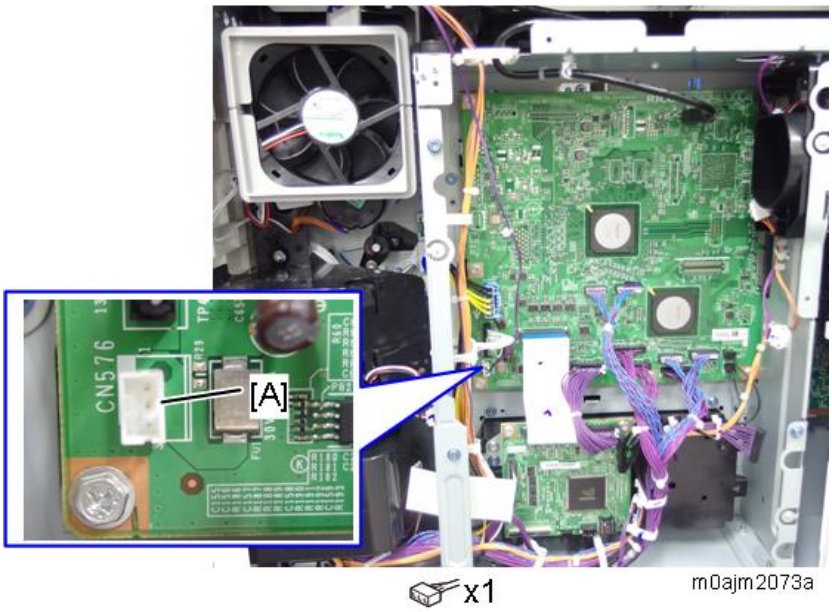
m0ajm0175

22.

23. Route the harness as shown.



24. Connect the white 3-pin connector to CN756 [A] on the IPU.

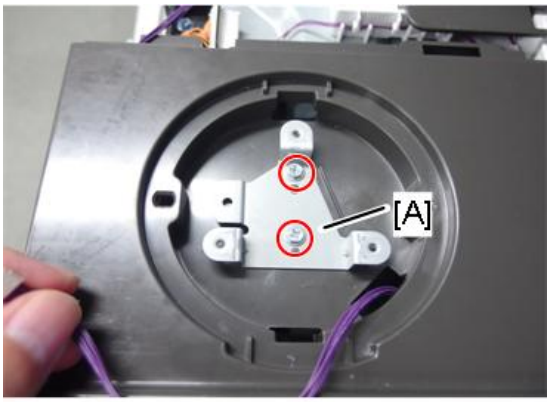


25. Pull out the white 5-pin connector of the harness routed in step 22.

m0ajm0178

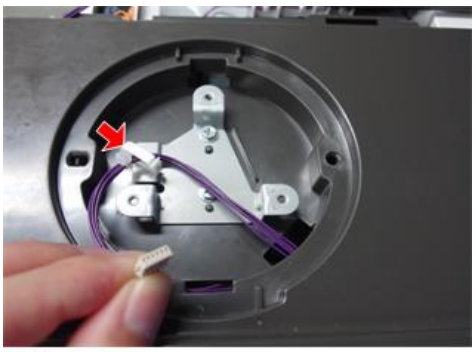
26. Reattach the covers in the following order: controller box cover, rear right cover, and rear cover.

27. Attach the bracket [A] (M3x8 round-head screws).



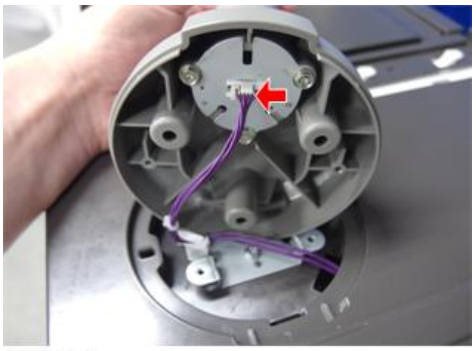
x2 m0ajm0179

28. Attach the large clamp (provided with this unit) on the bracket.



x1 m0ajm0175

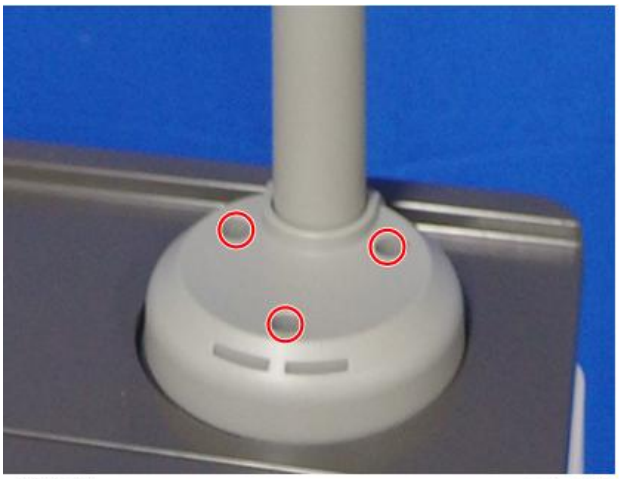
29. Connect the harness to the connector of the attention light.



x1 m0ajm0177

30. Attach the attention light on the main machine (M3x8).

Make sure the harness does not get caught when attaching the attention light.



x3 m0ajm2077

31. Reattach the covers in the following order: top right cover, front upper cover, and small cover.

Indicator Behavior

When multiple conditions coincide, statuses are indicated in the following order:

Priority	Indication	Machine Status
1	Lights in red	Unable to execute a job. User intervention required to resume job. For example, a condition such as the following has occurred: • Normal SC (SC type D) • Fatal SC (SC type A) • Paper misfeed • Memory full • Paper end • Toner end
2	Flashes in yellow	The following borderline condition occurred while executing a job: • Toner near end • Waste toner near end

Priority	Indication	Machine Status
		• Paper near end*1
3	Flashes in blue	Data-in
4	Lights in blue	Printing
5	Unlit	Status other than those described in 1, 2, 3, and 4.

*1: For the paper near-end status, the indicator flashes yellow only if "Low Paper Indicator (Yellow Flashing)" is set to "Active" in "User Tools" icon > "Machine Features" > "System Settings" > "Basic Settings".

Imageable Area Extension Unit Type P11 (M500-49)

Component Check

No.	Description	Q'ty	Remarks
1	Paper transfer roller (Extended)	1	

d238m0677

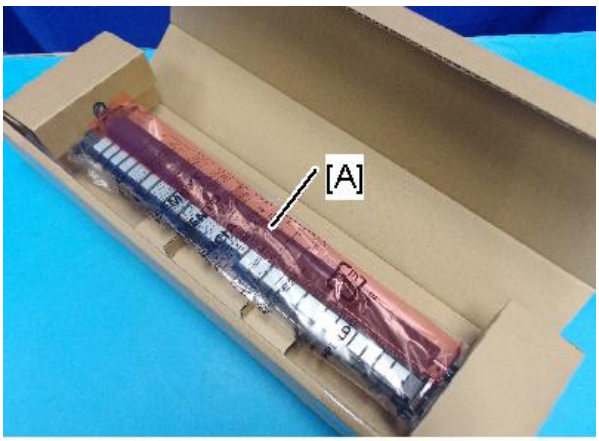
Installation Procedure

⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Important

- Do not touch the roller surface during replacement. Also, when taking out the unit from the box, be careful not to touch the roller surface [A].



d238m0678

1. Enter the SP mode.
2. Set SP2-400-001 (Paper Transfer Roller Settings Width of Paper Transfer Roller) to "1 (1: Wide roller)".

   Note

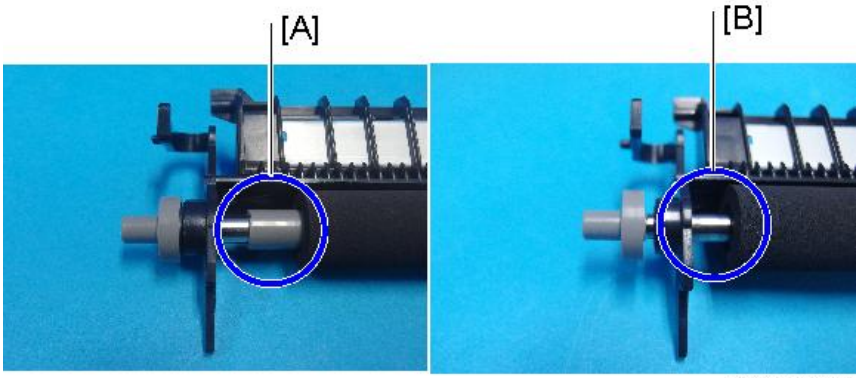
   - When SP2-400-001 is changed over, a message is displayed stating "Switch the power OFF/ON".
3. After the SP is changed, turn OFF the main power.
4. Replace the roller [A].

   For details about how to replace the roller, refer to Paper Transfer Roller.

d238m0680

Note

- During PM replacement, do not install the wrong type of roller.



d238m0679b

- [A]: The standard roller has a gray collar at its end.
- [B]: Imageable Area Extension Unit Type P11 does not have a collar on it.

5. Turn ON the main power.
6. Using SRA3 paper, check that a full-bleed halftone image is output, and that the image extends to 315 mm in width.

SP descriptions

- **SP2-400-001 (Paper Transfer Roller Settings)**

  Specifies the width of the Paper Transfer Roller. This SP must be set to"1" when Imageable Area Extension Unit Type M19 is installed.

  0: Default roller

  1: Wide roller

When You Forgot to Change the SP

The following problems occur.

When a change-over was made from a standard roller to the imaging range extension option

(If the SP setting is 0 (Default roller), but the optional longer paper transfer roller is installed)

- The image cannot be correctly transferred to the SRA3 paper area.
- The MUSIC/program control pattern adheres to the ends of the paper transfer roller (outside the A3 area), and this can transfer to the underside of printouts.
- Real-time process control cannot be performed correctly, and an abnormal image and SC285-00 (MUSIC

error) may occur.

When a change-over was made from the imaging range extension option to a standard roller

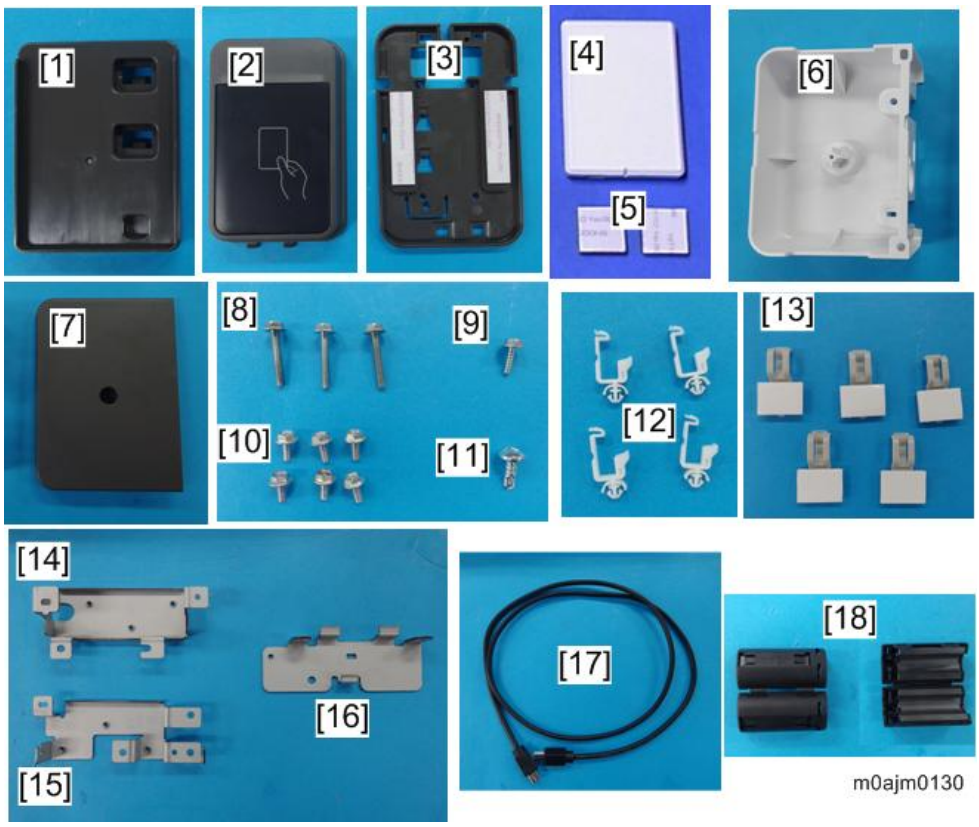
(If the SP setting is 1 (Wide roller), but the paper transfer roller is the normal one (SRA3 paper not supported))

- Real-time process control is not performed, and the interval between process controls becomes short.
- The waiting time for fusing temperature rise is longer than intended.

NFC Card Reader Type P11 (M512-18)

Accessory Check

No.	Description	Q'ty	Remarks
1	Reader Spacer	1	
2	Reader Cover	1	
3	Reader Holder	1	
4	NFC Reader	1	
5	Sponge Cushions	2	
6	Lower Cover	1	
7	Upper Cover	1	
8	Screw (M3x20)	3	
9	Screw (M3x10)	1	
10	Screw (M3x8)	6	This screw is used for making threaded holes in the cover.
11	Tapping screw (M5x13)	1	
12	Clamp	4	Not used in this machine
13	Stick-type Clamp	5	
14	Bracket A	1	
15	Bracket B	1	Not used in this machine
16	Bracket for Side Table	1	
17	USB cable 800mm	1	
18	Ferrite Core	2	
-	Decal: RoHS	1	

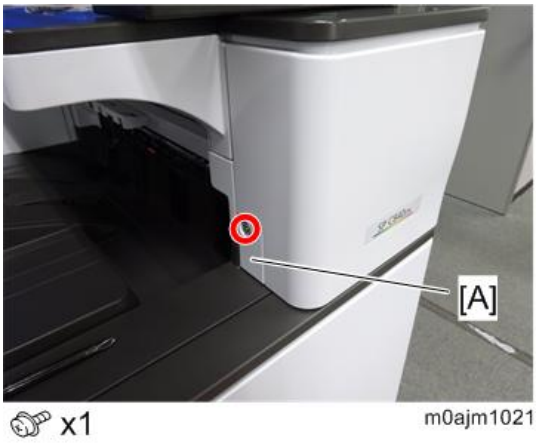


Installation Procedure

⚠CAUTION

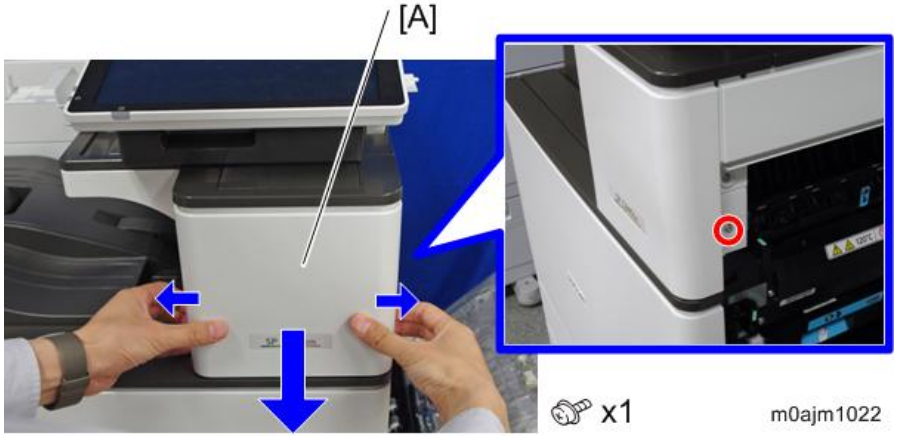
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the small cover [A].



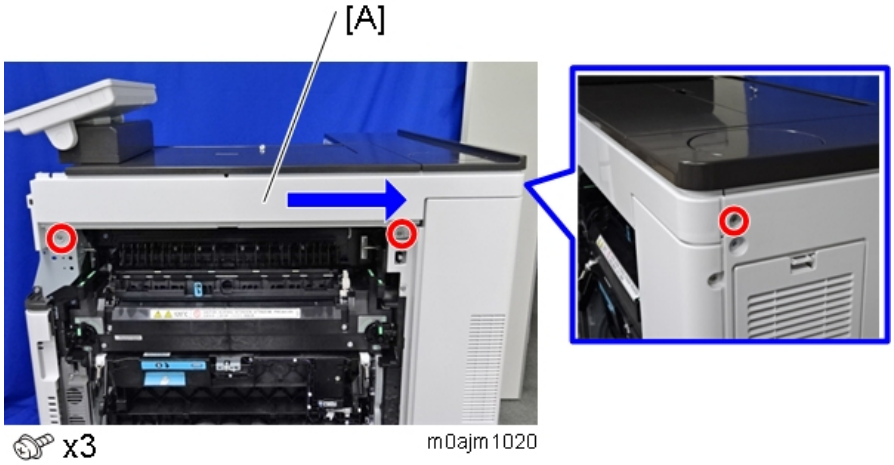
2. Open the right door.

3. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.

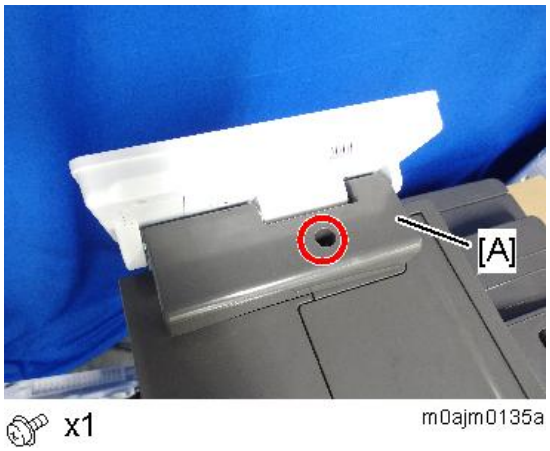


4. Remove the right upper cover [A].

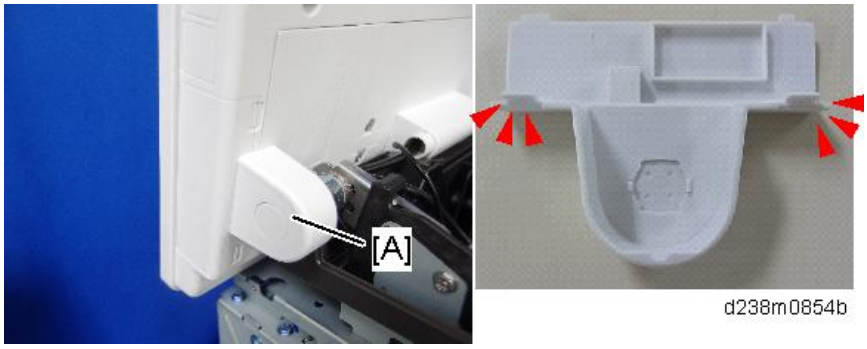
When removing the right upper cover, pull it out in the direction of the blue arrow.



5. Remove the operation panel upper cover [A].



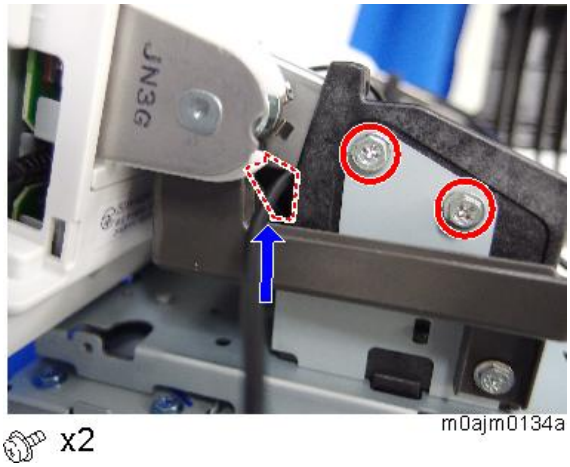
6. Remove the operation panel right cover [A].



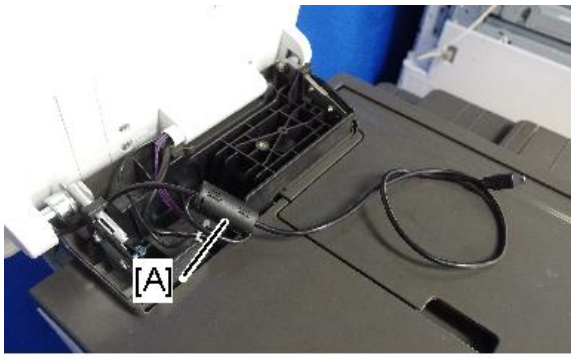
7. Connect the USB cable (800mm) to the machine's operation panel connector.

8. Pass the connector at the other end of the cable through the gap in the hinge.

If it is difficult to pass the cable through, loosen the two screws of the hinge to widen the gap. After passing the USB cable through, fasten the screws again.



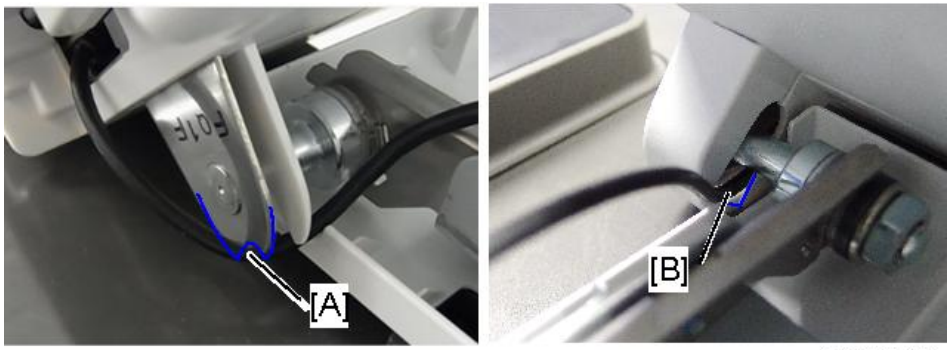
9. Make a single loop in the part of the cable which has passed through the gap in the hinge, and attach the ferrite core [A] to it.



m0ajm0168a

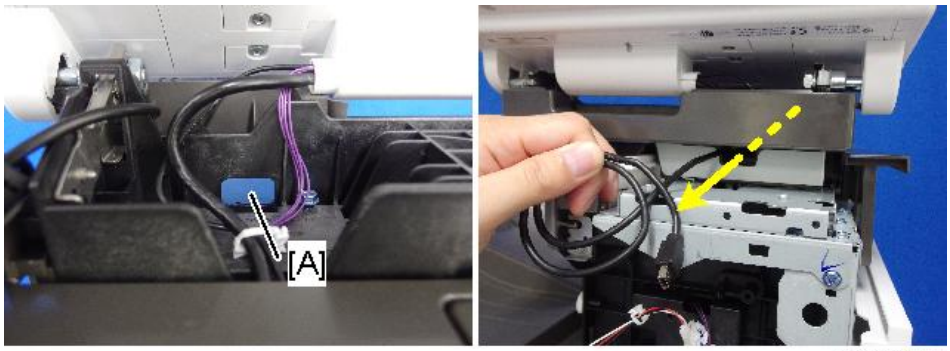
10. Reattach the operation panel right cover.

When reattaching the cover, pass the USB cable through the U-shaped groove [A] at the hinge of the operation panel and notch [B] on the cover under the cover.



d238m0861

11. Pass the USB cable through the hole at the front [A].



m0ajm0222

12. Reattach the operation panel upper cover.

Note

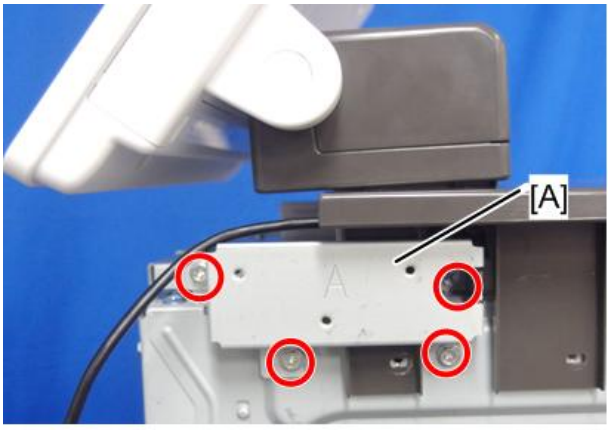
Depending on the part where the NFC reader is attached, store the surplus part of the USB cable under the operation panel upper cover.

Store the ferrite core behind the operation panel upper cover as shown below:

m0ajm0223

When attaching the cover, be careful not to trap the USB cable or harness between the covers.

13. Attach Bracket A [A] to the machine's right frame (M3x8).

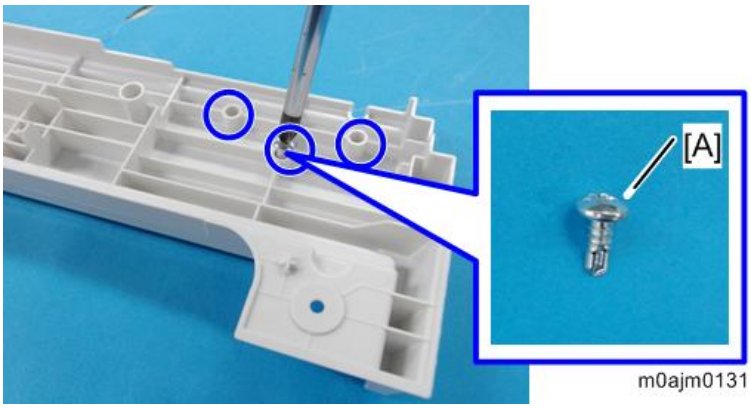


x4 m0ajm0132

14. Thread holes in the removed right upper cover (3 points).

Important

- Using the supplied tapping screw (M5x13) [A], position the screw at the center part of the guide rib and thread each hole. After threading each hole, use a tool such as a screwdriver to enlarge the hole so that the fastening screw (M3x20) can go through it.

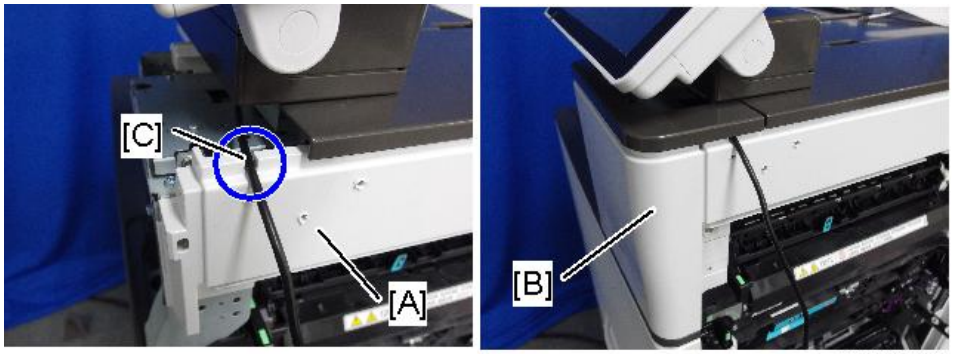


m0ajm0131

- Be careful not to drop the shavings into the machine (do not leave shavings around the holes).

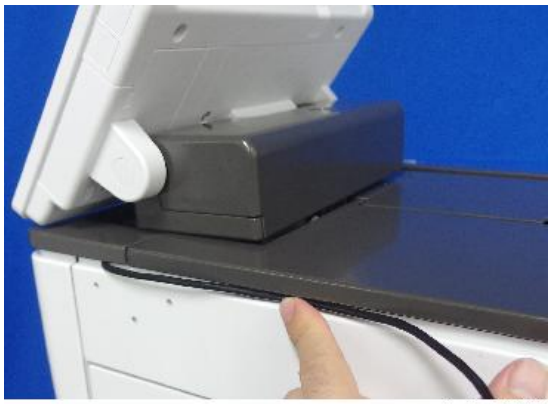
15. Reattach the covers in the following order: right upper cover [A], front upper cover [B], small cover.

When attaching the right upper cover, pass the USB cable through the notch [C] in the right upper cover.

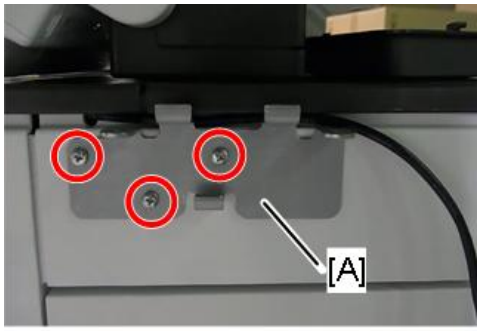


m0ajm0224

16. Pass the USB cable through the groove in the cover.

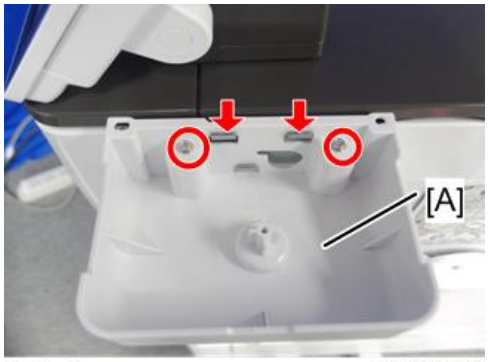

m0ajm0144b

17. Attach the bracket for side table [A] to the right upper cover (M3x20).



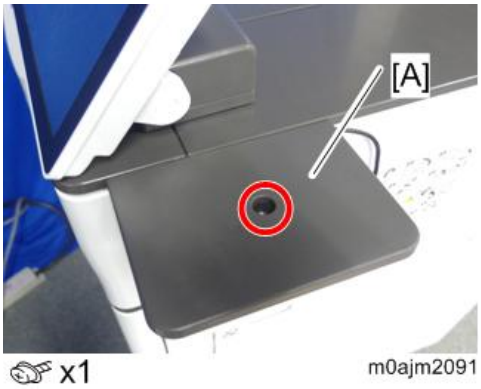
x3 m0ajm0169

18. Attach the lower cover [A] by engaging it with the two tabs on Bracket A (M3x8).

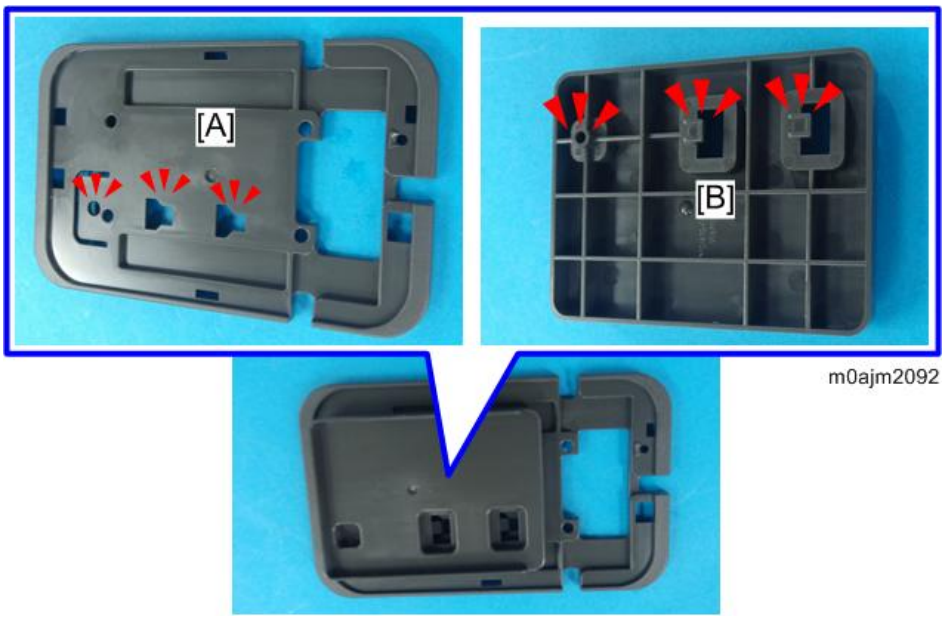


x2 m0ajm0138

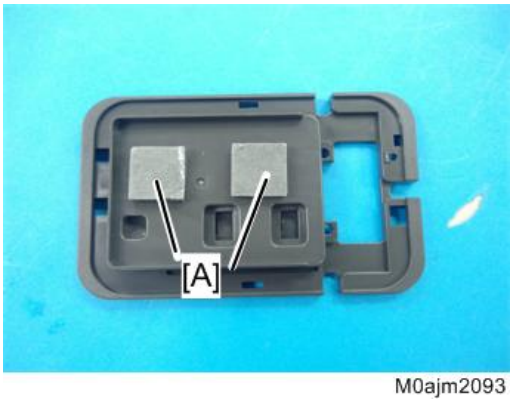
19. Attach the upper cover [A] (M3x10).



20. Attach the reader spacer [B] to the reader holder [A].

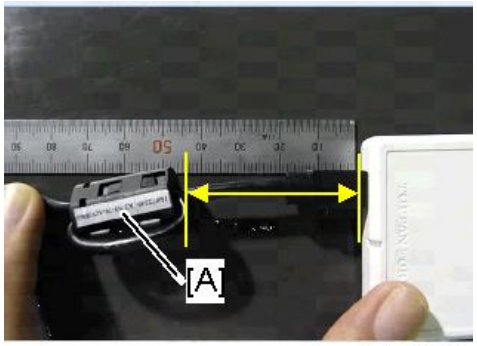


21. Attach the sponge cushions [A] to two points on the reader spacer as shown.



22. Make a single loop in the USB cable, and then attach the ferrite core [A].

Attach the ferrite core to the cable 45 mm away from the cable end.



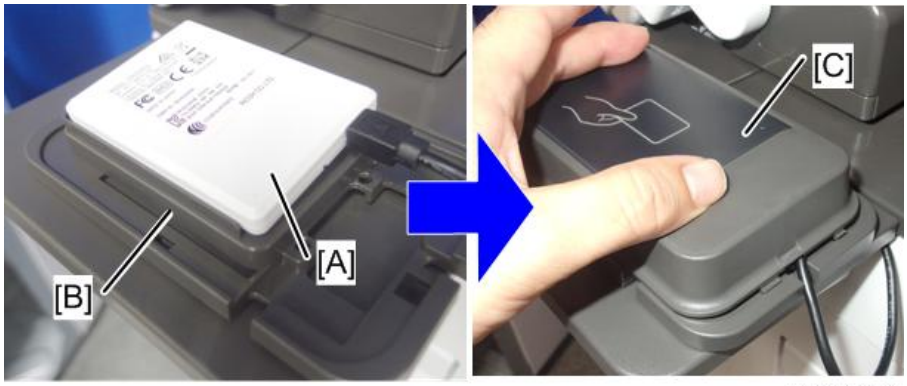
m0ajm0170b

23. Connect the USB cable to the NFC reader.

x1 m0ajm0170a

24. Place the NFC reader [A] on the spacer [B], and then attach the reader cover [C].

Be careful not to trap the USB cable between the covers.

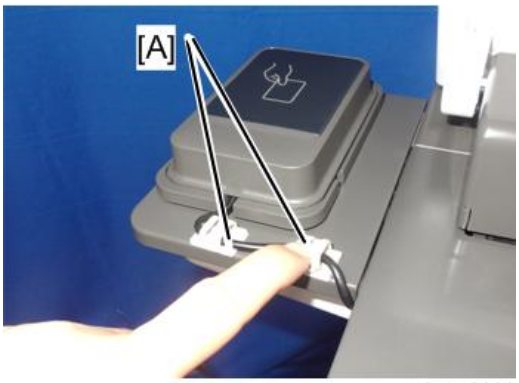


m0ajm2094

25. Remove the release paper [A] at the back of the reader holder, and then secure the NFC reader on the table.

m0ajm2095

26. As required, use the stick-type clamps [A] to secure the USB cable.



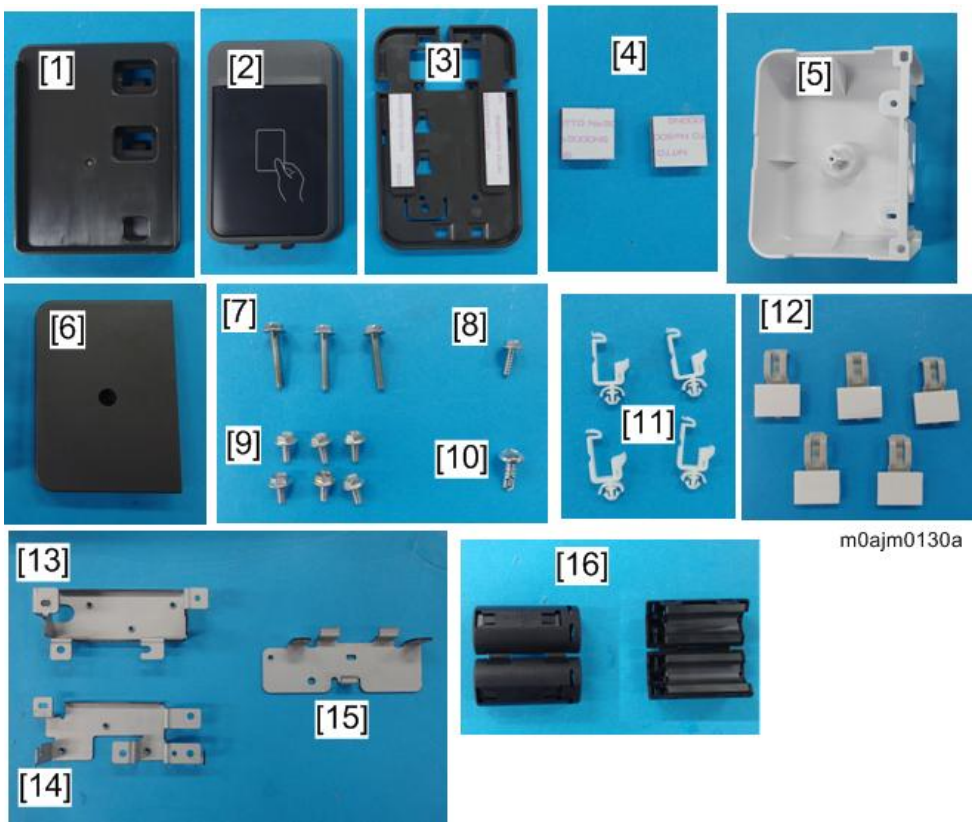
m0ajm2096

External NFC Card Reader Bracket Type P11 (M512-17)

Accessory Check

No.	Description	Q'ty	Remarks
1	Reader Spacer	1	
2	Reader Cover	1	
3	Reader Holder	1	
4	Sponge Cushions	2	
5	Lower Cover	1	
6	Upper Cover	1	
7	Screw (M3x20)	3	
8	Screw (M3x10)	1	
9	Screw (M3x8)	6	
10	Tapping screw (M5x13)	1	This screw is used for making threaded holes in the cover.
11	Clamp	4	
12	Stick-type Clamp	5	
13	Bracket A	1	
14	Bracket B	1	Not used in this machine
15	Bracket for Side Table	1	
16	Ferrite Core	2	
-	Decal: RoHS	1	

2.Installation



Installation Procedure

An IC card reader and a USB cable (recommended length: 800 mm) are not included with this unit. The customers must obtain these themselves, and the technicians must install them.

The installation procedure depends on whether the USB type is a USB mini [A] or standard type A [B] connector.

In the case of USB mini, connect directly to the control panel (in the same way as for the NFC Card Reader Type P11); in the case of standard type A, connect to the machine's interface connector.

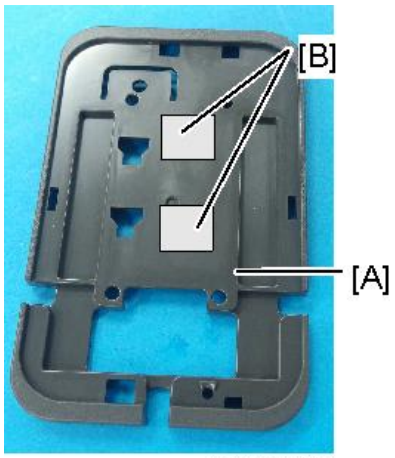
Procedure for Connecting to the Operation Panel USB Slot

The installation procedure is the same as for NFC Card Reader Type P11. For details, see NFC Card Reader Type 268

P11 (M512-18)

Important

The IC card reader provided by the customer may be too thick to attach to the reader cover. If this happens, it is not necessary to attach the spacer to the reader holder. Directly attach the sponge cushions [B] to the IC card reader holder [A].



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Procedure for Connecting to the Main Machine USB Slot

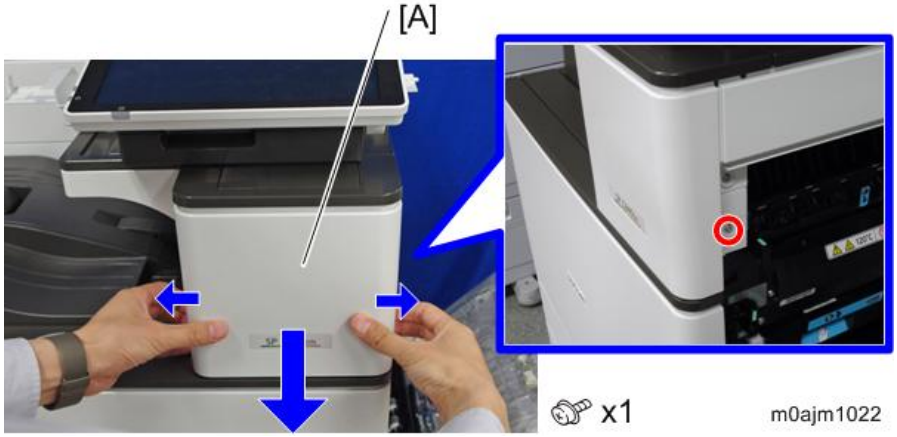
⚠CAUTION

When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the small cover [A].

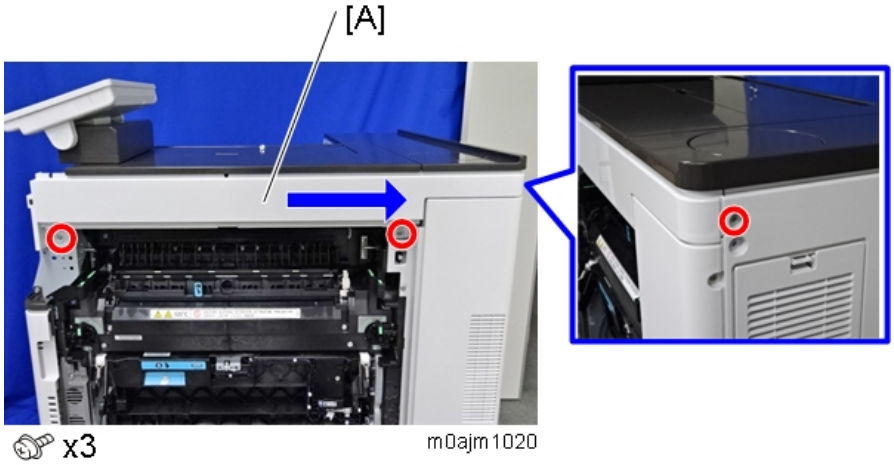
x1 m0ajm1021

2. Open the right door.
3. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.

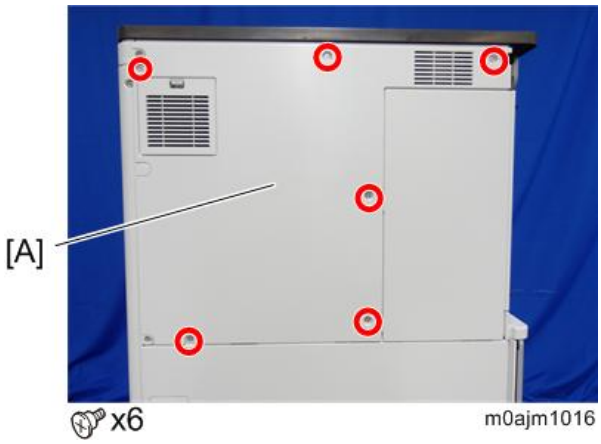


4. Remove the right upper cover [A].

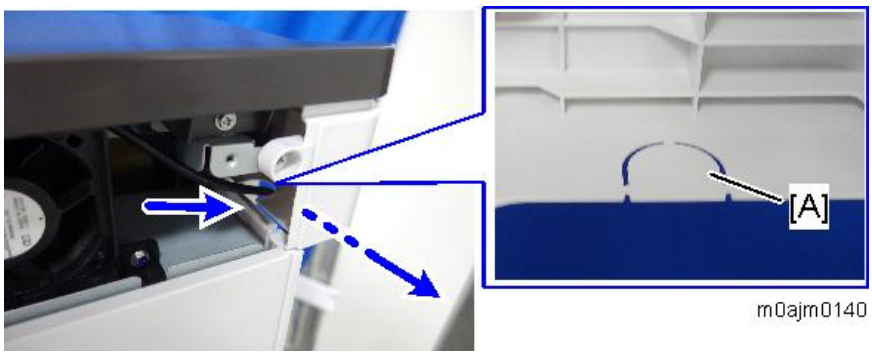
When removing the right upper cover, pull it out in the direction of the blue arrow.



5. Remove the rear cover [A].



6. Remove the cover [A] over the machine's USB slot and pass the cable through.



7. Make a single loop in the USB cable, and then attach the ferrite core [A].

m0ajm0238

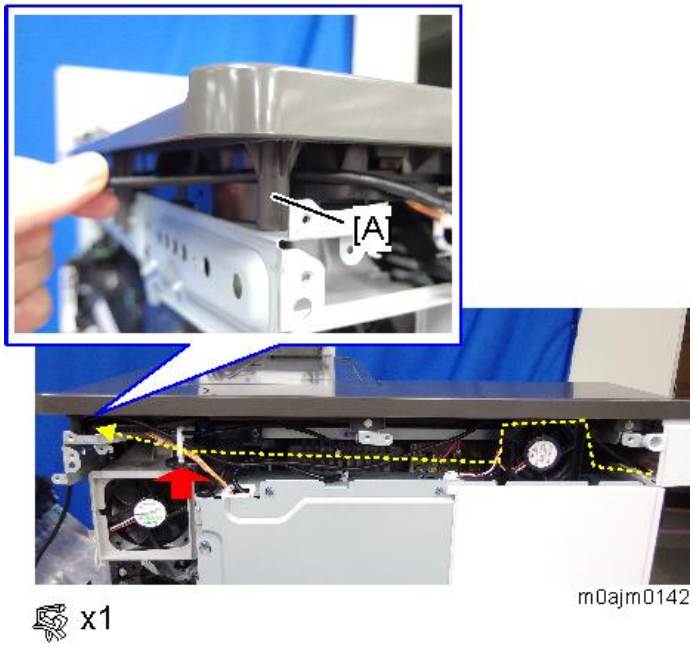
8. Connect the USB cable to the machine's USB port.

There are two USB ports. You can connect to either.

m0ajm0141a

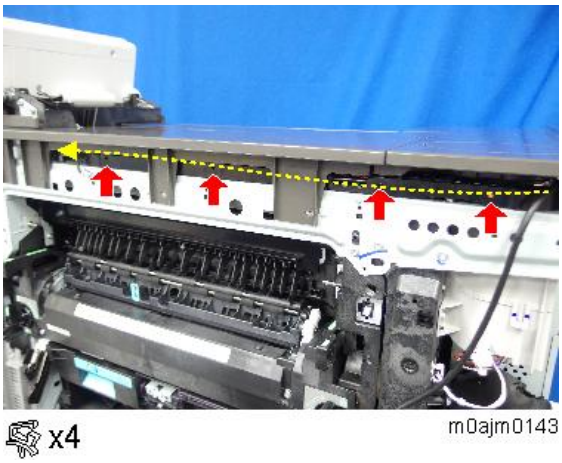
9. Pass the USB cable from the back to the right side of the machine.

Pass the cable behind the pillar [A].

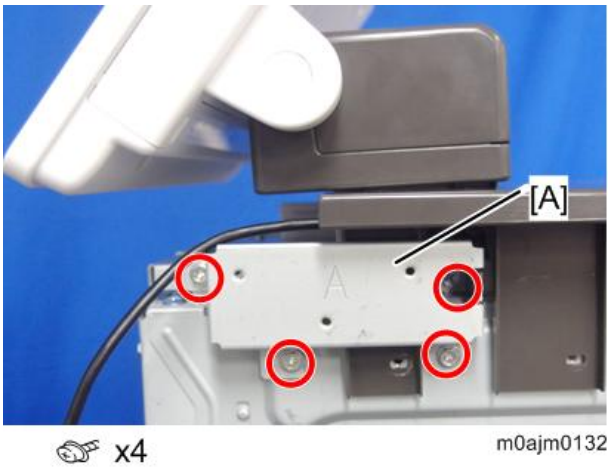


10. Clamp the cable at four points on the right side.

Use the clamps supplied with this option.



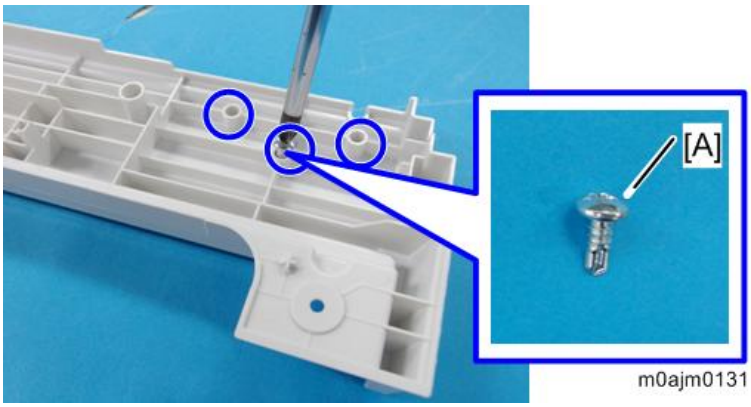
11. Attach Bracket A [A] to the machine's right frame (M3x8).



12. Thread holes on the removed right upper cover (3 points).

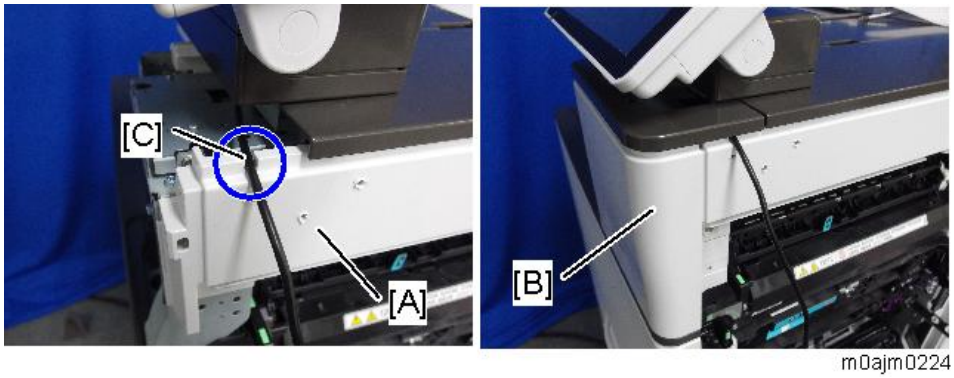
Important

- Using the supplied tapping screw (M5x13) [A], position the screw to the center part of the guide rib and thread each hole. After threading each hole, use a tool such as a screwdriver to enlarge the hole so that the fastening screw (M3x20) can go through it.

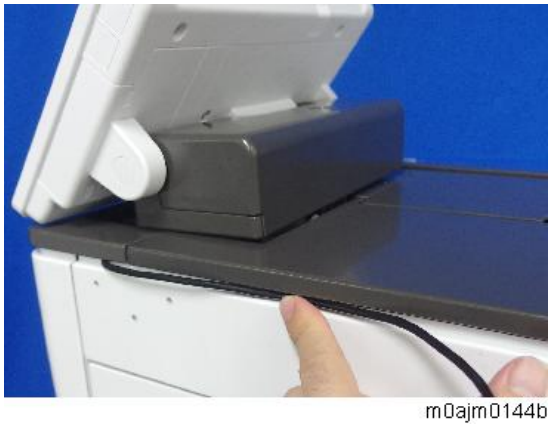


- Be careful not to drop the shavings in the machine (do not leave shavings around the holes).

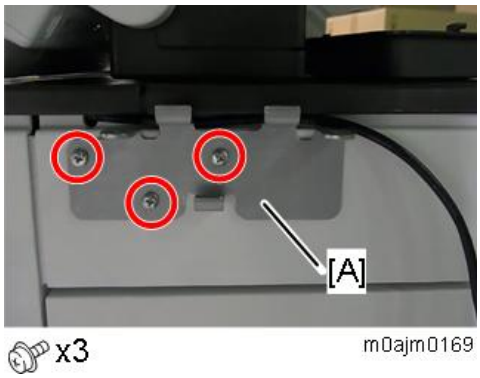
13. Reattach the covers in the following order: right upper cover [A], front upper cover [B], small cover.
When attaching the right upper cover, pass the USB cable through the notch [C] on the right upper cover.



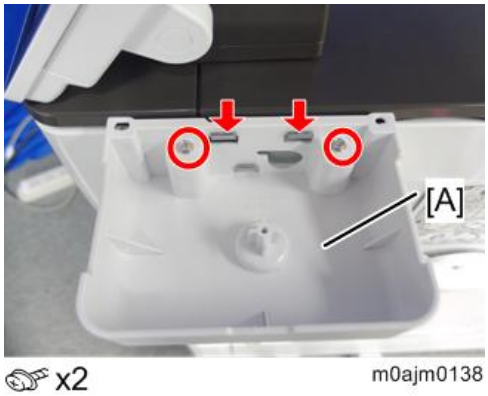
14. Pass the USB cable through the groove on the cover.



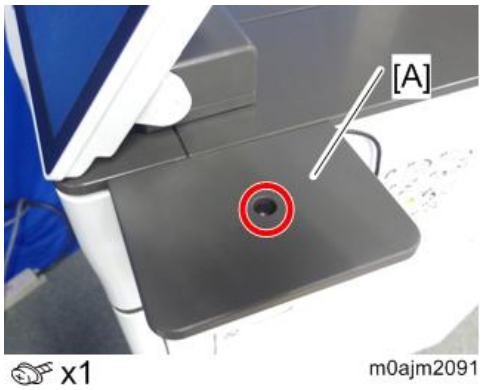
15. Attach the bracket for side table[A] on the right upper cover (M3x20).



16. Attach the lower cover [A] by having it engaged with the two tabs on Bracket A (M3x8).

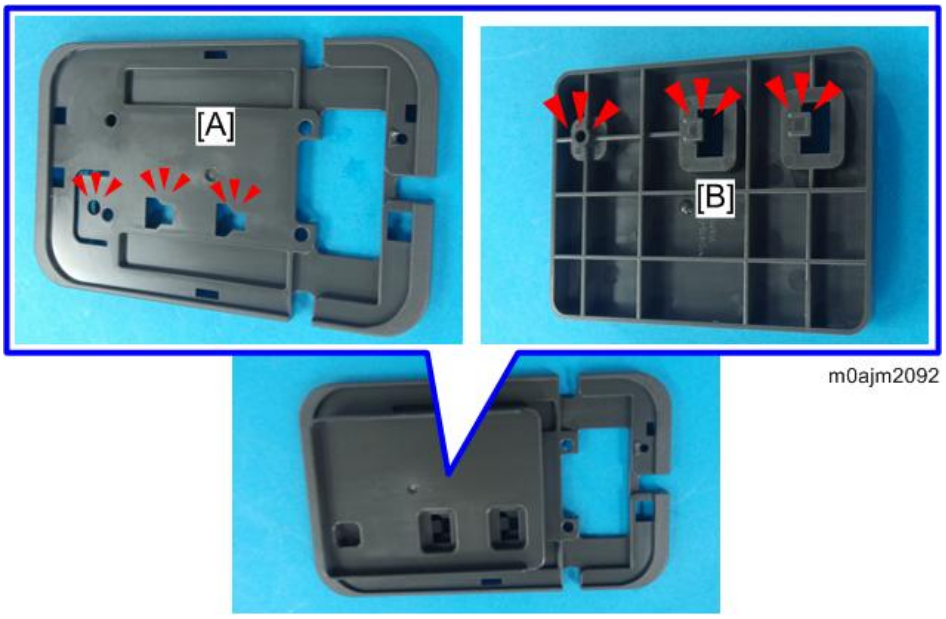


17. Attach the upper cover [A] (M3x10).



18. Attach the reader spacer [B] to the reader holder [A].

The IC card reader may be too thick to attach the reader cover. If this happens, it is not necessary to attach the spacer to the reader holder.



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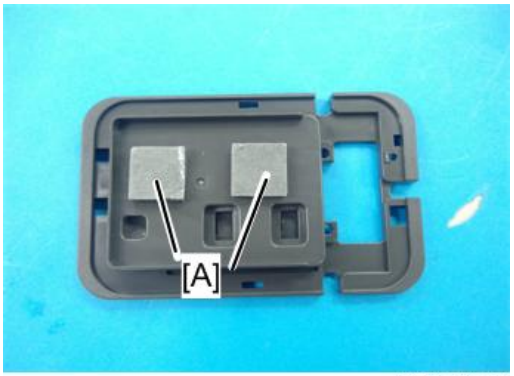
19. Attach the sponge cushions [A] on two points on the reader spacer as shown.

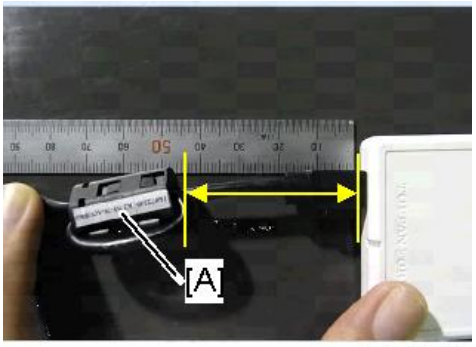
If you do not attach the spacer cushions in Step 17, attach them to the reader holder.



M0ajm2093

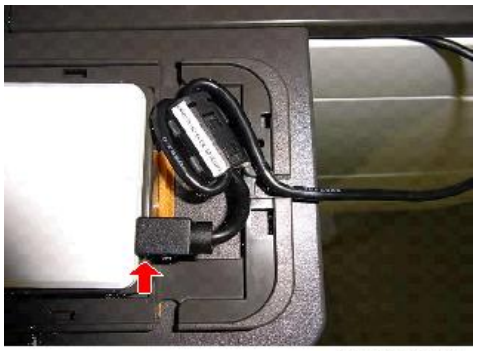
20. Make a single loop in the USB cable, and then attach the ferrite core [A].

Attach the ferrite core to the cable at the point 45 mm away from the cable end.



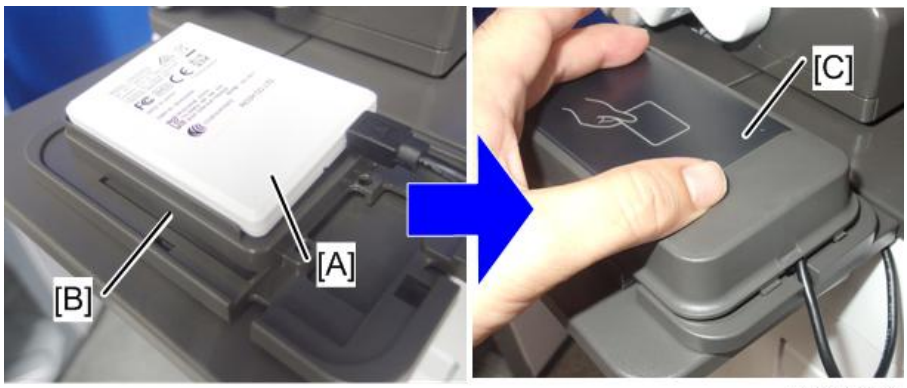
m0ajm0170b

21. Connect USB cable to the NFC reader.



x1 m0ajm0170a

22. Place the NFC reader [A] on the spacer [B], and then attach the reader cover [C].
Be careful not to have the USB cable trapped between the cover.

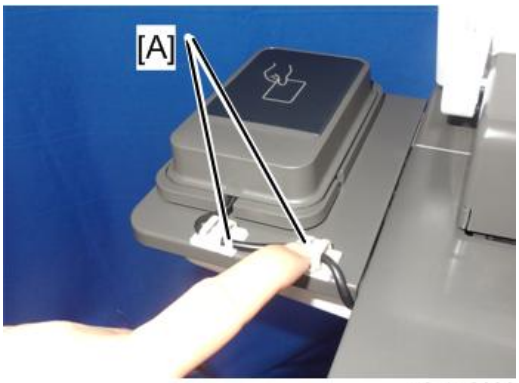


m0ajm2094

23. Remove the release paper [A] at the back of the reader holder, and then secure the NFC reader on the table.

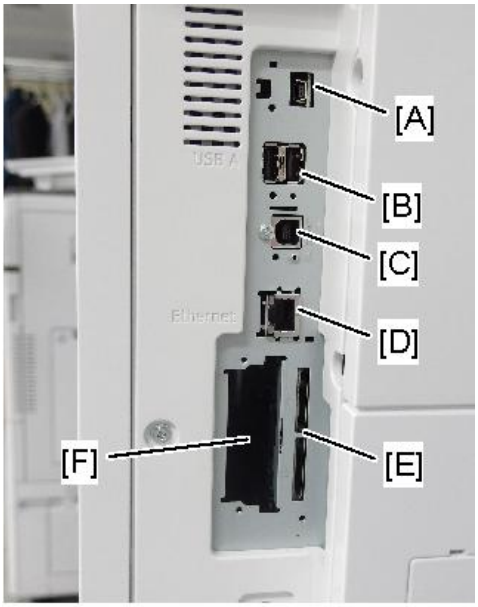
m0ajm2095

24. As required, use the stick-type clamp [A] to secure the USB cable.



m0ajm2096

Internal Options



m0ajm0014

Slot		Option
[A]	USB mini	-
[B]	USB port (type A)	• Used for the PictBridge function*1 • Used for the IC card authentication*1
[C]	USB port (type B)	• Used to connect a USB relay cable for the USB device server option. For printing via USB, a USB port on the Extended USB Board is used.
[D]	Ethernet port	• Used for the print function (via network)
[E]	SD card slot	• Refer to SD Card Slots
[F]	I/F slot	Used for one of the following internal options: • USB Device Server Option Type M19 (D3BC-28, -29) • Extended USB Board Type M19 (D3BS-01) • IEEE 1284 Interface Board Type M19 (D3C0-17) • IEEE 802.11a/g/n Interface Unit Type M19 (D3BR-01) • RC-GATE

*1 There is no difference between the left and right USB ports.

HDD Option Type P11 (M500-51)

Note

This option is not available in Korea

Component Check

No.	Description	Q'ty	Remarks
1	HDD	1	
2	Power Cord	1	
3	FFC	1	
4	Coin Screw	3	
-	EMC Address	1	

Installation Procedure

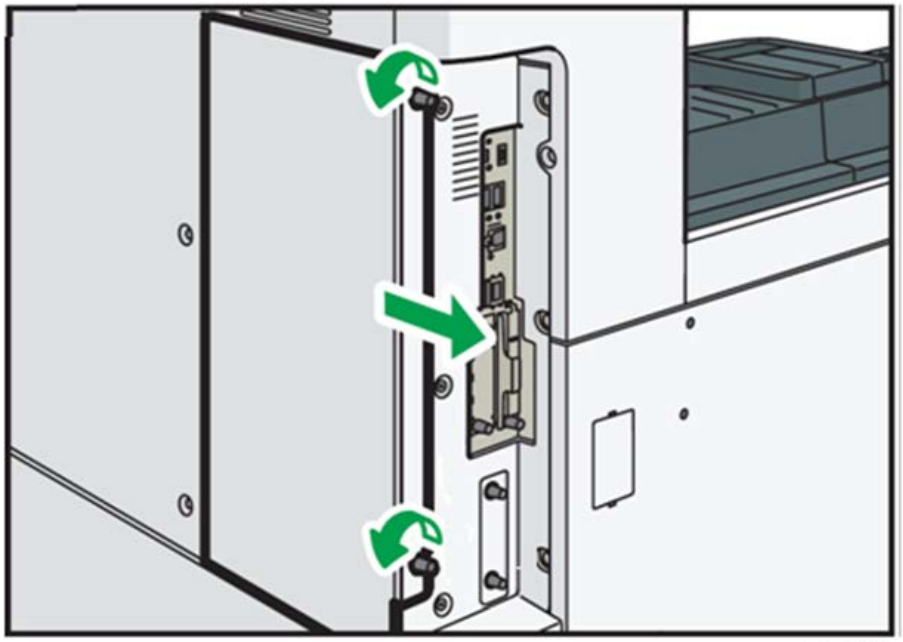
CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the HDD option.

Note

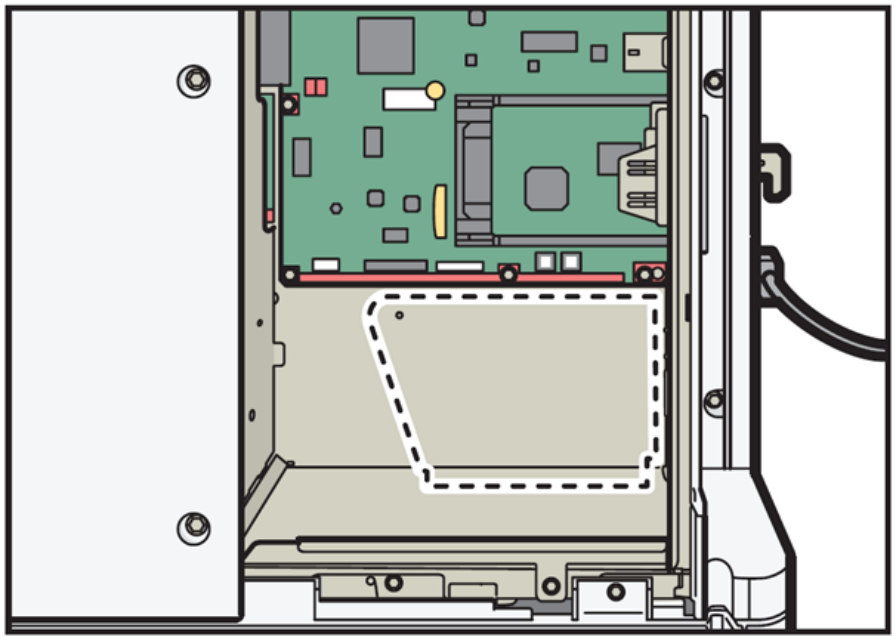
- Do not give a physical shock to an HDD.

1. Remove the rear left cover [A] (coin screw x 2).



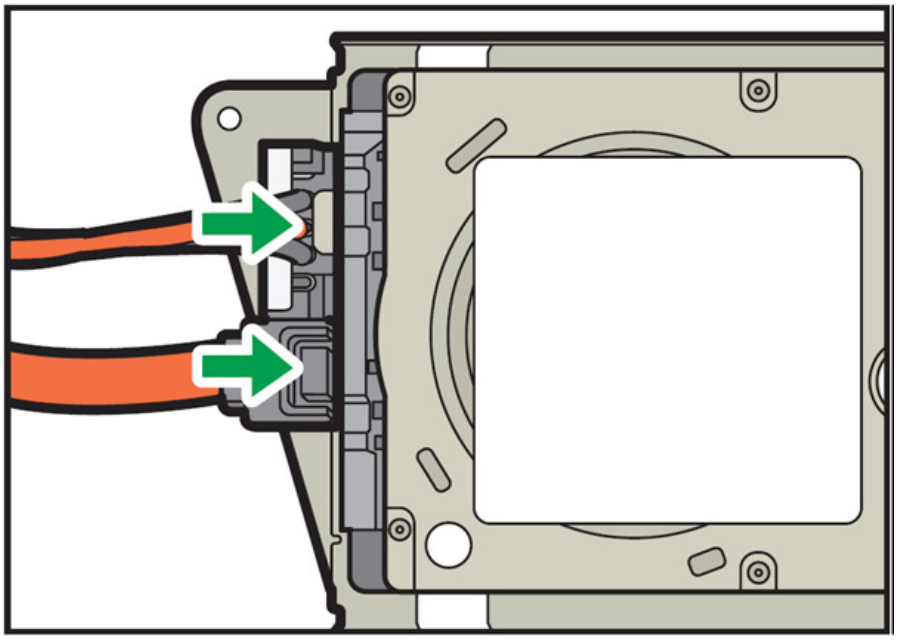
m0ajm0314

2. Install the HDD option in the indicated position.



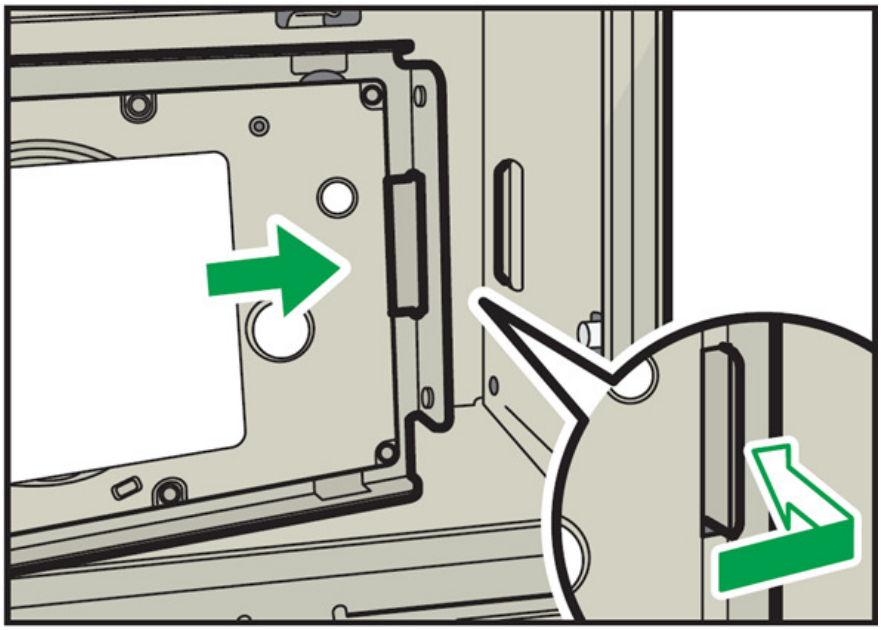
m0ajm0086

3. Connect the power cord and FFC to the HDD option.



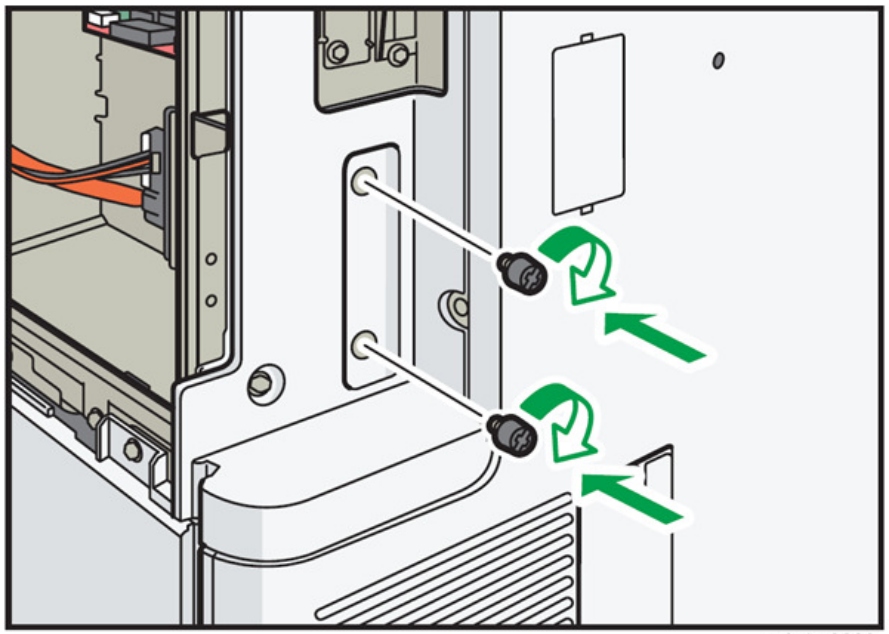
m0ajm0087

4. Hook the mounting indents on the HDD option onto the tabs on the side frame.



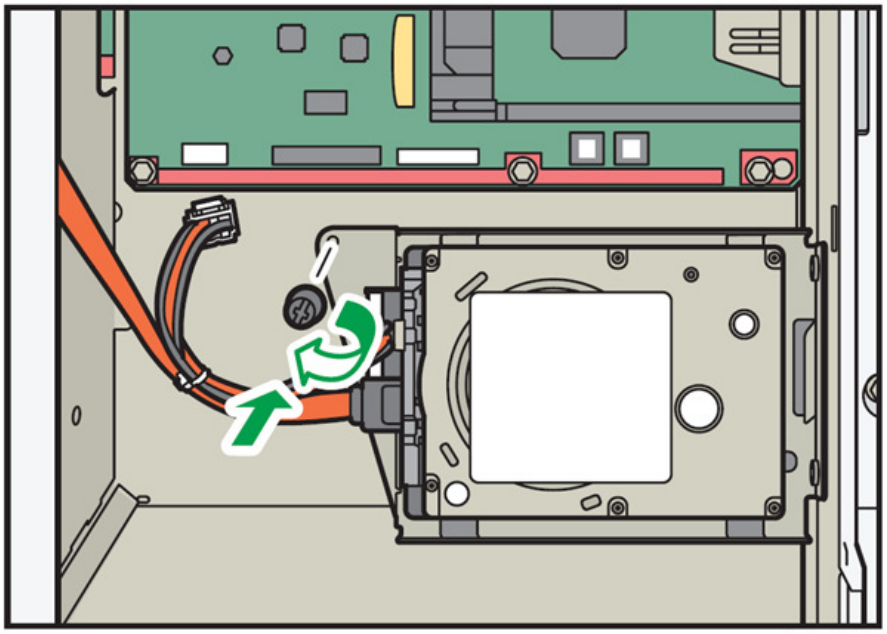
m0ajm0088

5. Fasten the HDD option (coin screw x2).



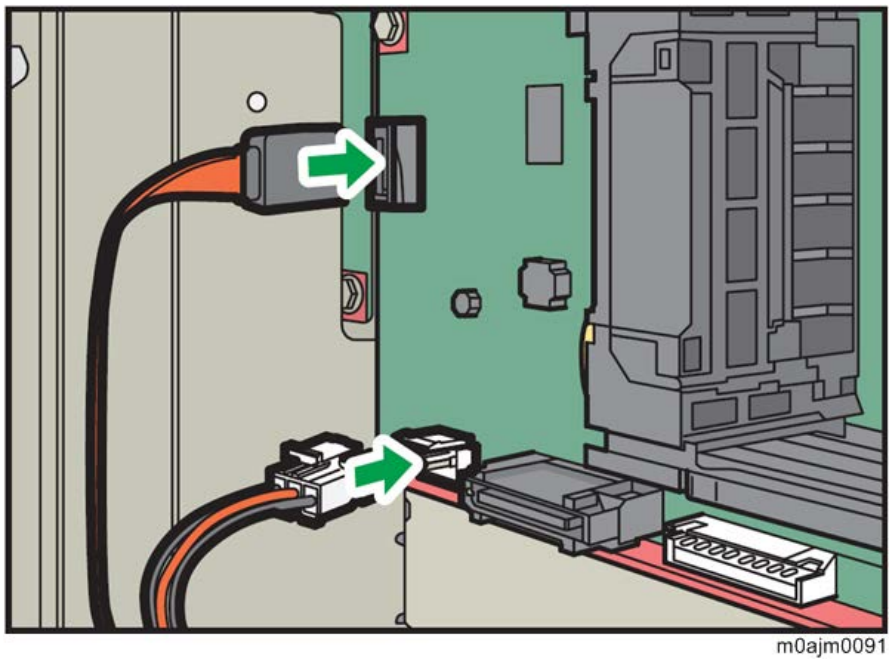
m0ajm0089

6. Fasten the HDD option to the controller board (coin screw x1).



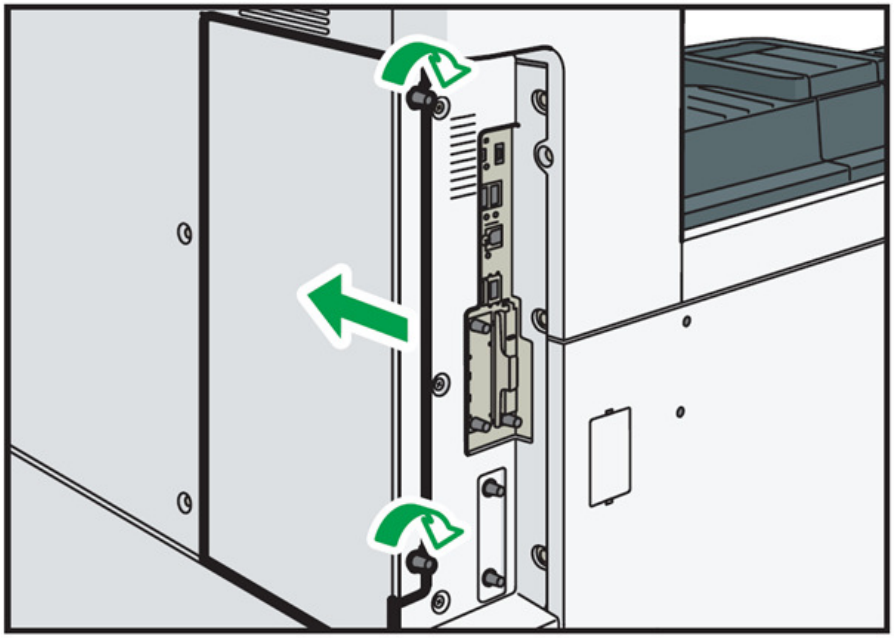
m0ajm0090

7. Connect the power cord and FFC to the controller board.



m0ajm0091

8. Reattach the exterior cover (coin screw x 2).



m0ajm0092

9. Turn ON the main power.

Initialization (formatting) of the HDD automatically starts.

10. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

11. Select "HDD" in "Advanced Options" tab of the printer driver.

Follow the procedure below on Windows 7 as an example;

(1) Point to the "Start" menu > "Devices and Printers", and right click the printer icon.

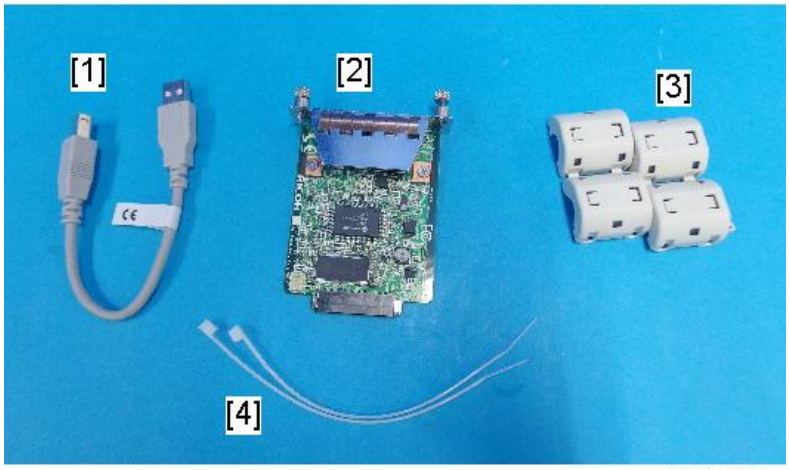
(2) Click "Printer Properties", and click the "Advanced Options" tab.

(3) Select "HDD".

USB Device Server Option Type M19 (D3BC-28,-29)

Component Check

No	Items	Q'ty	Remarks
1	USB Cable	1	
2	Interface Board	1	
3	Ferrite Core	2	
4	Cable Ties	2	Only for NA model

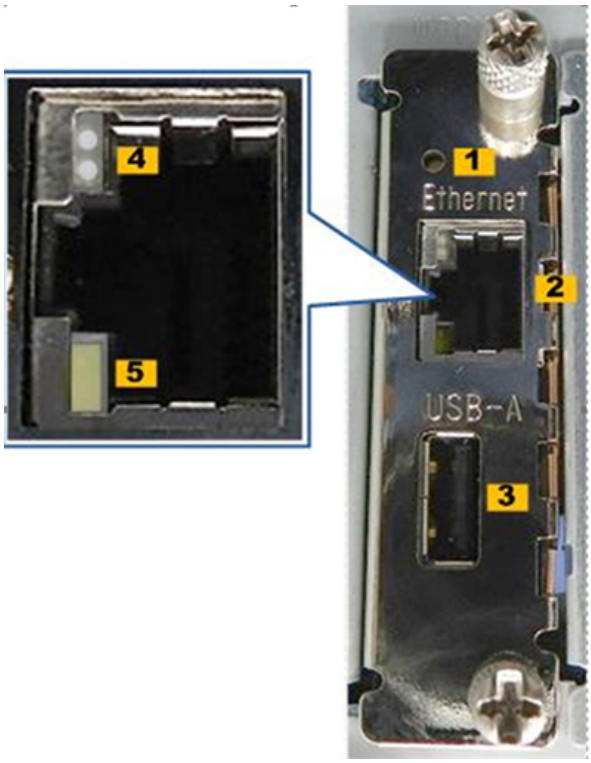


d238m0666

Note

- An Ethernet cable is not packed with this option.

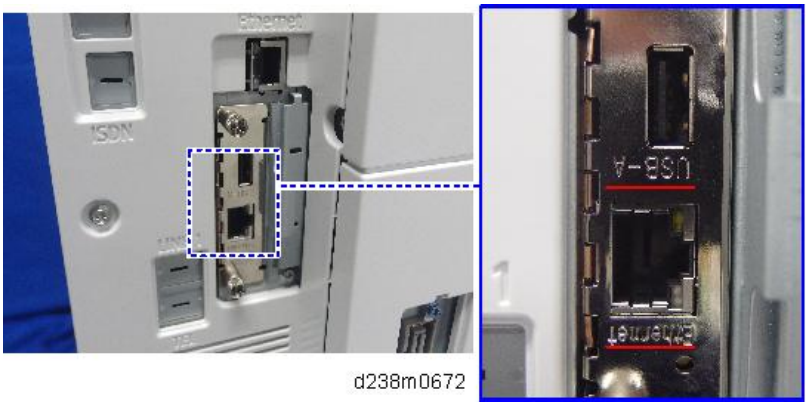
Interface Board Surface



No.	Item	Description
1	Switch	Used to reset to the factory settings.
2	Ethernet port	Used to connect the Ethernet cable.
3	USB port	Used to connect this option to the main machine. Do not use this port with other options.
4	LED1	• When 1000BASE-T is operating, both LED1 and 2 are lit. • When 10BASE-T is operating, the LED is lit green. • When 100BASE-TX is operating, the LED is lit orange.
5	LED2	

Note

- When installing the USB device server option, make sure that the labels 'USB-A' and 'Ethernet' are upside down.



Installation Procedure

CAUTION

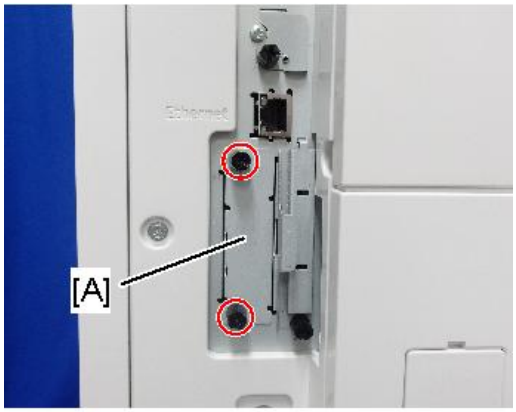
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Important

- The USB device server option has an IP address stored on the PCB. This is different from the machine's IP address. The IP address and other network settings of the USB device server option must be configured after installing this option.

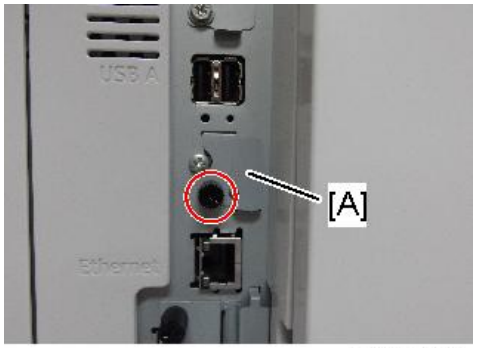
1. Turn OFF the main power of the machine, and unplug the power cord from the wall socket.

2. Remove the slot cover [A] (coin screw x 2).



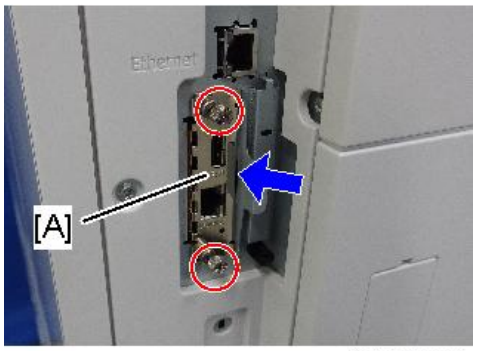
m0ajm0015

3. Remove the USB (type B) port cover [A] (coin screw x1).



m0ajm0165

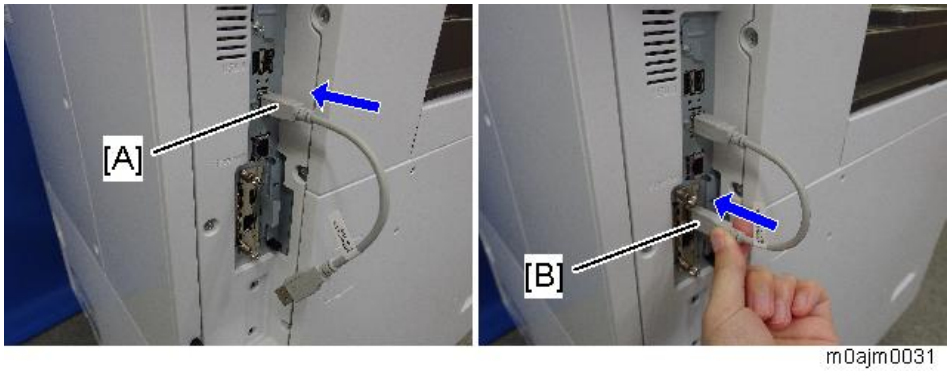
4. Insert the interface board [A] into the I/F slot (coin screw x 2).



m0ajm0030

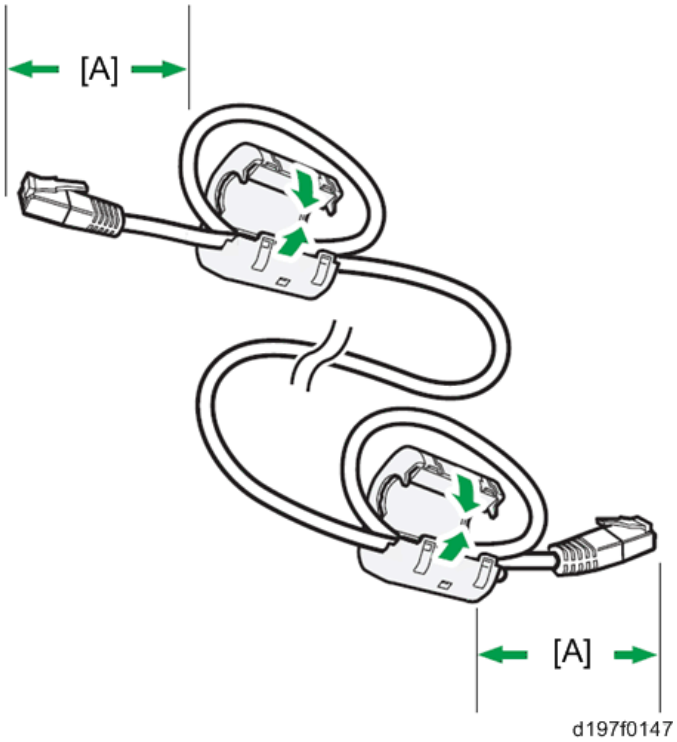
5. Insert the USB cable [A] into the USB port (Type B) on the machine I/F.

6. Insert the other end of the USB cable [B] into the USB port (Type A) on this option board.

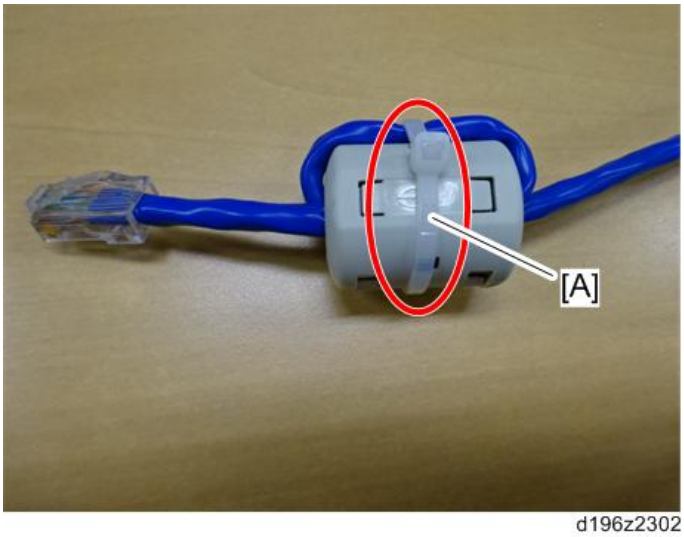


m0ajm0031

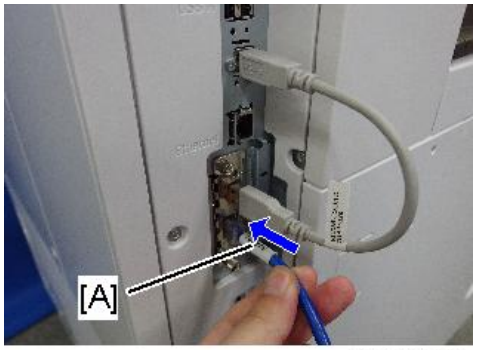
7. Attach the ferrite cores to the Ethernet cable, while looping the cable at 3 cm (approx. 1.2 inch) [A] from each end of the cable.



8. Only for installing this option in North America, bind both cores with cable ties [A] as shown below. The two binds are not included in options produced before March, 2015. To bind the cores, use the binds registered as service parts or similar ones.



9. Insert the Ethernet cable [A] into the Ethernet port on this option.



m0ajm0032

10. Insert the other end of the Ethernet cable to a network device (exsuch as a hub) for network setup.

Note

- At the initial installation, connect USB device server option and computer and configure the IP address and network settings.

11. Plug the power cord into the wall socket and turn on the main power of the machine.

Note

- Do not unplug the USB cable while the machine is recognizing this option. It may take between 30 seconds to 1 minute to finish recognizing it (the LEDs on the Ethernet port of this option light up after recognizing this option; see below). If unplugged, connect the cable again.

12. Make sure that the machine recognizes this option correctly by doing one of the following:

1. Access the option's IP address from a web browser.
2. Ping the option's IP address from a command prompt on a Windows PC in the same network as the mainframe.

   If the IP address cannot be found (DHCP server), use the MAC address. This is the number printed on the seal attached to the printed circuit board for the USB server.

d196z2350

3. Use "RX" + the option's MAC address and access a web browser.

   Example: http://RX0080926A3264

d196z2351

4. Ping "RX" + "MAC address" from the command prompt on a windows PC which is on the same network as the mainframe.

```
C:\Users\[redacted]>Ping RX0080926A3264

Pinging RX0080926A3264 [192.168.100.100] with 32 bytes of data:
Reply from 192.168.100.100: bytes=32 time=1ms TTL=255
Reply from 192.168.100.100: bytes=32 time<1ms TTL=255
Reply from 192.168.100.100: bytes=32 time<1ms TTL=255
Reply from 192.168.100.100: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.100.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

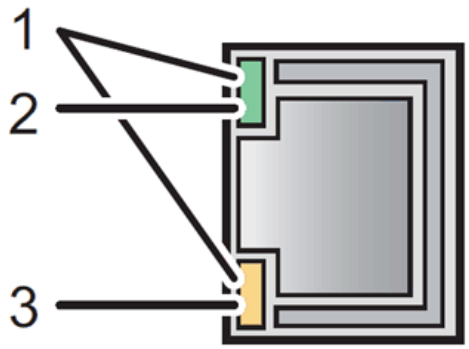
d196z2352

Note

- When installing the USB Device Server Option Type M19, the installation status is not shown on the Configuration Page.
- The customer should keep the slot covers which were removed.

What Do the LED Indications Mean?

When this option is properly installed and recognized by the main machine, the LED indicators light up under the following conditions.



d197f0149

No.	Light Color	Lights Up When:
1	Green and Yellow	1000BASE-T operates
2	Green	10BASE-T operates
3	Yellow	100BASE-TX operates

IP Address Setting

This section describes how to set an IP address on this option manually. Note that you can set an IP address which is not only on the same network segment but also on a different network segment to share a single printer with

devices in multiple networks.

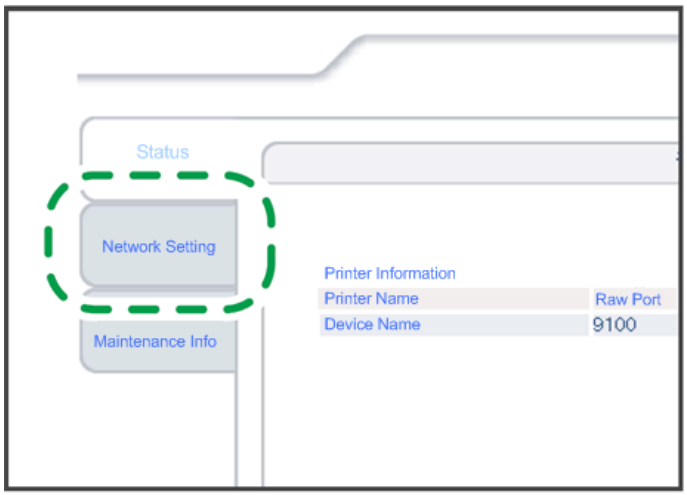
Important

- You cannot change the IP address for this option from the operation panel of the main machine. The setting must be done from a web browser on your PC.
- The network settings of this option are initially assigned as follows:
  IP address: 192.168.100.100 / Subnet mask: 255.255.255.0
- The network setting of your PC must be in the same network segment to change the network setting of this option.

1. Make a note of the current network settings of your PC.
2. Change the IP address on your PC to [192.168.100.xxx (*0 - 255)].
3. Change the subnet mask on your PC to [255.255.255.0].
4. Open a web browser.
5. Type [http://192.168.100.100/] in the address bar.
6. Press the "Enter" key.

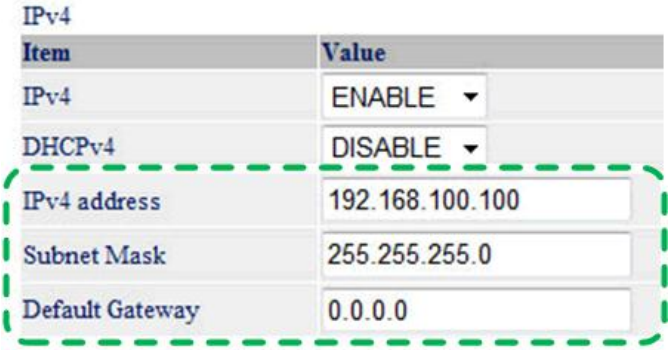
   Note

   - The setting screen for this option appears.
7. Click [Network Setting].



d197f0134

8. Type [root] in the user name textbox and click [OK].
9. Input [IP Address], [Subnet Mask] and [Default Gateway].



d197f0135a

10. Set other items if needed.

11. Press [Set]

12. Close the web browser.

13. Disconnect the Ethernet cable from the PC.

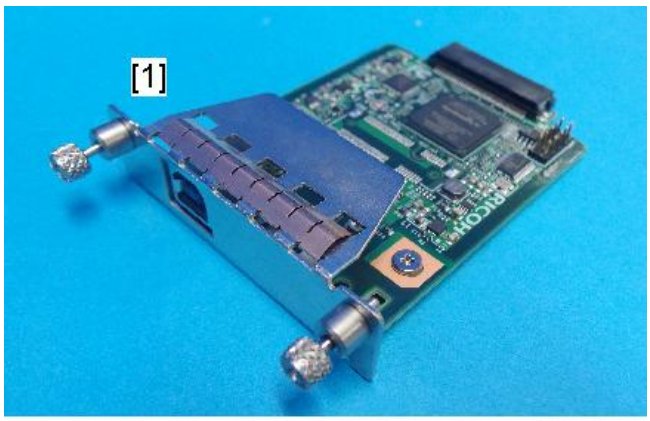
14. Connect the Ethernet cable to a network device (e.g. switching hub).

15. Set the IP address of this option in the printer driver which you use.

Extended USB Board Type M19 (D3BS-01)

Component Check

No	Items	Q'ty	Remarks
1	Extended USB Board	1	



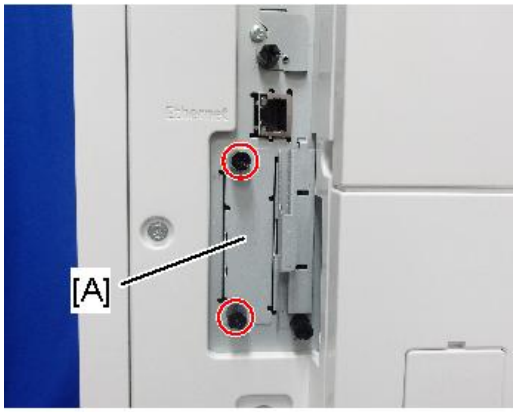
d238m0668

Installation Procedure

⚠CAUTION

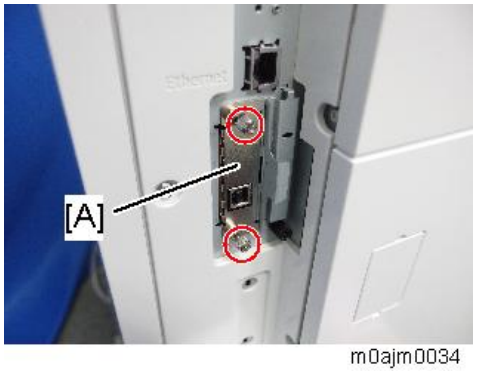
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body.

1. Remove the slot cover [A] (coin screw x 2).



m0ajm0015

2. Insert the Extended USB Board [A] into the I/F slot.



m0ajm0034

3. Turn ON the main power.

4. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

Note

- The customer should keep the slot covers which were removed.

IEEE 1284 Interface Board Type M19 (D3C0-17)

Accessory Check

No.	Description	Q'ty	Remarks
1	IEEE 1284 Interface Board	1	
2	FCC document	1	
3	Notes for users	1	

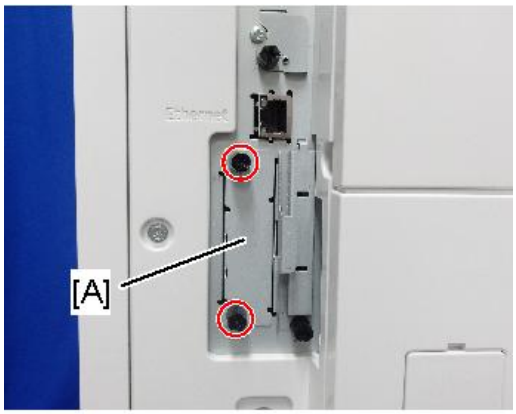
d238m0655

Installation Procedure

⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body. There is a possibility that the IEEE 1284 Interface Board may malfunction due to static electricity.

1. Remove the slot cover [A] (coin screw x2).



m0ajm0015

2. Insert the IEEE 1284 Interface Board into the I/F slot.

3. Turn ON the main power.

4. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

Note

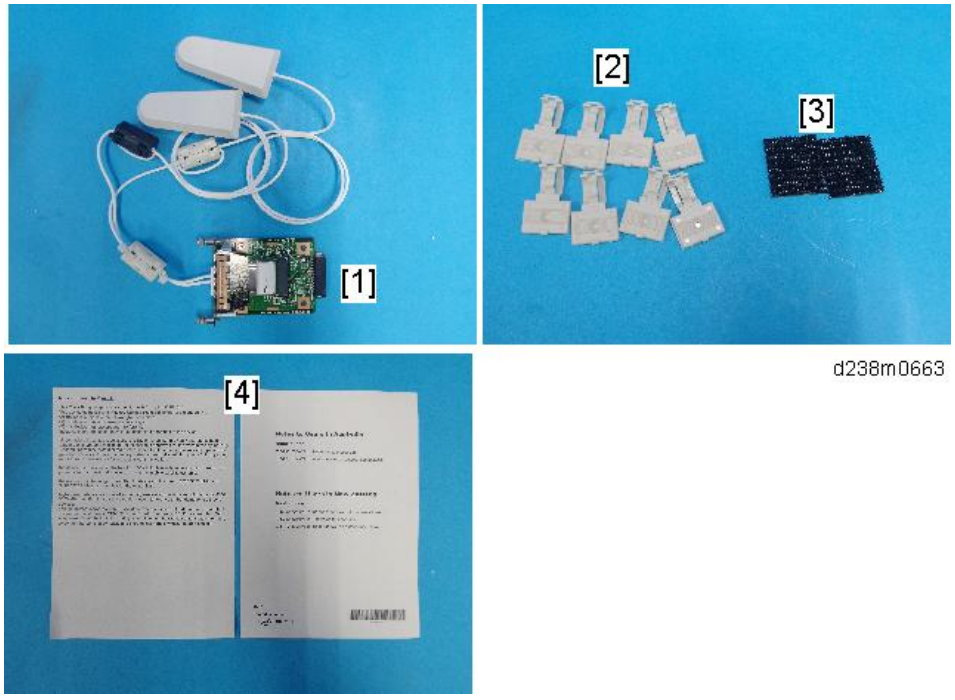
- The customer should keep the slot covers which were removed.

IEEE 802.11a/g/n Interface Unit Type M19 (D3BR-01)

This option is not available in China, and Korea.

Accessory Check

No.	Description	Q'ty
1	IEEE802.11a/g/n Unit	1
2	Clamps	8
3	Velcro Fasteners	2
4	Notes for Users	2



Important

- Since disassembly/alteration of a wireless LAN board is illegal, during service replacements, replace the whole PCB assembly.
- Be sure to give the provided leaflet to the customer.

Installation Procedure

CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body. There is a possibility that the extension wireless LAN board may malfunction due to static electricity.

Important

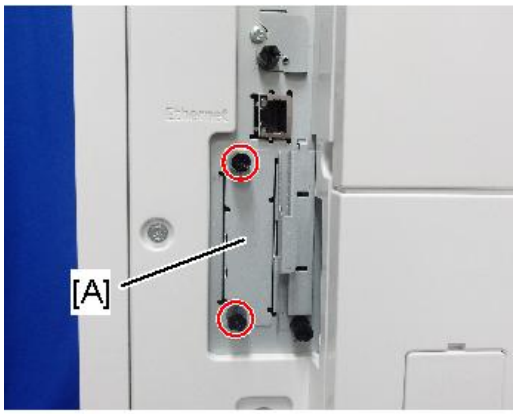
- When using wireless LAN (IEEE802.11 b/g/n:2.4-GHz band), this radio product uses the 2.4-GHz band.

Check that industrial, scientific and medical devices using the same frequency bands, such as a microwave oven or a cordless telephone, are not used nearby.

- If there is interference, communication may become unstable. Check that there are no devices likely to cause interference in the surrounding area.

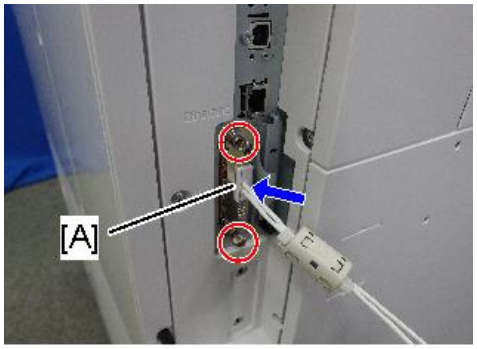
Attaching the boards

1. Remove the slot cover [A] (coin screw x 2).



m0ajm0015

2. Insert the extended wireless LAN board [A] into the slot (coin screw x 2)



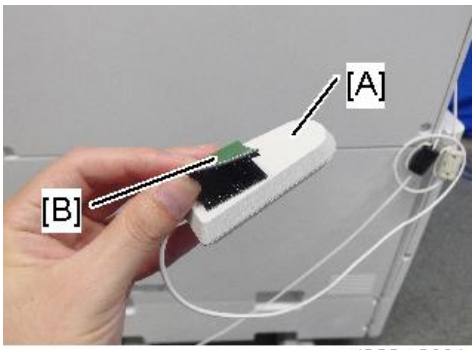
m0ajm0027

Note

- Press the extended wireless LAN board firmly in, and check it is firmly connected.
- The customer should keep the slot covers which were removed.

Attaching the Antenna

1. Attach the velcro fastener [B] (provided with this unit) on the antenna [A].



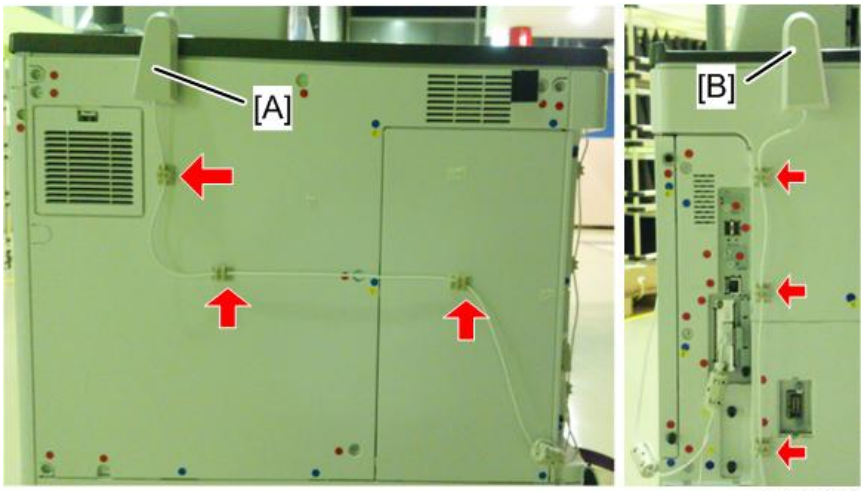
d238m0664

Note

- Attach the velcro fastener to the bottom half of the case (where the cable is located).
- You may attach the velcro fastener on either side of the case.

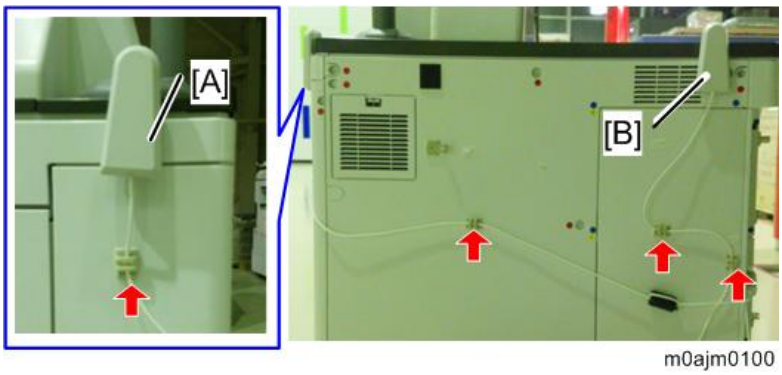
2. Peel the backing paper off the velcro fastener, and attach the antennas [A] and [B] as shown.

When a finisher is **NOT** installed: Use 6 cable stickers



m0ajm0099

When a finisher is installed: Use 4 cable stickers



m0ajm0100

Note

- When attaching 2 antennas, attach them 12 cm away from each other.
- Take care to loop it around so that it does not interfere with other options or I/F cables.

3. Turn ON the main power.

4. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

User Tool Settings for IEEE 802.11a/g/n

Go into the User Tools mode and do the procedure below. These settings take effect every time the machine is powered on.

Note

- IEEE 802.11a/g/n function is disabled while using Ethernet.

1. Press the "User Tools" icon.
2. Press "Machine Features" > "System Settings".

   Note

   - Select "Interface Settings"> "Network" > "LAN Type". The "LAN Type" (default: Ethernet) must be set for either Ethernet or wireless LAN.
3. Select "Interface Settings"> "Wireless LAN". Only the wireless LAN options show.
4. Set the "Communication Mode".
5. Enter the "SSID setting". (The setting is case sensitive.)
6. Set the "Ad-hoc Channel". You need this setting when Ad Hoc Mode is selected. The allowed range for the channel settings may vary for different countries.
   - For mainly Europe and Asia

     2412 - 2462 MHz (1 - 11 channels)

     5180 - 5240 MHz (36, 40, 44 and 48 channels)

     (default: 11)

     Note

     - In some countries, only the following channels are available: 2412 - 2462 MHz (1 - 11 channels)
   - For mainly North America

     2412 - 2462 MHz (1 - 11 channels)

     5180 - 5240 MHz (36, 40, 44 and 48 channels)

     (default: 11)
7. Set the "Security Method" to specify the encryption of the Wireless LAN.
   - The "WEP" (Wired Equivalent Privacy) setting is designed to protect wireless data transmission. The same WEP key is required on the receiving side in order to unlock encoded data. There are 64 bit and 128 bit WEP keys.
     - Range of Allowed Settings:

       64 bit: 10 characters

       128 bit: 26 characters
   - Specify "WPA2" when "Communication Mode" is set to "Infrastructure Mode". Set the "WPA2 Authent. Method".
     - WPA2 Authent. Method:

       Select either "WPA2-PSK" or "WPA2".

       If you select "WPA2-PSK", enter the pre-shared key (PSK) of 8-63 characters in ASCII code.

When "WPA2" is selected, authentication settings and certificate installation settings are required.

8. Press "Wireless LAN Signal" to check the machine's radio wave status using the operation panel.

- Press "Restore Factory Defaults" to initialize the wireless LAN settings.

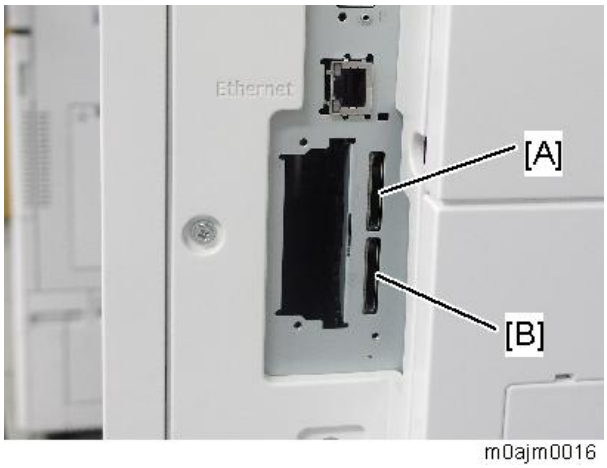
SP Mode Settings for IEEE 802.11 Wireless LAN

The following SP commands and UP modes can be set for IEEE 802.11

SP No.	Name	Function
SP5-840-006	Channel MAX	Sets the maximum range of the channel settings for the country.
SP5-840-007	Channel MIN	Sets the minimum range of the channels settings allowed for your country.
SP5-840-008	Transmission Speed	Sets the transmission speed. Auto, 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps (default: Auto).
SP5-840-011	WEP Key Select	Used to select the WEP key (Default: 00).
UP mode	Name	Function
	SSID	Used to confirm the current SSID setting.
	WEP Key	Used to confirm the current WEP key setting.
	WEP Mode	Used to show the maximum length of the string that can be used for the WEP Key entry.
	WPA2 Authent. Method	Used to confirm the current WPA authentication setting and preshared key.

SD Card Options

SD Card Slots



[A]: SD card slot 1 (option slot)

[B]: SD card slot 2 (service slot)

List of Slots Used

Optional SD cards can be set in either slot 1 or slot 2. But slot 2 is the service slot, so we recommend that you use slot 1 to install the SD card options.

SD card options for this machine

- VM Card Type P8 (VM Card Type P8 (M500-09, 10, 11))
- IPDS Unit Type P11 (IPDS Unit Type P11 (M500-45, -46, -47))
- XPS Direct Print Option Type P11 (XPS Direct Print Option Type P11 (M500-42, -43, -44))
- PostScript3 Unit Type P11 (PostScript3 Unit Type P11 (M500-63, -64, -65))
- Camera Direct Print Card Type M19 (Camera Direct Print Card Type M19 (D3BD-13))

Note

- In this machine, it is possible to transfer data from a "Postscript3 Unit" SD card, unlike in earlier models, due to a change in the software licensing (the part of the Postscript software that requires licensing is now built into the controller, so the portion on the SD card can be moved to another SD card).

SD Card Appli Move

Overview

Since there are only two SD card slots (one of them is a service slot), three or more SD card applications cannot be used simultaneously.

However, if multiple SD card applications are merged, three or more SD card options can be used.

This function is referred to as the "**SD card merge function**".

The "**SD card merge function**" is a function which enables the use of three or more functions within the capacity of two SD cards by physically transferring the function of one SD card to other SD cards (all SD card options can be stored in two SD cards).

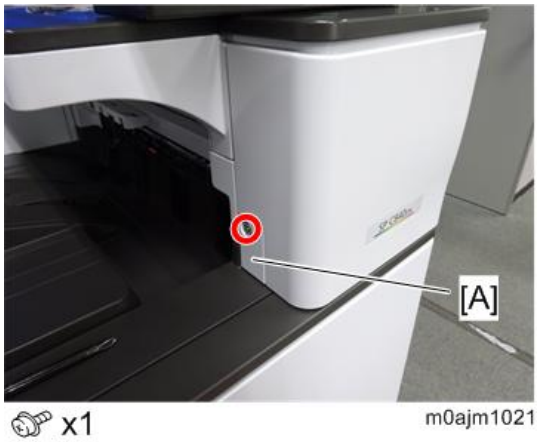
However, SD card applications are under license, therefore, since an SD card license after merge is transferred to the target SD card, it cannot be used even if it is moved to the target machine.

Also, a process to prevent illegal copying is performed.

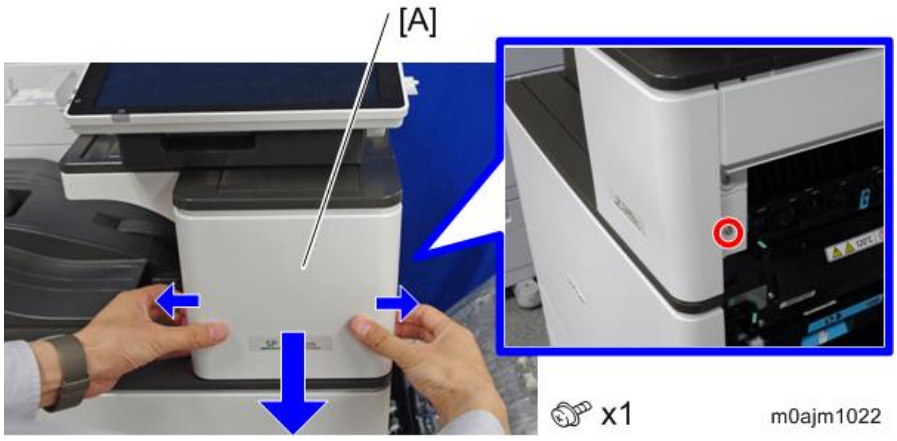
Note

- After merge, store the empty SD card in the location shown below.

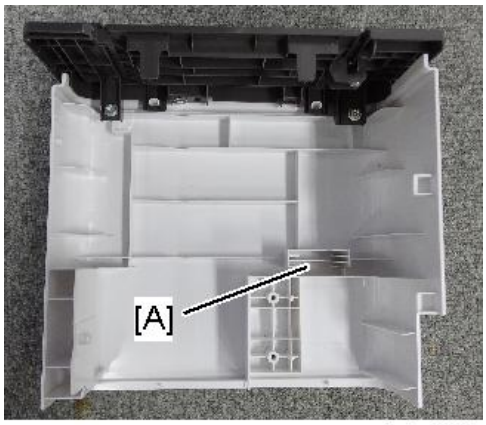
1. Remove the small cover [A].



2. Open the right door.
3. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover .



4. Insert the SD card in the storage location [A] inside the cover.



m0ajm0035

5. Reattach the front upper cover and small cover.

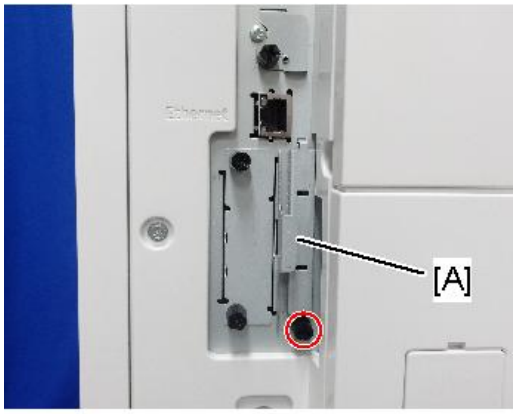
Move Exec

"Move Exec" (SP5-873-001) lets you move application programs from the original SD card to another SD card.

Note

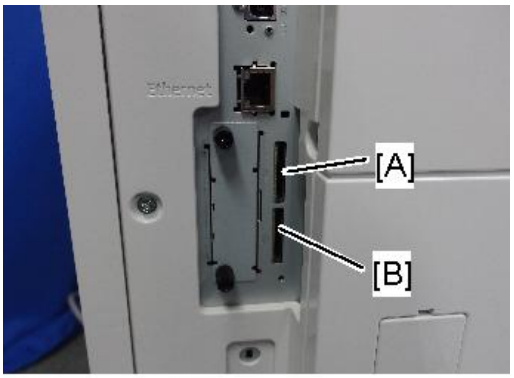
- When merging SD cards, any type of SD card can be used.

1. Turn the OFF the main power.
2. Remove the SD card slot cover [A] (coin screw x 1).



m0ajm0023

3. Set the destination SD card (SD card where data is to be stored) in Slot 1 [A], and set the original SD card (SD card from which data is to be transferred) in Slot 2 [B].



m0ajm0024b

4. Turn ON the main power, and press [ENTER] in SP5-873-001 (SD Card Appli Move: Move Exec).

5. When a confirmation screen is displayed, press [ENTER] (it takes about 2 - 3 minutes).

Note

- If [CANCEL] is pressed, the display returns to the previous screen.
- Note that if the power supply is turned off, a panel operation is performed, or the cover is opened during merge, it will result in a malfunction.

6. When merge is complete, and the following screen is displayed, press [CLOSE].

Note

- If the process is terminated abnormally, perform the merge in SP mode again.
- If the capacity of the destination SD card is insufficient, the merge operation cannot be performed.

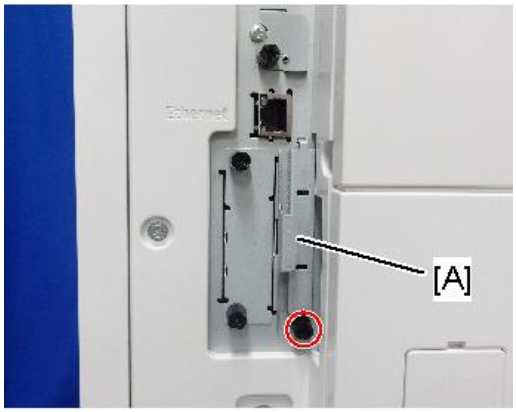
1. Press [END] twice.
2. Turn OFF the main power.
3. Remove the empty SD card after transfer from Slot 2.
4. Reattach the slot cover (×1).
5. Turn ON the main power, output the system setting list, and check that the options are recognized correctly.

Undo Exec

"Undo Exec" (SP5-873-002) lets you move back application programs from an SD card in Slot 1 (upper) to the original SD card in Slot 2 (lower). You can use this program when, for example, you have mistakenly copied some programs by using "Move Exec".

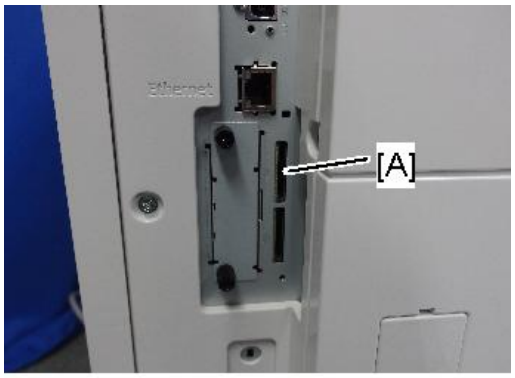
1. Turn OFF the main power.

2. Remove the SD card slot cover [A].



m0ajm0023

3. Insert the integrated SD card in Slot 1 [A: Upper].



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4. Insert the SD card which became empty after integration in Slot 2 (B: lower slot).

5. Turn On the main power, and press [ENTER] in SP5-873-002 (SD Card Appli Move: Undo Exec).

6. When a confirmation screen is displayed, press [ENTER].

Note

- If [CANCEL] is pressed, the display returns to the previous screen.
- Note that if the power supply is turned off, a panel operation is performed, or the cover is opened during cancellation, it will result in a malfunction.

7. When cancellation is complete, press [CLOSE].

8. Press [END] twice.

9. Turn OFF the main power.

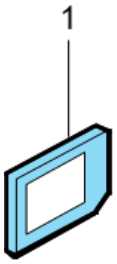
10. Reattach the SD card slot cover (×1).

11. Turn ON the main power, and check that the application has been deleted.

VM Card Type P8 (M500-09, 10, 11)

Accessory Check

No.	Description	Q'ty
1	SD Card (VM Card)	1



d595i900b

Installation Procedure

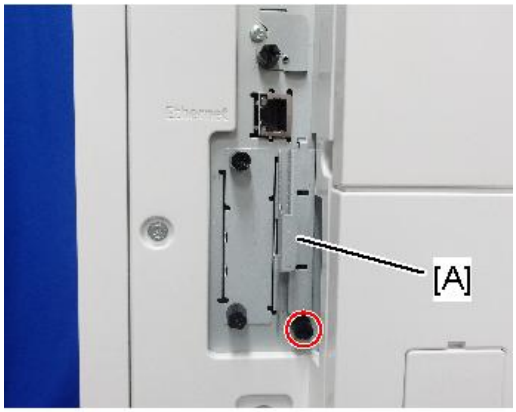
⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

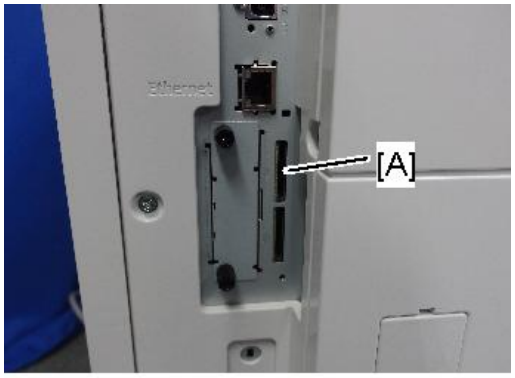
- If using the VM Card, it is necessary to install the hard disk.
- When installing more than one SD card, perform the merge operation (SD Card Appli Move).

1. Remove the SD card slot cover [A] (coin screw x 1).



m0ajm0023

2. Insert the VM card in SD card slot 1 [A: Upper Slot].



m0ajm0024c

3. Reattach the SD card slot cover (coin screw x 1).

4. Turn ON the main power.

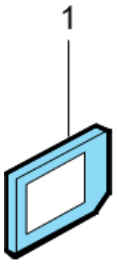
5. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

IPDS Unit Type P11 (M500-45, -46, -47)

Accessory Check

No.	Description	Q'ty	Remarks
1	SD Card (IPDS Unit)	1	



d595i900b

Installation Procedure

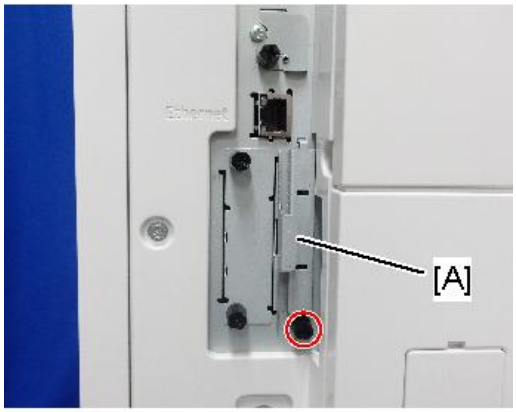
⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

- When installing more than one SD card, perform the merge operation (SD Card Appli Move).

1. Remove the SD card slot cover [A] (coin screw x 1).



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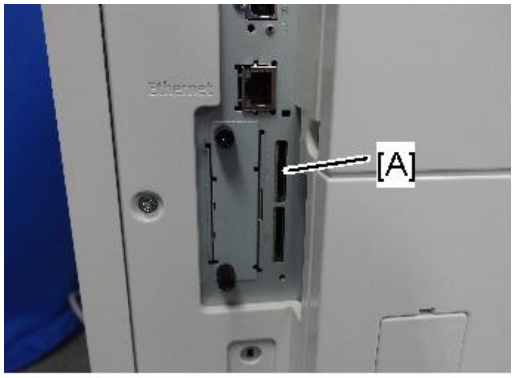
2. Insert the IPDS card in SD card slot 1 [A: Upper Slot].



m0ajm0024c

3. Reattach the SD card slot cover (Coin screw x 1).

4. Turn ON the main power.

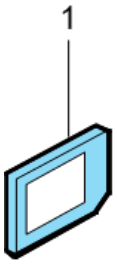
5. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

XPS Direct Print Option Type P11 (M500-42, -43, -44)

Accessory Check

No.	Description	Q'ty	Remarks
1	SD Card (XPS Direct Print)	1	



d595i900b

Installation Procedure

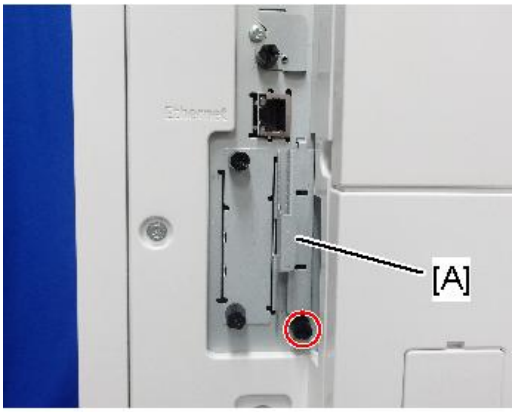
CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

- When installing more than one SD card, perform the merge operation (SD Card Appli Move).

1. Remove the SD card slot cover [A] (Coin screw x 1).



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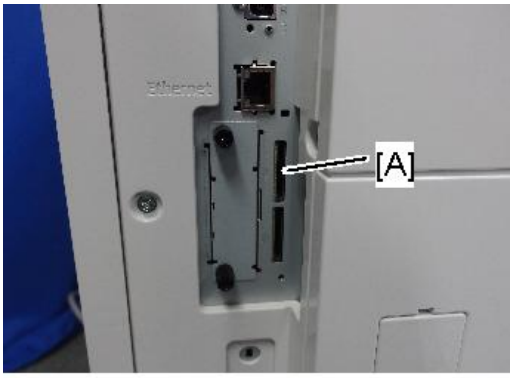
2. Insert the XPS SD card in SD card slot 1 [A: Upper Slot].



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3. Turn ON the main power.

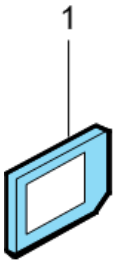
4. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

Camera Direct Print Card Type M19 (D3BD-13)

Accessory Check

No.	Description	Q'ty
1	SD Card (Camera Direct Print)	1



d595i900b

Installation Procedure

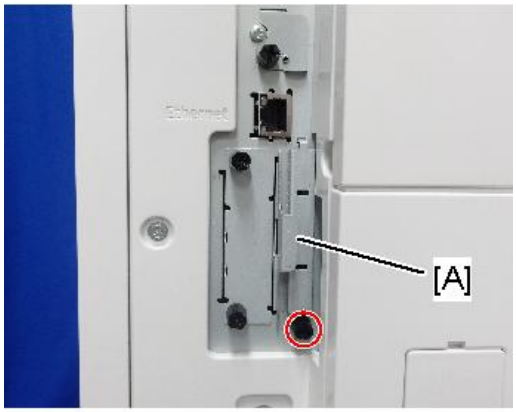
⚠CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

- When installing more than one SD card, perform the merge operation (SD Card Appli Move).

1. Remove the SD card slot cover [A] (coin screw x 1).



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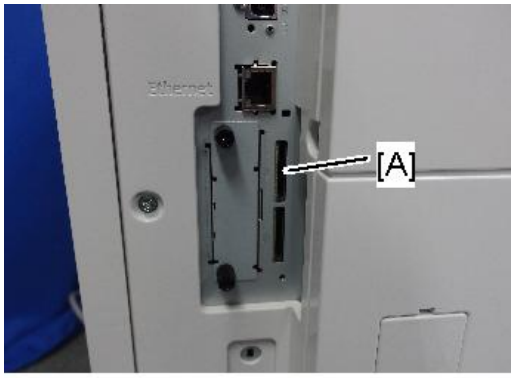
2. Insert the Camera Direct Print Card in SD card slot 1 [A: Upper Slot].



m0ajm0024c

3. Reattach the SD card slot cover (coin screw x 1).

4. Turn ON the main power.

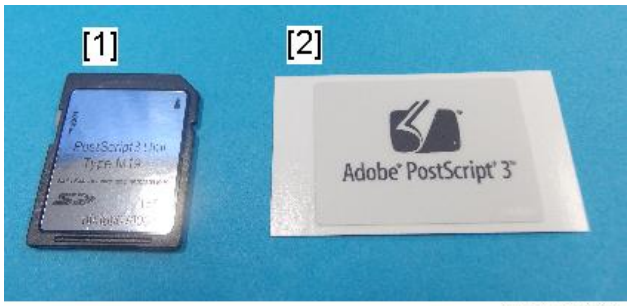
5. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

PostScript3 Unit Type P11 (M500-63, -64, -65)

Accessory Check

No.	Description	Q'ty
1	SD Card (PostScript3 Unit)	1
2	PS3 Decal	1



Overview of PostScript3 Unit Type P11 (Adobe PS)

This machine is equipped with a clone program for emulating Adobe PostScript/PDF (hereafter "Clone PS") as a standard feature. So, by factory default, it can perform printing using PostScript 3 and PDF Direct Print, in addition to RPCS.

However, the variety and number of built-in fonts (device fonts) differ between Adobe PS and Clone PS, sometimes resulting in different printing results.

To address the possible customer needs listed below, the PostScript3 Unit Type P11 is made available as an option.

- When you want to use device fonts supplied with Adobe PS.
- Since forms and ledgers have been created based on device fonts supplied with Adobe PS, a changeover to Clone PS requires redesign of these documents.
- From the viewpoint of precise printing operation, it is impossible to accept any differences in output results in comparison with Adobe PS.

  Note

  For details of the functions of Adobe PS and Clone PS, refer to Adobe PS vs. Clone PS.

Installation procedure (Adobe PS)

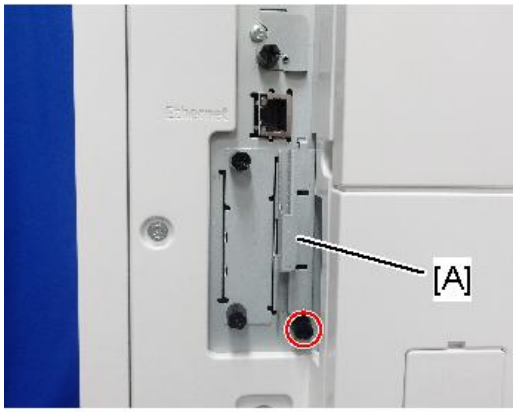
CAUTION

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

Note

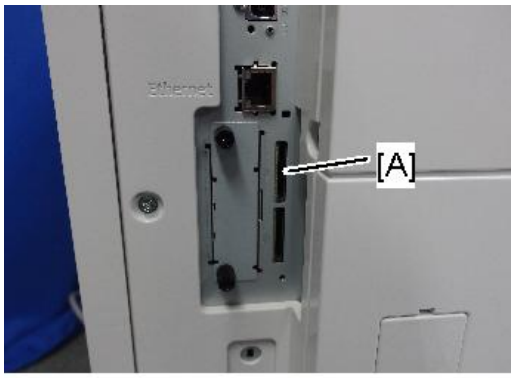
- Clone PS and Adobe PS cannot be run simultaneously. If PostScript3 Unit Type P11 (Adobe PS) is installed, Clone PS will be disabled.
- When installing more than one SD card, perform the merge operation (SD Card Appli Move).

1. Remove the SD card slot cover [A] (coin screw x 1).



m0ajm0023

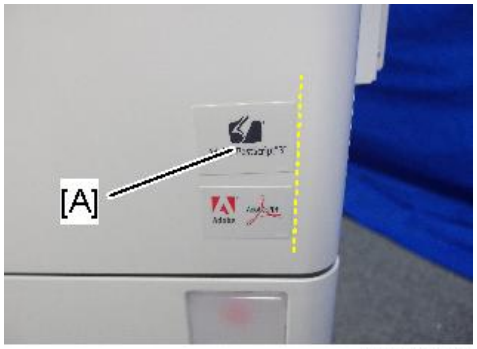
2. Insert the PS3 SD card in SD card slot 1 [A: Upper Slot].



m0ajm0024c

3. Reattach the SD card slot cover (coin screw x 1).

4. Stick the "Adobe PostScript3" decal [A] on the front face of the machine.



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5. Turn ON the main power.

Adobe PostScript3 installation starts.

6. Press [Restart] when the following message appears.

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7. Print out the "Configuration Page", and then check if this option is correctly recognized.
   - User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page
   - Note that the description of Firmware Version shown in the printed Configuration Page differs between Clone PS and Adobe PS.

PS type	Description of Firmware Version
When PostScript3 Unit Type P11 (Adobe PS) is installed	RPCS [x.xx.xx] **Adobe PostScript 3** [x.xx], **Adobe PDF** [x.xx]
Clone PS	RPCS [x.xx.xx] **PS3** [x.xx], **PDF** [x.xx]

Initial Settings for the Printer Driver

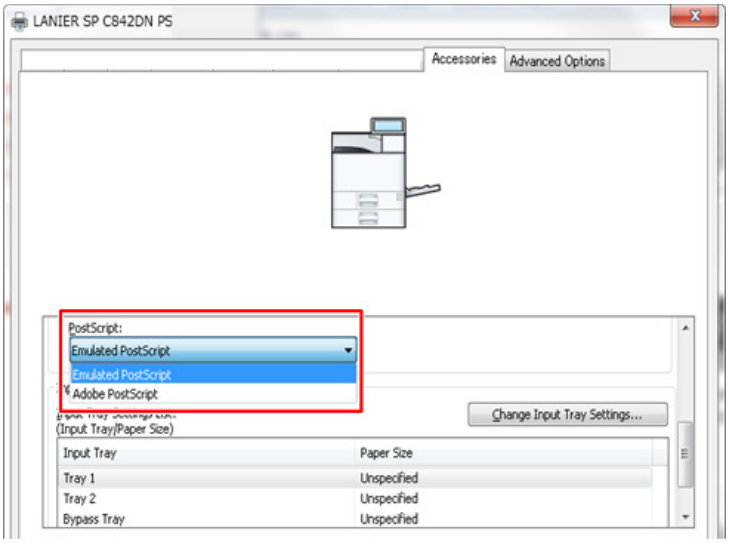
After installation of an SD card, configure the settings for the printer driver in accordance with the type of PS to be used.

Note

The same printer driver, PS3 printer driver, can be used for printing either for Adobe PS or Clone PS.

- **Setting items (Windows):**
  In an environment where interactive communication is enabled, the machine attempts to acquire information to perform automatic configuration.
  When manual configuration is to be performed, select “Adobe PostScript” if Adobe PS is used, and choose “Emulated PostScript” if Clone PS is used.

1. On the [Start] menu, click [Devices and Printers].
2. Right-click the icon of the printer you want to use.
3. Click [Printer properties].
4. Click the “Accessories” tab and configure settings for Adobe PS/Clone PS using the PostScript pull-down menu.



m0ajm0301

- **Setting items (Mac OS X):**

  If the driver is installed by means of the Bonjour function or “HP Jetdirect - Socket”, the settings will be automatically configured.

  Automatic configuration will not work if any other protocol is used for installation. In this case, manual configuration is required.

  When manual configuration is to be performed, select “Adobe PostScript” if Adobe PS is used, and “Emulated PostScript” if Clone PS is used.

Switching back to Clone PS from Adobe PS

Clone PS can be resumed by removing the Adobe PS card from the SD card slot and applying the firmware for Clone PS/PDF (“.fwu” or “.rfu”).

Note: The work should be carried out by customer engineers.

In doing this, be sure to apply both PS3 and PDF firmware modules. If only one of them is applied, the machine will not operate properly. (As a stopgap measure to fix the malfunction, insert the optional Adobe PS card again into the SD card slot to enable the use of Adobe PS. Then, Clone PS can be resumed by applying both the PS3 and PDF firmware modules once again.)

Classification	Firmware name	Software part number
Clone PS component firmware	Clone PS3	M0AJ5564
	Clone PDF	M0AJ5569
	IRIPS Font	M0AJ5575
	IRIPS PS3 Font (JIS2004)	M0AJ5565
Adobe PS component firmware	Adobe PS3	M5005830
	Adobe PDF	M5005832
	PS3 Font	M5005744

Classification	Firmware name	Software part number
	PS3 Font (JIS 2004)	D3BC5747

@Remote Settings

Note

- Prepare and check the following check points before you visit the customer site. For details, ask the @Remote key person.

Check points before making @Remote settings

1. The setting of SP5-816-201 in the mainframe must be "0".
2. Print the SMC with SP5-990-002 and then check if a device ID2 (SP5-811-003) must be correctly programmed.
   - 6 spaces must be put between the 3-digit prefix and the following 8-digit number (e.g. xxx_____xxxxxxxx).
   - ID2 (SP5-811-003) and the serial number (SP5-811-001) must be the same (e.g. ID2: A01_____23456789 = serial No. A0123456789)
   - Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
3. The following settings must be correctly programmed.
   - Proxy server IP address (SP5-816-063)
   - Proxy server Port number (SP5-816-064)
   - Proxy User ID (SP5-816-065)
   - Proxy Password (SP5-816-066)
4. Get a Request Number

Execute the @Remote Settings

1. Enter the SP mode.
2. Input the Request number which you have obtained from @Remote Center GUI, and then enter [OK] with SP5-816-202.
3. Confirm the Request number, and then click [EXECUTE] with SP5-816-203.
4. Check the confirmation result with SP5-816-204.

Value	Meaning	Solution/ Workaround
0	Succeeded	-
3	Communication error (proxy enabled)	Check the network condition.
4	Communication error (proxy disabled)	Check the network condition.
5	Proxy error (authentication error)	Check Proxy user name and password.
6	Communication error	Check the network condition.
8	Other error	See "SP5816-208 Error Codes" below this.
9	Request number confirmation executing	Processing… Please wait.
11	Already registered	-

Value	Meaning	Solution/ Workaround
12	Parameter error	-
20	Dial-up authentication error	* These errors occur only in the modems that support @Remote.
21	Answer tone detection error	
22	Carrier detection error	
23	Invalid setting value (modem)	
24	Low power supply current	
25	unplugged modem	
26	Busy line	

5. Make sure that the screen displays the Location Information with SP5-816-205 only when it has been input at the Center GUI.

6. Click [EXECUTE] to execute the registration with SP5-816-206.

7. Check the registration result with SP5-816-207.

Value	Meaning	Solution/ Workaround
0	Succeeded	-
1	Request number error	Check the request number again.
2	Already registered	Check the registration status.
3	Communication error (proxy enabled)	Check the network condition.
4	Communication error (proxy disabled)	Check the network condition.
5	Proxy error (Authentication error)	Check Proxy user name and password.
8	Other error	See "SP5-816-208 Error Codes" below this.
9	Request number confirmation executing	Processing… Please wait.
11	Already registered	-
12	Parameter error	-
20	Dial-up authentication error	* These errors occur only in the modems that support @Remote.
21	Answer tone detection error	
22	Carrier detection error	
23	Invalid setting value (modem)	
24	Low power supply current	
25	unplugged modem	
26	Busy line	

8. Exit the SP mode.

SP5-816-208 Error Codes

Caused by Operation Error, Incorrect Setting

Code	Meaning	Solution/ Workaround
-12002	Inquiry, registration attempted without acquiring Request No.	Obtain a Request Number before attempting the Inquiry or Registration.
-12003	Attempted registration without execution of a confirmation and no previous registration.	Perform Confirmation before attempting the Registration.
-12004	Attempted setting with illegal entries for certification and ID2.	Check ID2 of the mainframe.
-12005	@Remote communication is prohibited. The device has an Embedded RC gate-related problem.	Make sure that "Remote Service" in User Tools is set to "Do not prohibit".
-12006	A confirmation request was made after the confirmation had been already completed.	Execute registration.
-12007	The request number used at registration was different from the one used at confirmation.	Check Request No.
-12008	Update certification failed because mainframe was in use.	Check the mainframe condition. If the mainframe is in use, try again later.
-12009	The ID2 in the NVRAM does not match the ID2 in the individual certification.	Check ID2 of the mainframe.
-12010	The certification area is not initialized.	Initialize the certification area.

Error Caused by Response from GW URL

Code	Meaning	Solution/ Workaround
-2385	Other error	
-2387	Not supported at the Service Center	
-2389	Database out of service	
-2390	Program out of service	
-2391	Two registrations for the same mainframe	Check the registration condition of the mainframe
-2392	Parameter error	
-2393	External RCG not managed	
-2394	Mainframe not managed	
-2395	Box ID for external RCG is illegal.	
-2396	Mainframe ID for external RCG is illegal.	
-2397	Incorrect ID2 format	Check the ID2 of the mainframe.
-2398	Incorrect request number format	Check the Request No.

SP descriptions

- **SP5-816-201 (Remote Service: Regist Status DFU(SSP))**

  Displays a number that indicates the status of the @Remote service device.

  0: Neither the registered device by the external nor embedded RCG device is set.

  1: The embedded RCG device is being set. Only Box registration is completed. In this status, this unit cannot

answer a polling request from the external RCG.

2: The embedded RCG device is set. In this status, the external RCG unit cannot answer a polling request.

3: The registered device by the external RCG is being set. In this status the embedded RCG device cannot be set.

4: The registered module by the external RCG has not started.

- **SP5-990-002 (SP Print Mode: SP(Mode Data List)**

  Prints the configuration sheets of the system and user settings : SMC.

  Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

- **SP5-811-003 (Machine No. Setting: ID2 Code Display)**

  Sets the ID-2 code used to identify the @remote device at installation.

- **SP5-816-063 (Remote Service: Proxy server IP address)**

  This SP sets the address of the proxy server used for communication between the RCG device and the gateway. Use this SP to set up or display the customer proxy server address.

  The address is necessary to set up the embedded RCG-N.

  The address display is limited to 127 characters. Characters beyond the 127 characters are ignored.

  This address is customer information and is not printed in the SMC report.

- **SP5-816-064 (Remote Service: Proxy server Port number)**

  This SP sets the port number of the proxy server used for communication between the embedded RCG-N and the gateway. This setting is necessary to set up the embedded RC Gate-N.

  This port number is customer information and is not printed in the SMC report.

- **SP5-816-065 (Remote Service: Proxy User ID)**

  This SP sets the HTTP proxy certification user name.

  The length of the name is limited to 31 characters. Any character beyond the 31st character is ignored.

  This name is customer information and is not printed in the SMC report.

- **SP5-816-066 (Remote Service: Proxy Password)**

  This SP sets the HTTP proxy certification password.

  The length of the password is limited to 31 characters. Any character beyond the 31st character is ignored.

  This name is customer information and is not printed in the SMC report.

- **SP5-816-202 (Remote Service: Letter Number DFU(SSP))**

  Allows entry of the number of the request needed for the RCG-N device.

- **SP5-816-203 (Remote Service: Confirm Execute)**

  Executes the inquiry request to the @Remote GW URL.

- **SP5-816-204 (Remote Service: Confirm Result DFU(SSP))**

  Displays a number that indicates the result of the inquiry executed with SP5816 203.

- **SP5-816-205 (Remote Service: Confirm Place DFU(SSP))**

  Displays the installed section informed from G/W for response of request number inquiry if the section is enrolled on the G/W.

- **SP5-816-206 (Remote Service: Register Execute)**
  Executes "Embedded RCG Registration".
- **SP5-816-207 (Remote Service: Register Result DFU(SSP)**
  Displays a number that indicates the registration result.

3. Preventive Maintenance

PM Parts Settings

Replacement Procedure of the PM Parts

There are two ways to reset the PM counter for this machine.

"Method 2 By [PM Counter / New Unit Set] Menu" is recommended for its ease of operation.

Important

- After the PM counter for the fusing sleeve belt unit reaches its PM life (430K pages or 313,153,000 mm), the machine stops automatically. Replace the fusing sleeve belt unit before the machine stops (stop warning: 415K pages or 302,229,000 mm, stop: 430K pages or 313,153,000 mm).

Note

- For the following units, there is a new unit detection mechanism. It is not necessary to set the new detection flag with SP3-701 (Manual New Unit Set).
  - Fusing unit as a complete unit
  - PCDU as a complete unit
  - Waste Toner Bottle (When the machine stopped because the waste toner bottle was full)

SP descriptions

- SP3-701 (Manual New Unit Set)

Enables/disables the new unit detection function.

When this function is ON, the machine automatically resets the PM counter when a new unit is detected.

Method 1: By SP3701

1. Enter the SP mode.
2. Output the SMC logging data with SP5-990-004.
   Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
3. Set the following SPs (New Unit Detection) to "1".

Item	SP
Pressure Roller • Replacement procedure: Pressure Roller Fusing sleeve Belt Unit • Replacement procedure: Fusing Sleeve Belt Unit Note If the entire fusing unit is replaced to a new one, the pressure roller and fusing sleeve unit are detected as new units without executing the new detection SP.	Pressure roller: SP3-701-118 Fusing sleeve belt unit: SP 3-701-116

Item	SP
Image Transfer Belt Unit • Replacement procedure: Image Transfer Belt Unit	SP3-701-093
Image Transfer Belt Cleaning Unit • Replacement procedure: Image Transfer Cleaning Unit	SP3-701-102
Paper Transfer Roller Unit • Replacement procedure: Paper Transfer Roller Unit	SP3-701-109
Waste Toner Bottle (When the bottle is replaced before the machine detects bottle full and stops) • Replacement procedure:Waste Toner	SP3-701-142
Ozone Filter, Dust Filter • Replacement procedure: Ozone filter/Dust filter	SP3-701-131

4. Turn the main power switch OFF, and disconnect the power cord from the outlet.
5. Replace the PM parts and turn the main power ON.
   The machine will reset the PM counters automatically.
6. Exit the SP mode.

Method 2: By [PM Counter / New Unit Set] Menu

1. Enter the SP mode.
2. Output the SMC logging data with SP5-990-004.
   Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
3. Press [PM Counter / New Unit Set].

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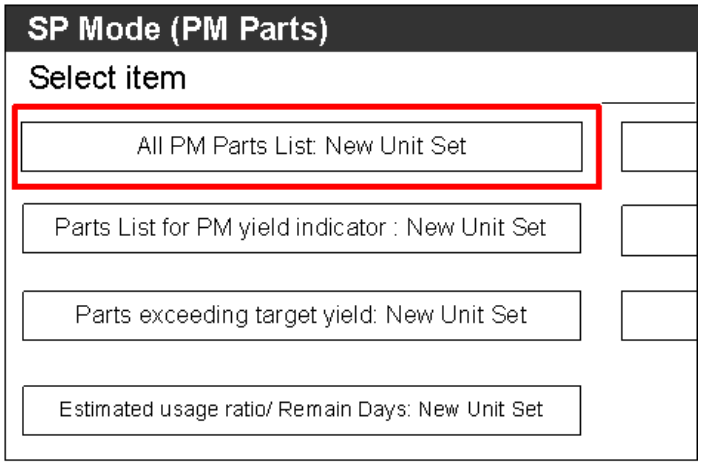
4. Press [All PM Parts List : New Unit Set].



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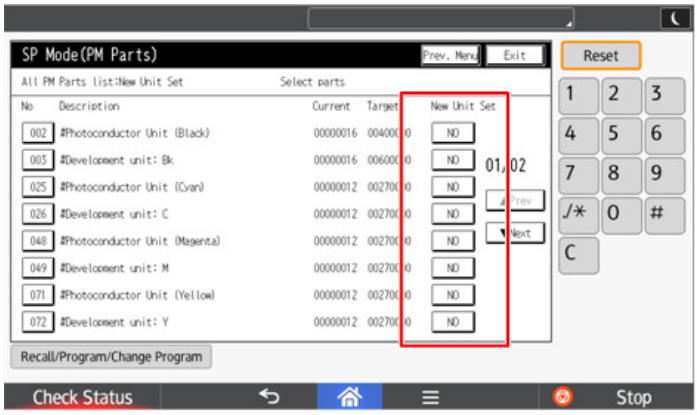
5. Set the PM part that you want to replace to "YES" under "New Unit Set".

After pressing "YES", the [Exit] key will not be available.



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6. Turn OFF the main power and unplug the power cord from the wall outlet.

7. Replace the PM parts and turn the main power ON.

The machine will reset the PM counters automatically.

8. Exit the SP mode.

After Installing the New PM Parts

1. Output the SMC logging data with SP5-990-004 and check the counter values.

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

2. Make sure that the PM counters for the replaced units are "0" with SP7-621, or SP7-944. If the PM counter for a unit was not reset, then execute the new unit detect setting with SP3-701 again and turn the machine OFF/ON.

3. Make sure that the exchange counter counts up with SP7-853.

4. Make sure that the counters for the previous units (SP7-625 or SP7-906) on the new SMC logging data list (from step 2 above) are equal to the counters (SP7-621, or SP7-944) for these units on the previous SMC

logging data list (the list that was output in the "Before removing the old parts" section).

5. Make sure that the unit replacement date is updated with SP7-950.

SP descriptions

- **SP7-621 (PM Counter Display: Paper)**
  Displays the number of sheets printed for each current unit.
  When a unit is replaced, the machine automatically detects that the new unit is installed.
  Then, the current PM counter value is automatically moved to the PM Counter – Previous (SP7-906-1 to 10) and is reset to "0".
- **SP7-625 (Previous Unit Counter: Pages)**
  Displays the number of sheets printed for the previous unit.
- **SP7-906(Previous Unit Counter:Distance)**
  Displays the rotation distance of the previous drum.
- **SP7-944 (PM Counter Display: Distance)**
  Displays the rotation distance of the current drum.
- **SP7-853 (Replace Counter)**
  Displays the number of times each PM part has been replaced.
- **SP7-950 (Unit Replacement Date)**
  Displays the replacement date of each PM unit.
- **SP5-990 (SP Print Mode)**
  Prints the configuration sheets of the system and user settings : SMC.
  Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

Preparation Before Operation Check

1. Enter the "User Tools" mode.
2. Do the "Color Calibration".
   For details about Color Calibration procedure, refer to Color Registration and Color Calibration
3. Exit the "User Tools" mode, and then enter the SP mode.
4. Perform the line adjustment.
   SP2-111-004: Forced Line Position Adj. Mode d
   The result can be checked with SP2-194-007 (MUSIC Execution Result Execution Result)
   (0: Success, 1: Failure).
   Also, results for each color can be checked with SP2-194-010 to 013.
5. Exit the SP mode.

SP Descriptions

- **SP2-194-007 (MUSIC Execution Result: Execution Result)**
  Displays the result code of MUSIC adjustment.

0: Success

1: Failure

- **SP2-194-010 to 013 (MUSIC Execution Result: Error Result C,M, Y, K)**

  Displays the result code of MUSIC adjustment for each color.

  0: Not done

  1: Completed successfully

  2: Cannot detect patterns

  3: Fewer lines on the pattern than the target

  4: Out of the adjustment range

  5 to 9: Not used

Operation Check

Check if the sample image has been printed normally.

PM Parts List

See "Appendices" for the following information:

- Preventive Maintenance Items

4. Replacement and Adjustment

Notes on the Main Power Switch

Push Switch

The main power button of this machine has been changed to a push-button switch (push button) from the conventional rocker switch. The push switch has characteristics and specifications different from the rocker switch. Care must be taken when replacing and adjusting parts.

Characteristics of the Push Switch (DC Switch)

Power is supplied to the machine even when the main power switch is turned OFF.

The push switch in this machine uses DC (direct current). Therefore, if the AC power cord is connected to an electrical outlet, power is supplied to the controller board, the operation unit and other modules even when the main power is turned OFF. When replacing the controller board and the operation unit in this state, this will not only damage these boards, it will also damage other electrical components.
So, when performing maintenance work such as replacing parts, in addition to turning off the main power with the push switch, always unplug the AC power cord.

When you disconnect the power cord from the AC wall outlet, inside the machine there is still residual charge.

When you disconnect the power cord from the AC wall outlet, inside the machine for a while there is still residual charge. Therefore, if you remove boards in this state, it can cause a blown fuse or memory failure.

- How to remove the residual charge inside the machine
  After you unplug the power cord from the AC wall outlet, in order to remove the residual charge from inside the machine, be sure to press the main power switch. Thus, the charge remaining in the machine is released, and it is possible to remove boards.

When you reconnect the AC power cord into an AC wall outlet, the machine will start automatically.

In order to remove the residual charge, push the main power switch while you disconnect the AC power cord. At that time, the power ON flag inside the machine is set. Therefore, after you finish work on the machine and reconnect the power cord to the AC, even if you do not press the main power switch, the machine will start automatically and the moving parts will begin to move. When working on moving parts, be careful that fingers or clothes do not get caught.

Note

- Automatic restart deals with cases when you accidentally unplugged the AC power cord or unexpected power outages. By keeping the power flag ON, after the resumption of power, the machine will start up automatically.

In rare cases, when you reconnect the AC power cord to a power outlet, the machine does not start automatically.

In this case, the machine has not failed. The cause is due to the timing of releasing the residual charge. If you press the main power switch while the residual charge was already released, the power ON flag will not be set. At this time, start the machine manually by pressing the main power switch.

Shutdown Method

1. Press the main power switch [A] on the machine.

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2. The shutdown message appears. After the shutdown process, the main power is turned off automatically. The operation panel and the main power indicator are turned off when the machine completes the shutdown.

Important

- Even after the shutdown message disappears, do not disconnect the power cord while the main power indicator [A] is flashing to indicate that the machine is still shutting down.

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⚠CAUTION

- Before removing and adjusting electrical boards, do the following procedure. Otherwise, the board can be damaged by the residual charge inside the machine and must be replaced.

1. Take out the power cord after shutdown.
2. Press the power switch for a second to remove the residual charge inside the machine.

Forced Shutdown

In case normal shutdown does not complete for some reason, the machine has a forced shutdown function.
To make a forced shutdown, press and hold the main power switch for 6 seconds.
In general, do not use the forced shutdown.

Important

- Forced shutdown may damage the hard disk and memory, and can cause damage to the machine. Use a forced shutdown only if it is unavoidable.

Beforehand

⚠WARNING

- Turn off the main power switch and disconnect the power cord.
- After replacing, make sure that all harnesses that were removed are connected up again and secured in their clamps.

Special Tools

Item	Part Number	Description	Q'ty	Unique or Common
1	B6455020	SD Card (1GB)	1	C (General)
2	B6455060	SD Card (16GB)	1	C (General)
3	A2579300	Grease Barrierta – S552R	1	C (General)
4	C4019503	20× Magnification Scope	1	C (General)
5	VSSG9002	FLUOTRIBO MG GREASE: 100G	1	C (General)

Note

- A PC (Personal Computer) is required for creating the Encryption key file on an SD card when replacing the controller board in which HDD encryption has been enabled.

Exterior Covers

Precaution Concerning Stabilizers

The stabilizers are necessary for meeting the requirements of IEC60950-1, the international standard for safety. The aim of these stabilizers is to prevent the products, which are heavy, from toppling as a result of people running into or leaning onto the products, which can lead to serious accidents such as persons becoming trapped under the product. (U.S.: UL60950-1, Europe: EN60950-1)

Therefore, removal of such stabilizers must always be with the consent of the customer.

Do not remove them using only your own judgment.

Overview

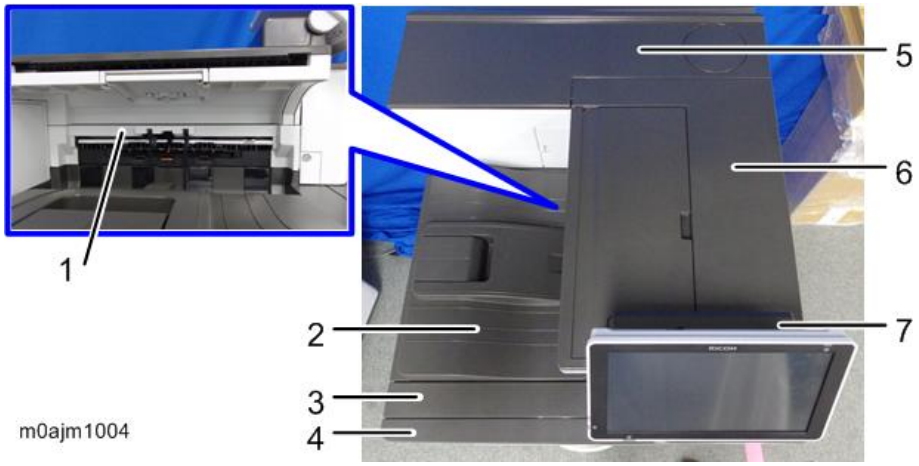
Front and Rear Side Covers

No.	Cover name
1	Waste toner cover
2	Front upper cover
3	Front cover
4	Main power switch cover
5	Rear left cover
6	Rear cover
7	Rear lower cover

Left and Right Side Covers

No.	Cover name
1	Left rear cover
2	Controller cover
3	Left cover
4	Left upper cover
5	Right upper cover
6	Right door
7	Right rear cover

Paper Exit Covers/Top Covers



No.	Cover name
1	Paper exit cover
2	Paper exit tray

No.	Cover name
3	Paper exit lower cover
4	Paper exit front cover
5	Top rear cover
6	Top right cover
7	Operation panel upper cover

Inner Covers

Note

The colors of parts and decals may vary depending on the model.

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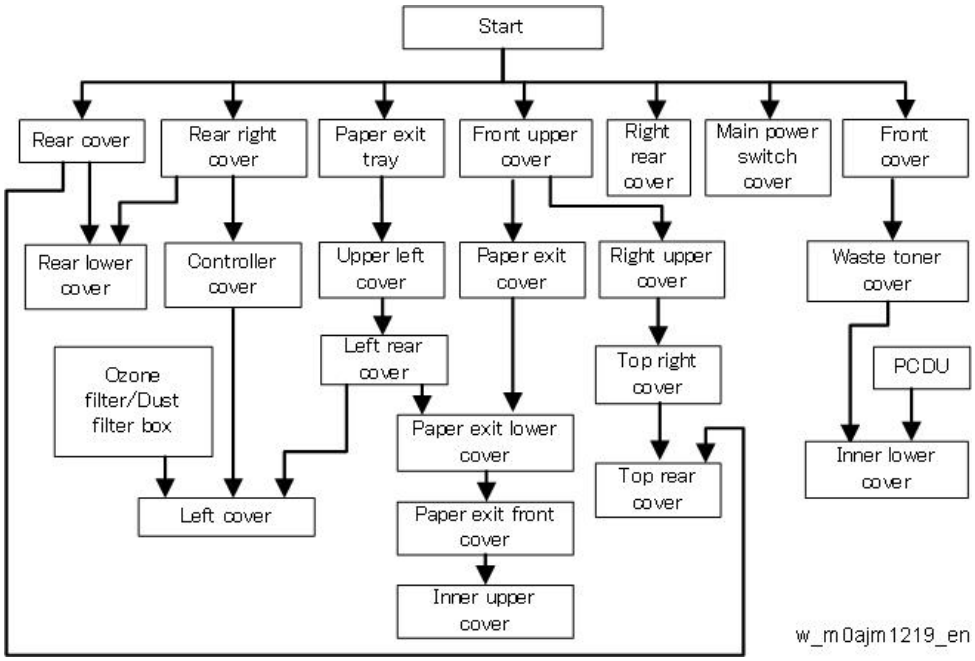
No.	Cover name
1	Inner upper cover
2	Inner lower cover

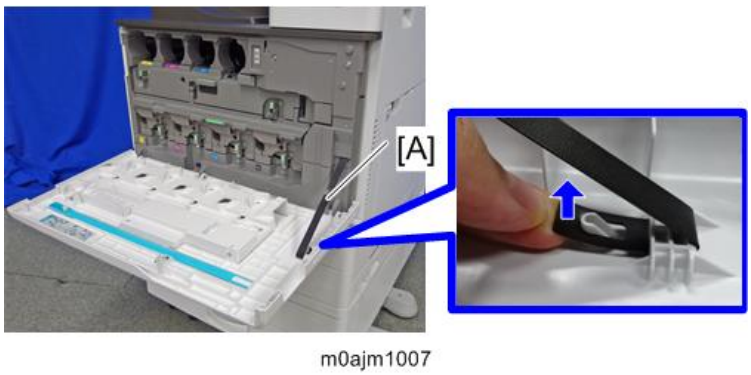
Quick Reference for Removing Covers



Front Cover

1. Open the front cover [A].

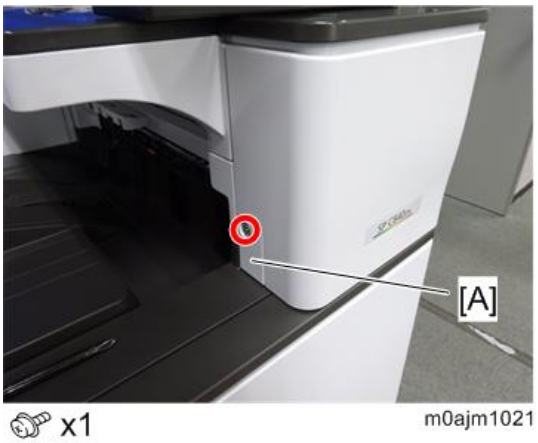
2. Unhook the belt tip and detach it [A].



3. Pressing down the stopper, slide the front cover [A] to the right and detach it.

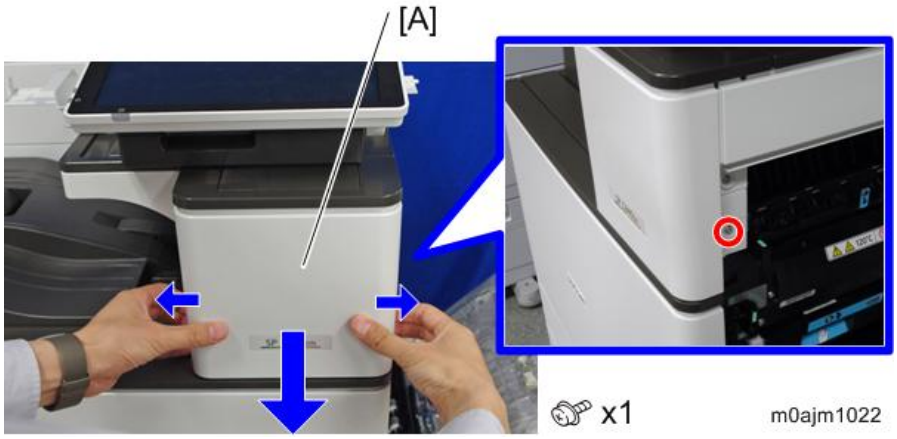
Front Upper Cover

1. Remove the small cover [A].



2. Open the right door. (Duplex Unit)

3. First, remove a screw. Then release the hooks on the inside of the front upper cover [A] by pulling the cover's sides outward, and remove the front upper cover.



Main Power Switch Cover

1. Pull out paper trays 1 and 2.

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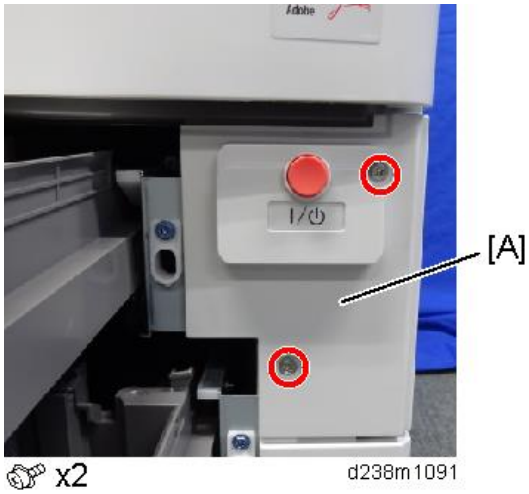
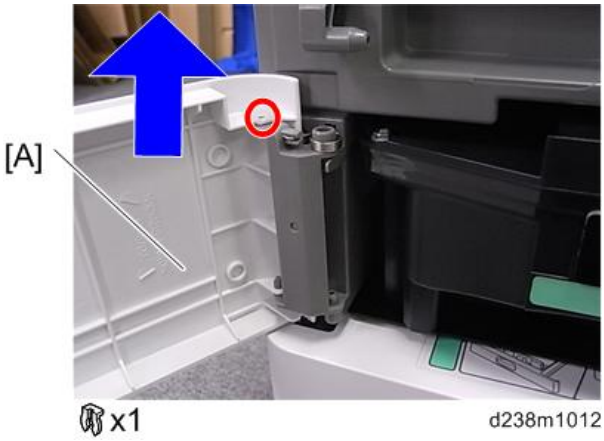
2. Remove the main power switch cover [A].



Waste Toner Cover

1. Remove the front cover (Front Cover)
2. Open tray 1 slightly, and then open the waste toner cover [A].

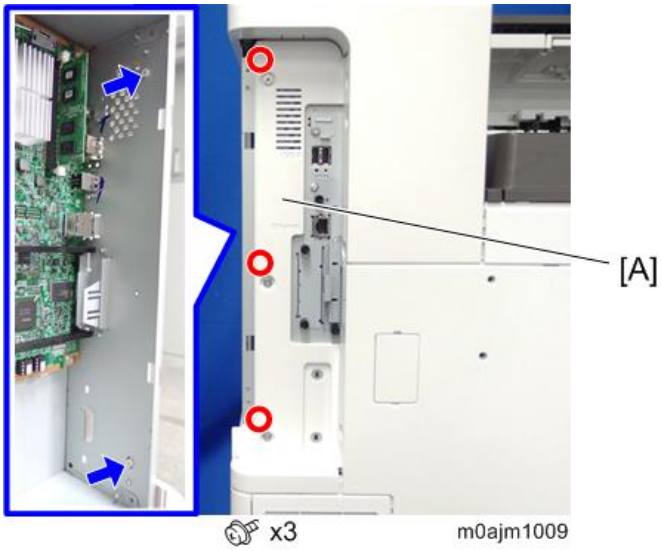
3. Remove the waste toner cover [A] by lifting it upward.



Controller Cover

1. Remove the rear left cover. (Rear Left Cover)

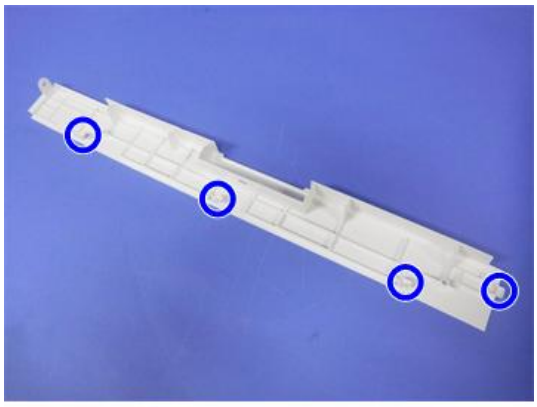
2. Release the two bosses at the back, and remove the controller cover [A].



Left Upper Cover

⚠CAUTION

- Each part enclosed by a blue circle has a tab. Be careful not to damage it when attaching and detaching.



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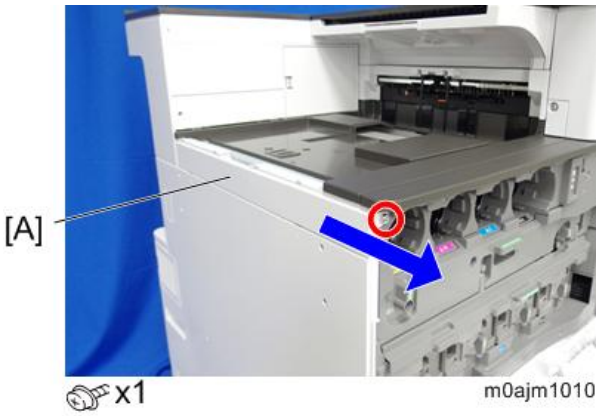
1. Open the front cover.
2. Remove the paper exit tray. (Paper Exit Tray)
3. Remove the upper left cover [A].

   Slide the cover in the direction of the blue arrow.



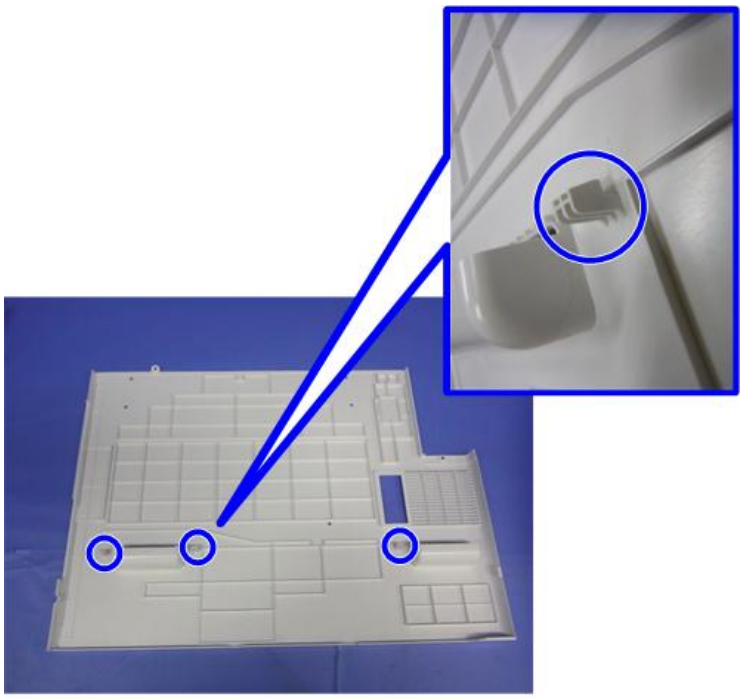
Left Rear Cover

1. Remove the left upper cover (Left Upper Cover)
2. Remove the left rear cover [A].

Left Cover

⚠CAUTION

- Each part enclosed by a blue circle has a tab. Be careful not to damage it when attaching and detaching.



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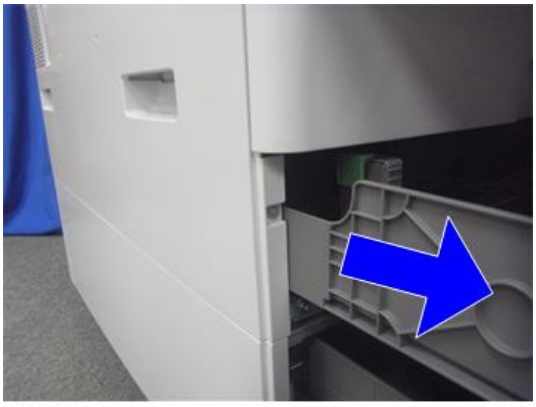
1. Remove the left upper cover. (Left Upper Cover)
2. Remove the left rear cover. (Left Rear Cover)
3. Remove the controller cover. (Controller Cover)
4. Remove the ozone filter/dust filter box. (Ozone filter/Dust filter)
5. Open the 2nd paper feed tray slightly.



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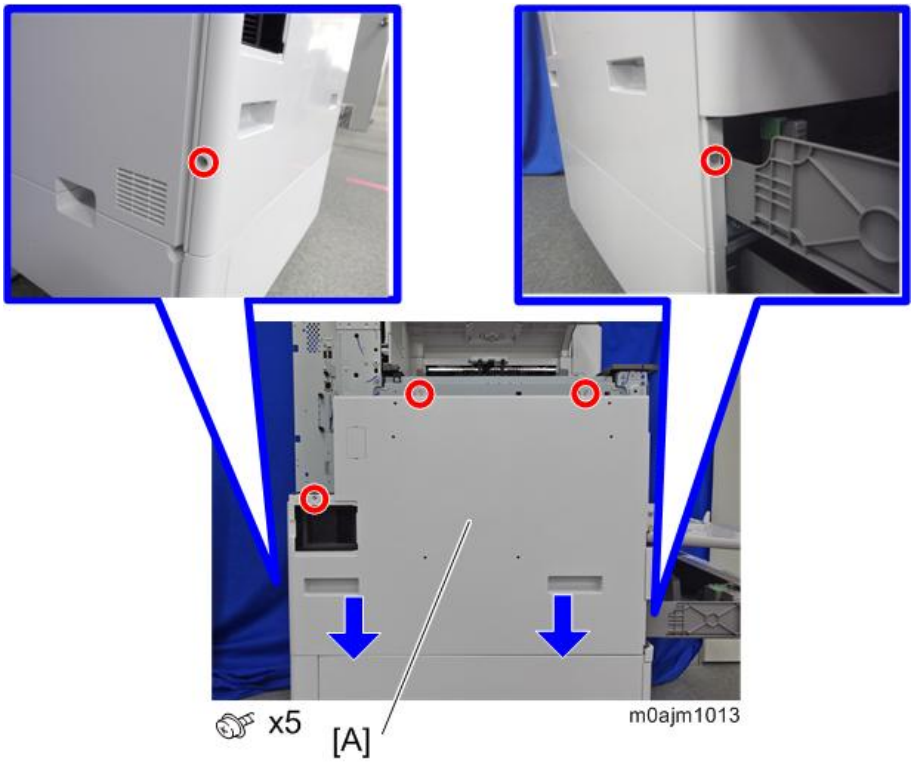
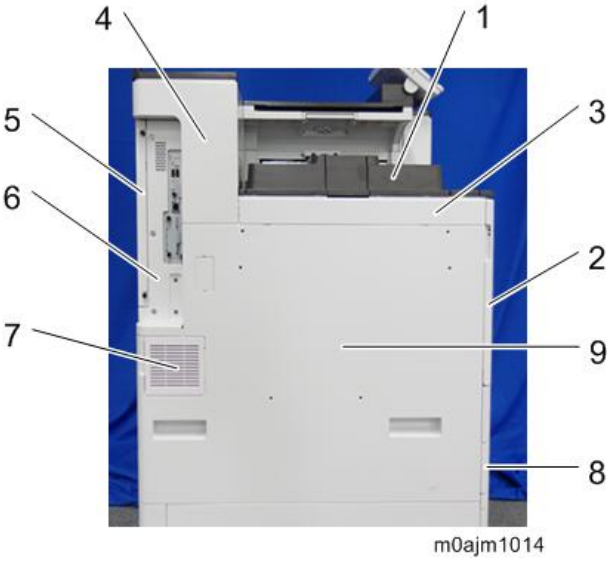
6. Left cover [A]

   Remove it while pressing down.



Order to remove



1. Paper exit tray
2. Front cover
3. Left upper cover
4. Left rear cover
5. Rear right cover
6. Controller cover
7. Ozone filter/Dust filter box
8. 2nd paper feed tray
9. Left cover

Rear Left Cover

1. Remove the rear left cover [A] (coin screw x 2).

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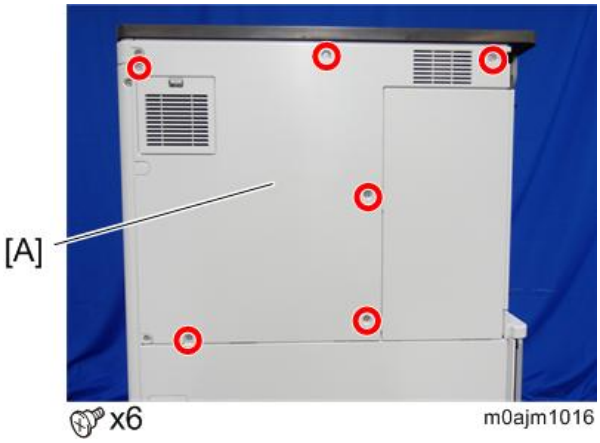
Rear Cover

1. Remove the rear cover [A].



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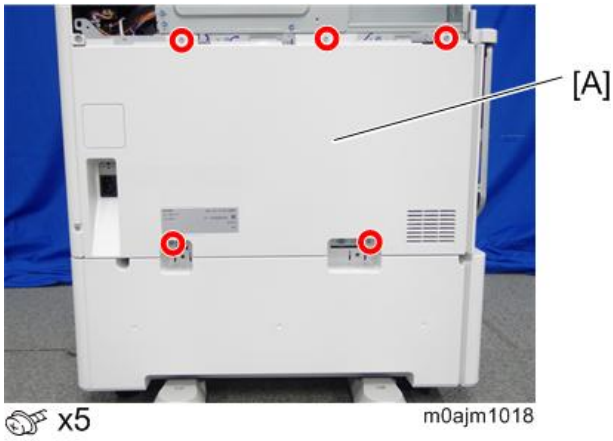
Rear Lower Cover

1. Remove the rear cover. (Rear Cover)
2. Remove the rear left cover. (Rear Left Cover)

3. Remove the rear lower cover [A].



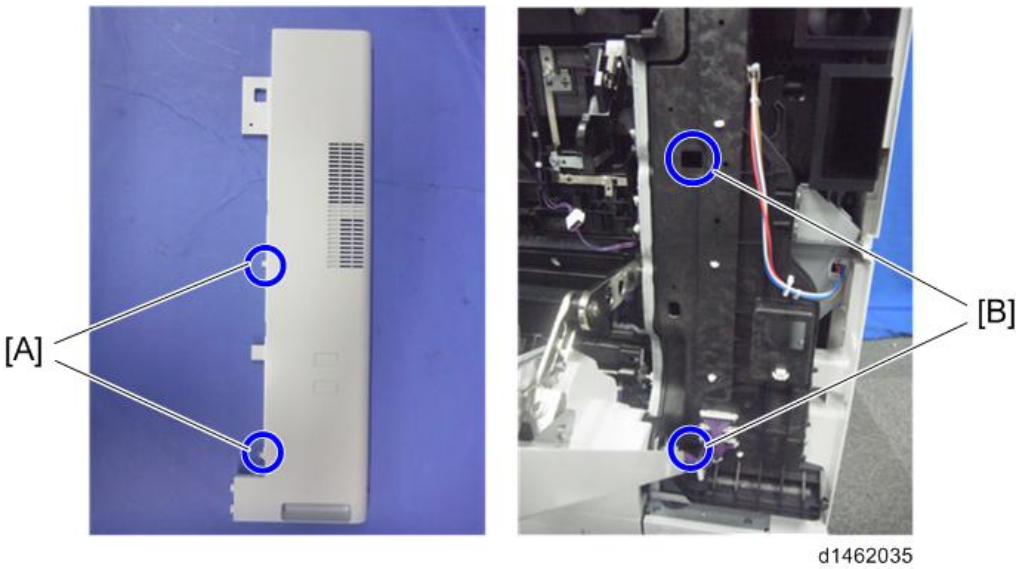
Right Rear Cover

1. Open the right door. (Duplex Unit)

2. Remove the right rear cover [A] (x4, among them, tapping screw x1).

Note

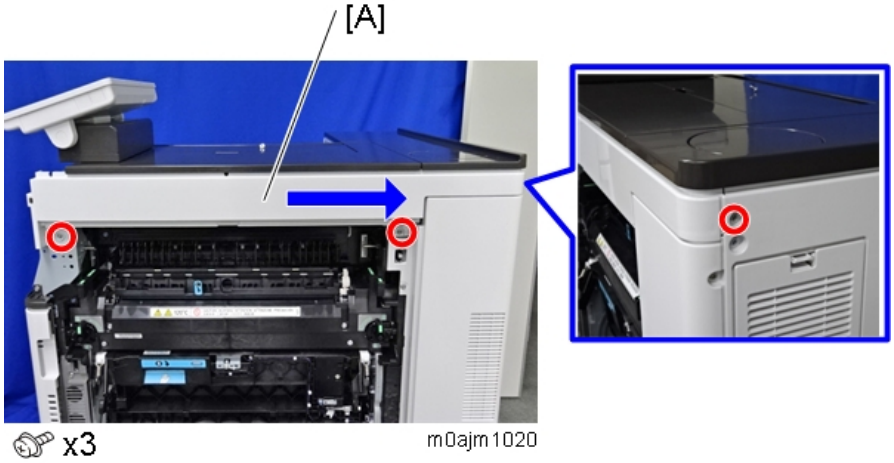
- When installing, insert the projections [A] in the holes [B], taking care not to trap the harness inside.



Right Upper Cover

1. Remove the front upper cover (Front Upper Cover)
2. Remove the right upper cover [A].

   When removing the right upper cover, pull it out in the direction of the blue arrow.

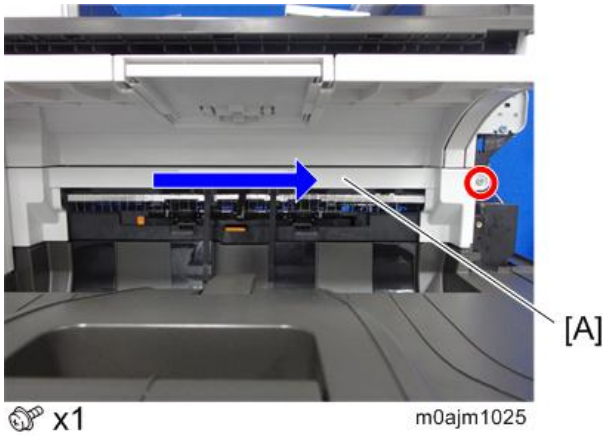


Paper Exit Tray

1. Remove the paper exit tray [A].

Paper Exit Cover

1. Remove the front upper cover. (Front Upper Cover)
2. Slide the paper exit cover [A] to the front and remove it.

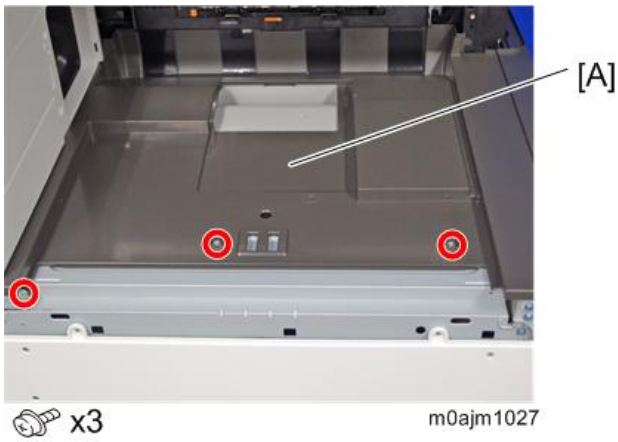


Paper Exit Lower Cover

1. Remove the left rear cover (Left Rear Cover)
2. Remove the paper exit cover (Paper Exit Cover)

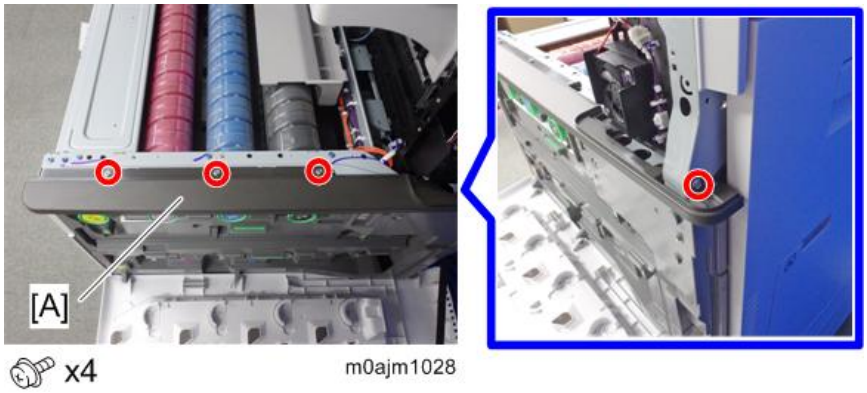
3. Remove the connector cover [A].

4. Remove the paper exit lower cover [A].



Paper Exit Front Cover

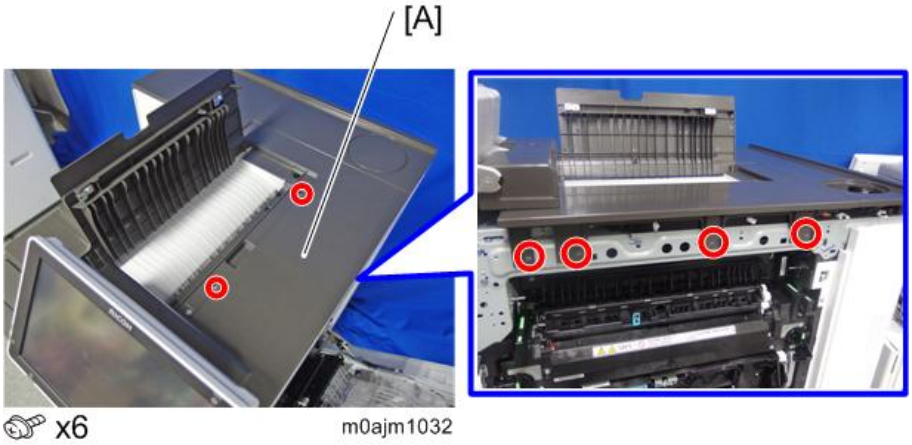
1. Remove the front upper cover. (Front Upper Cover)
2. Remove the paper exit lower cover. (Paper Exit Lower Cover)
3. Remove the paper exit front cover [A].



Top Right Cover

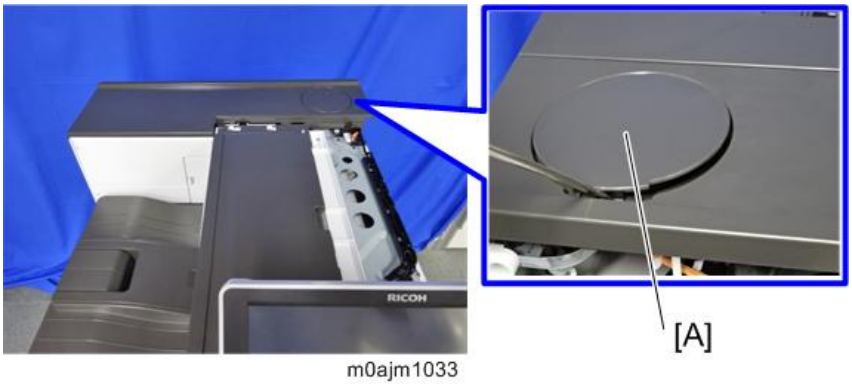
1. Remove the front upper cover. (Front Upper Cover)

2. Remove the right upper cover. (Right Upper Cover)
3. Remove the top right cover [A].

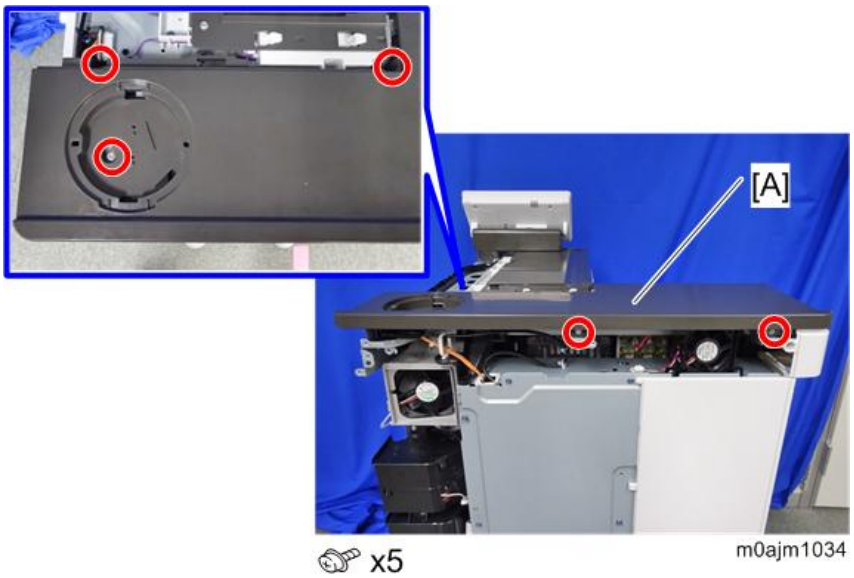


Top Rear Cover

1. Remove the top right cover. (Top Right Cover)
2. Remove the rear cover. (Rear Cover)
3. Using the flat-headed screwdriver, remove the cover [A].



4. Remove the top rear cover [A].

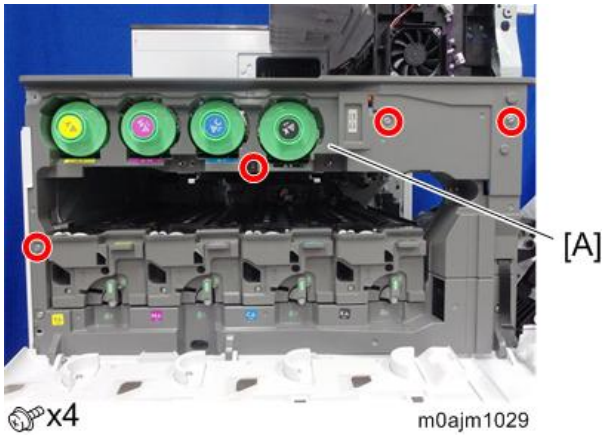


Inner Upper Cover

Note

The colors of parts and decals may vary depending on the model.

1. Open the front door, and remove the belt. (Front Cover)
2. Open the right door. (Duplex Unit)
3. Remove the paper exit front cover. (Paper Exit Front Cover)
4. Remove the image transfer unit. (Image Transfer Unit)
5. Remove the inner upper cover [A].

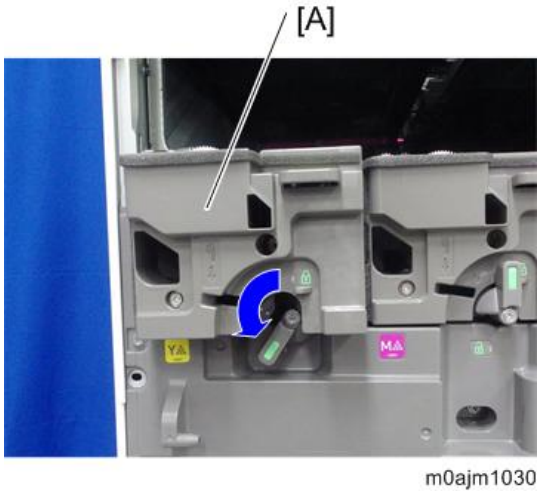


Inner Lower Cover

Note

The colors of parts and decals may vary depending on the model.

1. Remove the front cover. (Front Cover)
2. Remove the waste toner cover. (Waste Toner Cover)
3. Unlock the lock lever, and remove the PCDU (Y) [A].



4. Remove the inner lower cover [A].

Smart Operation Panel

Note

Before removing the Smart Operation Panel from the main unit and disassembling it, spread out a service mat [A] on the top of the main unit.

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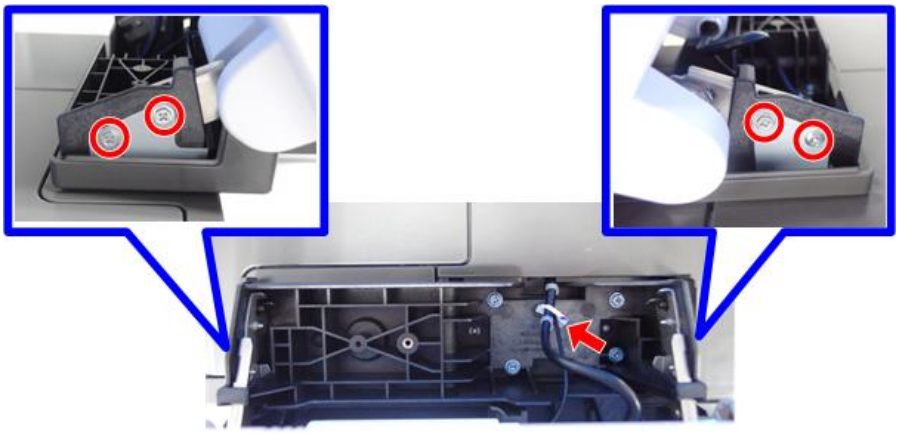
Operation Panel Unit

1. Remove the operation panel upper cover [A].

x1 m0ajm1035

2. Remove the screws and clamps that secure the operation panel.

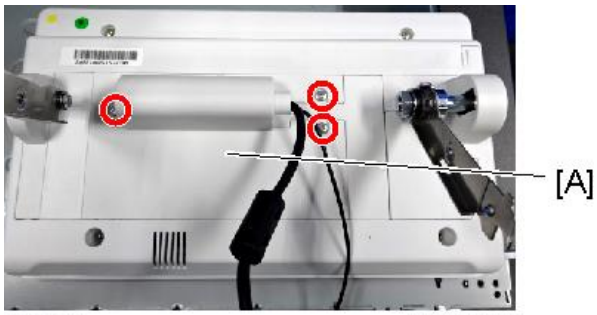


x4 x1 m0ajm1036

3. Spread a cloth or service mat [A] on the machine's top panel to protect the display. Place the operation panel on the exposure glass so that the display faces down.

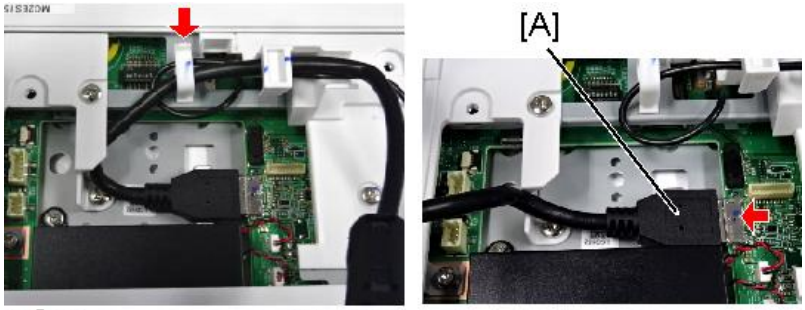
m0ajm1037

4. Remove the rear center cover [A].



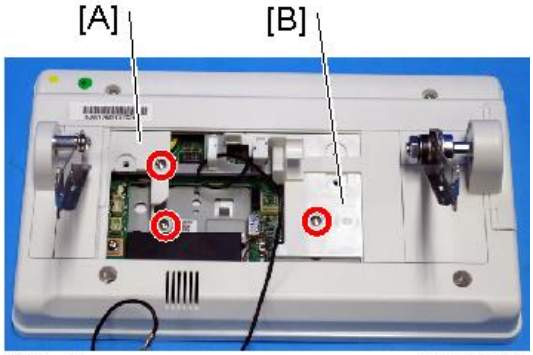
x3 d238m1022

5. Disconnect the USB cable [A].



x1 d238m1023

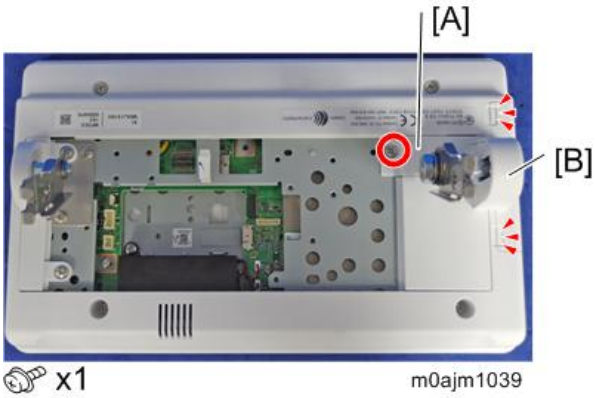
6. Remove the left small cover [A] and right cover [B].



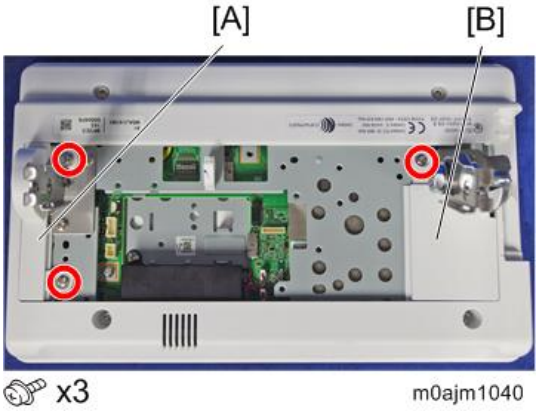
x3 d238m1041

7. Remove the ground wire [A].

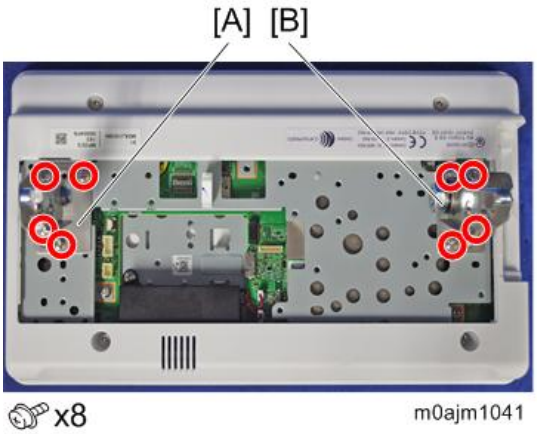
8. Remove the right small cover [A] and right hinge cover [B]. (Hook x 2)



9. Remove the left hinge cover [A] and right medium cover [B].



10. Remove the hinges [A] [B].

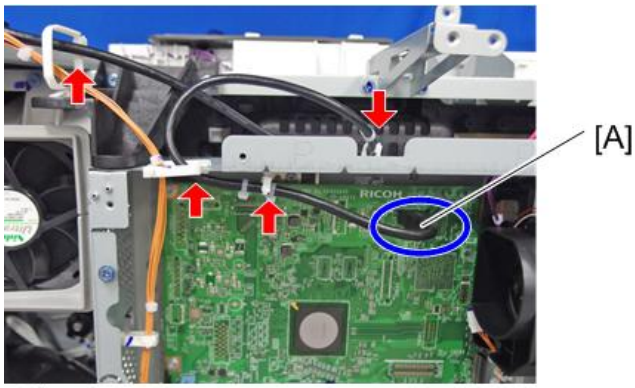


Internal Parts

Refer to the FSM for the Smart Operation Panel.

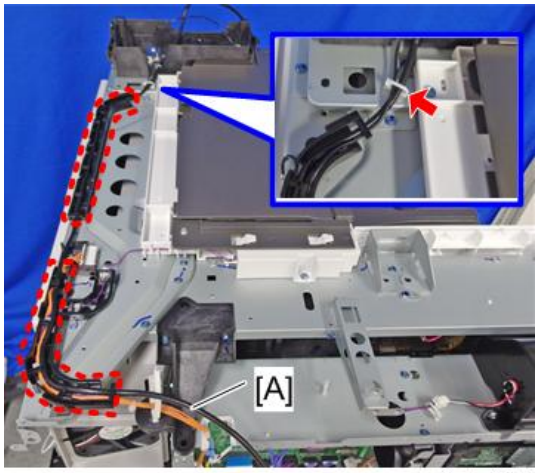
USB Cable

1. Disconnect the USB connector on the operation panel. (Operation Panel Unit)
2. Remove the top right cover. (Top Right Cover)
3. Remove the top rear cover. (Top Rear Cover)
4. Remove the rear cover. (Rear Cover)
5. Remove the controller box cover. (Controller Box Cover)
6. Disconnect the USB cable on the IPU [A].

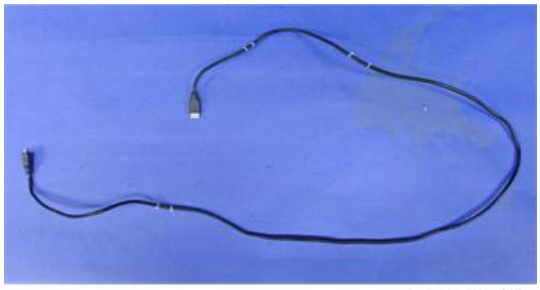


x4 m0ajm1042

7. Remove the USB cable [A] from the harness guide (dotted frame).



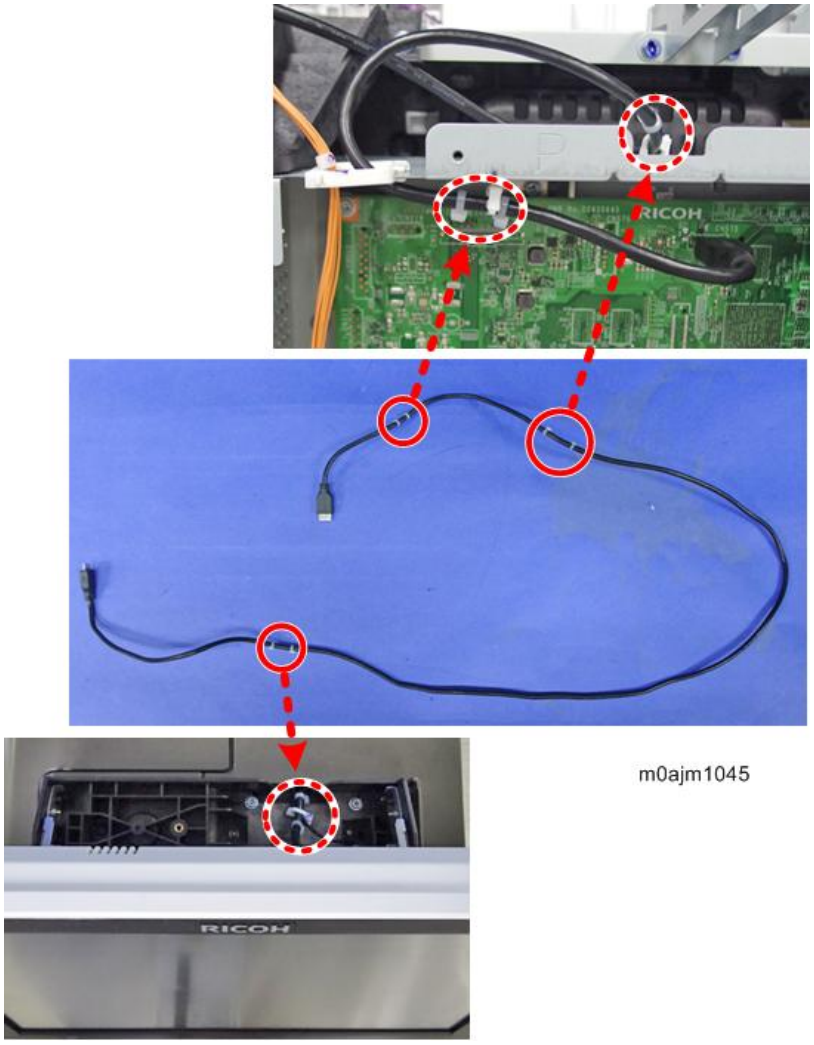
x1 m0ajm1043



m0ajm1044

Important

- When connecting the USB cable, use the connector with the two sets of binders for connecting to the IPU (circuit board) side.



m0ajm1045

Laser Unit

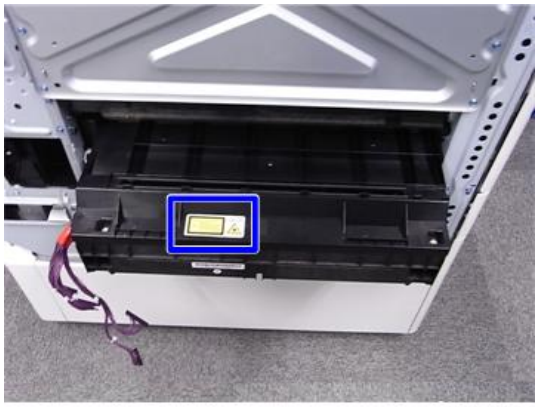
⚠WARNING

- Turn off the main power switch and unplug the machine before beginning any of the procedures in this section. Laser beams can cause serious eye injury.

- Caution Decals

d238m1031

- Decal Location



d1462271

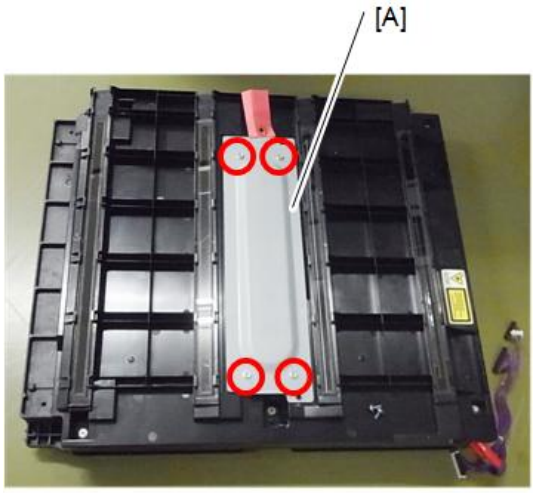
Laser Unit

⚠CAUTION

- A polygon mirror motor protection bracket and a red tag are attached to each new laser unit. Remove these before you install the new unit.

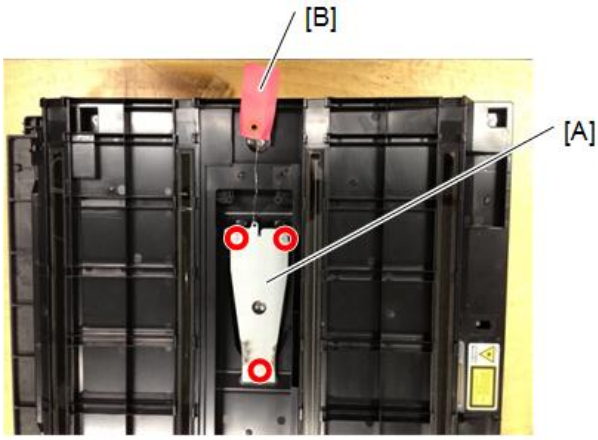
Before Replacement

1. Remove the polygon mirror motor cover [A] from the new laser unit.



x4 d238m0059

2. Polygon mirror motor bracket [A], Red tag [B]

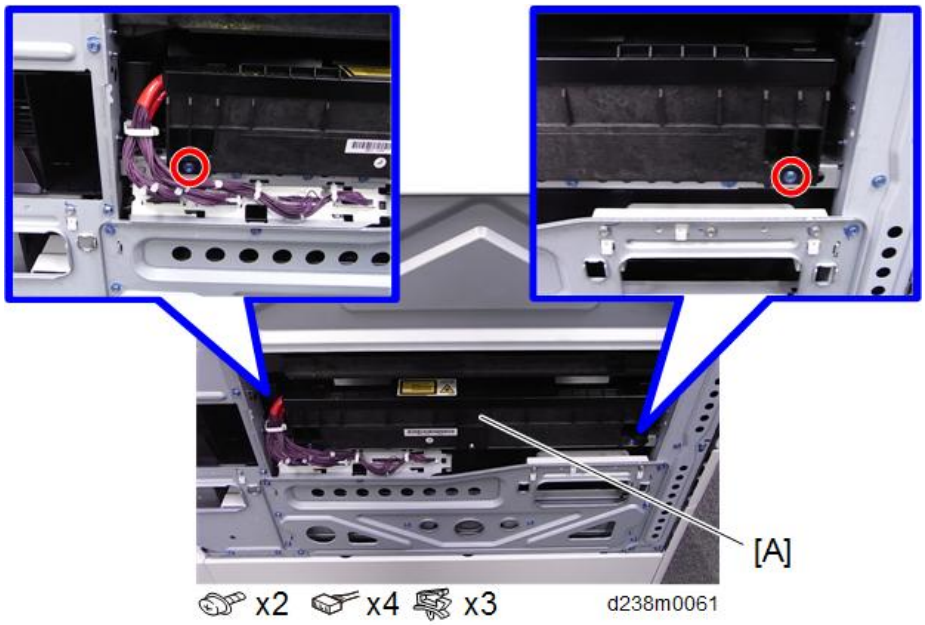


x3 d238m0060

3. Reattach the polygon mirror motor cover.

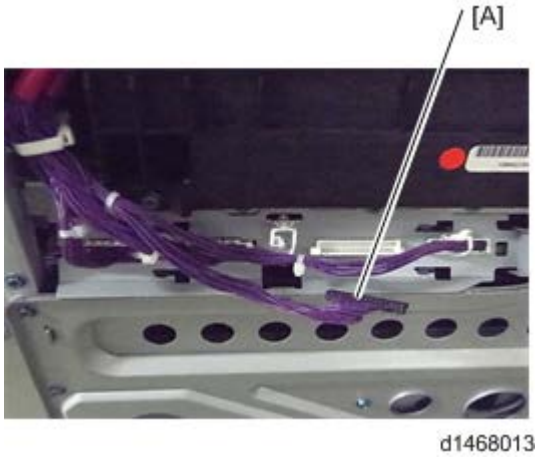
Removing

1. Left cover (Left Cover)
2. Laser unit [A]



Installing a New Laser Unit

1. Insert the new laser unit in the main body carefully.
2. Connect all harnesses except the laser optics positioning motor harness [A] (2nd from right).



3. Reassemble the machine.

What to Do after Replacing the Laser Unit

1. Close the front cover and attach the left cover.

⚠WARNING

- Attach the left cover before turning on the main power switch. Laser beams can seriously damage your eyes.

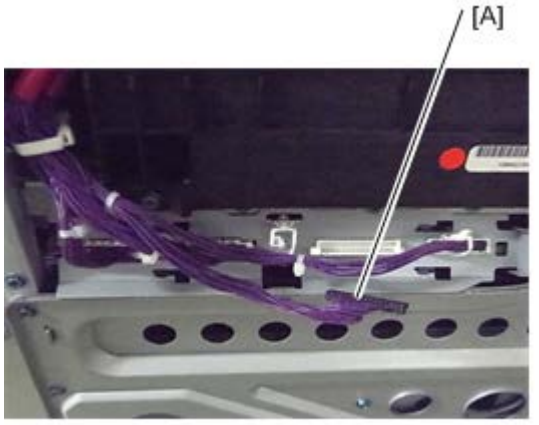
2. Plug in and turn on the main power switch.
3. Download the data of the new laser unit to the main body with SP2-110-005.
4. Check that SP2-119-001 to 003 is "0."

Note

- If it is not "0", perform SP2-110-005 again.

- If it is not executed correctly, outputs will be abnormal (magnification and color registration errors), and SC 285 may occur.

5. Turn off the main power switch and disconnect the power cord.
6. Remove the left cover and attach the laser optics positioning motor correction motor harness [A].



d1468013

7. Close the left cover.
8. Plug in and turn on the main power switch.
9. Select [14: Trimmed area] in SP2-109-003, and then press [OK].
10. Print the test pattern.
11. Check if the margin on either side on the output (14: Trimmed area) is less than 4±1 mm or not. If it is not within these limits, change the reference value (Bk) of the main scanning magnification adjustment (SP2-102-001 to -003).

Note

- Adjust the values of the main scanning magnification only for Bk (black). It is not necessary to adjust other color's values (cyan, magenta, yellow) because other colors are automatically adjusted in relation to the setting for Bk.
- Input the same value for each SP (SP2-102-001 to -003) even though there are three SPs of the main scanning magnification adjustment for the standard, middle and low line speed which are used for each paper type.

12. Check if the margin on the left side on the output (14: Trimmed area) is less than 2±1 mm or not. If it is not within these limits, change the reference value (Bk) of the registration adjustment (SP2-101-001).
13. Set SP2-109-003 to "0: None" after adjusting the main scanning magnification and registration.
14. Perform line adjustment.

    SP2-111-004: Forced Line Position Adj. Mode d

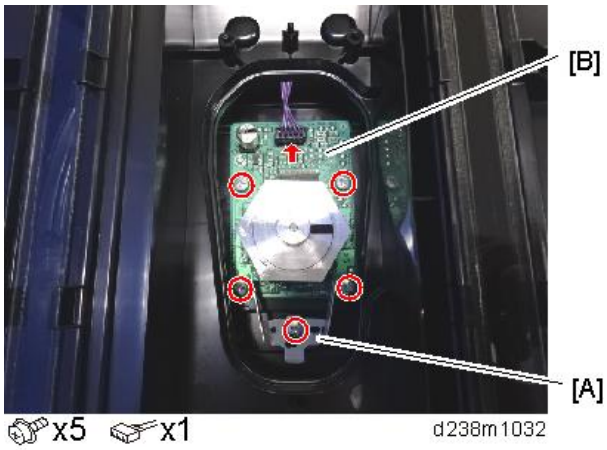
    The result can be checked with SP2-194-007 (MUSIC Execution Result Execution Result) (0: Success, 1: Failure).

    Also, results for each color can be checked with SP2-194-010 to 013 (1: Completed successfully).
15. Exit the SP mode.

Polygon Mirror Motor

1. Remove the laser unit. (Laser Unit)
2. Remove the polygon mirror motor cover [A]. (Laser Unit)

3. Remove the polygon mirror motor holder [A] and polygon mirror motor [B].



What to Do after Replacing the Polygon Mirror Motor

SP2-111-004: Forced Line Position Adj. Mode d

The result can be checked with SP2-194-007 (MUSIC Execution Result Execution Result) (0: Success, 1: Failure).

Also, results for each color can be checked with SP2-194-010 to 013.

SP descriptions

SP2-110-005 (Writing Unit Adj. Transfer)

Execute this to download adjustment values of the laser unit to the main unit's SP.

Must be executed when replacing the laser unit or assembling the main unit.

SP2-119-001 to 003 (Skew Adjustment Display)

Displays the current skew correction value for each color.

SP2-109-003 (Test Pattern: Pattern Selection)

Selects the test pattern.

SP2-102-001 to -003 (Magnification Adjustment: Bk)

Adjusts the main scan magnification for each speed for BK.

Value increase: image stretches.

Value decrease: image shrinks

CMY color scale will fit to standard BK speed after executing MUSIC; BK color will have a different scale in the image without executing MUSIC after this SP.

SP2-101-001 (Registration Correction: Color Main Dot: Bk)

Adjusts main scan registration for BK.

Value increase: image shifts to the right facing the paper.

Value decrease: image shifts to the left facing the paper.

CMY colors are adjusted to the BK color position if MUSIC is done after this SP.

SP2-111-004 (Forced Line Position Adj. Mode d)

Executes the fine line position adjustment and rough line position adjustment.

SP2-194-007 (MUSIC Execution Result Execution Result)

Displays the result of MUSIC adjustment.

0: Success, 1: Failure

SP2-194-010 to 013 (MUSIC Execution Result: Error Result C, M, Y, K)

Displays the result code of MUSIC adjustment for each color.

Detection Result	Meaning
0	MUSIC not executed
1	Correction Succeeded: Sampling is conducted correctly and the correction is completed
2	Sampling Failed (When the MUSIC pattern failed to be detected)
3	Detection Patterns Lacking (When the number of lines detected is smaller than the fixed number)
4	The sampled data is beyond the correction range. (Calculated correction value is just out of range)
5	The sampled data is beyond the correction range.

PCDU

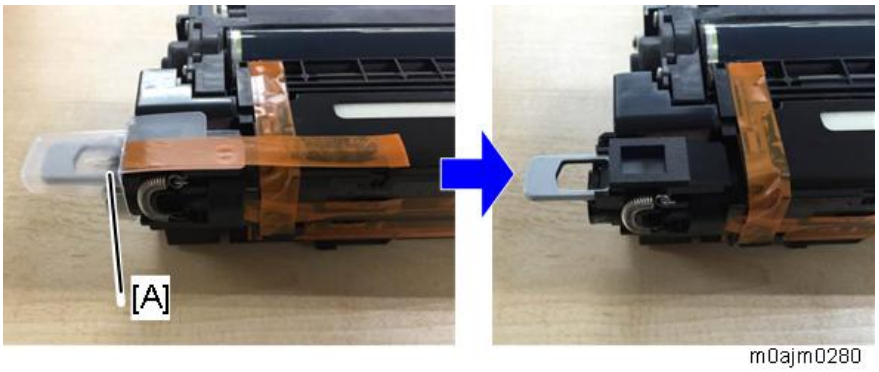
Note

The colors of parts and decals may vary depending on the model.

Notes when replacing a PCDU

Note

- The PCDU seal does not need to be rolled up after the replacement of the PCDU because it will be automatically rolled up when the main unit is powered on after replacement.
- The new PCDU has a protective cover [A] over its shutter system. Be sure to remove the cover and orange tape before installing the PCDU in the machine.



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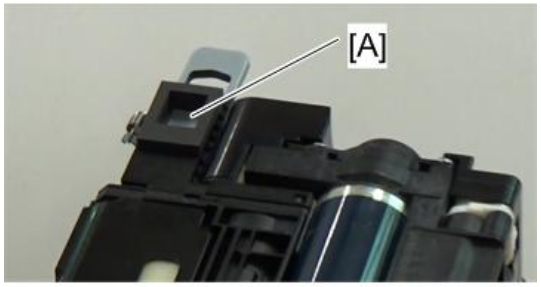
- The toner supply port [A] of the PCDU uses a shutter system.



m0ajm1082

RTB 23
Shake a new unit before installing

For SP C840DN

Important

- Do not release the spring pressure in the PCDU for SP C840DN. If you have mistakenly released the spring pressure, attach the springs (Attaching the Spring after Mistakenly Releasing the Spring Pressure).

For SP C842DN

Important

When replacing the PCDU of the SP C842DN, release spring pressure according to the following procedure.

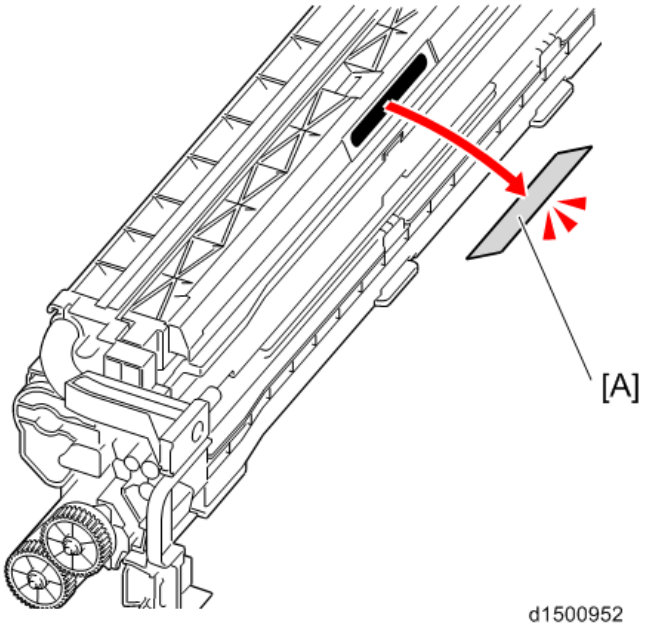
Note

- This is necessary because the SP C842DN requires a different spring pressure compared to the SP C840DN. Failing to carry out this procedure will reduce the yield of the PCDU to about 1/10 of its

target and will also degrade the cleaning performance, resulting in an image quality problem where black streaks appear on the printout.

Releasing the spring pressure

1. Remove the seal [A].



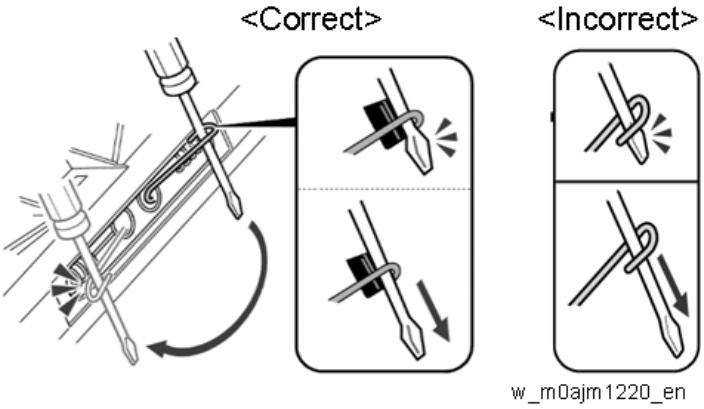
2. Insert a flat-headed screwdriver into the hooked end of the pin, as shown. Move the screwdriver and pin slowly over to the opposite side, which will disengage the spring. Remove the screwdriver slowly from the pin.

⚠CAUTION

Make sure to use a flat-headed screwdriver, as the spring is under very high tension. DO NOT do this step by hand.

Important

- If the pin is attached crookedly to the unit causing the hook to face outward, do not insert the flat-headed screwdriver as shown in the 'Incorrect' illustration. The screwdriver will slip out from the hook and may cause damage to the components. If the pin is distorted, correct the pin and insert the screwdriver as shown in the 'Correct' illustration.



3. Check if the spring pressure is adjusted correctly.

Correct

m0ajm1177

Incorrect

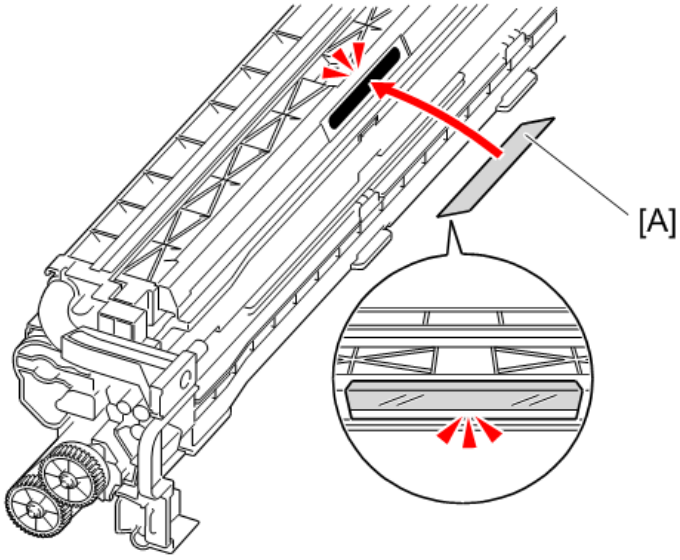
m0ajm1178

If incorrect, open the cover and reattach the spring. See Attaching the Spring after Mistakenly Releasing the Spring Pressure.

4. Attach the seal [A] included with the unit.

Important

Attach the seal in the correct orientation. If attached in the incorrect orientation, the seal may peel off.



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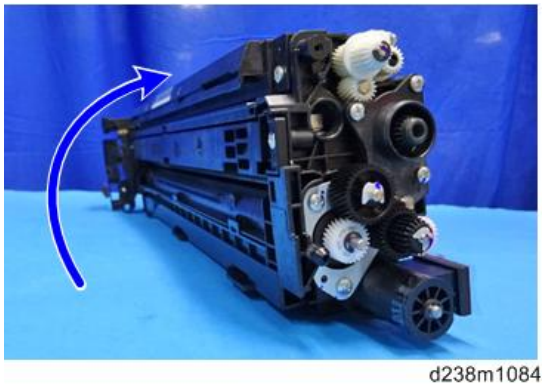
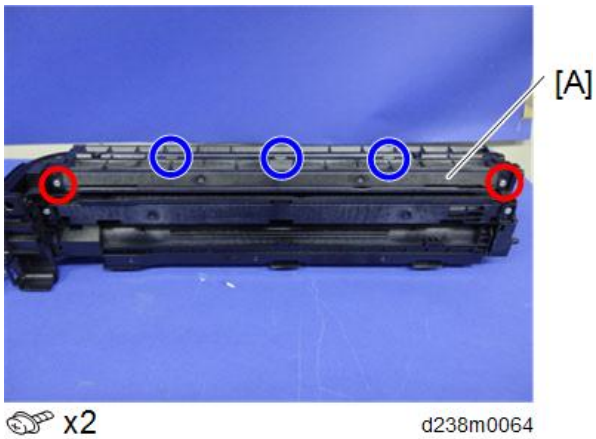
Attaching the Spring after Mistakenly Releasing the Spring Pressure

1. Remove the rear end cover [A].

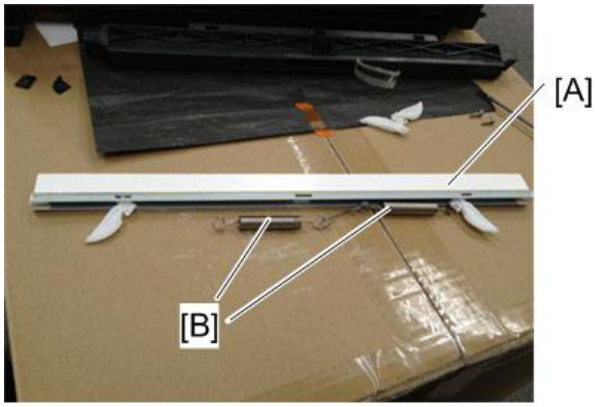
2. Rotate by 90 degrees.



3. Remove the PCU cover [A]. (3 hooks)



4. Remove the lubricant bar [A] and springs [B].



d146z0071

5. Attach the pin between the springs as shown below, and then reinstall the springs in the lubricant bar.

d1464015

d1464016

6. Reinstall the lubricant bar [A] in the PCU, and then reattach the PCU cover [B] to the PCU (3 hooks).

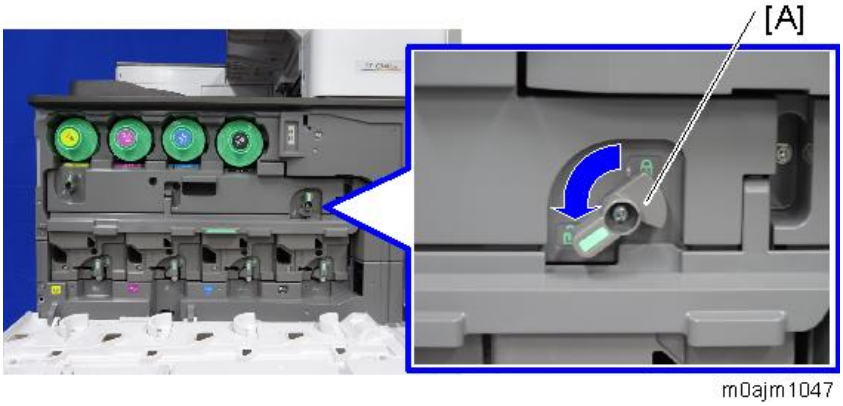
7. Reattach the rear end cover.

PCDU

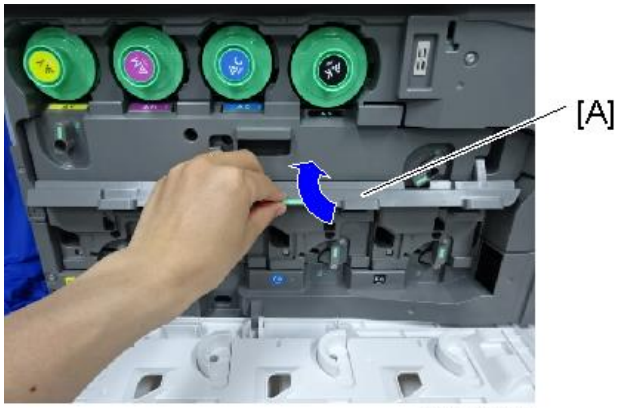
Replacement

1. Open the front cover [A].

2. Release the lock of the ITB contact lever [A].



3. Open the Image transfer cover: front lower [A].



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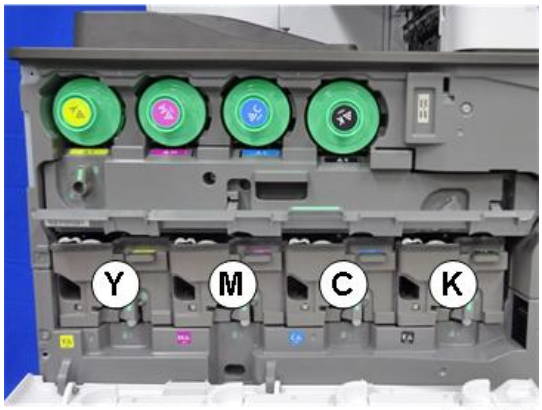
4. Release the PCDU lock lever [A].

m0ajm1049

5. Pull out the PCDU [A].

m0ajm1050

The location of Y, M, C, and K is as follows.



m0ajm1051

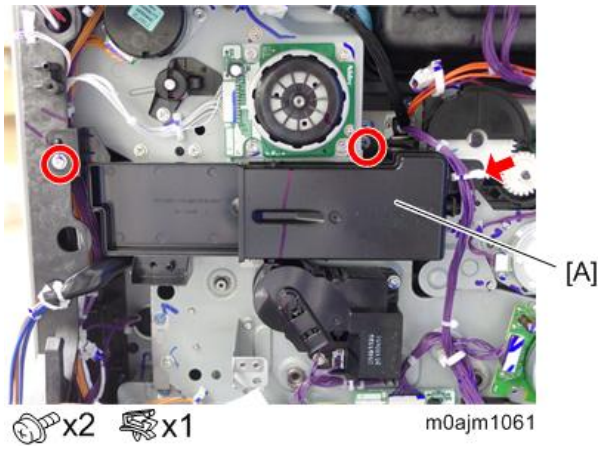
What to Do after Replacing the PCDU

1. Turn ON the main power.
2. Do the "Color Calibration".

   See Color Registration and Color Calibration.

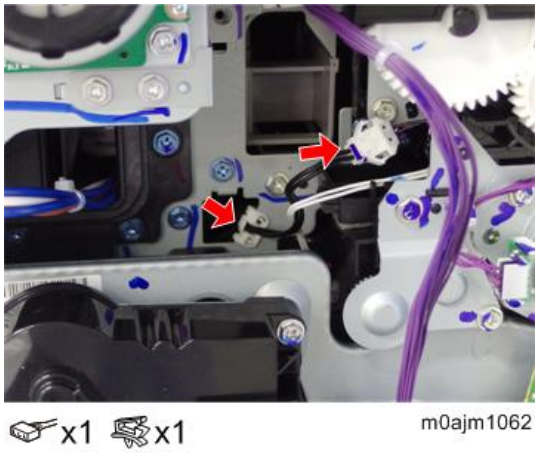
Imaging Temperature Sensor (Thermistor)

1. Remove the controller box. (Paper Transfer Contact and Release Motor Unit)
2. Remove the toner supply cooling fan. (Toner Supply Cooling Fan)
3. Remove the duct [A].



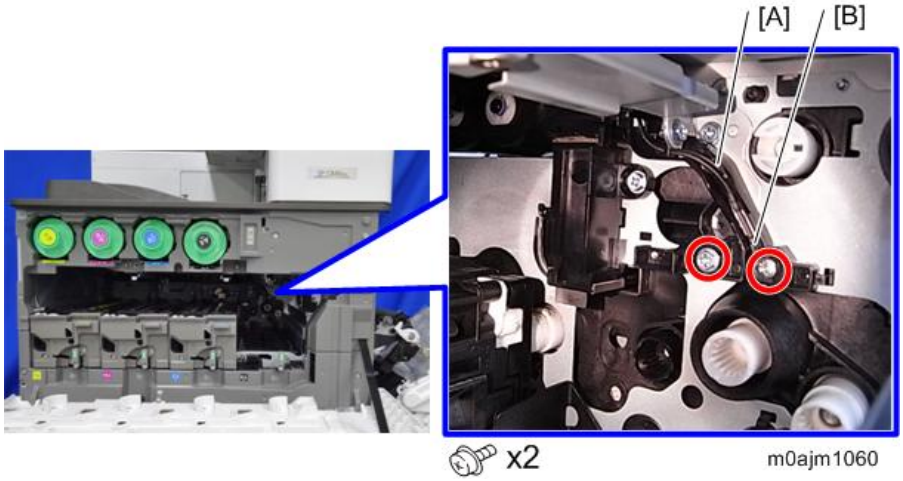
m0ajm1061

4. Disconnect the connector and release the clamp.



5. Remove the image transfer belt unit. (Image Transfer Belt Unit)

6. Remove the harness guide [A] and imaging temperature sensor [B].



Waste Toner

Waste Toner Bottle

Before Replacing the Waste Toner Bottle

When the bottle is replaced after the machine detects that the waste toner bottle is full and stops, the counter for the Waste Toner Bottle is reset automatically.

When the bottle is replaced before the machine stops due to a full bottle, it is necessary to reset the PM counter manually (SP3-701-142).

To reset PM counter manually, do the following steps.

1. Before replacing the waste toner bottle, set SP3-701-142 to "1" and switch the power OFF.
2. Then replace the waste toner bottle and switch the power ON.

SP3-701 (Manual New Unit Set)

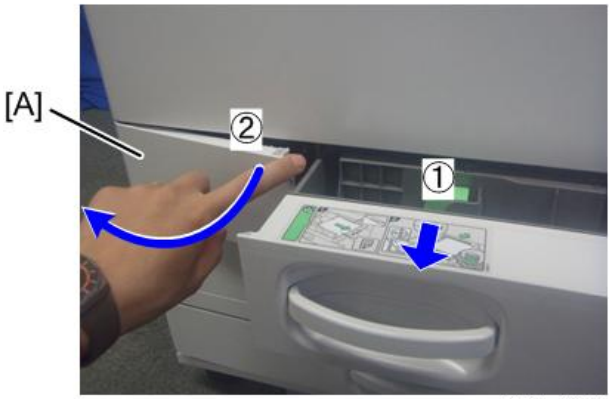
This SP is the new unit detection flag.

0: new unit detection flag OFF, 1: new unit detection flag ON

Item	SP
Waste toner bottle	SP3-701-142

Replacement Procedure

1. Pull out tray 1 slightly, and open the waste toner cover [A].



d238m1054

2. Pull out the waste toner bottle [A].

3. Replace the waste toner bottle.

Image Transfer Unit

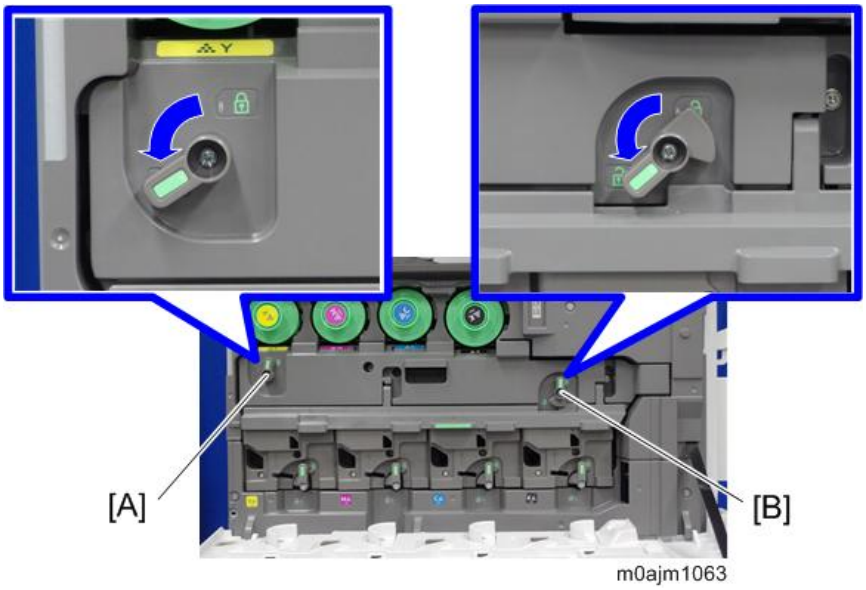
Note

The colors of parts and decals may vary depending on the model.

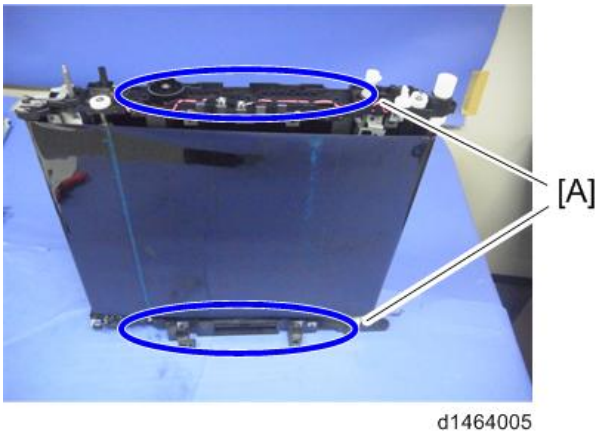
Image Transfer Belt Unit

CAUTION

- Note that if the two levers [A] [B] are not pointing down, the image transfer belt unit cannot be inserted.



- Before you remove or attach the image transfer belt unit, open the right door and the paper transfer unit.
- Do not touch the rollers but hold the upper/lower resin parts [A] when you lift the Image Transfer Unit. Touching the rollers may cause poor image quality.



What to Do before Replacing the Image Transfer Belt

Before replacing the Image Transfer Belt unit, set SP3-701-093 to "1" and switch the power OFF.

Then replace the Image Transfer Belt unit and switch the power ON.

SP3-701 (Manual New Unit Set)

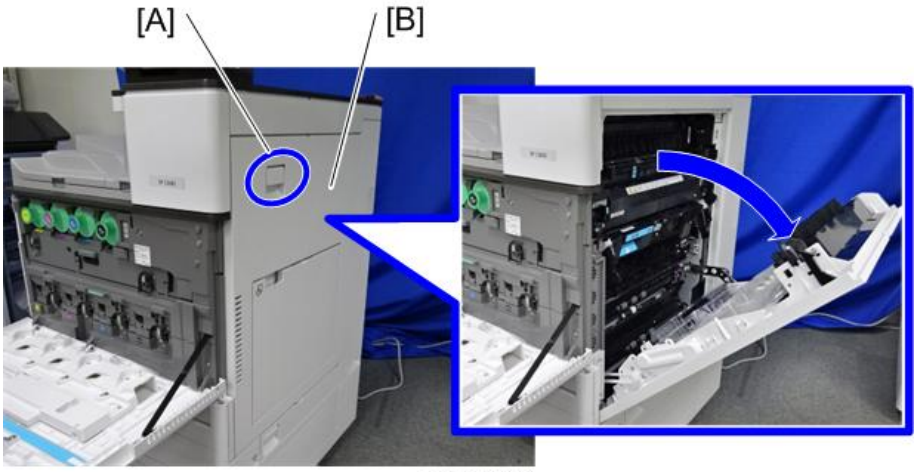
This SP is the new unit detection flag.

0: new unit detection flag OFF, 1: new unit detection flag ON

Item	SP
Image Transfer Belt Unit	SP3-701-093

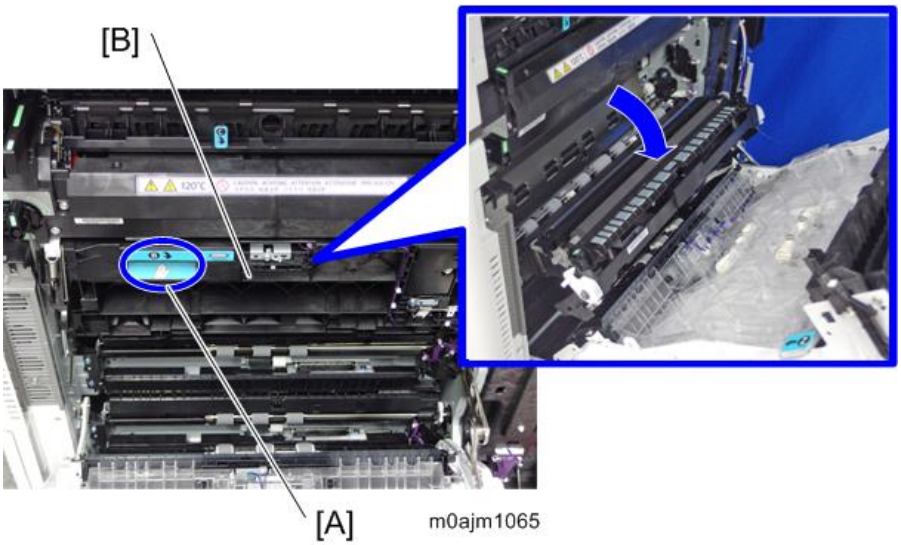
Replacement

1. Open the front cover.
2. Release the lock [A] and open the right door [B].



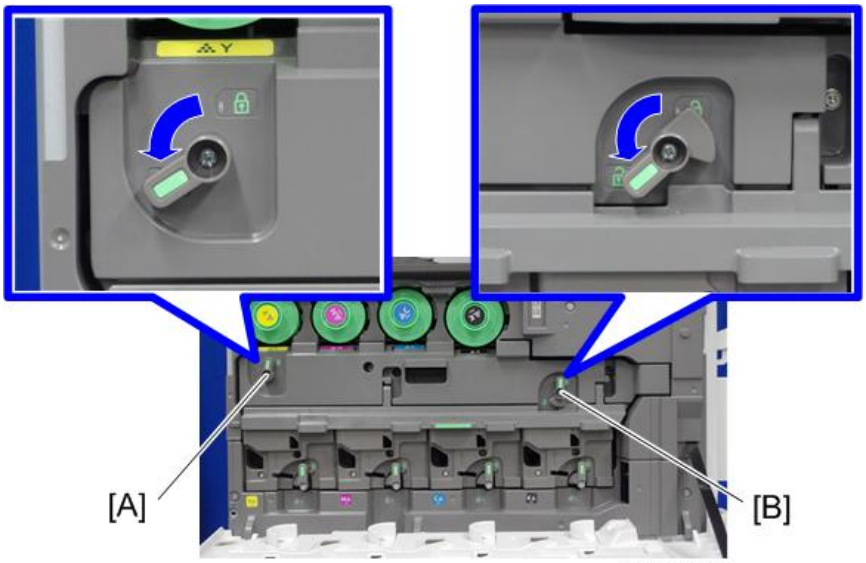
m0ajm1064

3. Pull the handle [A] and open the paper transfer unit [B].



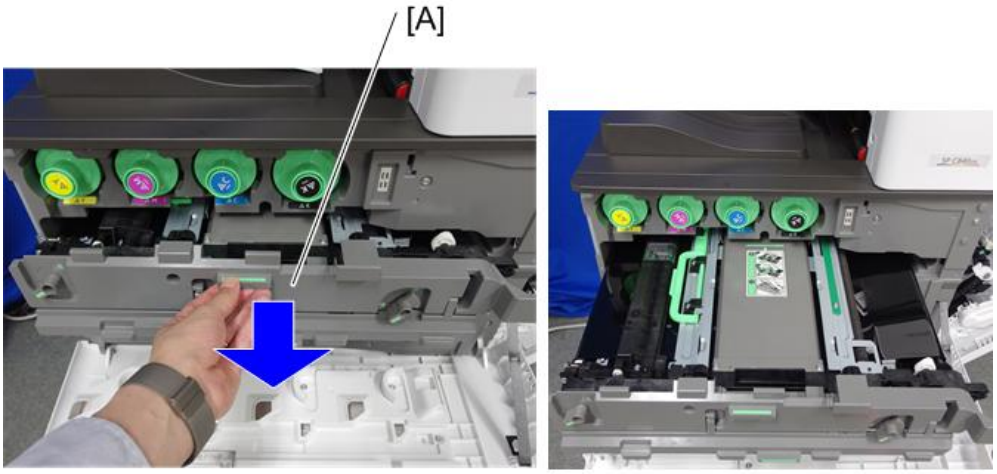
m0ajm1065

4. Release the ITB lock lever [A] and ITB contact lever [B].



m0ajm1063

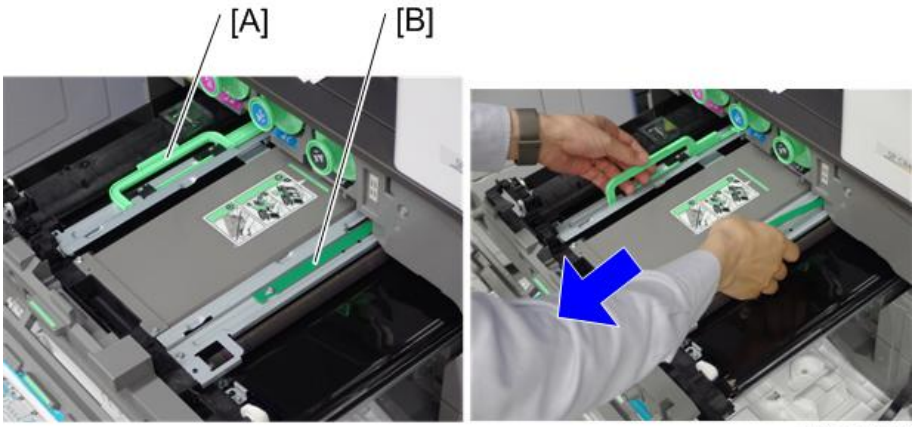
5. Pull out the image transfer belt unit [A] until it stops.



m0ajm1066

6. Grab the handle [A] and belt [B], and remove the image transfer belt unit.

Lifting the handle [A] will release the lock.



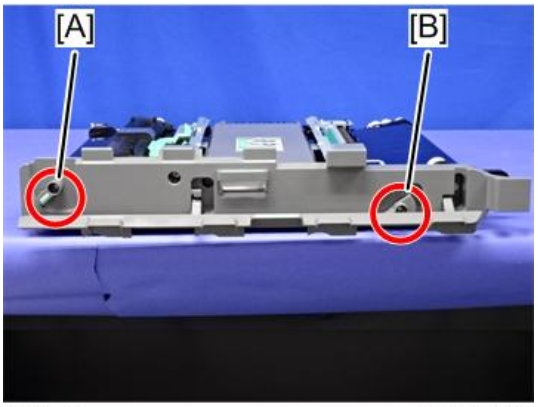
m0ajm1067

Locking mechanism

m0ajm1068

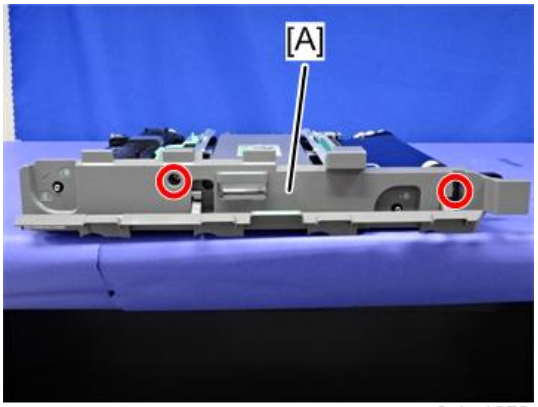
Image Transfer Front Cover, Image Transfer Top Cover

1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
2. Remove the ITB lock lever [A] and ITB contact lever [B].



x2 m0ajm1069

3. Remove the image transfer front cover [A].



x2 m0ajm1070

4. Remove the image transfer top cover [A].

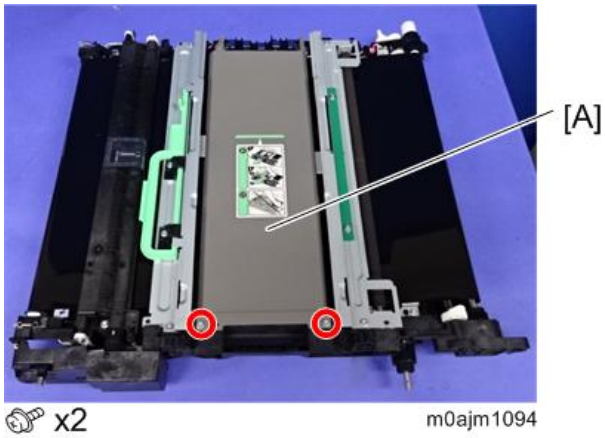
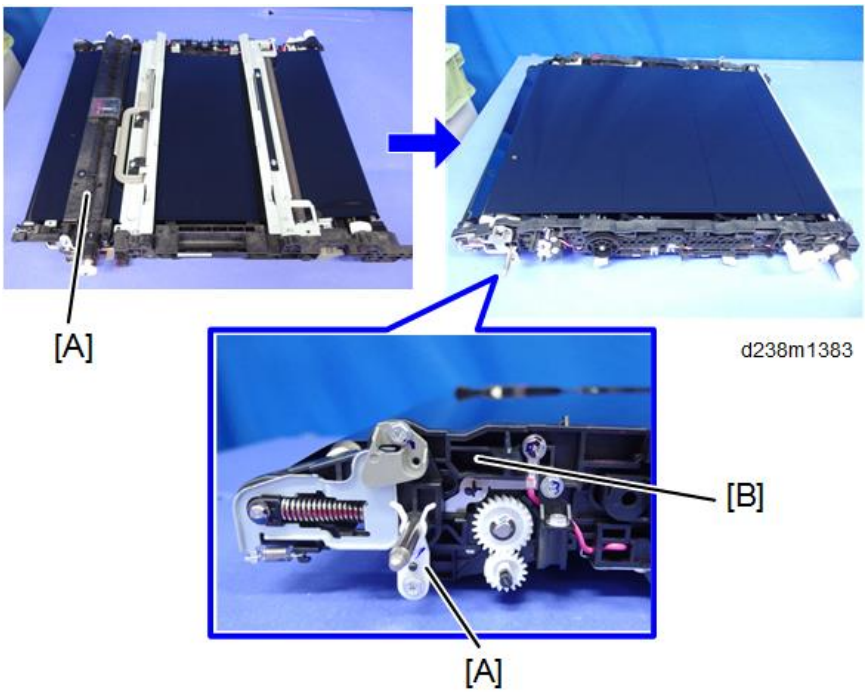


Image Transfer Cleaning Unit

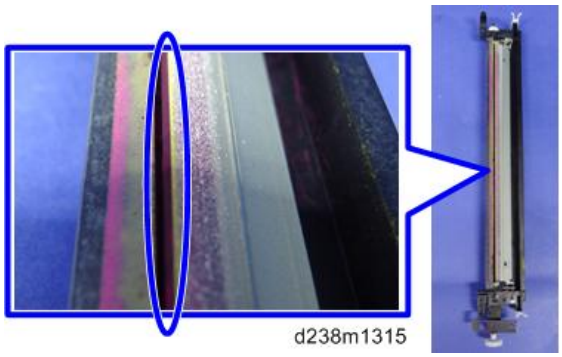
⚠CAUTION

- Before removing the image transfer cleaning unit [A], turn the assembly upside down (as shown on the right), so that the image transfer cleaning unit [A] is underneath the image transfer belt unit [B]. This prevents scattering of toner.



Important

- When replacing the Image Transfer Cleaning Unit, do not touch the cleaning blade edge.



What to Do before Replacing the Image Transfer Cleaning Unit

Before replacing the Image Transfer Belt Cleaning, set SP3-701-102 to "1" and switch the power OFF.

Then replace the Image Transfer Belt Cleaning and switch the power ON.

SP3-701 (Manual New Unit Set)

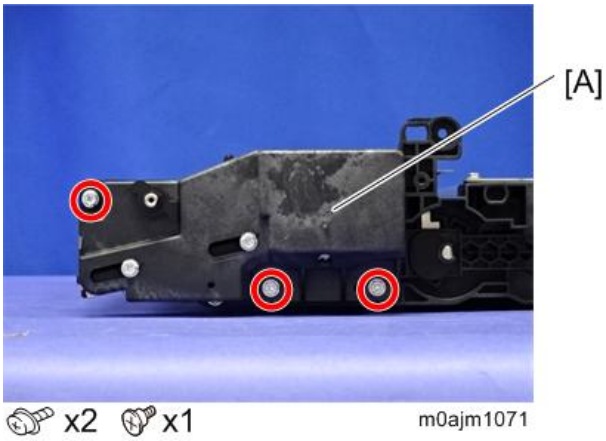
This SP is the new unit detection flag.

0: new unit detection flag OFF, 1: new unit detection flag ON

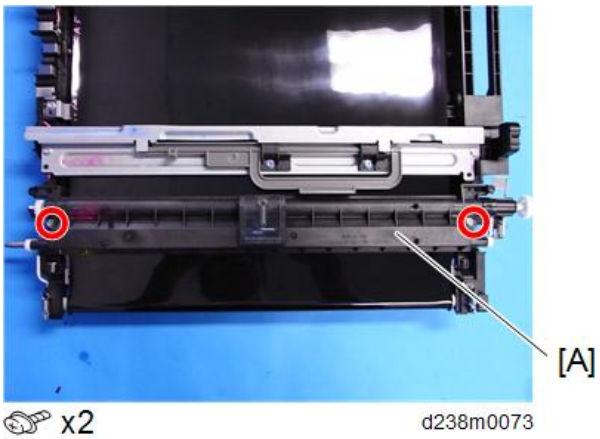
Item	SP
Image Transfer Cleaning Unit	SP3-701-102

Replacement

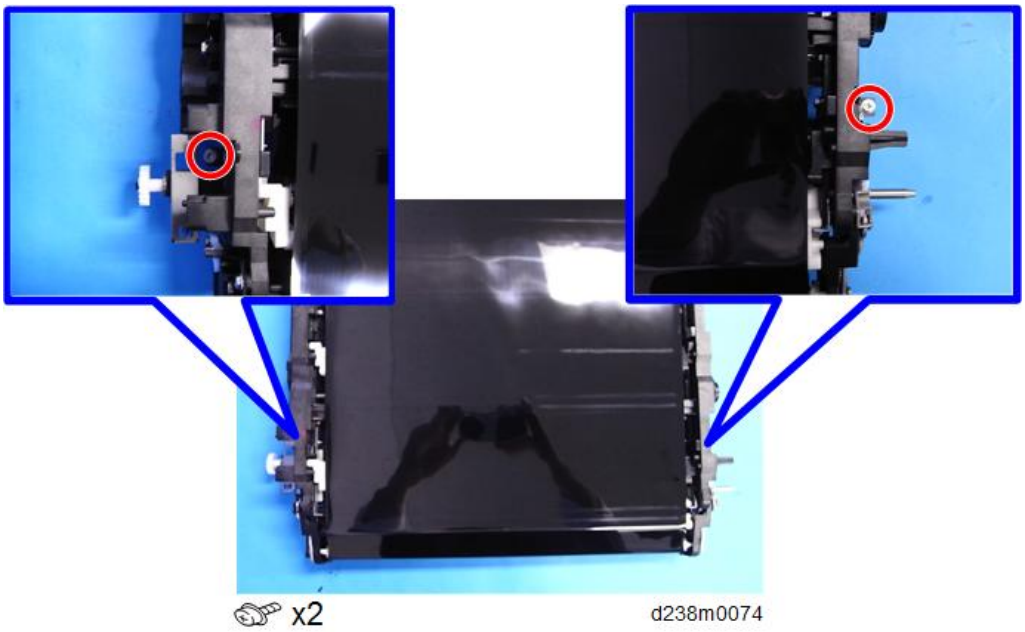
1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
2. Remove the image transfer front cover and image transfer top cover. (Image Transfer Front Cover, Image Transfer Top Cover)
3. Remove the image transfer lock unit [A]



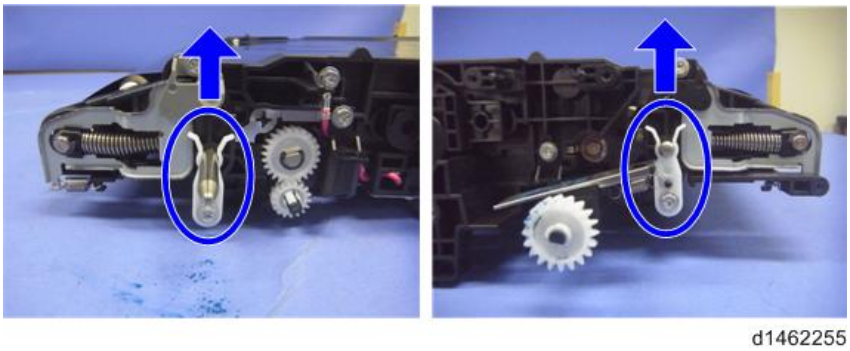
4. Remove the screws above the image transfer cleaning unit [A].



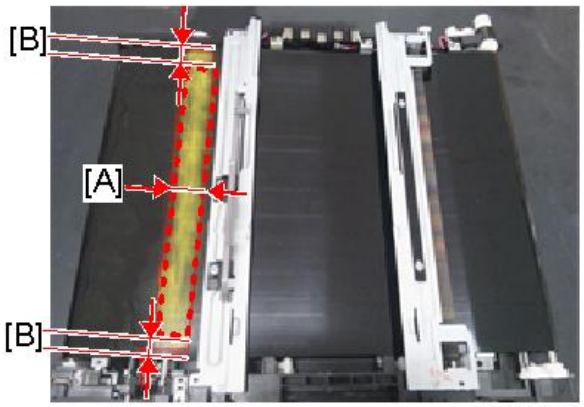
5. Turn the image transfer belt unit over, and remove the screws below the image transfer cleaning unit.



6. While releasing the hook, lift the image transfer belt unit gently, and remove the image transfer cleaning unit.



7. Put toner on the image transfer belt.



d238z2176

[A]: 20mm or more

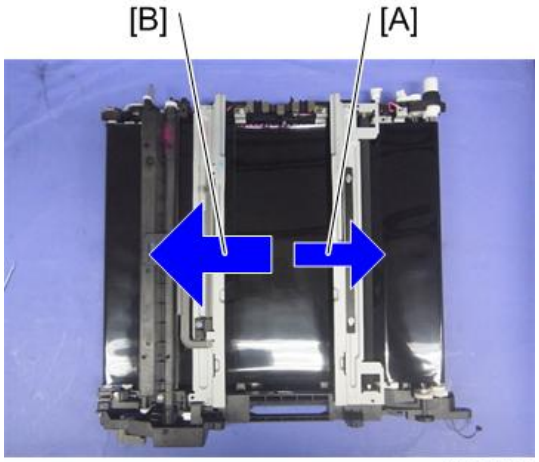
[B]: About 5mm

Note

- It is not necessary to specify the color of the toner, though yellow toner is used in the above example.

8. Attach the image transfer cleaning unit.

9. Rotate the image transfer belt about 10mm [A] in the reverse direction, then turn it forward one complete turn [B].



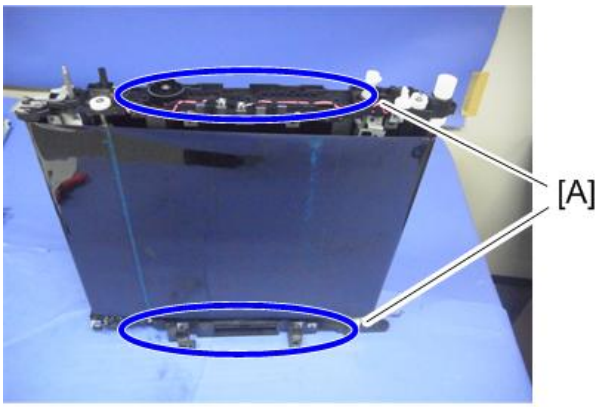
d1462175

Image Transfer Belt

CAUTION

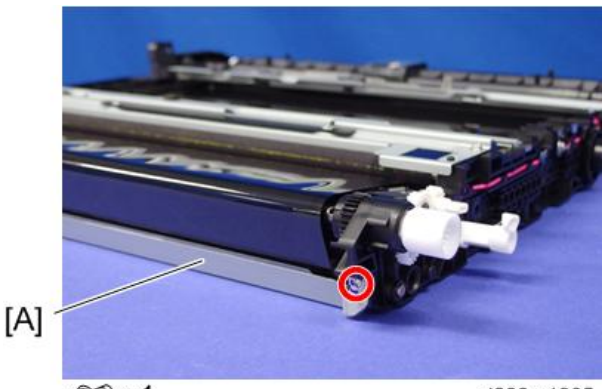
- Do not touch the rollers but hold the upper/lower resin parts [A] when you lift the Image Transfer Unit.

Touching the rollers may cause poor image quality.



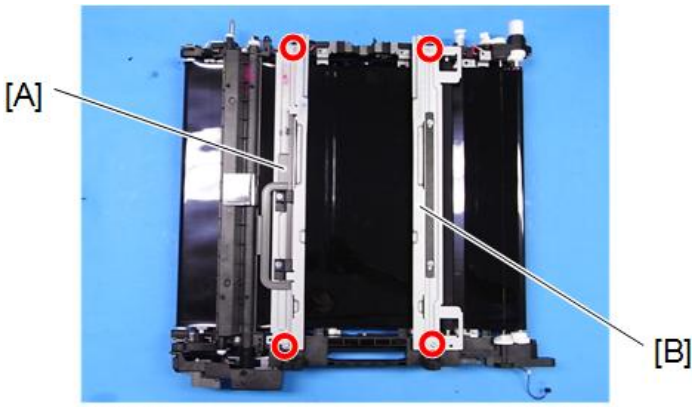
d1464005

1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
2. Remove the image transfer front cover and image transfer top cover. (Image Transfer Front Cover, Image Transfer Top Cover)
3. Remove the bracket [A].



x1 d238m1305

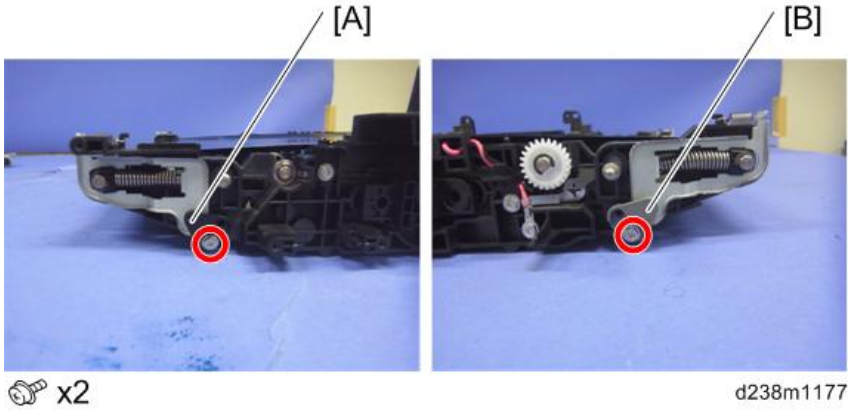
4. Remove the brackets [A] [B].



x4 d238m0076

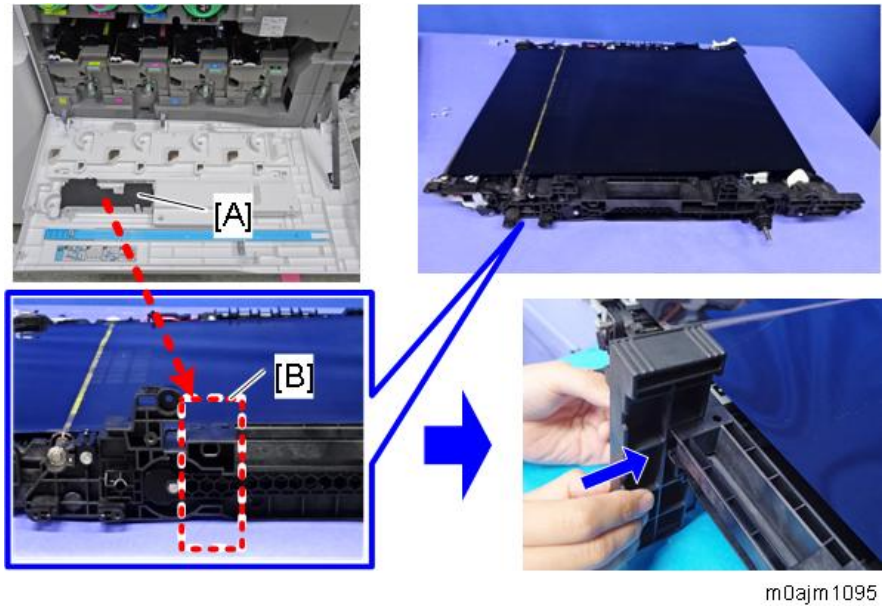
5. Remove the image transfer cleaning unit. (Image Transfer Cleaning Unit)

6. Remove the tension fixing frames [A] and [B] (front side: black, rear side: gray).

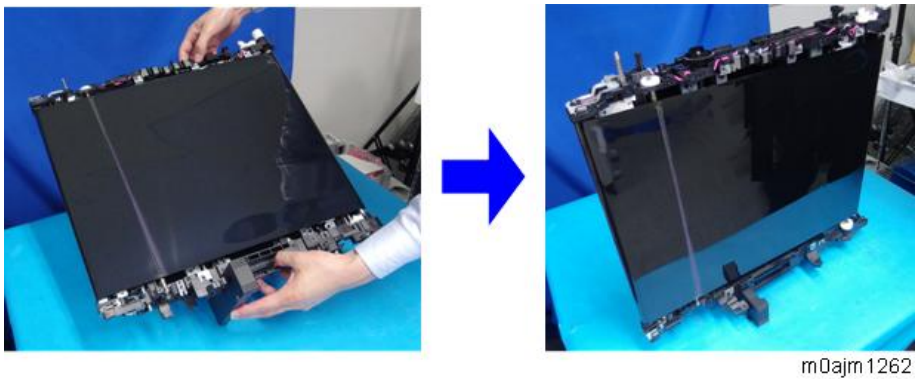


7. Take out the stand [A] from its storage location [B] in the front cover, and attach it to the front of the image transfer belt unit.

The stand [A] is used to stand the image transfer belt unit on its side.

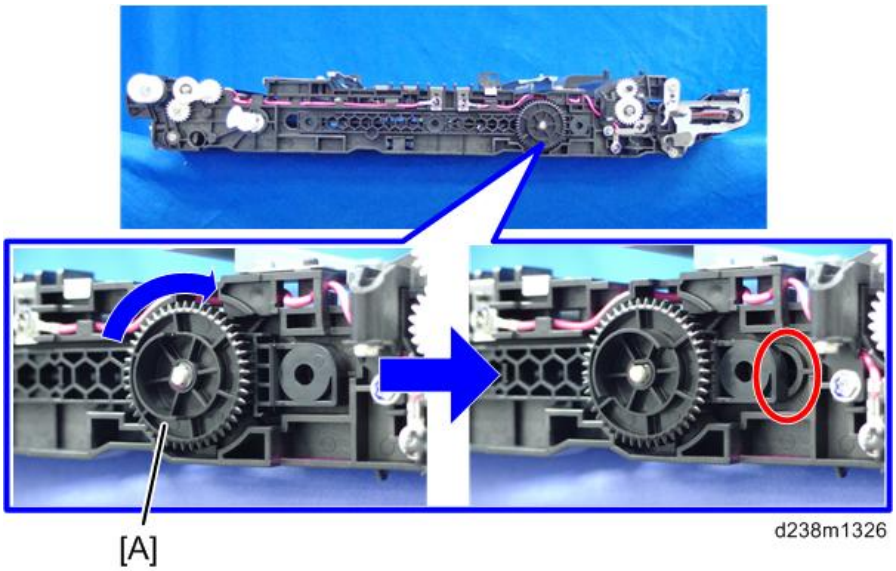


8. Position the image transfer unit with the stand underneath.

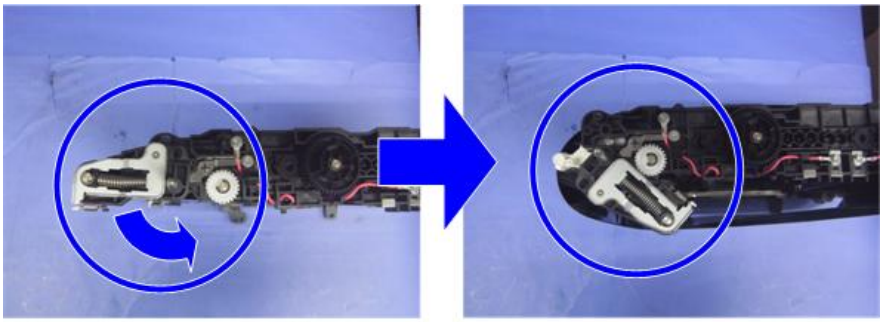


9. Rotate the gear [A] to change to the OPEN position.

The part in the red circle opens.



10. Release the tension, and remove the belt.



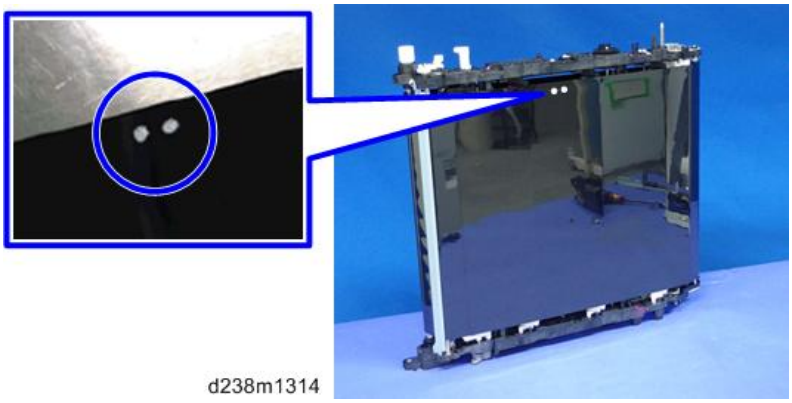
Attaching the Belt

Important

- When attaching the belt, make sure that there is no foreign material on it.
- Make sure to attach the belt with the edge with markings (2 white dots) at the unit's rear.
- Be careful not to bend or scratch the belt.

1. Place the image transfer unit upright with its front face down, and then attach the belt from the top.

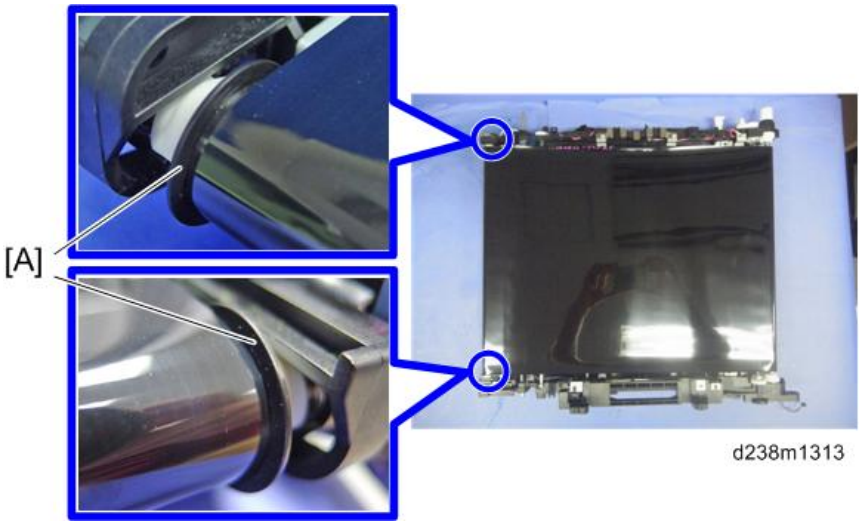
Make sure to have the belt's edge with markings (2 white dots) positioned at the top (unit's rear).

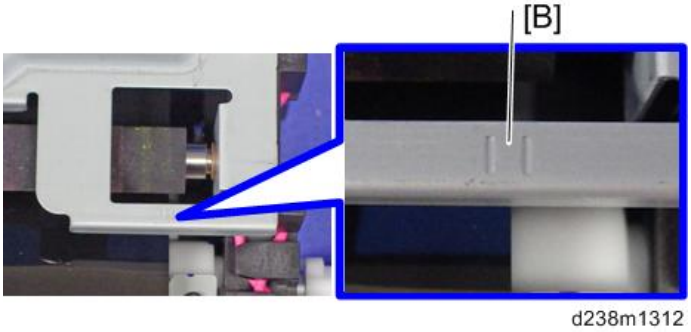


2. Holding the resin parts on the top and bottom, place the unit on its side.

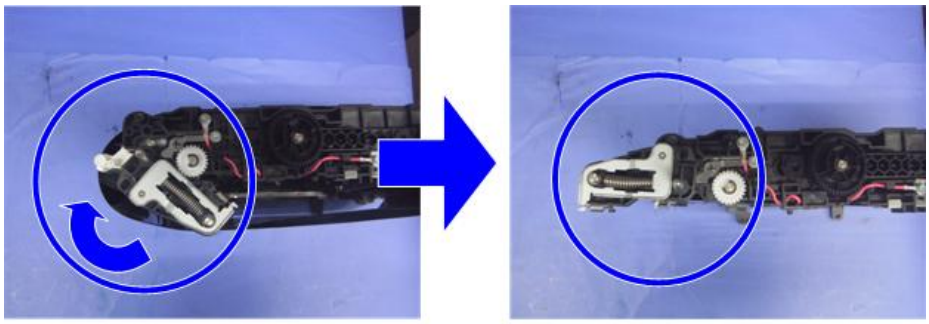
3. Adjust the belt position according to the following two points:

- The belt must be attached between the flanges [A] at both ends of the tension roller.
- The belt's edge must be between the two lines [B] on the frame.





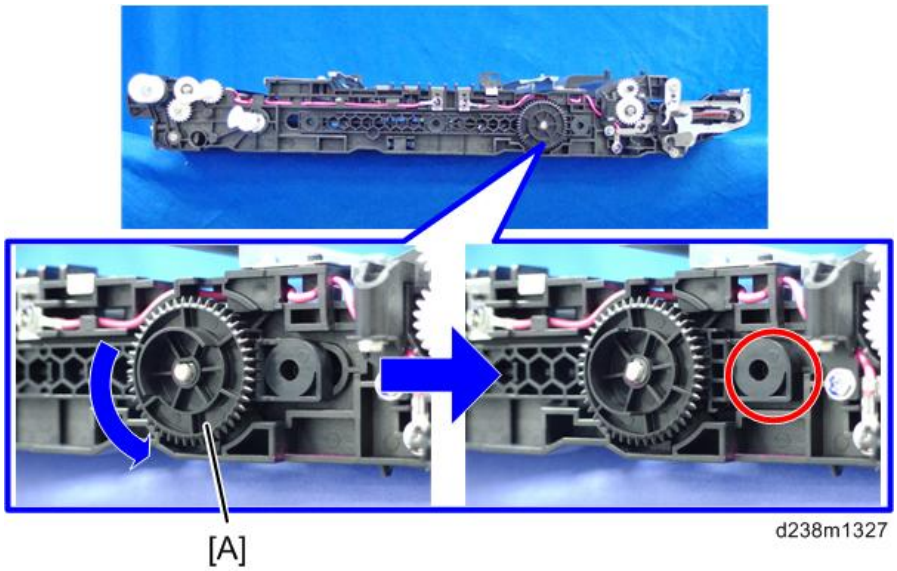
4. Put the tension back to normal.



d1464009

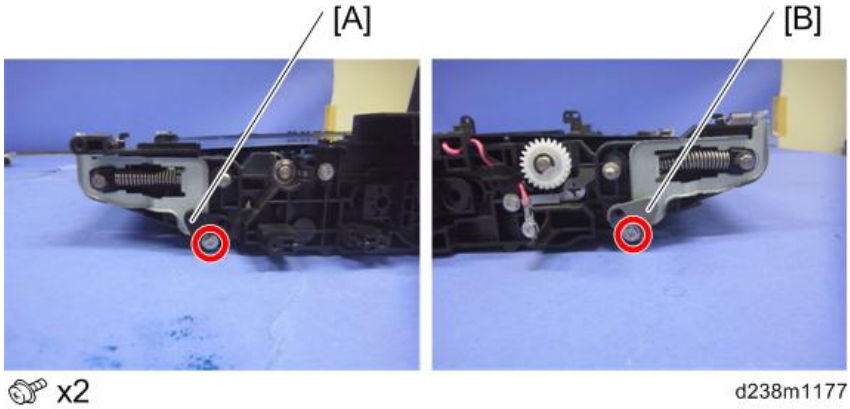
5. Rotate the gear [A] to change to the CLOSED position.

The part in the red circle closes.



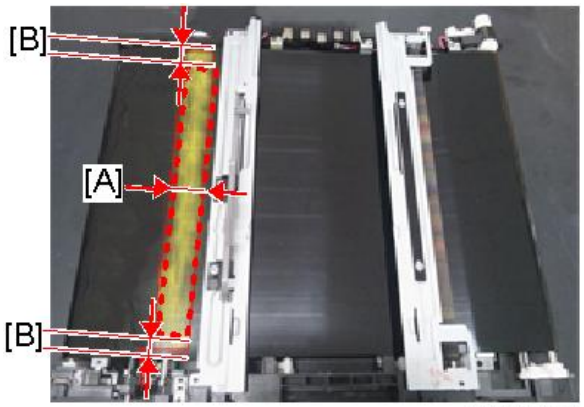
d238m1327

6. Attach the tension fixing frames [A] and [B] (front side: black, rear side: gray).



d238m1177

7. Put toner on the image transfer belt.



d238z2176

[A]: 20mm or more

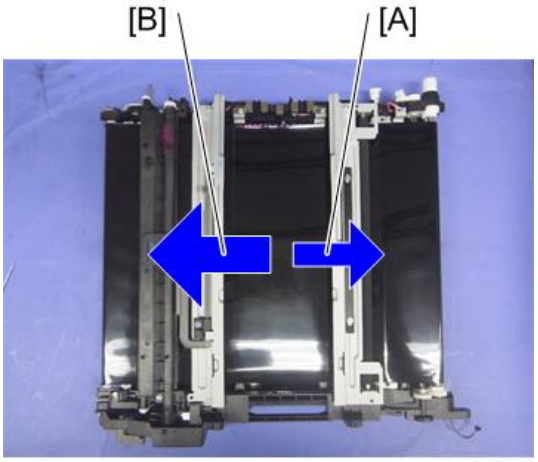
[B]: About 5mm

Note

- It is not necessary to specify the color of the toner, though yellow toner is used in the example above.

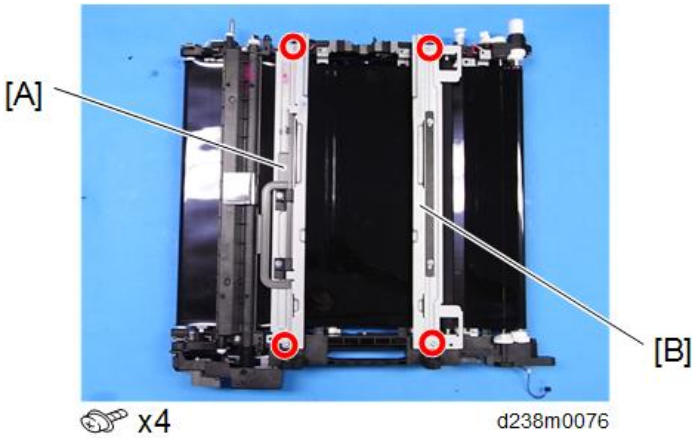
8. Attach the image transfer cleaning unit. (Image Transfer Cleaning Unit)

9. Rotate the image transfer belt about 10mm [A] in the reverse direction, then turn it forward one complete turn [B].



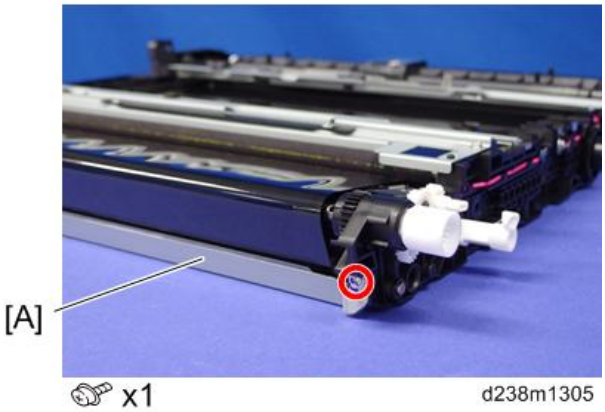
d1462175

10. Attach the brackets [A] [B]

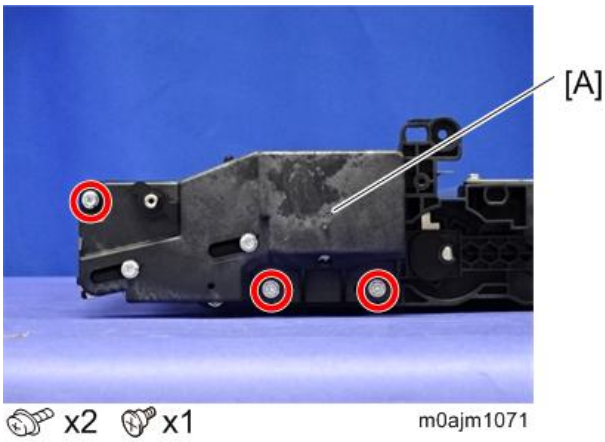


d238m0076

11. Attach the bracket [A]



12. Attach the image transfer lock unit [A].



13. Attach the image transfer top cover and image transfer front cover. (Image Transfer Front Cover, Image Transfer Top Cover)

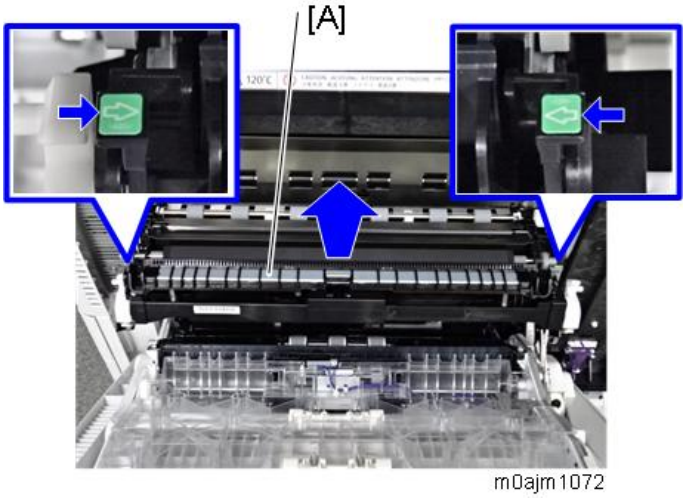
14. Install the image transfer belt unit on the machine. (Image Transfer Belt Unit)

What to do After Replacing the Image Transfer Belt

After replacing the image transfer belt, to prevent twisting of the belt, pass the belt round once in the direction of the arrow.

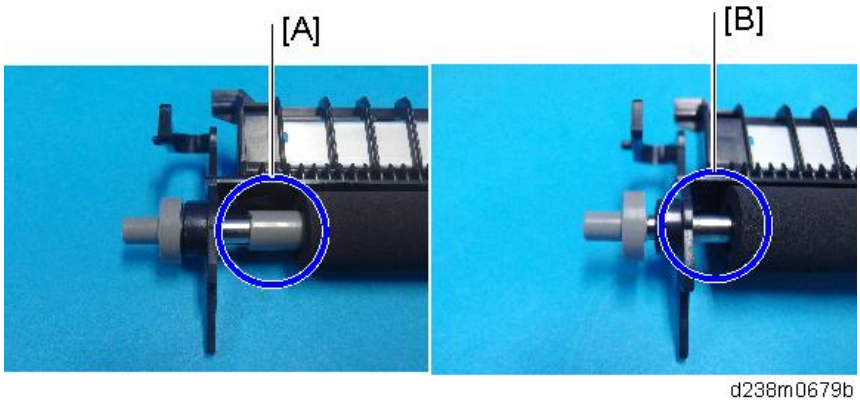
Paper Transfer Roller

1. Open the paper transfer unit. (Paper Transfer Roller Unit)
2. Remove the paper transfer roller [A].



When reinstalling the paper transfer roller

When reinstalling the paper transfer roller, do not install the wrong type of roller.



[A]: Standard roller

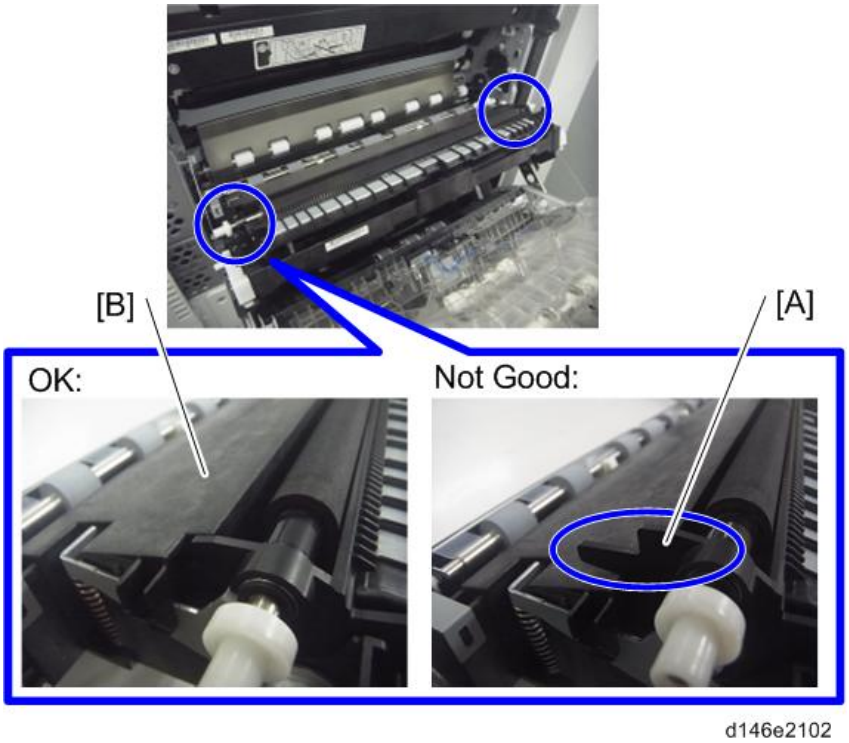
[B]: Imageable Area Extension Unit Type P11

When attaching the paper transfer roller, make sure that the roller is set in the correct position while referring to the three points described below.

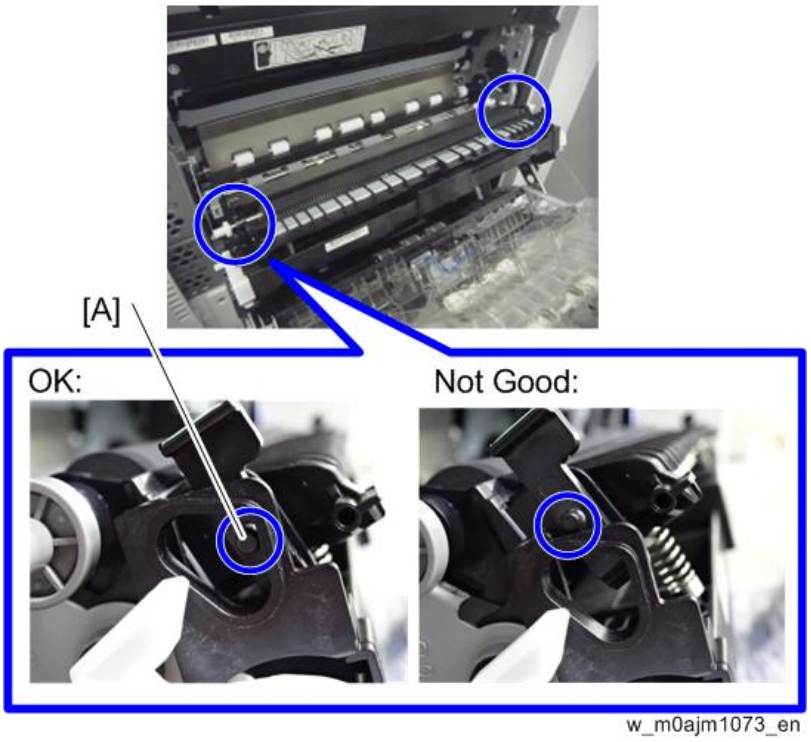
⚠CAUTION

- If the paper transfer roller is set incorrectly, the following problems may occur.
- Damage to the image transfer belt
- Roller detachment when opening and closing the paper transfer roller unit to remove a paper jam
- The paper transfer roller unit does not open

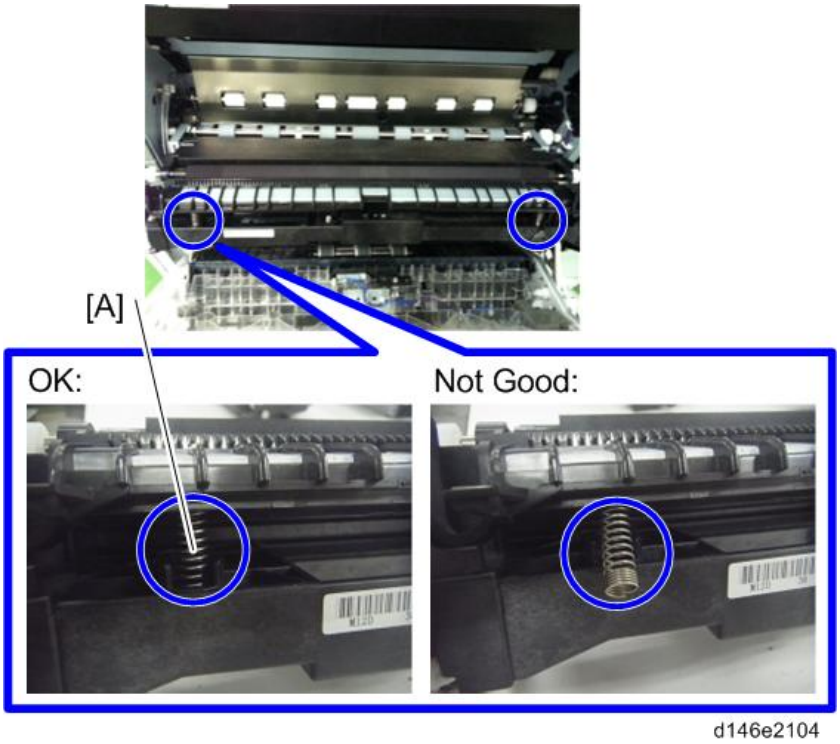
1. Check that the tab [A] on the roller holder is under the guide plate [B].



2. Check that the pin [A] on either end of the paper transfer roller is inserted correctly.



3. Check that the spring [A] at either end of the paper transfer roller unit is in the correct position at each end.



Paper Transfer Roller Unit

What to Do before Replacing the Paper Transfer Roller Unit

Before replacing the Image Paper Transfer Roller Unit, set SP3-701-109 to "1" and switch the power OFF. Then replace the Image Paper Transfer Roller Unit and switch the power ON.

SP3-701 (Manual New Unit Set)

This SP is the new unit detection flag.

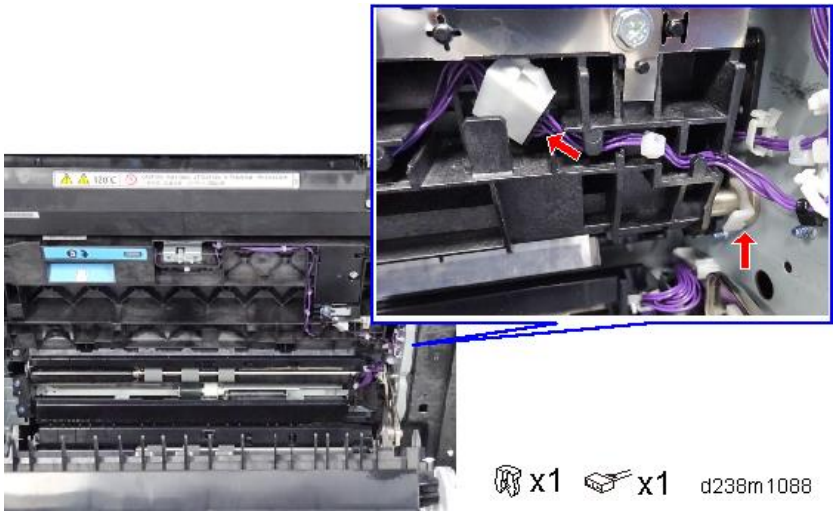
0: new unit detection flag OFF, 1: new unit detection flag ON

Item	SP
Paper Transfer Roller Unit	SP3-701-109

Replacement

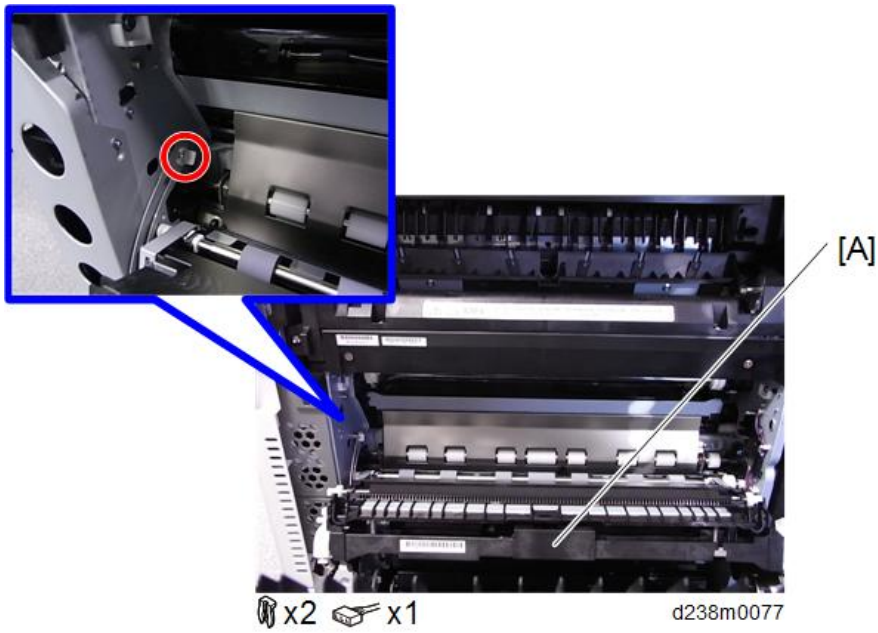
1. Open the right door. (Replacement)

2. Remove the right clip ring and connector on the rear side.



3. Open the paper transfer roller unit. (Paper Transfer Roller Unit)

4. Remove the left clip ring at the front side, and remove the paper transfer roller unit [A].

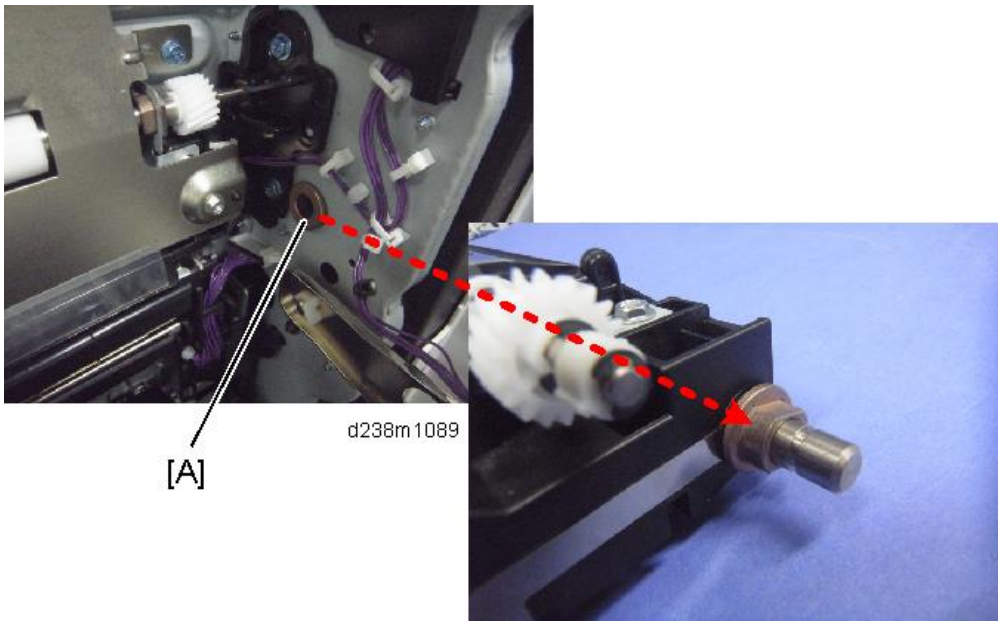


⚠CAUTION

- Note that the sizes of the clip ring differ on the left and right.

Note

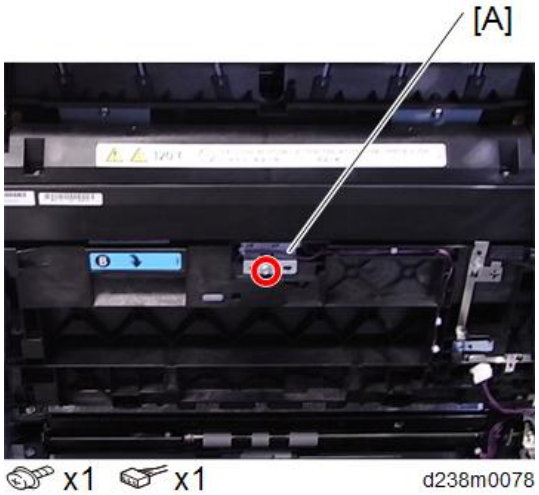
- When attaching a paper transfer roller unit, first attach the bushings [A] to the paper transfer roller unit.



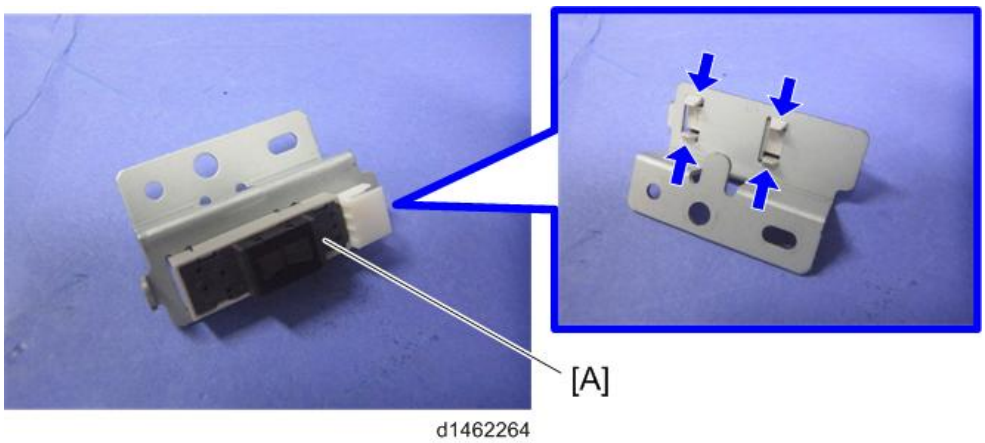
Fusing Entrance Sensor

1. Open the right door.

2. Remove the fusing entrance sensor unit [A].



3. Remove the fusing entrance sensor [A].



TM/ID Sensor

Before Replacing the TM/ID sensor

Each sensor assembly has a list of characteristic values attached to it. Before you replace the TM/ID sensor, you must do the following procedure, or process control/MUSIC will not be done correctly after power is switched on (it will use the values for the old sensor).

Note

- The characteristic values attached to the service part must be entered before replacement. It is recommended that in case Process control/MUSIC after replacement is not completed successfully, take a note of values of SP3-333, SP3-334 and SP3-335.

1. Note the characteristic values that are listed on the bar code label.

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Note

- TM/ID Sensor (front): F, TM/ID Sensor (center): C, TM/ID Sensor (rear): R, be careful.

2. Turn on the main power switch, and then go into the SP mode.

3. Input the characteristic values.

Input data for TM/ID Sensor: F into SP3-333. Input data for TM/ID sensor: C into SP3-334. Input data for TM/ID sensor: R into SP3-335.

SP No.	Classification 1	Classification 2	Value
3-333-001	ID.Sens TestVal:F	K2: Check	TM/ID sensor: F, value of [1]
3-333-002	ID.Sens TestVal:F	Diffuse Corr	TM/ID sensor: F, value of [2]
3-333-003	ID.Sens TestVal:F	Vct_reg Check:Slope	TM/ID sensor: F, value of [3]
3-333-004	ID.Sens TestVal:F	Vct_reg Check:Xint	TM/ID sensor: F, value of [4]
3-333-005	ID.Sens TestVal:F	Vct_dif Check:Slope	TM/ID sensor: F, value of [5]
3-333-006	ID.Sens TestVal:F	Vct_dif Check:Xint	TM/ID sensor: F, value of [6]
3-334-001	ID.Sens TestVal:C	K2: Check	TM/ID sensor: C, value of [1]
3-334-002	ID.Sens TestVal:C	Diffuse Corr	TM/ID sensor: C, value of [2]
3-334-003	ID.Sens TestVal:C	Vct_reg Check:Slope	TM/ID sensor: C, value of [3]
3-334-004	ID.Sens TestVal:C	Vct_reg Check:Xint	TM/ID sensor: C, value of [4]
3-334-005	ID.Sens TestVal:C	Vct_dif Check:Slope	TM/ID sensor: C, value of [5]
3-334-006	ID.Sens TestVal:C	Vct_dif Check:Xint	TM/ID sensor: C, value of [6]
3-335-001	ID.Sens TestVal:R	K2: Check	TM/ID sensor: R, value of [1]
3-335-002	ID.Sens TestVal:R	Diffuse Corr	TM/ID sensor: R, value of [2]

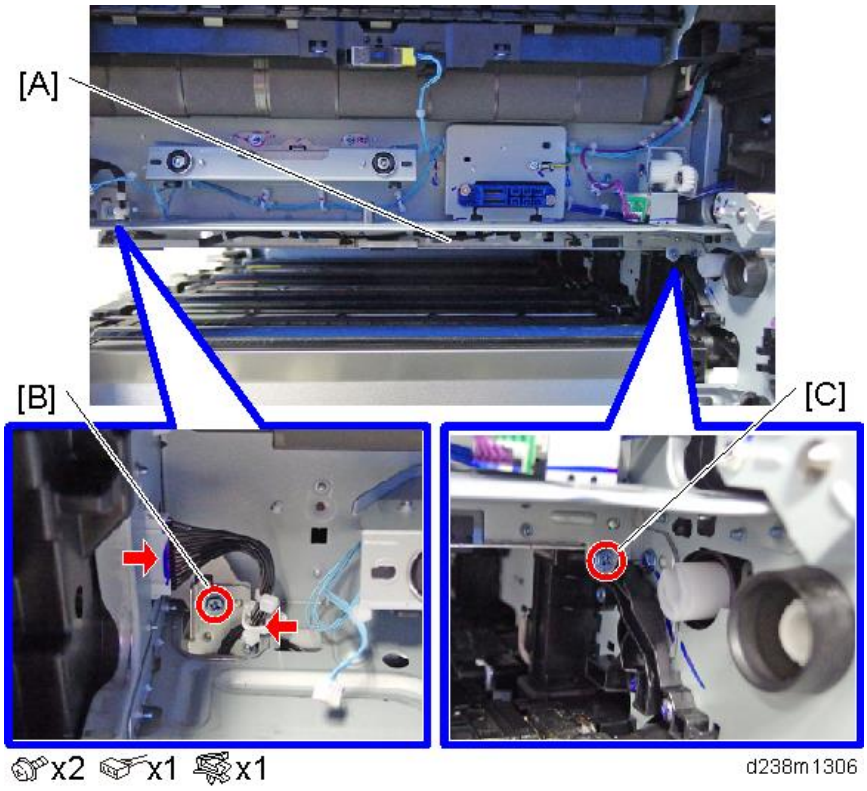
SP No.	Classification 1	Classification 2	Value
3-335-003	ID.Sens TestVal:R	Vct_reg Check:Slope	TM/ID sensor: R, value of [3]
3-335-004	ID.Sens TestVal:R	Vct_reg Check:Xint	TM/ID sensor: R, value of [4]
3-335-005	ID.Sens TestVal:R	Vct_dif Check:Slope	TM/ID sensor: R, value of [5]
3-335-006	ID.Sens TestVal:R	Vct_dif Check:Xint	TM/ID sensor: R, value of [6]

Replacement procedure

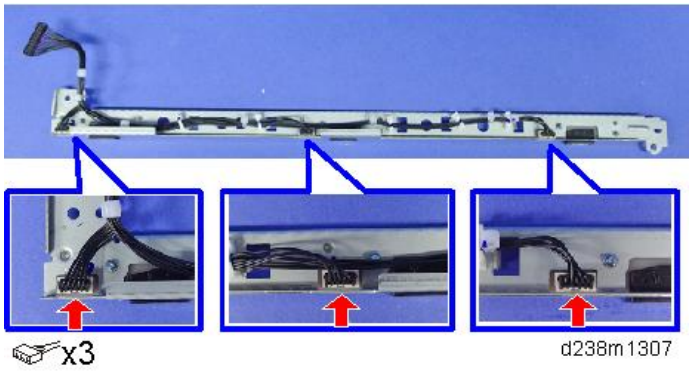
1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
2. Remove the paper transfer roller unit. (Paper Transfer Roller Unit)
3. Remove the fusing unit. (Fusing Unit)
4. Remove the fusing shield position sensor unit. (Fusing Shield Position Sensor)
5. Remove the TM/ID sensor unit [A].

⚠CAUTION

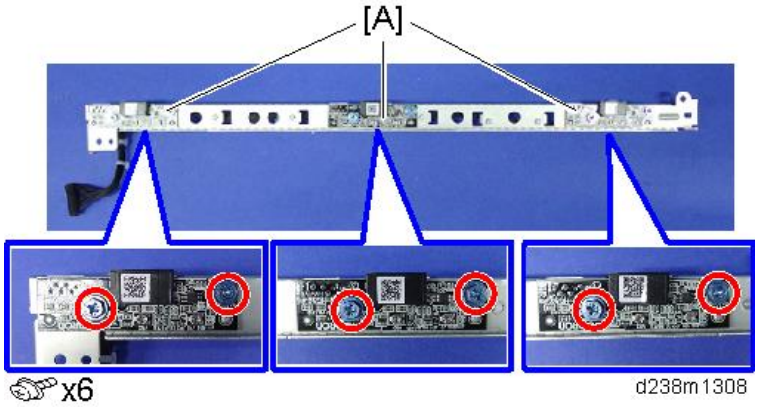
- When installing the TM/ID sensor unit.
- 1. Attach the screw at the front side [B].
- 2. Attach the screw at the back side [C].
- When installed in reverse order, an SC may occur because the sensor position has shifted.



6. Disconnect the connectors.



7. Remove the TM/ID sensors [A].



Adjustment after replacing the TM/ID sensor

1. Turn on the main power switch, and then go into the SP mode.

2. Run SP3-011-004 (Manual Procon: Exe Full MUSIC).

Note

- If the SP3-011-004 can't finish successfully, make sure that you entered the correct value into the SPs.

Related SPs

- SP3-011-004 (Manual ProCon :Exe: Full MUSIC)
  Executes Process Control and full MUSIC.
- SP3-012-001 to 010 (ProCon OK?: Front)
  Displays the past 10 Process Control result codes detected by the front TM/ID sensor. The code is 2 digits per color from the left, in the order of YMCK.
- SP3-012-011 to 020 (ProCon OK?: Center)
  Displays the past 10 Process Control result codes detected by the center TM/ID sensor. The code is 2 digits per color from the left, in the order of YMCK.
- SP3-012-021 to 030 (ProCon OK?: Rear)
  Displays the past 10 Process Control result codes detected by the rear TM/ID sensor. The code is 2 digits per color from left, in the order of YMCK.

Process Control Result Codes

Category	Code	Result name	Description
00 and larger	00	Not executed	Factory default setting (SP default)
10 and larger Result (Normal)	11	Succeeded	-
40 and larger ID Sensor	41	ID Sensor Output error (Max)	Vt>Max
	42	ID Sensor Output error (Min)	Vt<Min
	43	ID Sensor error (Max)	Development gamma is in target, but Vt value is less than upper limit.
	44	ID Sensor error (Min)	Development gamma is in target, but Vt value is less than lower limit.
45 and larger ID Pattern detection	45	ID Pattern extract error	Cannot detect ID Pattern
	50	Vmin_Bk/K2 error(Max)	K:Vmin_Bk / CMY:K2>Max
	51	Vmin_Bk/K2 error(Min)	K:Vmin_Bk / CMY:K2<Min
	52	K5 error (Max)	K5>Max
	53	K5 error (Min)	K5<Min
	54	K5 calculated approximate point error	K5 calculated approximate point <Min
	55	Development gamma error (Max)	Development gamma >Max
	56	Development gamma error (Min)	Development gamma <Min
	57	Start developing voltage: Vk error(Max)	Start developing voltage: Vk>Max
	58	Start developing voltage: Vk error(Min)	Start developing voltage: Vk<Min
	59	Not enough valid data	Adhesion amount data for development gamma calculation point is under 2
90 and larger Result(End)	90	Potential not adjusted	Potential control method is set as [0:FIX]
	99	Stopped	Stopped by door open, power off, error. (Set when execute.)

Note

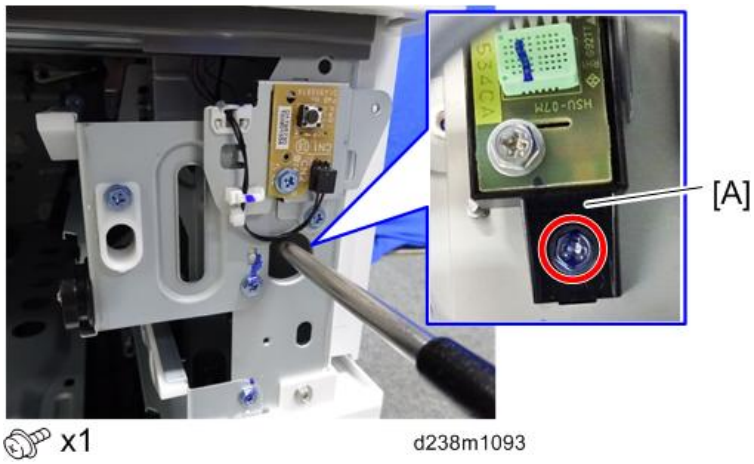
Execution result examples (In order of YMCK from left)

- Factory default (SP default): [00,00,00,00]
- Starting adjust: [99,99,99,99]
- Fail Vsg adjust(Y): [21,99,99,99]
- Error of development gamma Max(C): [99,99,55,99]
- Succeeded: [11,11,11,11]

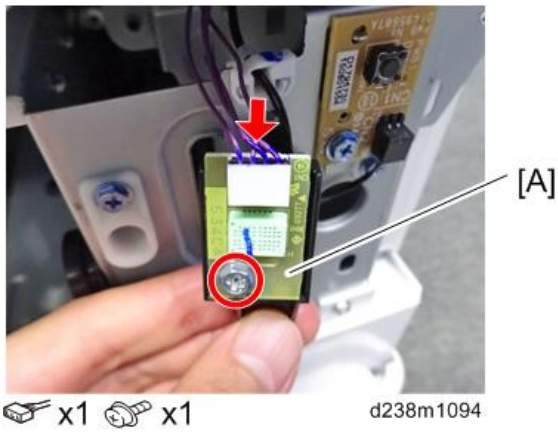
Temperature and Humidity Sensor

1. Remove the 1st and 2nd paper tray. (Paper Feed Sensor)
2. Remove the main power switch cover [A].

3. Insert a screwdriver through the hole in the frame, and detach the temperature and humidity sensor together with its bracket [A].



4. Remove the temperature and humidity sensor [A].

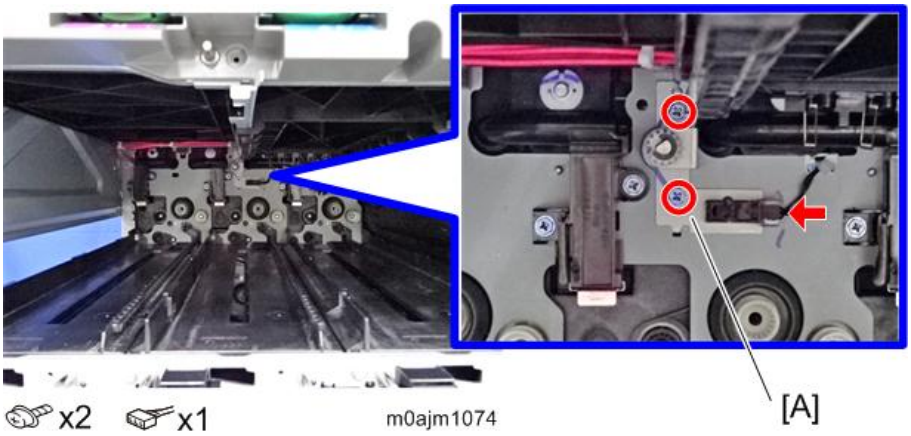


ITB Contact and Release Sensor

1. Remove the image transfer belt unit. (Image Transfer Belt Unit)

2. Remove the PCDUs (Y, M, C, K). (PCDU)

3. Remove the ITB contact and release sensor bracket [A].



4. Remove the ITB contact and release sensor [A].

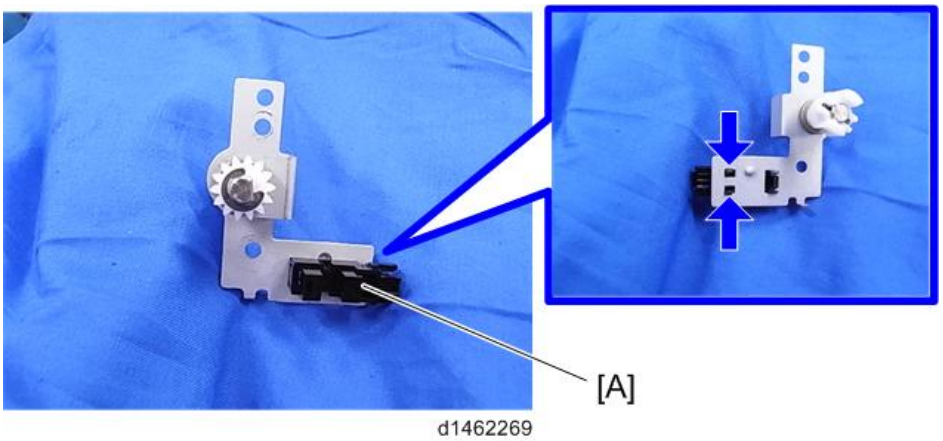
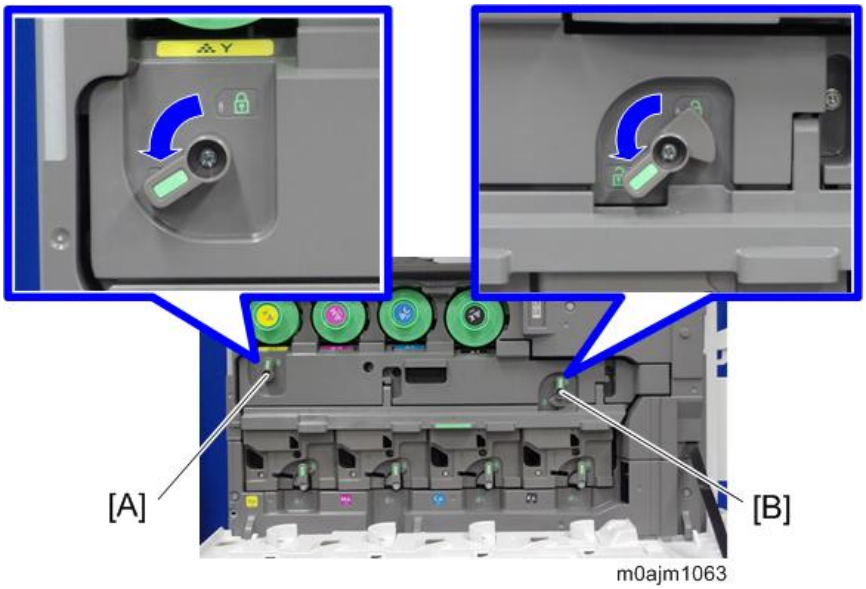


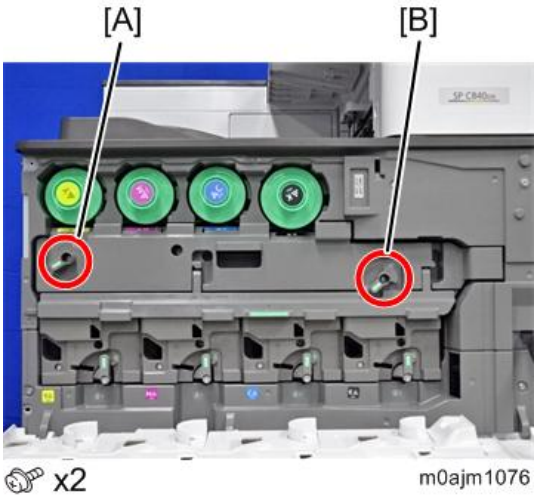
Image Transfer Lock Unit

1. Open the front cover. (Front Cover)

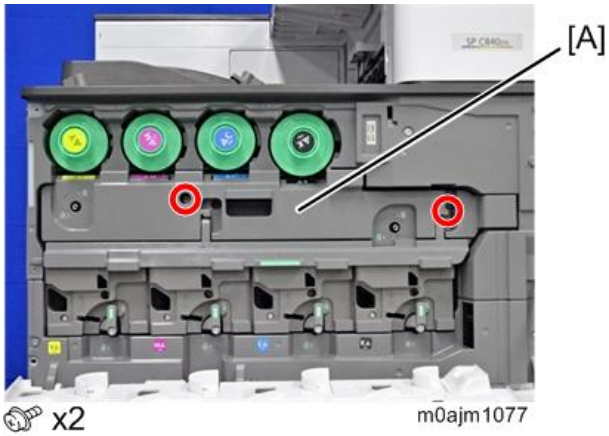
2. Release the ITB lock lever [A] and ITB contact lever [B].



3. Remove the ITB lock lever [A] and ITB contact lever [B].



4. Remove the image transfer front cover [A].

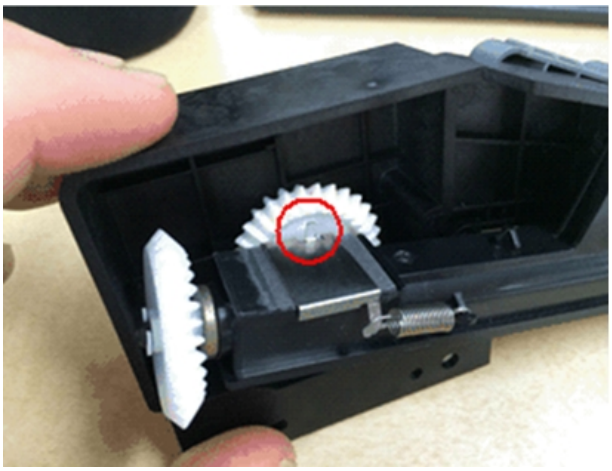


5. Remove the image transfer lock unit [A].

Installing the Image Transfer Lock Unit

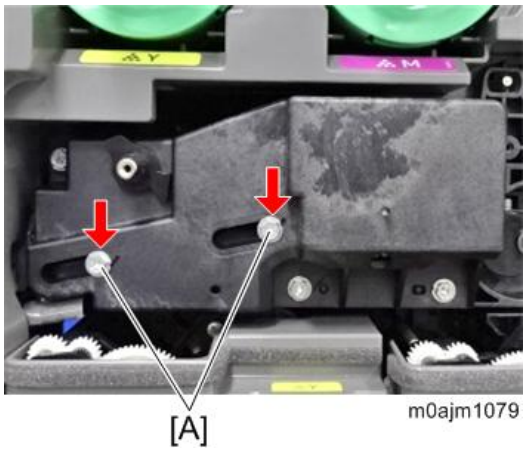
⚠CAUTION

- When installing the image transfer lock unit, release the ITB lock lever and follow the steps below, taking care to avoid deformation of the pin inside the unit (circled in red below).
  If the pin is deformed, the shutter on the waste toner recovery path may not open and waste toner may clog the cleaning unit.

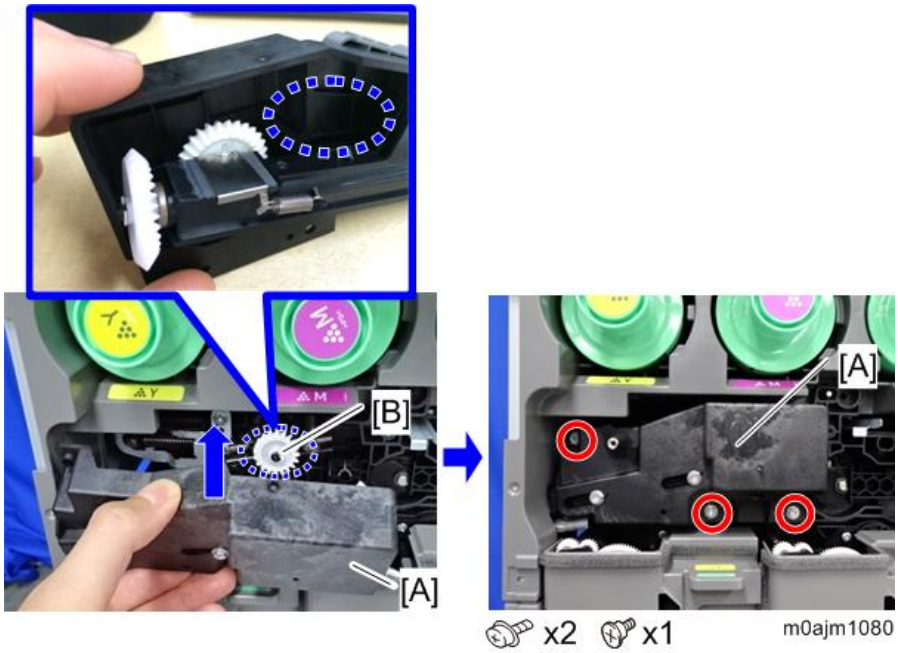


1. Before installing, check that the lever on the image transfer lock unit is in the unlocked position.

Unlocked position: The screws [A] are at the positions indicated by the red arrows.

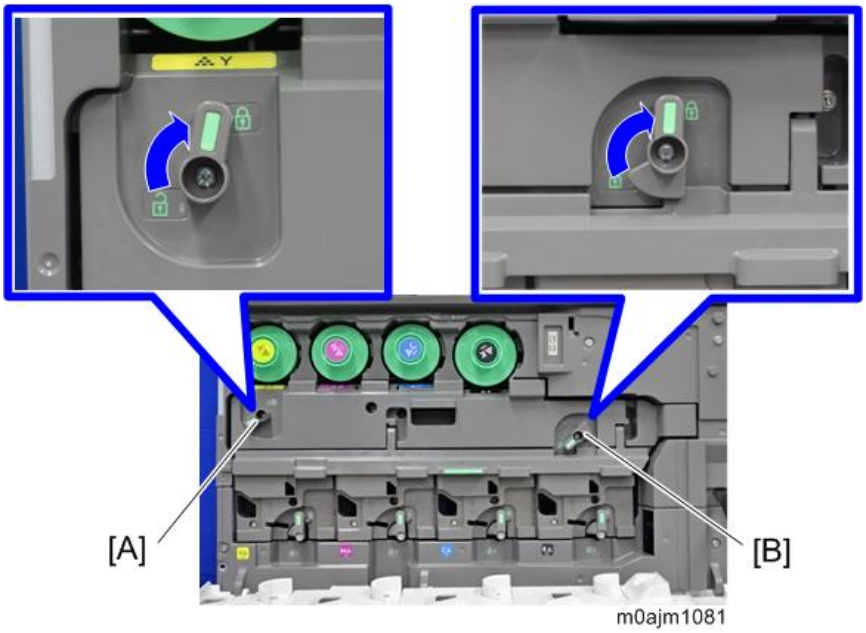


2. Install the image transfer lock unit [A] so that the gear [B] on the image transfer unit side fits into the space in the image transfer lock unit circled in blue below.



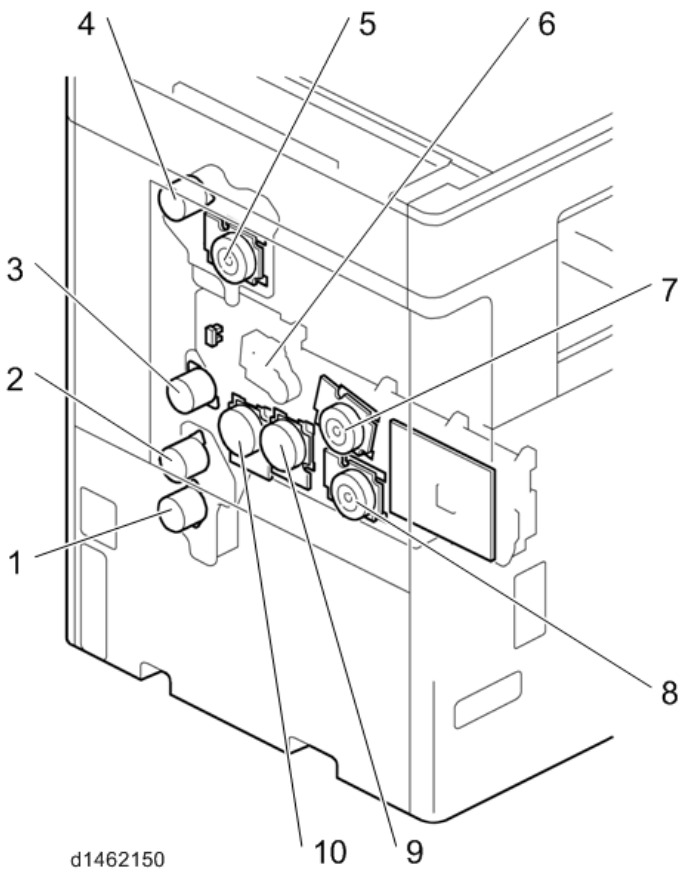
3. Attach the image transfer front cover. (Image Transfer Front Cover, Image Transfer Top Cover)

4. Return the ITB lock lever [A] and ITB contact lever [B] to the locked position.



Drive Unit

Overview

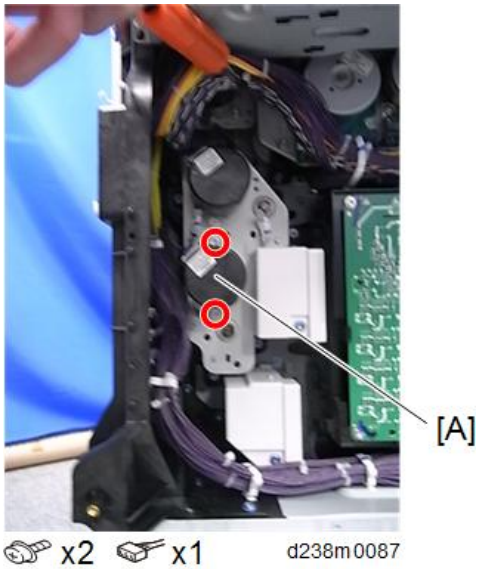


No.	Description	No.	Description
1	Paper Feed Motor	6	Paper Transfer Contact and Release Motor
2	Transport Motor	7	PCU Motor: CMY
3	Registration Motor	8	Development Motor: CMY
4	Paper Exit / Pressure Release Motor	9	Development Motor: Black
5	Fusing Motor	10	PCU: Black / ITB Drive Motor

Paper Feed Motor

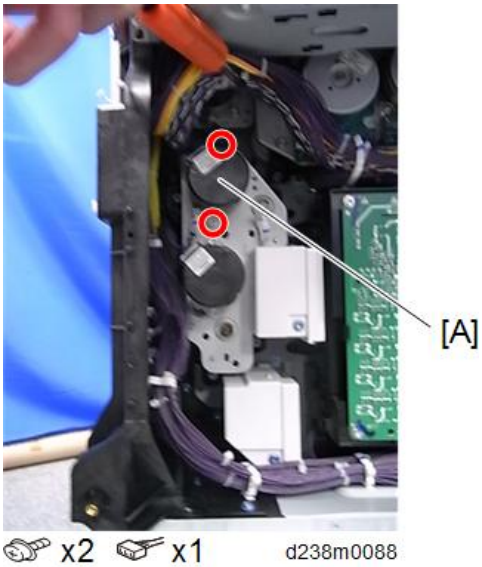
1. Remove the power supply box. (Paper Transport IOB)

2. Remove the paper feed motor [A].



Transport Motor

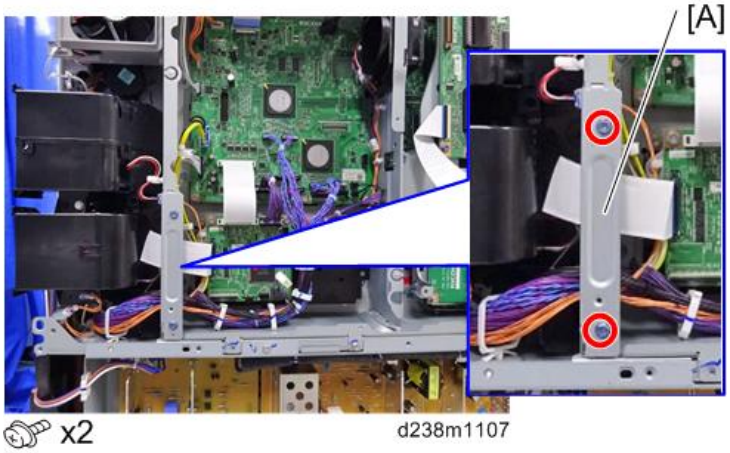
1. Remove the power supply box. (Paper Transport IOB)
2. Remove the transport motor [A].



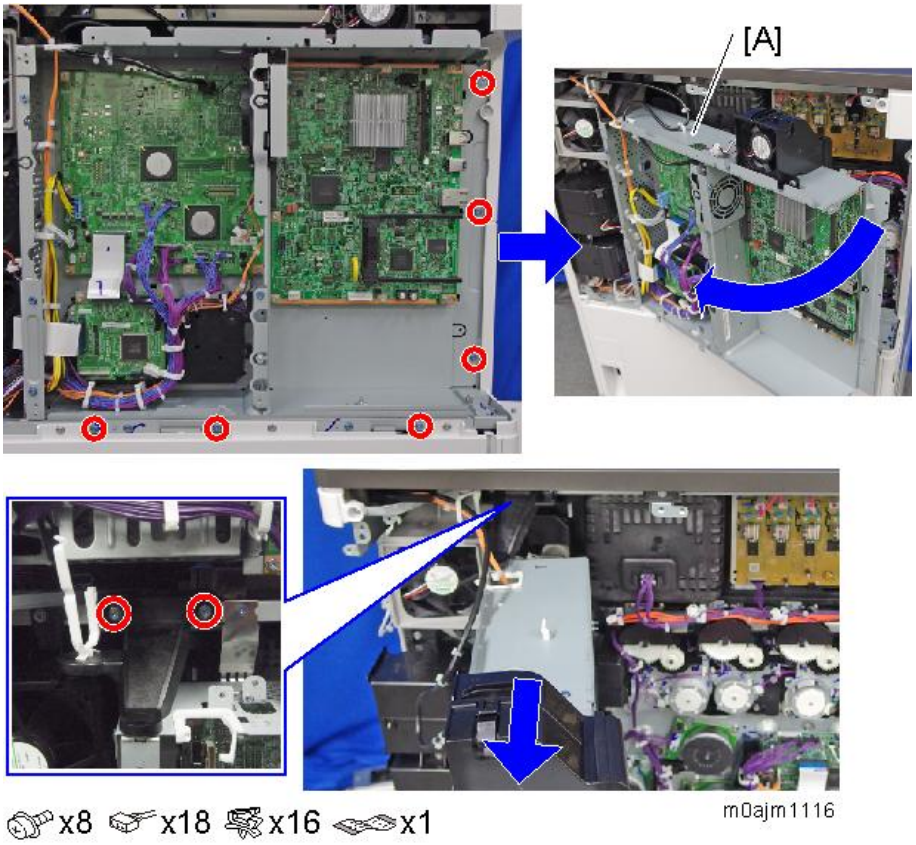
Paper Transfer Contact and Release Motor Unit

1. Remove the right rear cover. (Right Rear Cover)
2. Remove the controller cover. (Controller Cover)
3. Remove the rear cover. (Rear Cover)
4. Remove the controller box cover. (Controller Box Cover)

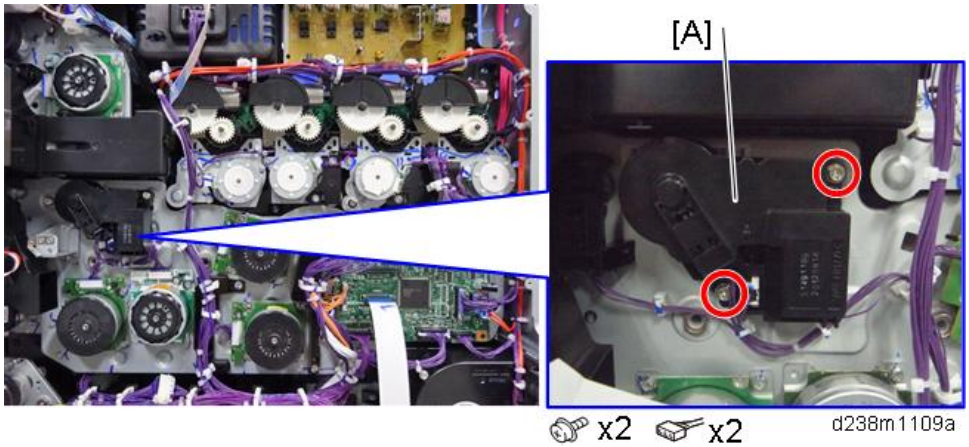
5. Remove the bracket [A].



6. Remove the controller box [A].

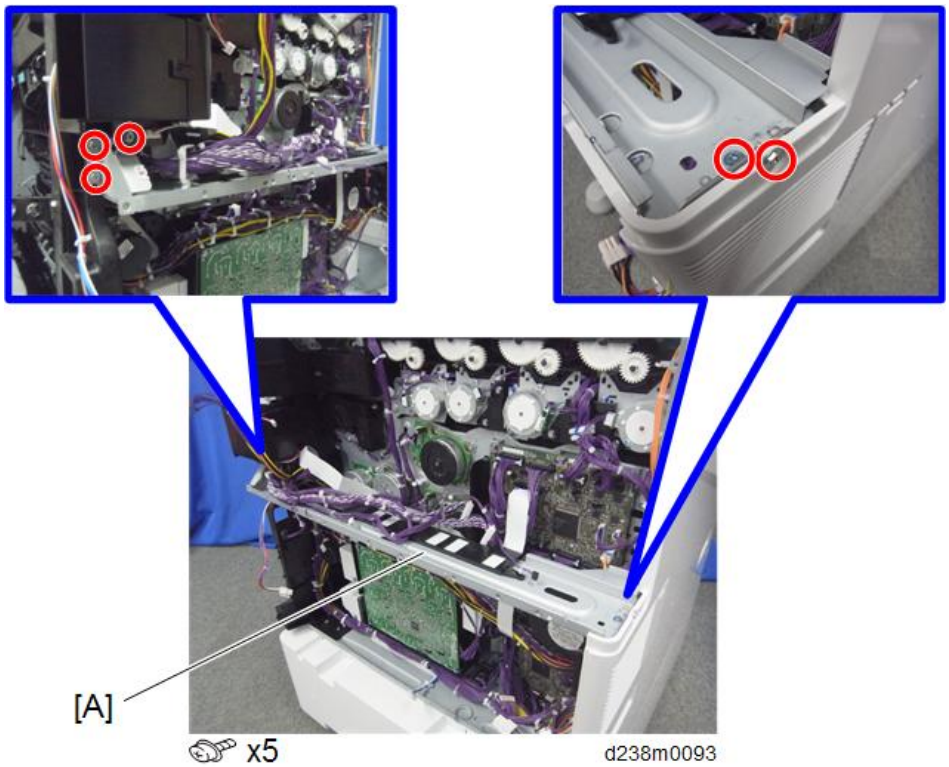


7. Remove the paper transfer contact and release motor unit [A].



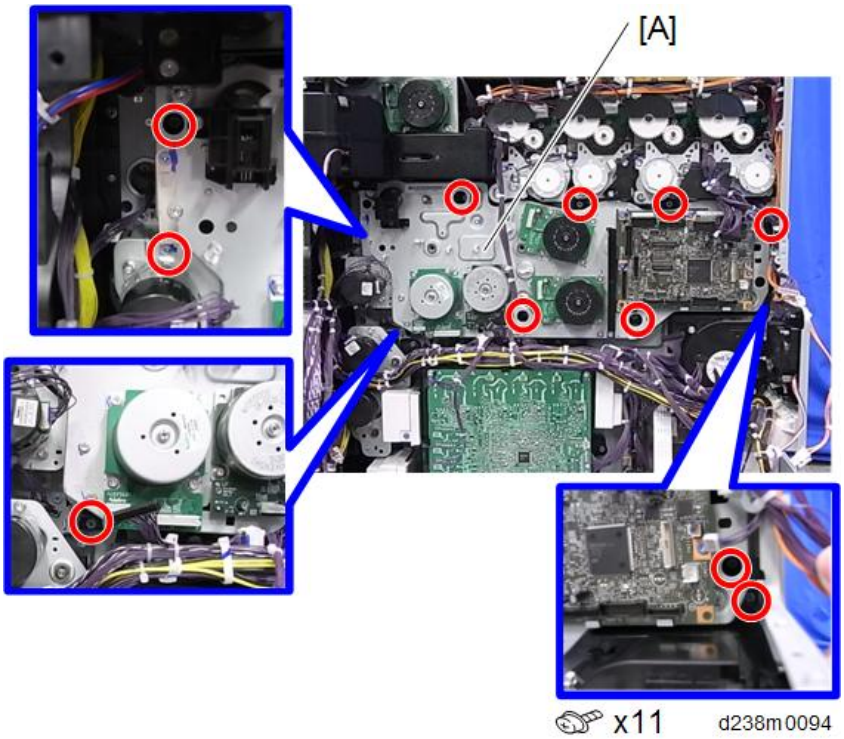
Imaging Drive Unit

1. Remove the paper transfer contact and release motor unit. (Paper Transfer Contact and Release Motor Unit)
2. Remove the power supply box. (Paper Transport IOB)
3. Remove the bracket [A].



4. Remove the drive cooling fan. (Drive Cooling Fan)

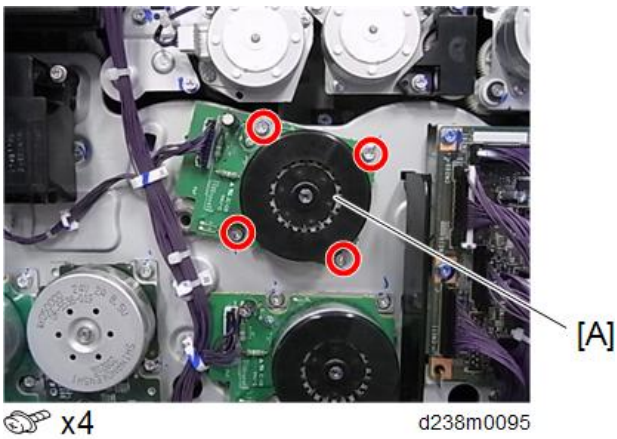
5. Remove the imaging drive unit [A].



PCU Motor: CMY

1. Open the controller box. (Opening the Controller Box)

2. Remove the PCU motor: CMY [A].



Development Motor: CMY

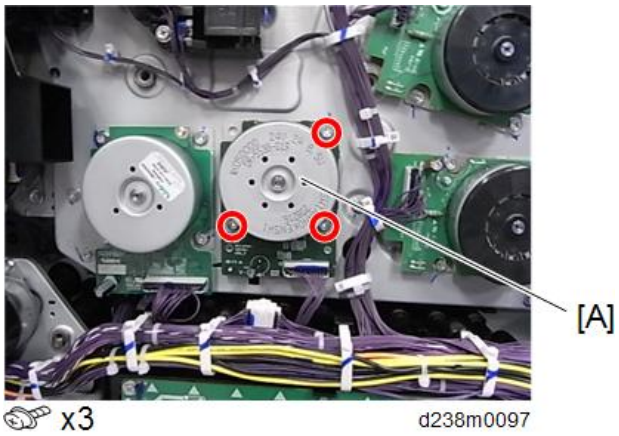
1. Remove the bracket. (Imaging Drive Unit)

2. Remove the development motor: CMY [A].

Development Motor: Black

1. Remove the bracket. (Imaging Drive Unit)

2. Remove the development motor: black [A].



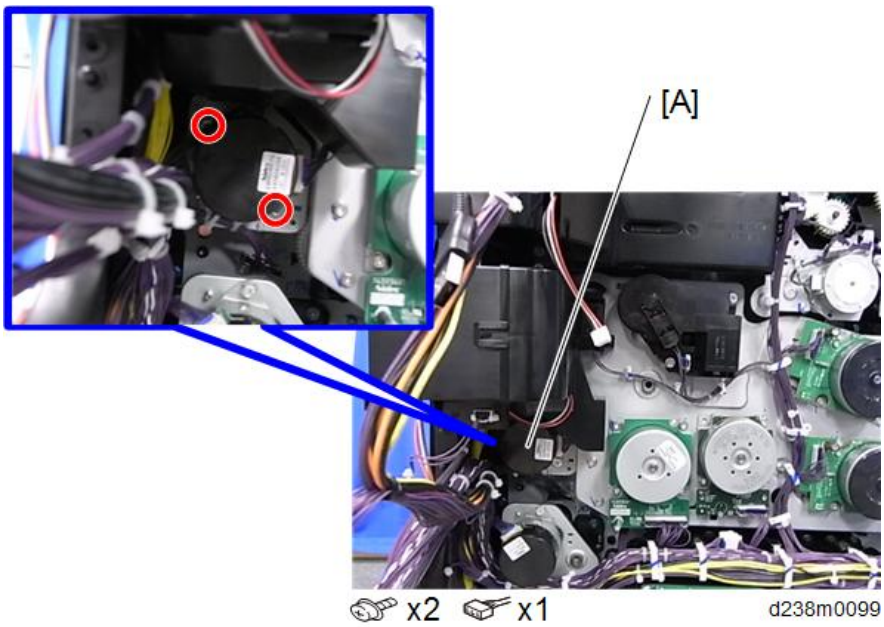
PCU: Black / ITB Drive Motor

1. Remove the bracket. (Imaging Drive Unit)

2. Remove the PCU: black / ITB drive motor [A].

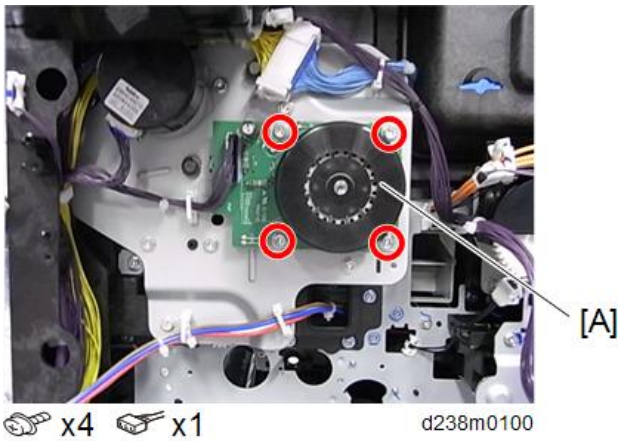
Registration Motor

1. Remove the power supply box. (Paper Transport IOB)
2. Remove the drive cooling fan. (Drive Cooling Fan)
3. Remove the registration motor [A].



Fusing Motor

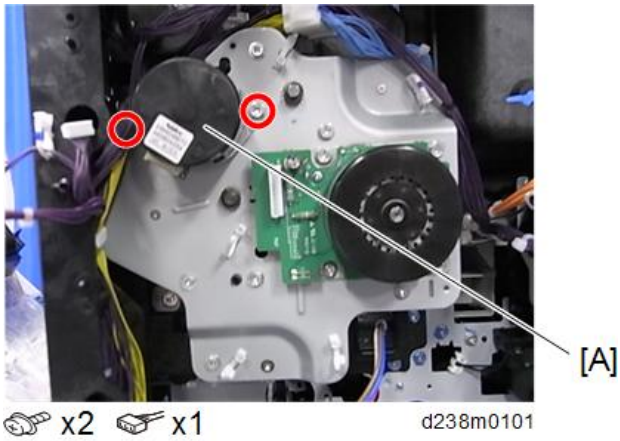
1. Open the controller box. (Opening the Controller Box)
2. Remove the fusing motor [A].



Paper Exit / Pressure Release Motor

1. Remove the fusing exhaust fan. (Fusing Exhaust Fan)

2. Remove the paper exit / pressure release motor [A].

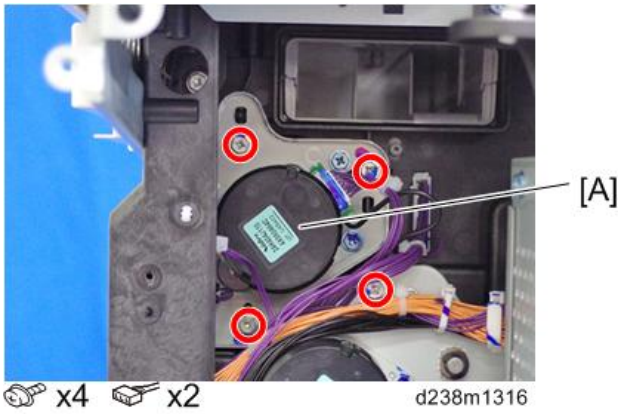


Duplex Entrance Motor

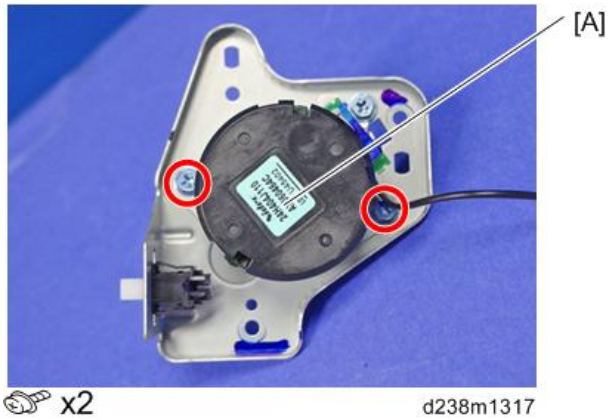
1. Remove the paper exit unit. (Paper Exit Unit)

2. Remove the fusing exhaust fan. (Fusing Exhaust Fan)

3. Remove the duplex entrance motor unit [A].



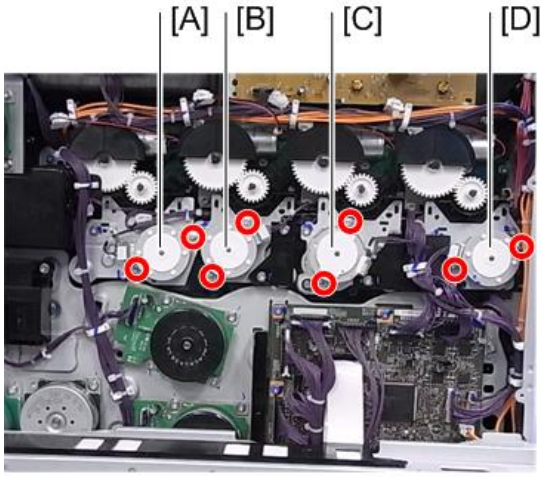
4. Remove the duplex entrance motor [A].



Toner Supply Motor

1. Remove the controller box. (Paper Transfer Contact and Release Motor Unit)

2. Remove the toner supply motor.



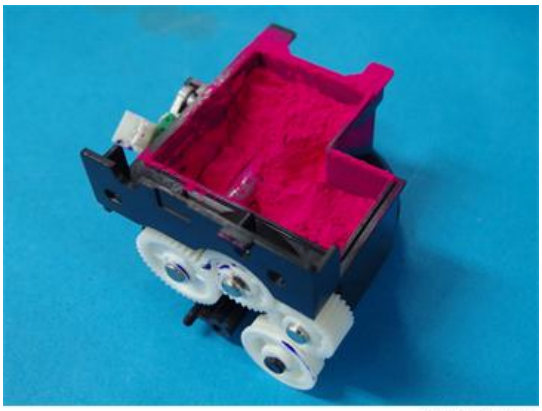
d1462123

[A]	K	×2, ×1
[B]	C	×2, ×1
[C]	M	×2, ×1
[D]	Y	×2, ×1

Sub Hopper

Important

- When removing the sub hopper, be careful not to tilt it to avoid spilling the toner inside the hopper.



m0ajm1258

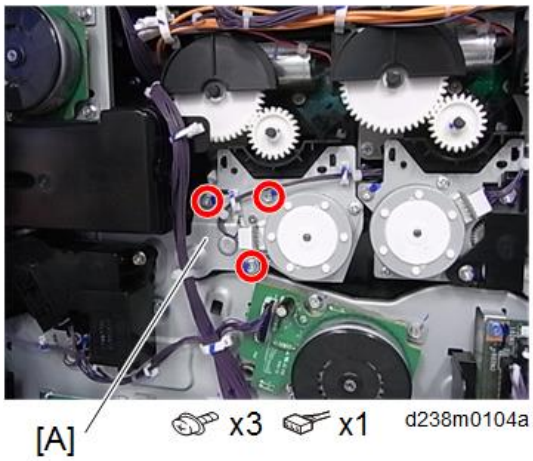
- When replacing the sub hopper because of clogged toner, replace the toner duct, too. (Toner Duct)

K

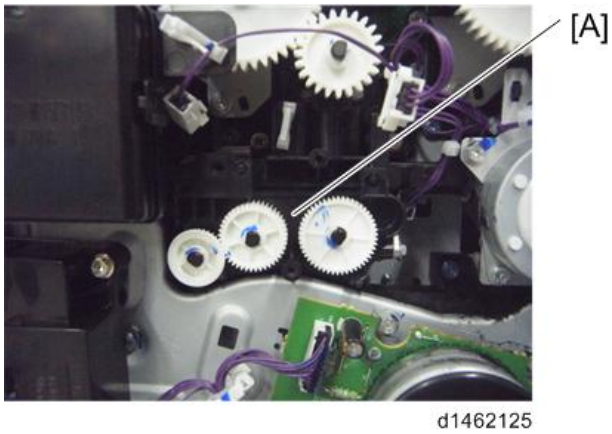
1. Pull out the image transfer unit about 5cm.

2. Remove the controller box. (Paper Transfer Contact and Release Motor Unit)

3. Remove the toner supply motor unit (K) [A].



4. Remove the sub hopper (K) [A].

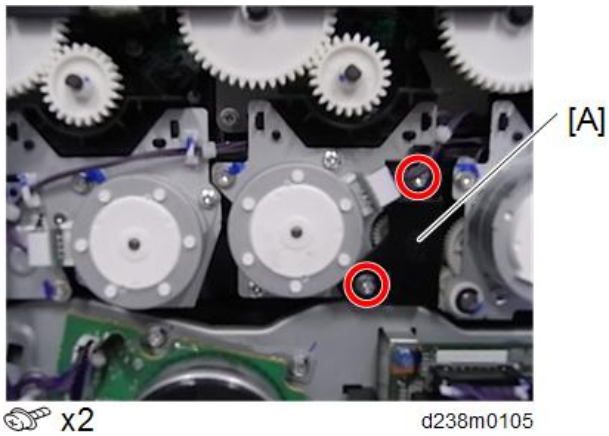


C

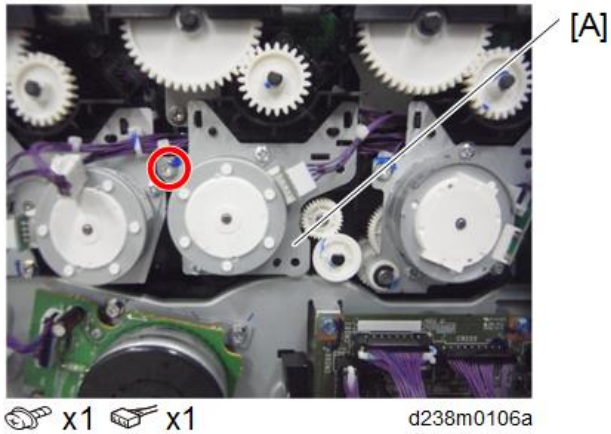
1. Pull out the image transfer unit about 5cm.

2. Remove the controller box. (Paper Transfer Contact and Release Motor Unit)

3. Remove the harness guide [A].



4. Remove the toner supply motor unit (C) [A].

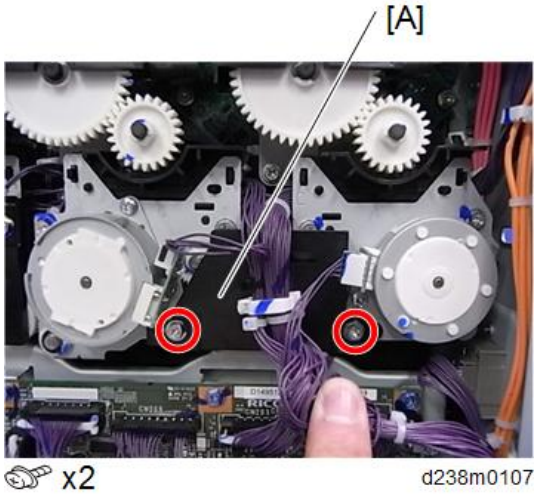


5. Remove the sub hopper (C) [A].

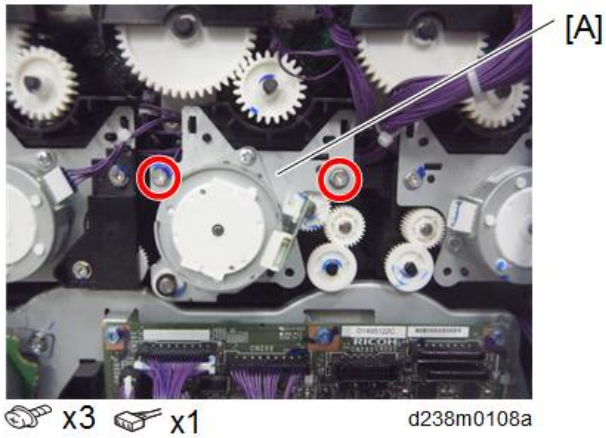
M

1. Remove the controller box. (Paper Transfer Contact and Release Motor Unit)

2. Remove the harness guide [A].



3. Remove the toner supply motor unit (M) [A].

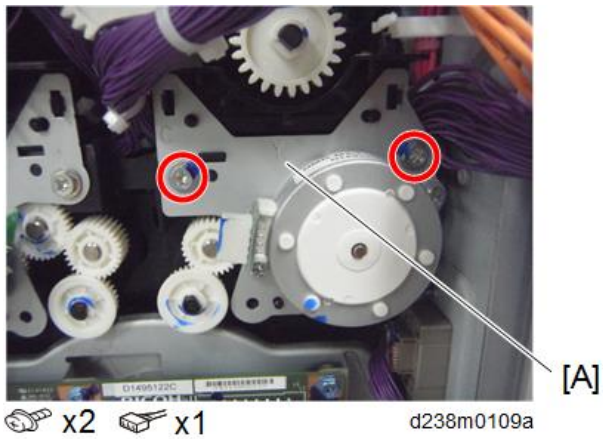


4. Remove the sub hopper (M) [A].

Y

1. Remove the harness guide (M)

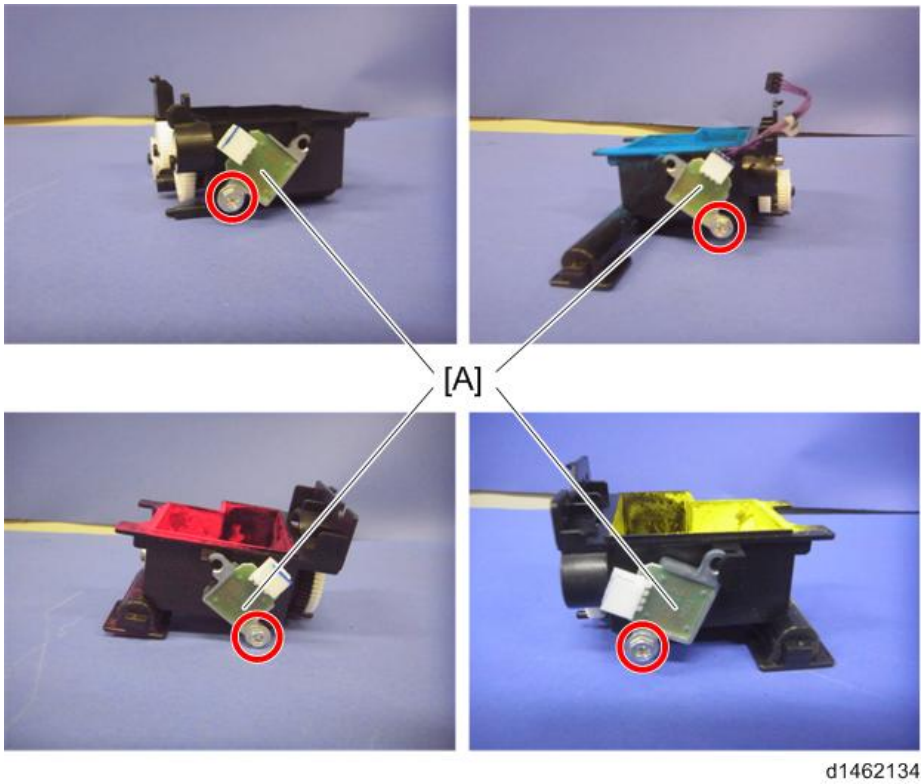
2. Remove the toner supply motor unit (Y) [A].



3. Remove the sub hopper (Y) [A].

Toner End Sensor

1. Remove the sub hopper. (Sub Hopper)
2. Remove the toner end sensor [A].



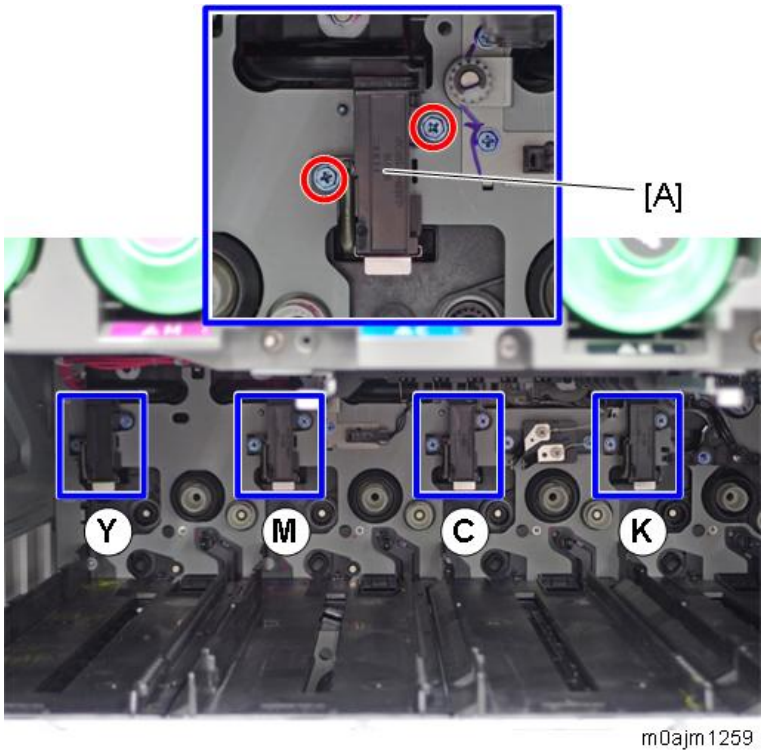
Note

- The toner end sensors are the same for each color.

Toner Duct

1. Remove the image transfer belt unit. (Replacement)
2. Remove the PCDU (Y, M, C, K). (Replacement)

3. Remove the toner duct [A] (x 2 each).

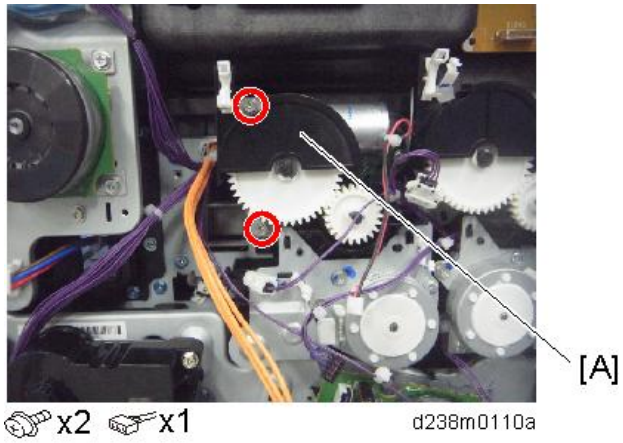


Toner Bottle Drive Motor

K

1. Remove the toner supply motor/K. (Toner Supply Motor)

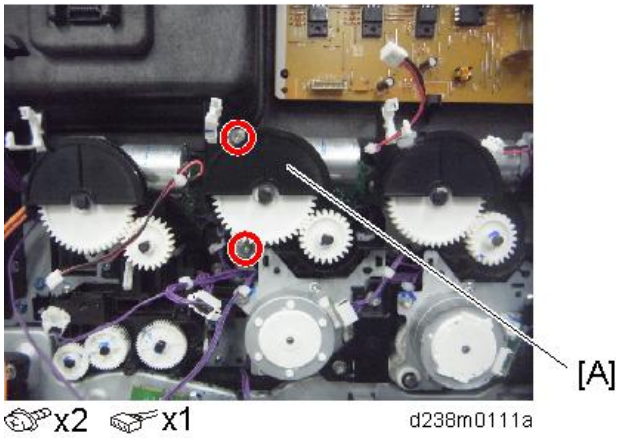
2. Remove the toner bottle drive motor/K [A].



C

1. Remove the toner supply motor/C. (Toner Supply Motor)

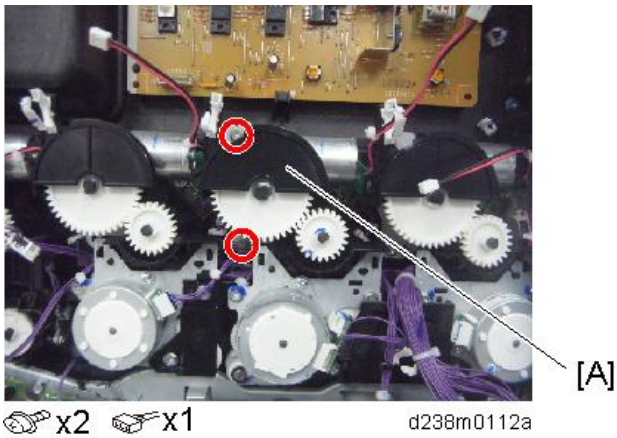
2. Remove the toner bottle drive motor/C [A].



M

1. Remove the toner supply motor/M. (Toner Supply Motor)

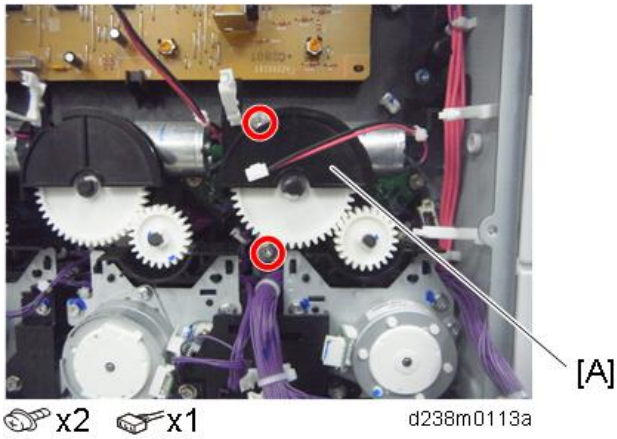
2. Remove the toner bottle drive motor/M [A].



Y

1. Remove the toner supply motor/Y. (Toner Supply Motor)

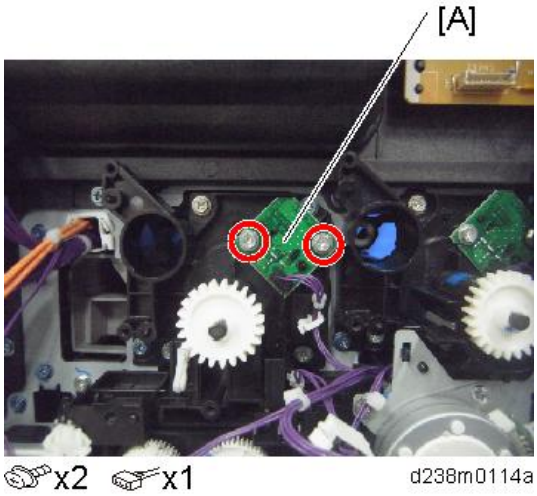
2. Remove the toner bottle drive motor/Y [A].



ID Chip Contact Board

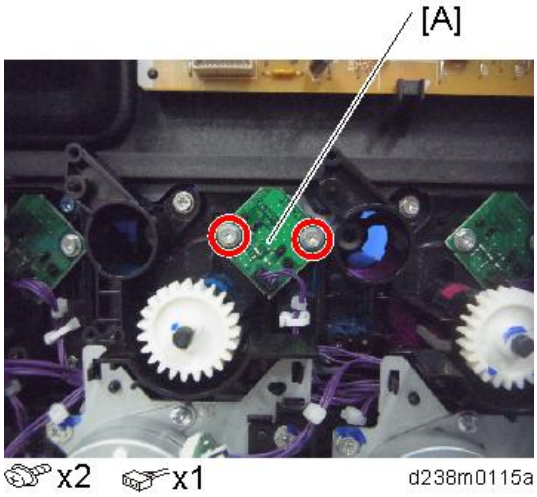
K

1. Remove the toner bottle drive motor/K (K).
2. Remove the toner bottle drive motor/C (C).
3. Remove the ID chip contact board (K) [A].



C

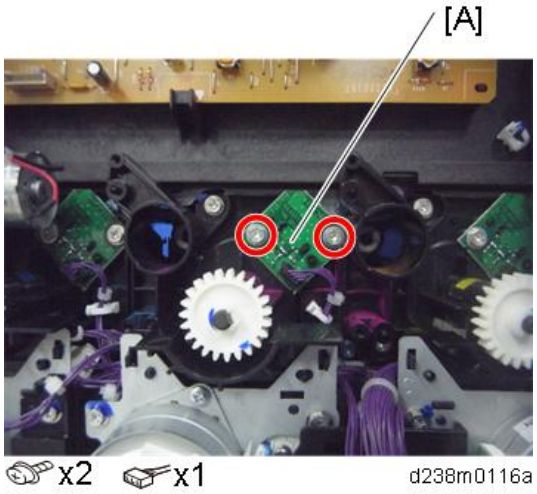
1. Remove the toner bottle drive motor/C. (C)
2. Remove the toner bottle drive motor/M. (M)
3. Remove the ID chip contact board (C) [A].



M

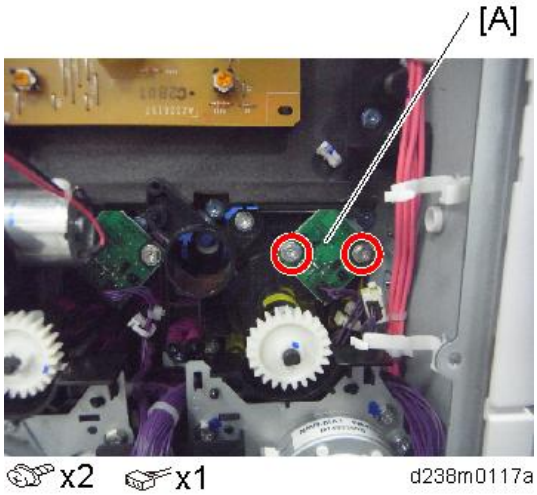
1. Remove the toner bottle drive motor/M. (M)
2. Remove the toner bottle drive motor/Y. (Y)

3. Remove the ID chip contact board (M) [A].



Y

1. Remove the toner bottle drive motor/Y. (Y)
2. Remove the ID chip contact board (Y) [A].

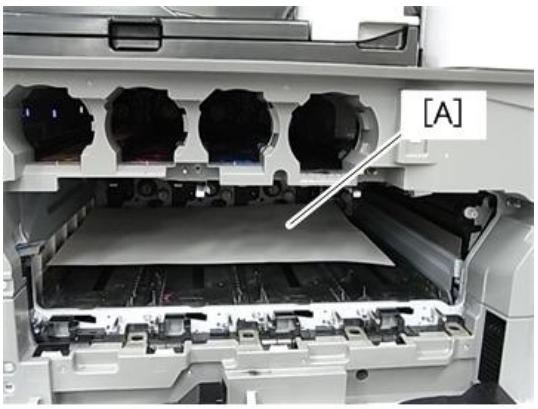


Transport Coil

Y

1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
2. Remove the PCDUs (Y, M, C, K). (Replacement)
3. Remove the toner bottle drive motors. (Toner Bottle Drive Motor)
4. Remove the sub hoppers. (Sub Hopper)
5. Remove the ID chips. (ID Chip Contact Board)

6. Put a piece of disposable paper [A] on the inside of the machine to avoid damage due to toner spillage.



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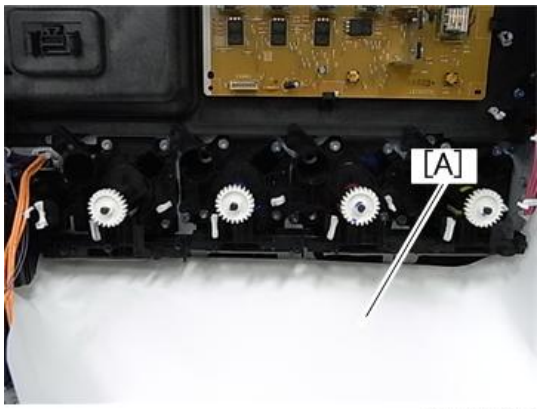
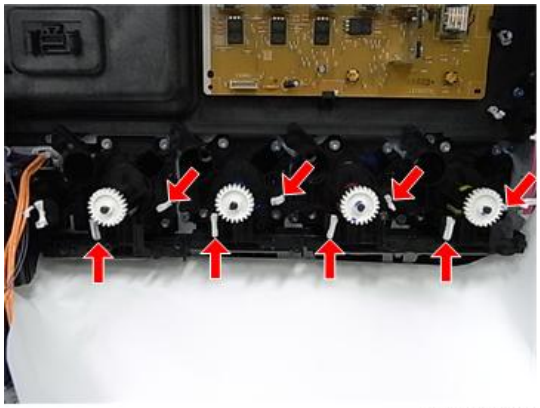
7. Put a piece of disposable paper [A] under the transport coil to avoid damage due to toner spillage.



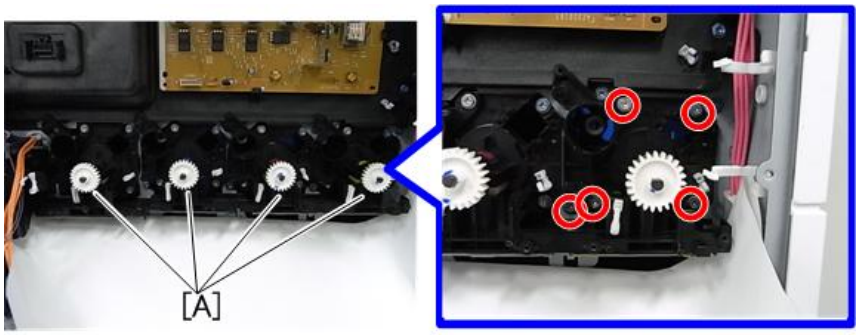
d177z4563

8. Remove all the harnesses connecting to the transport coil unit (×8).



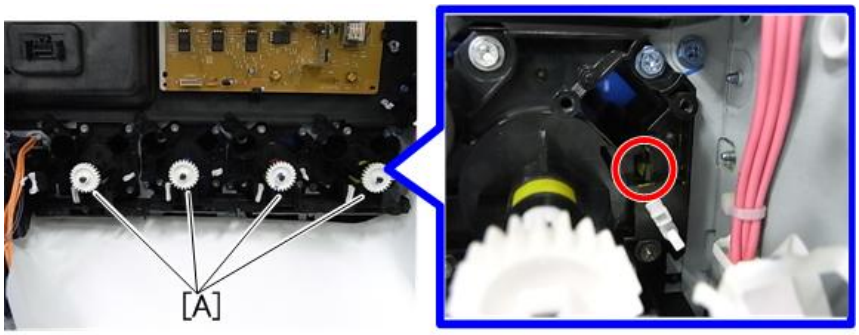
d177z4561

9. Remove the screws fixing the transport coil units [A] (×5, each color).



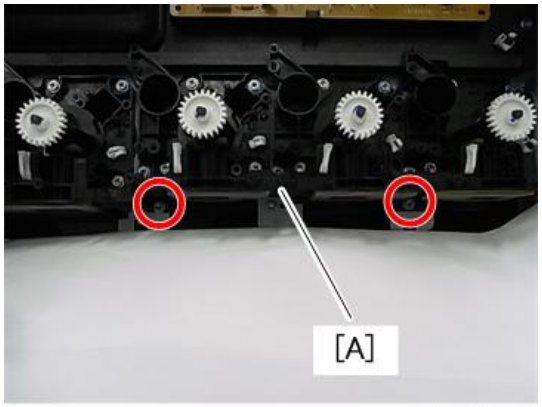
d177z4552

10. Release the claws for the transport coil units [A] (claw ×1, each color).



d177z4553

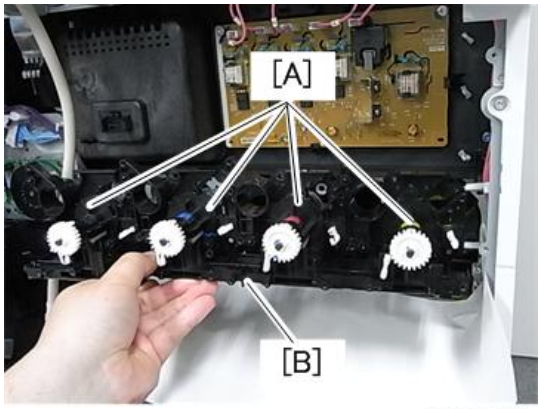
11. Remove the screws securing the bracket [A] (×2).



d177z4554

12. Put a piece of disposable paper on the floor because toner can spill when you put the transport coil unit down.

13. Pull out the whole transport coil unit [A] together with the bracket [B].

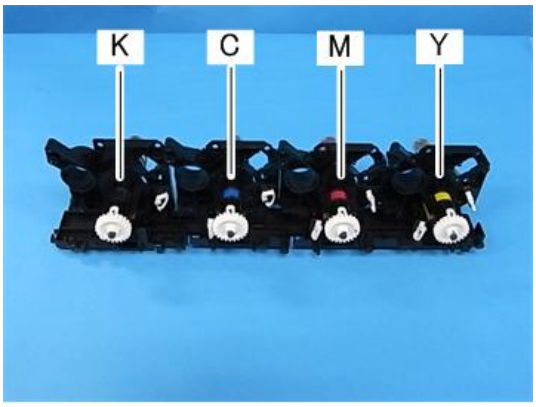


d177z4555

Note

- Be sure to put a piece of disposable paper on the floor because toner can spill when you put the transport coil unit down.

14. Remove the transport coil unit for (Y) [A] (tab×1).



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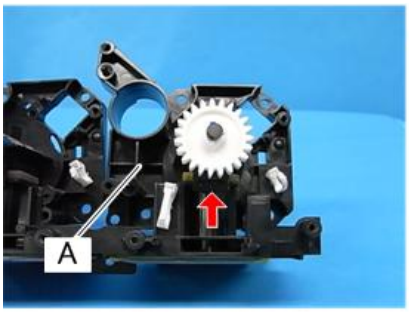
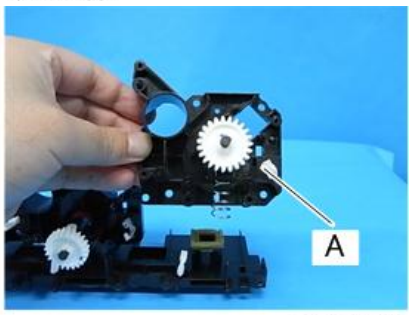


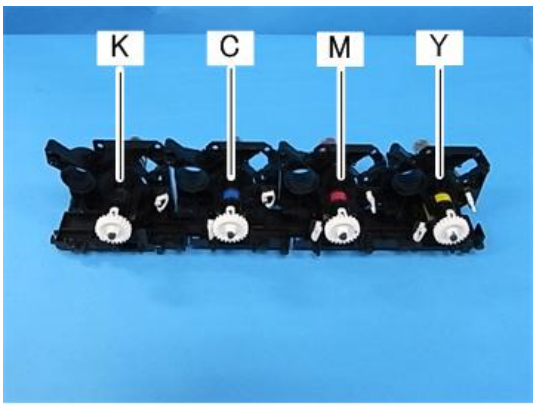


d177z4556

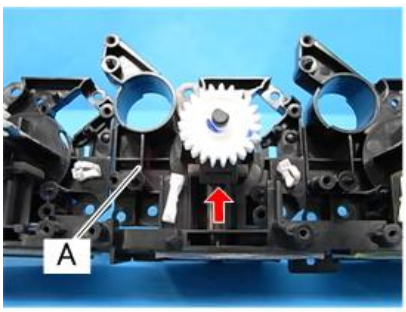
M

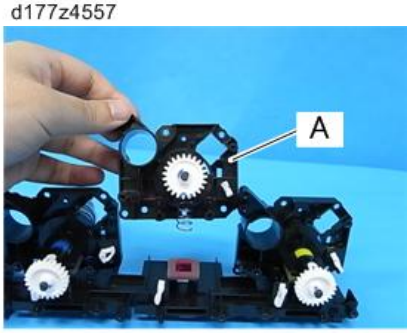
1. See steps 1 to 13 in the transport coil replacement procedure for "Y". (Y)

2. Remove the transport coil unit for (M) [A] (tab×1).



d177z4557

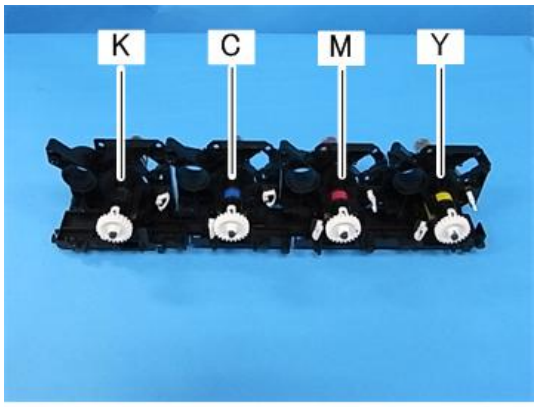




d177z4558

C

1. See steps 1 to 13 in the transport coil replacement procedure for "Y". (Y)
2. Remove the transport coil unit for (C) [A] (tab×1).



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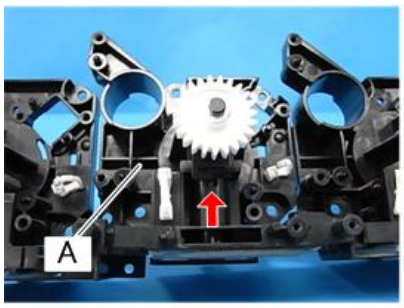
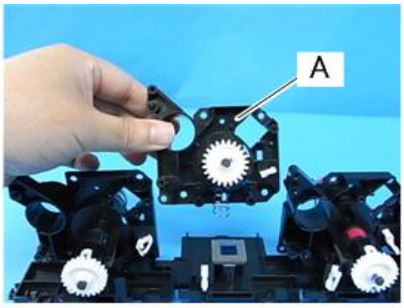
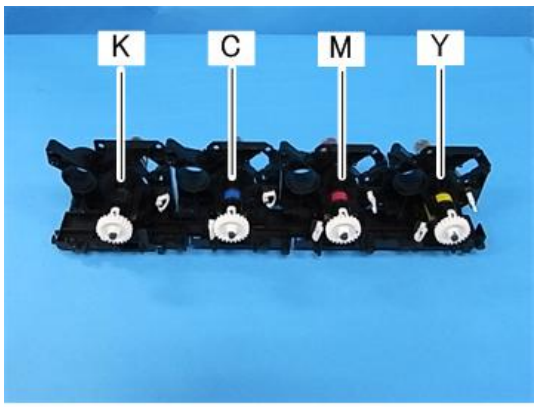




d177z4559

K

1. See steps 1 to 13 in the transport coil replacement procedure for "Y". (Y)
2. Remove the transport coil unit for (K) [A] (tab×1).



d177z4557

Fusing Unit

Note

The colors of parts and decals may vary depending on the model.

Fusing Unit

CAUTION

- Because there is a danger of burns on contact with hot parts of the fusing unit, start work when the temperature drops to a low enough temperature.
- To clear SC544-02 or SC554-02, replacing the fusing unit or installing a fuse (provided in the fusing sleeve belt unit) in the fusing unit must be required. Refer to When SC544-02, SC554-02 (Non-contact Thermistor High Temperature Detection) Is Displayed.

Note

- The fusing unit has a new unit detection mechanism, so it is not necessary to set SPs (New Unit Detection) when replacing an old fusing unit.
- When the fusing unit is used past its target yield (400k), the fusing unit may break, causing a service call. Therefore, the machine displays a warning on the operation panel at 415k pages and stops at 430k pages.

1. Open the paper transfer unit. (Image Transfer Unit)
2. Release the right and left locks of the fusing unit.

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3. Remove the fusing unit [A].

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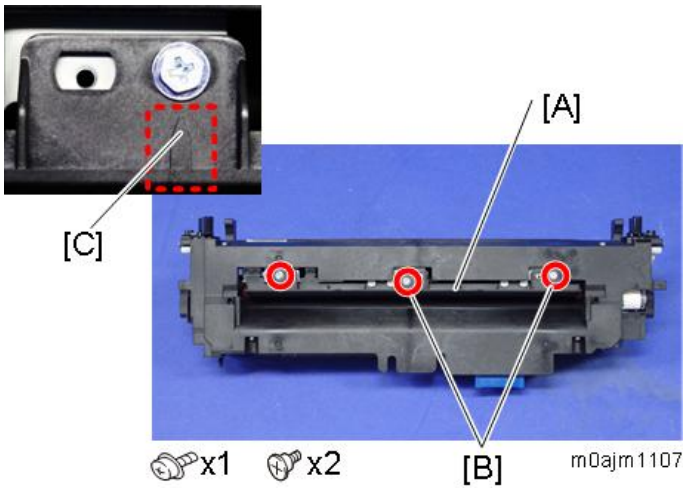
Fusing Entrance Guide Plate

1. Remove the fusing unit. (Fusing Unit)
2. Remove the fusing entrance guide plate [A].



Note

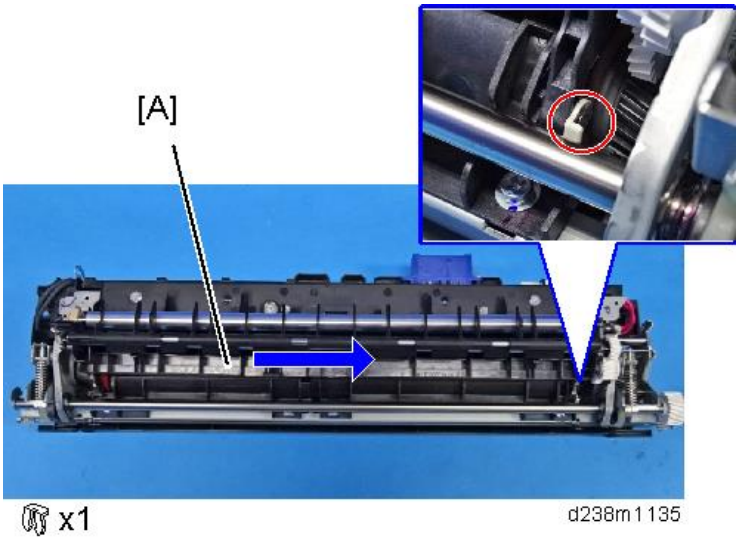
- The screws [B] are threaded screws. When you assemble the unit, take care not to use the wrong screws.
- Fasten the screw in the marked screw hole [C].

Cleaning the Fusing Entrance Guide Plate

Carefully remove adhering toner as shown in the diagram below with a dry cloth. Then, wipe with a cloth moistened with alcohol.

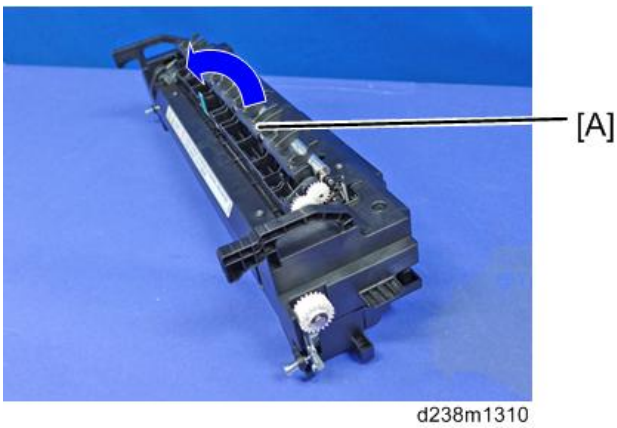
Fusing Exit Guide Plate

1. Remove the fusing unit. (Fusing Unit)
2. Remove the fusing upper cover. (Fusing Upper Cover)
3. Remove the fusing exit guide plate [A].
   Remove the clip ring, and then slide this part to the right to remove it.



Cleaning the Fusing Exit Guide Plate

1. Open the fusing exit guide plate [A].



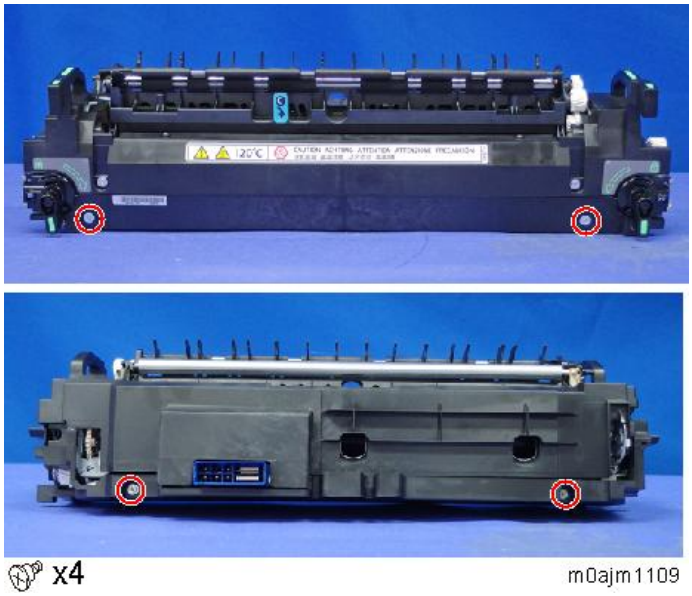
2. Wipe clean with a dry cloth. Then wipe clean with a cloth dampened with alcohol.

Fusing Upper Cover

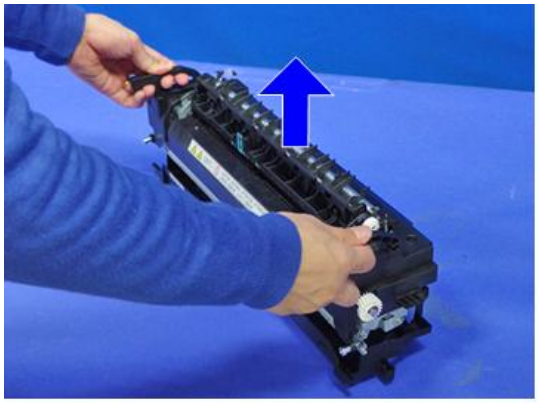
1. Remove the fusing unit. (Fusing Unit)
2. Remove the fusing upper cover [A].

Fusing Lower Cover

1. Remove the fusing unit. (Fusing Unit)
2. Remove 4 screws on the front and rear sides.



3. Lift the fusing unit to remove the fusing lower cover [A]



Fusing Sleeve Belt Unit

⚠CAUTION

- The fusing sleeve belt unit is designed with a highly soft material. Do not touch the sleeve belt unit with your hands to prevent dents during replacement. If you have touched it and a dent has been made, the dent will gradually become larger during operation and it can cause a fusing malfunction or sleeve belt breakage.
- To cancel SC544-02/554-02, it is necessary to replace the fusing unit or install an intact new unit detection fuse. Refer to When SC544-02, SC554-02 (Non-contact Thermistor High Temperature Detection) Is Displayed.
- If you are replacing the fusing sleeve belt unit for PM or any reason other than canceling SC544-02/554-02, you can discard the fuse that is packed with the new fusing sleeve belt unit.

What to Do before Replacing the Fusing Sleeve Belt Unit

Before replacing the fusing sleeve belt unit, set SP3-701-116 to "1" and switch the power OFF. Then replace the fusing sleeve belt unit and switch the power ON.

SP3-701 (Manual New Unit Set)

This SP is the new unit detection flag.

0: new unit detection flag OFF, 1: new unit detection flag ON

Item	SP
Fusing sleeve belt unit	SP3-701-116

Replacement

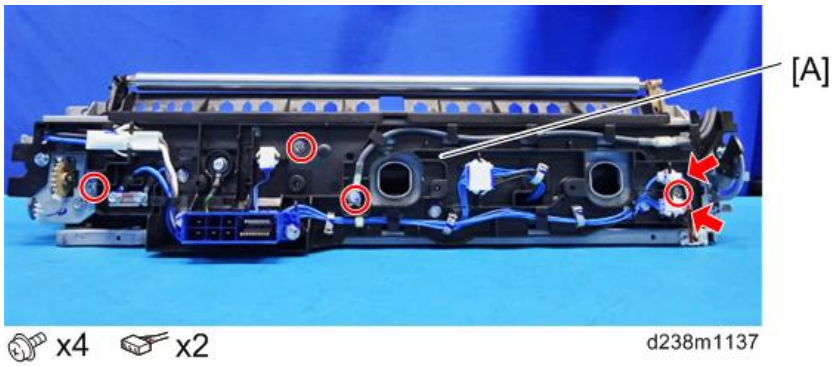
⚠CAUTION

- The fusing sleeve belt unit is designed with a highly soft material. Do not touch the sleeve belt unit with your hands to prevent dents during replacement. If you have touched it and a dent has been made, the dent will gradually become larger during operation and it can cause a fusing malfunction or sleeve belt breakage.

⚠CAUTION

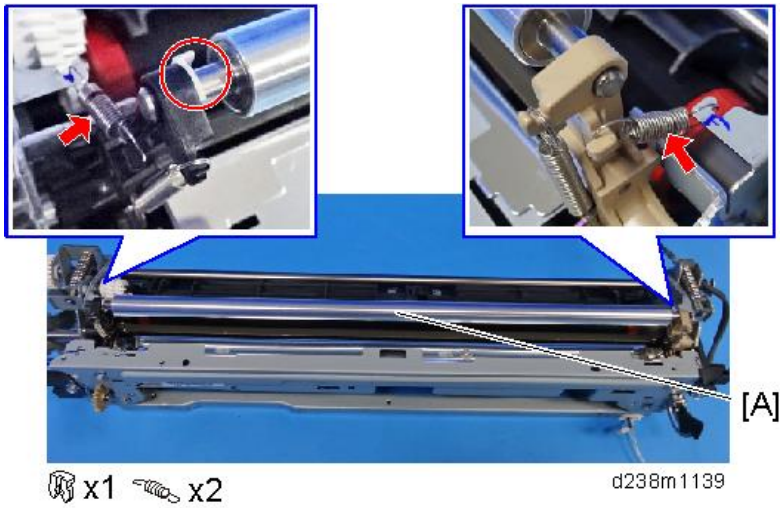
- To cancel SC544-02/554-02, it is necessary to replace the fusing unit or install an intact new unit detection fuse. If you will cancel these SCs by installing a new unit detection fuse, follow the instruction at the end of this procedure.
- If you are replacing the fusing sleeve belt unit for PM or any reason other than canceling these SCs, you can discard the fuse that is packed with the new fusing sleeve belt unit.

1. Remove the fusing upper cover. (Fusing Upper Cover)
2. Remove the fusing lower cover. (Fusing Lower Cover)
3. Remove the left frame [A].

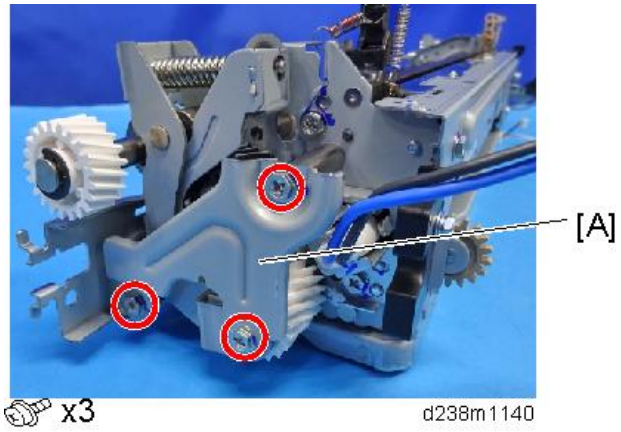


4. Remove the exit guide plate (left) unit [A].

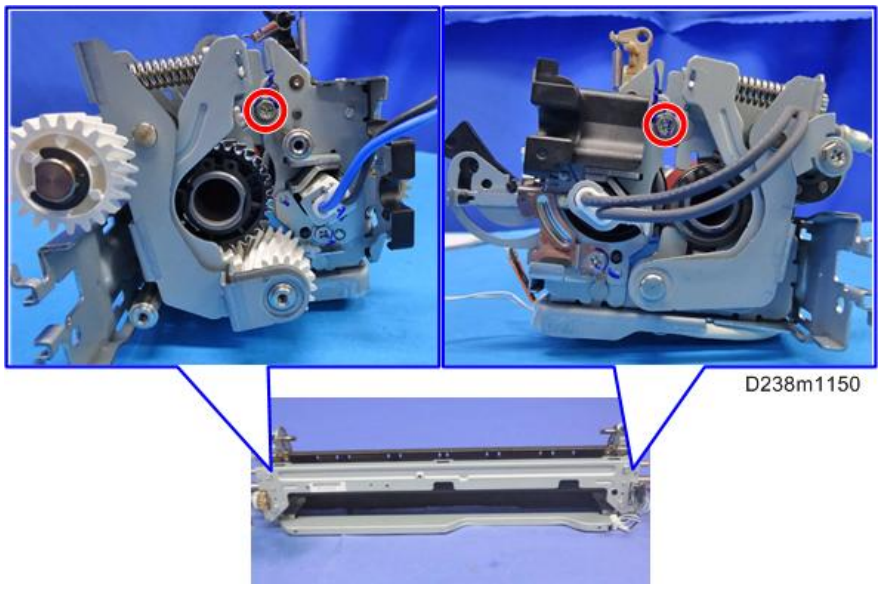
5. Remove the fusing exit driven roller [A].



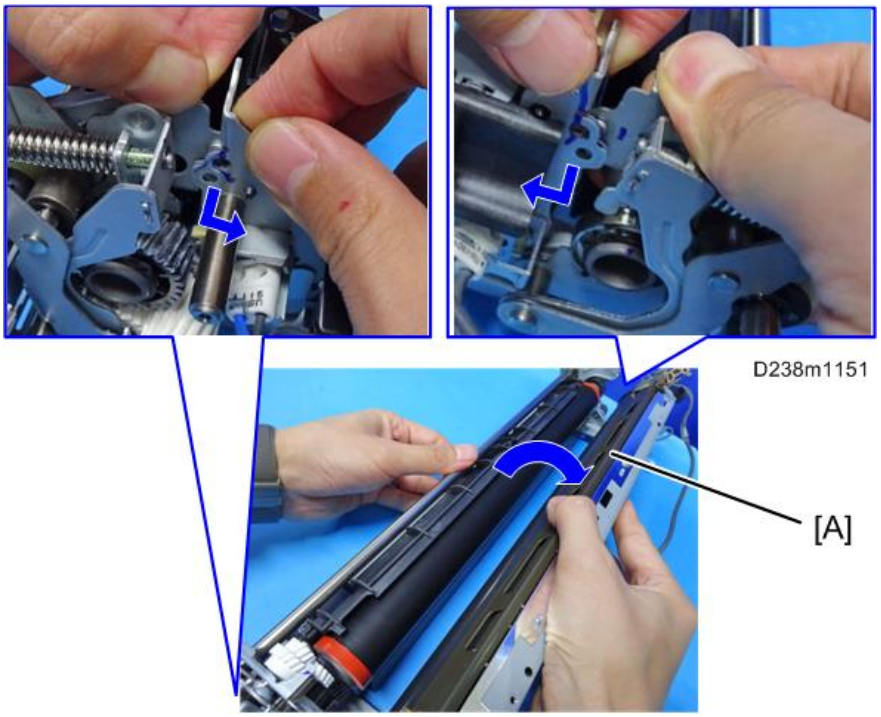
6. Remove the side plate [A].



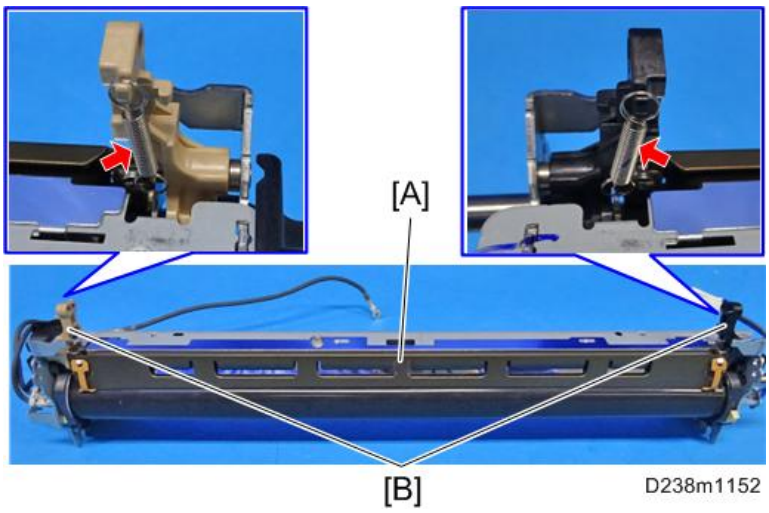
7. Remove two screws.



8. Release the boss caps on both sides, and then detach the fusing sleeve belt unit [A].



9. Remove the spring, and then remove the separation plate [A] and supports [B].



Pressure Roller

What to Do before replacing the pressure roller

Before replacing the Pressure Roller, set SP3-701-118 to "1" and switch the power OFF. Then replace the Pressure Roller and switch the power ON.

SP3-701 (Manual New Unit Set)

This SP is the new unit detection flag.

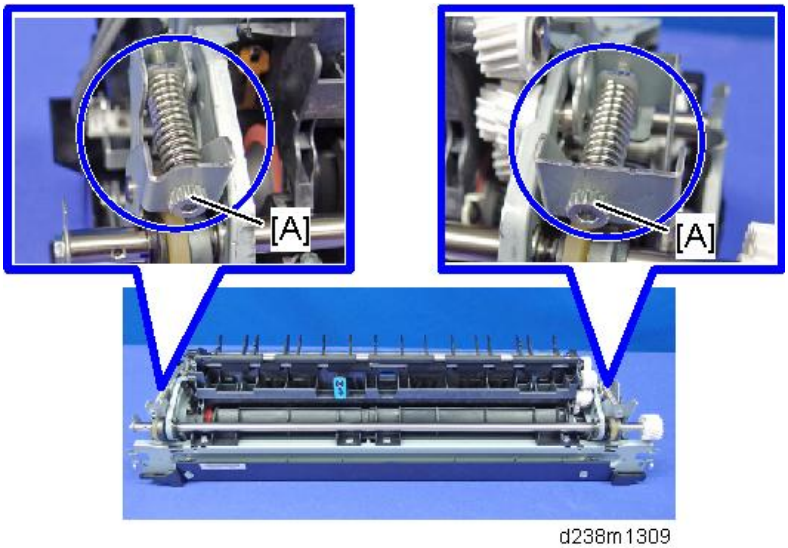
0: new unit detection flag OFF, 1: new unit detection flag ON

Item	SP
Pressure Roller	SP3-701-118

Replacement

⚠CAUTION

- Do not remove or adjust the pressure adjusting screws [A] when replacing the pressure roller.
- The fusing unit is adjusted in the factory to match the hardness of the pressure roller, so that the nip width will be correct.



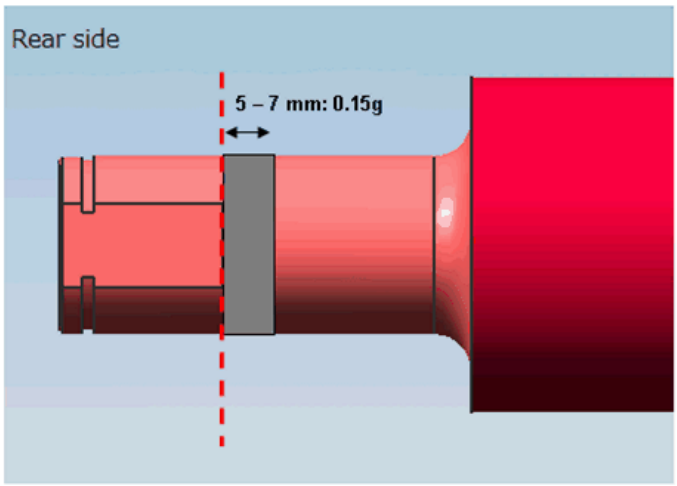
- Do not move the pressure roller to another fusing unit.

1. Remove the fusing sleeve belt unit. (Fusing Sleeve Belt Unit)

2. Remove the pressure roller [A].

3. Apply the grease (FLUOTRIBO MG GREASE) to the rear shaft of the pressure roller at 5-7mm from the cut

edge.



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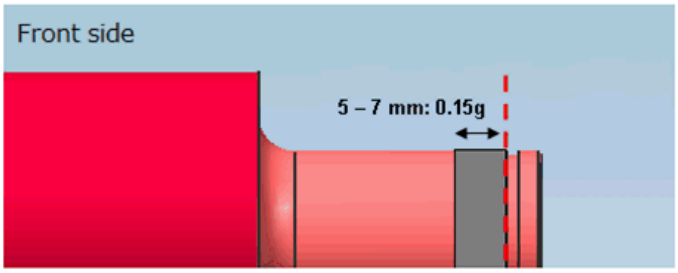
4. Apply the grease (FLUOTRIBO MG GREASE) to the front shaft of the pressure roller at 5-7mm from the C-ring notch.



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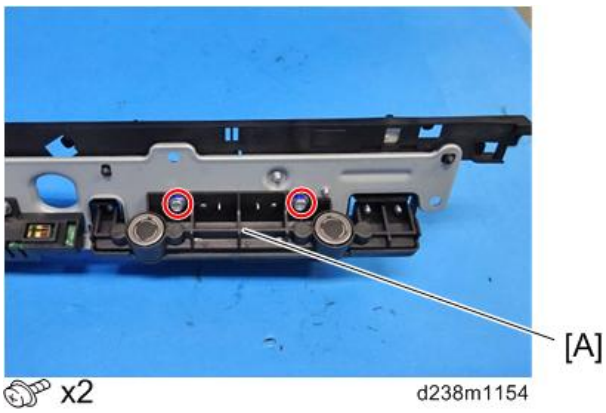
Fusing Sleeve Thermostat Unit

1. Remove the left frame. (Fusing Sleeve Belt Unit)

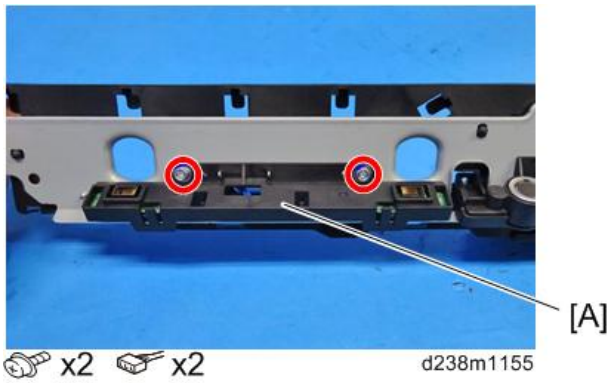
2. Remove the fusing sleeve thermostat unit [A].



Non-Contact Thermistor

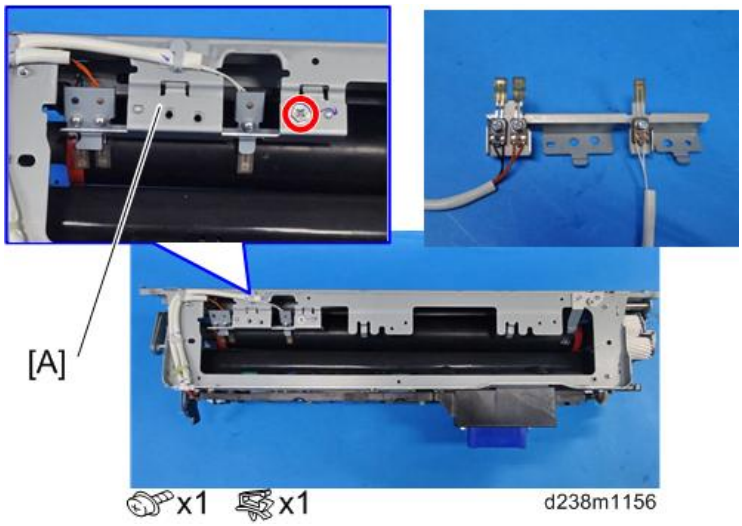
1. Remove the left frame. (Fusing Sleeve Belt Unit)

2. Remove the non-contact thermistor unit [A].



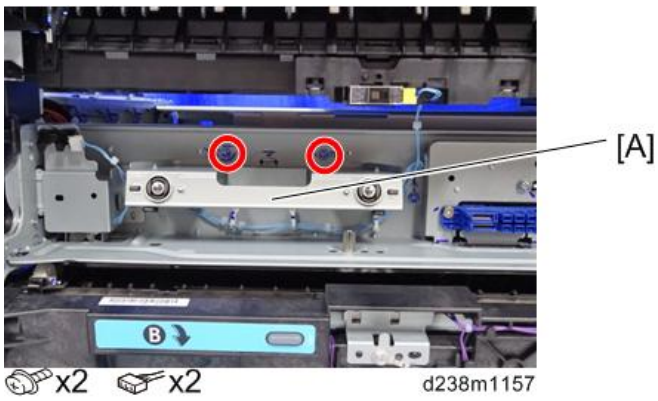
Pressure Roller Thermistor

1. Remove the fusing entrance guide plate. (Fusing Entrance Guide Plate)
2. Remove the fusing upper cover. (Fusing Upper Cover)
3. Remove the fusing lower cover. (Fusing Lower Cover)
4. Remove the pressure roller thermistor [A].



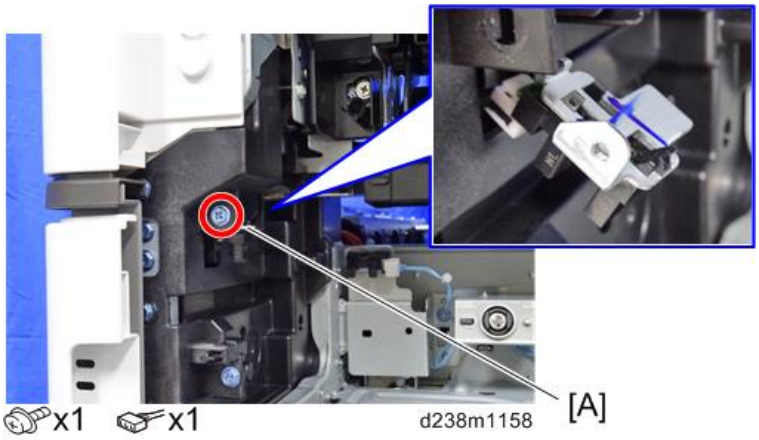
Thermopile Unit

1. Remove the fusing unit. (Fusing Unit)
2. Remove the thermopile unit [A].

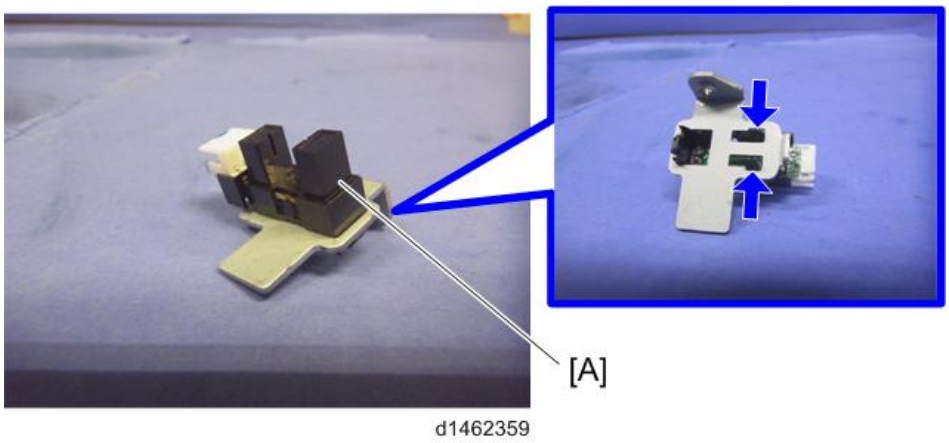


Pressure Roller HP Sensor

1. Remove the fusing unit. (Fusing Unit)
2. Remove the pressure roller HP sensor unit [A].



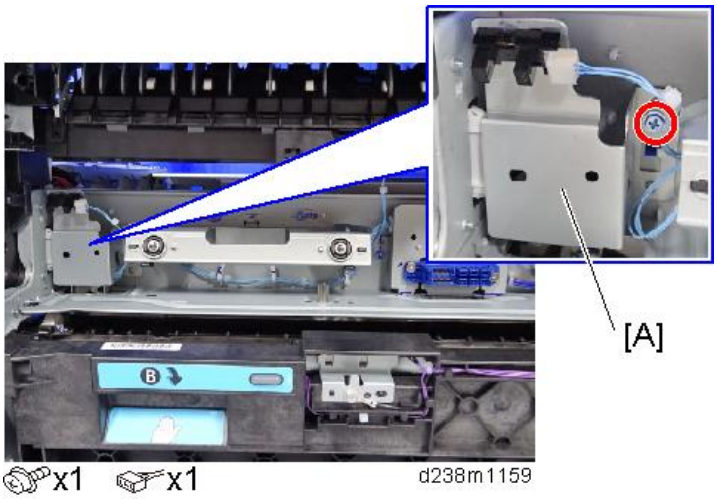
3. Remove the pressure roller HP sensor [A].



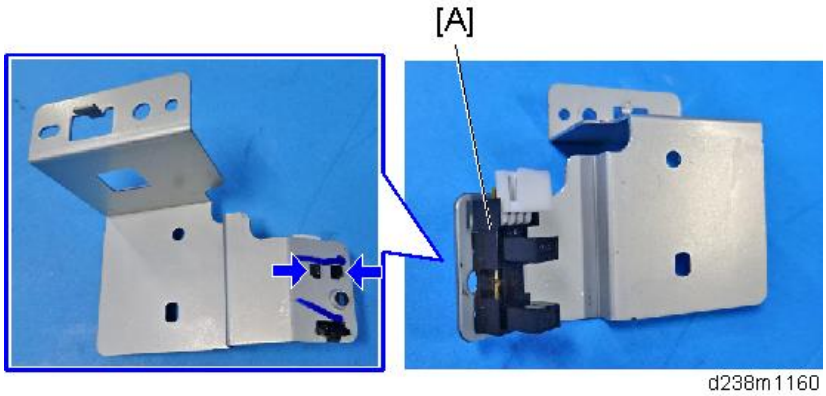
Fusing Shield Position Sensor

1. Remove the fusing unit. (Fusing Unit)

2. Remove the fusing shield position sensor unit [A].



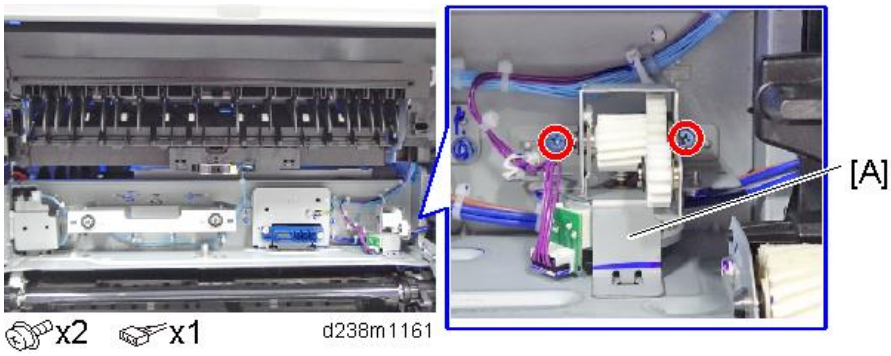
3. Remove the fusing shield position sensor [A].



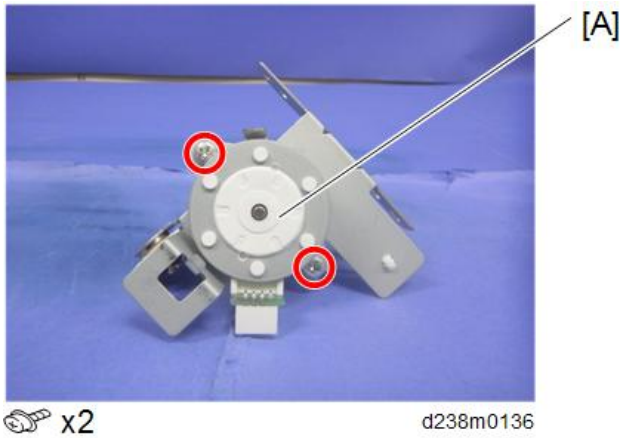
Fusing Shield Drive Motor

1. Remove the fusing unit. (Fusing Unit

2. Remove the fusing shield drive motor unit [A].



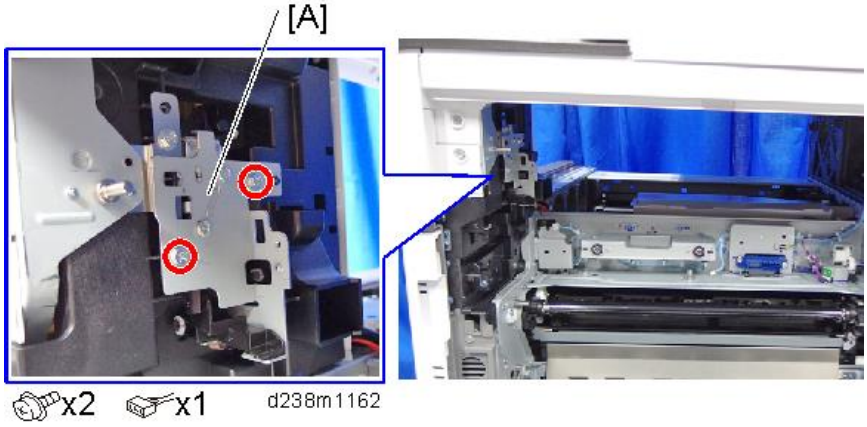
3. Remove the fusing shield drive motor [A].



Fusing Exit Drive Solenoid

1. Remove the paper exit unit. (Paper Exit Unit)

2. Remove the fusing exit drive solenoid [A].



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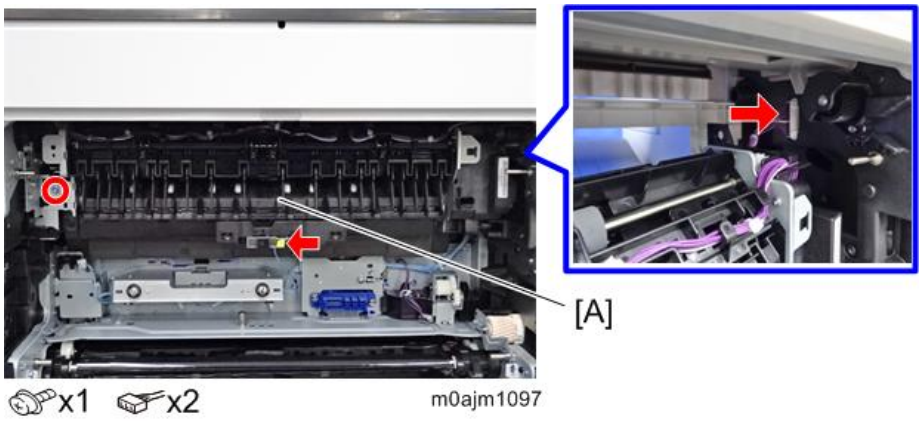
Paper Exit

Paper Exit Unit

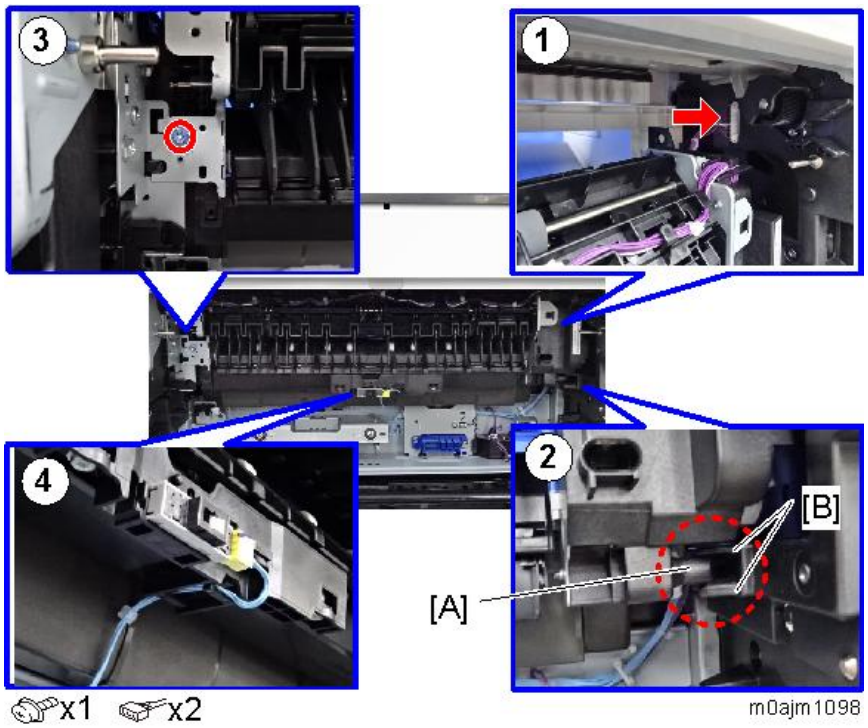
1. Remove the fusing unit. (Fusing Unit)
2. Remove the inner cover [A].

3. Remove the paper exit unit [A].



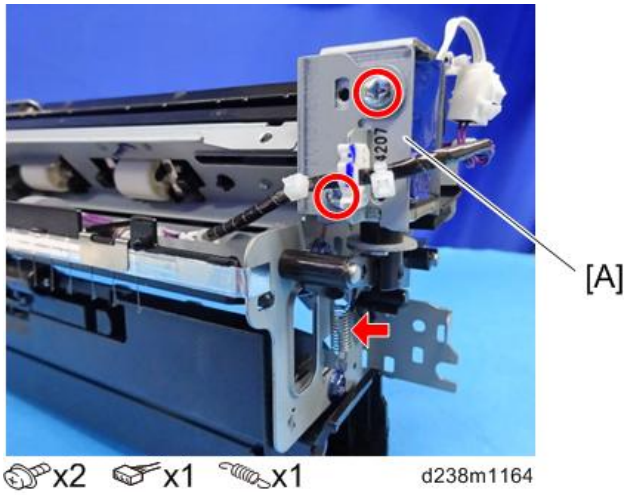
Re-installing the Paper Exit Unit

1. Connect the connector on the far right.
2. Insert the protruding part in the lower right [A] into the guide [B].
3. Position the left side and fix with the screw.
4. Connect the connector on the bottom and place the harness back into the guide.



Paper Exit Switching Solenoid

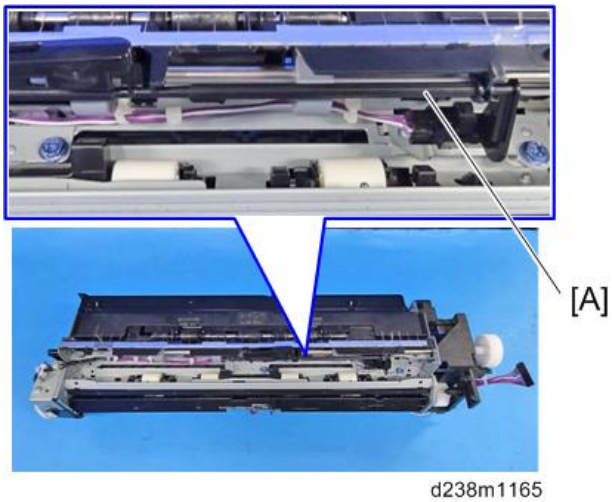
1. Remove the paper exit unit. (Paper Exit Unit)
2. Remove the paper exit switching solenoid [A].



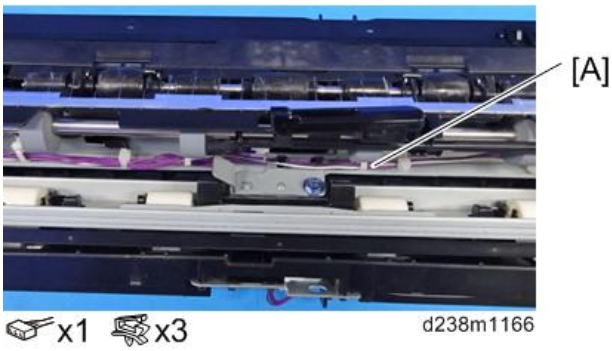
Paper Exit Sensor

1. Remove the paper exit unit. (Paper Exit Unit)

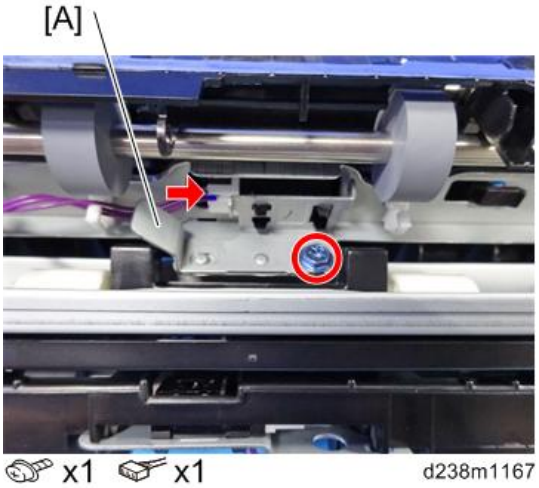
2. Remove the feeler [A].



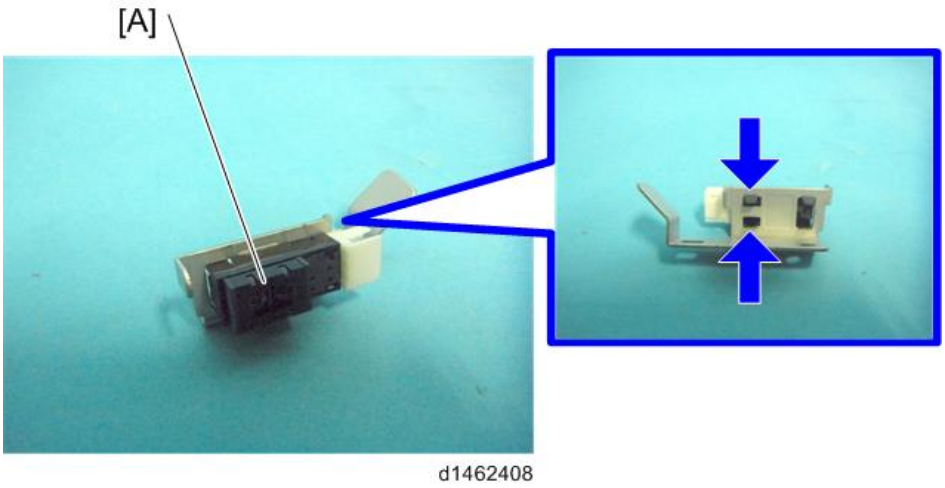
3. Remove the harness [A].



4. Remove the paper exit sensor unit [A].



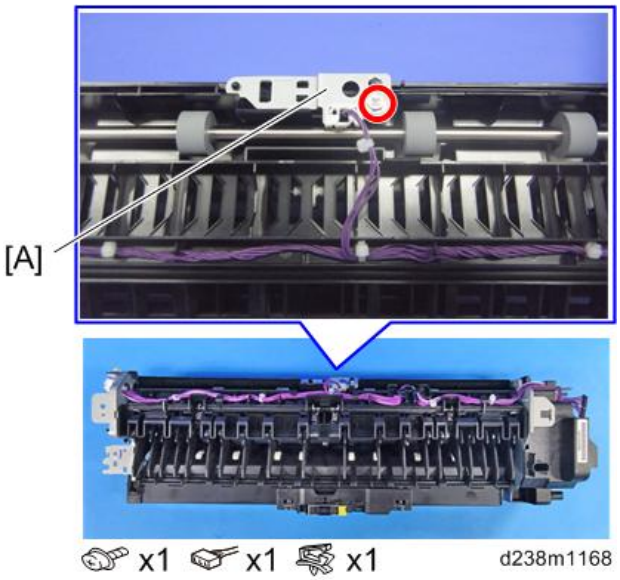
5. Remove the paper exit sensor [A].



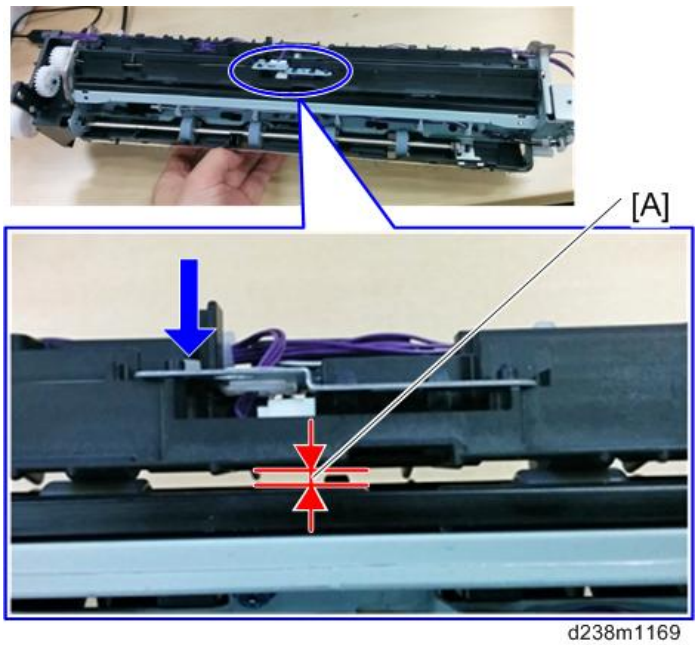
Reverse Sensor

1. Remove the paper exit unit. (Paper Exit Unit)

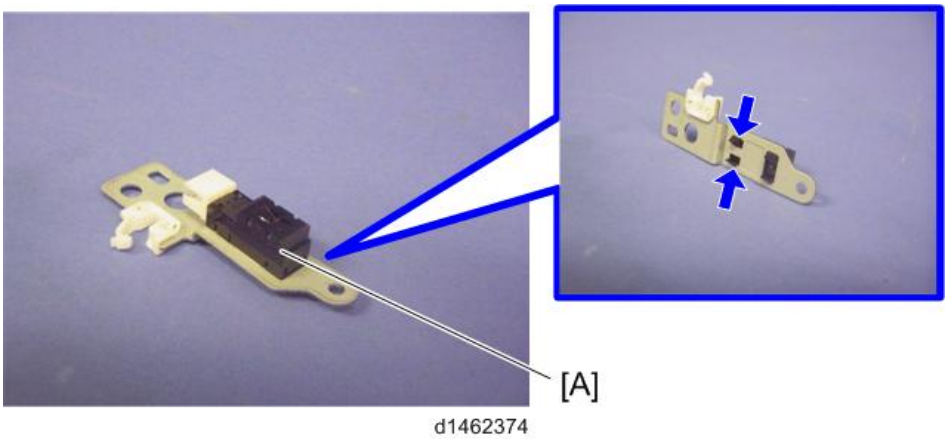
2. Remove the reverse sensor unit [A].



When attaching the reverse sensor, if you screw too tightly in the direction of the blue arrow, it may cause the gap between the guide plates [A] to be too narrow, resulting in paper jams. Make sure that there is a gap [A] of 3mm or more after you fasten the screw.



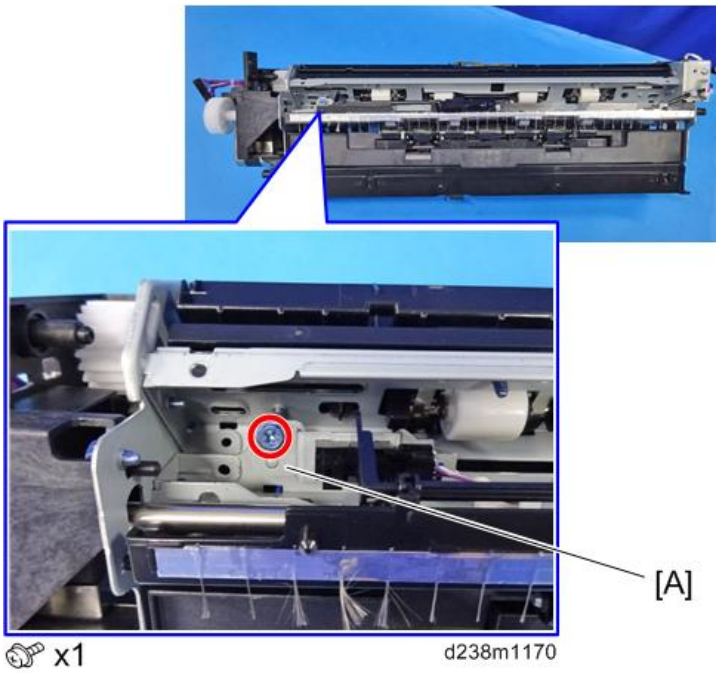
3. Remove the reverse sensor [A].



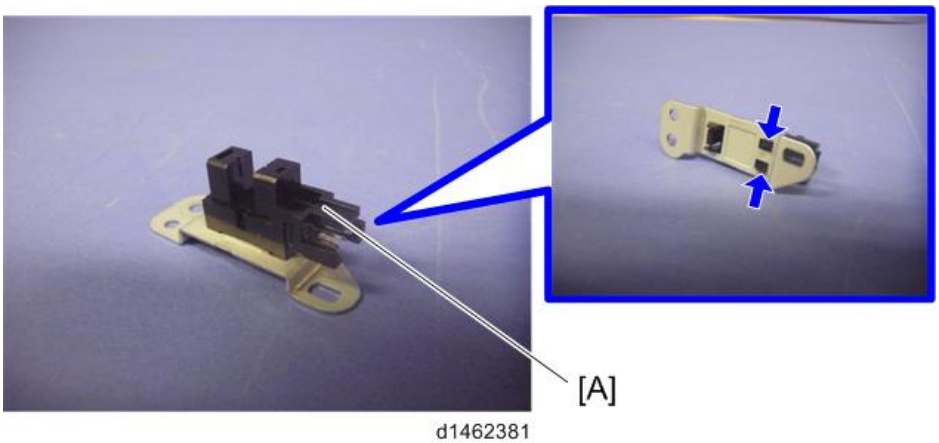
Paper Exit Full Sensor

1. Remove the paper exit unit. (Paper Exit Unit)

2. Remove the paper exit full sensor unit [A].



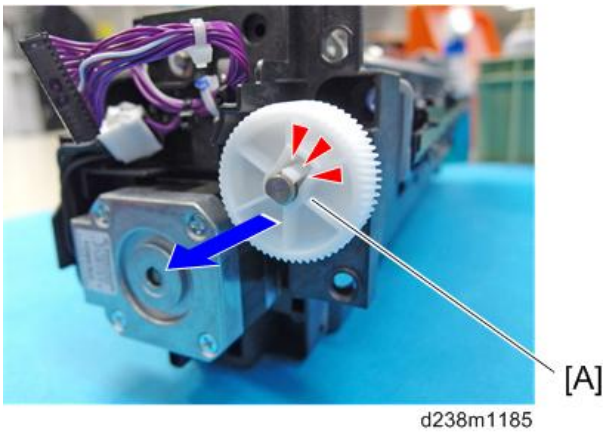
3. Remove the paper exit full sensor [A].



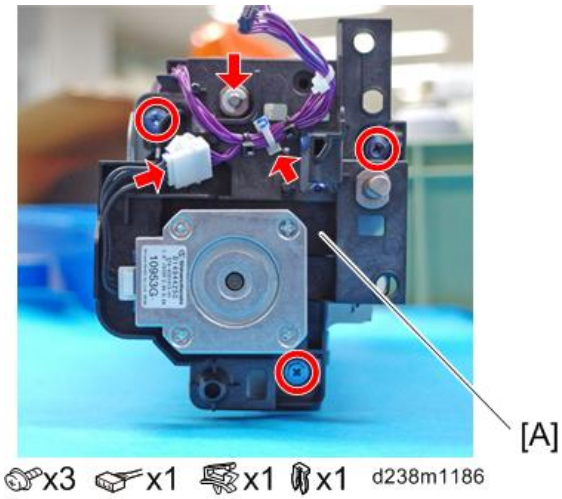
Reverse Motor

1. Remove the paper exit unit. (Paper Exit Unit)

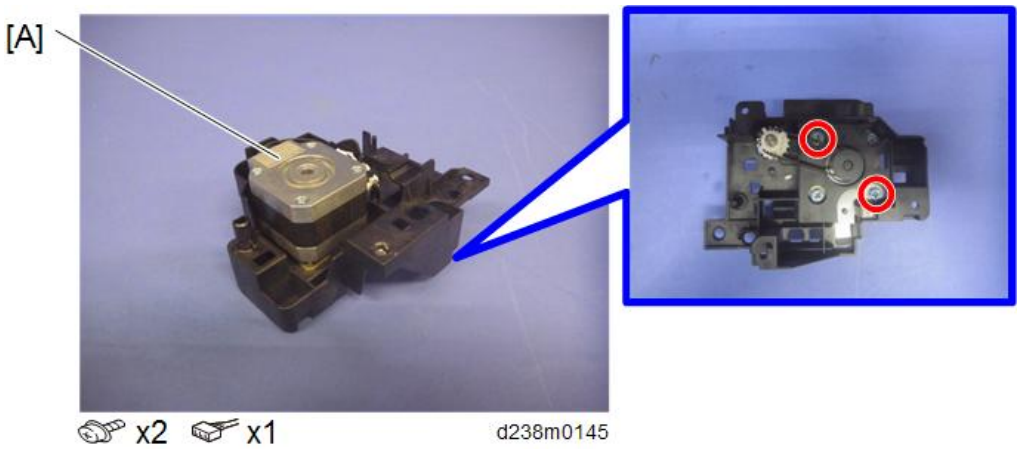
2. Remove the gear [A] (Tab x1).



3. Remove the reverse motor unit [A].



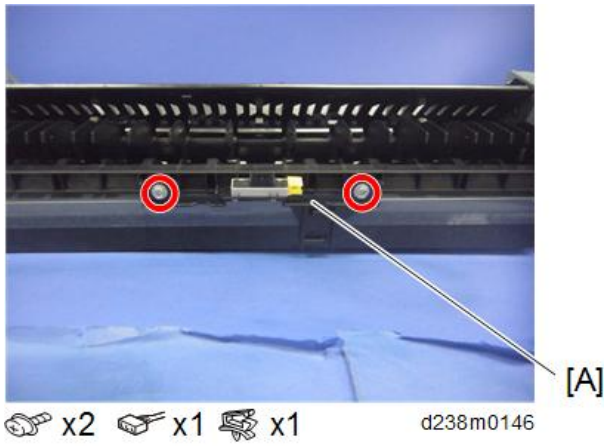
4. Remove the reverse motor [A].



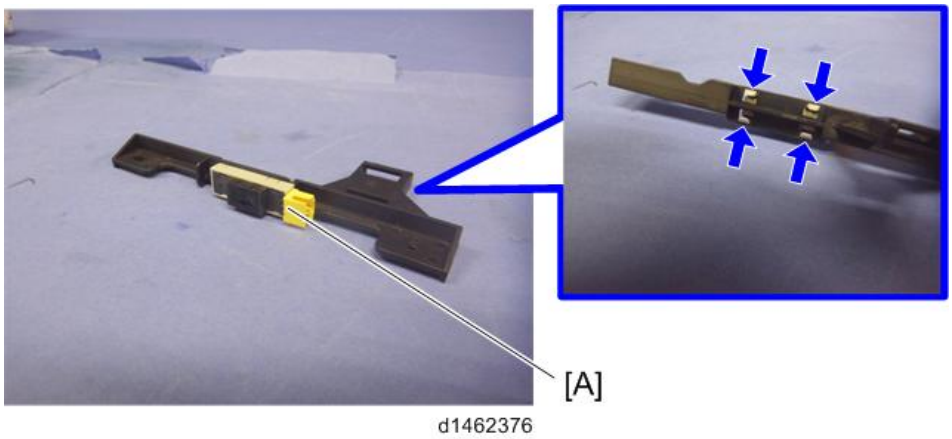
Fusing Exit Sensor

1. Remove the paper exit unit. (Paper Exit Unit)

2. Remove the fusing exit sensor unit [A].



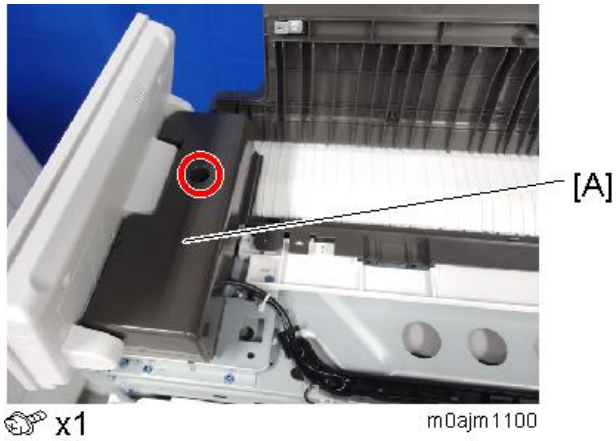
3. Remove the fusing exit sensor [A].



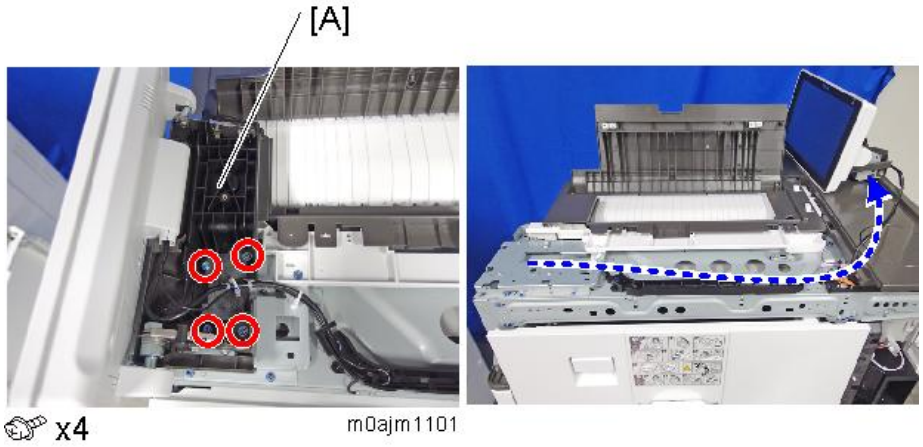
Inverter Guide

1. Remove the top right cover. (Top Right Cover)

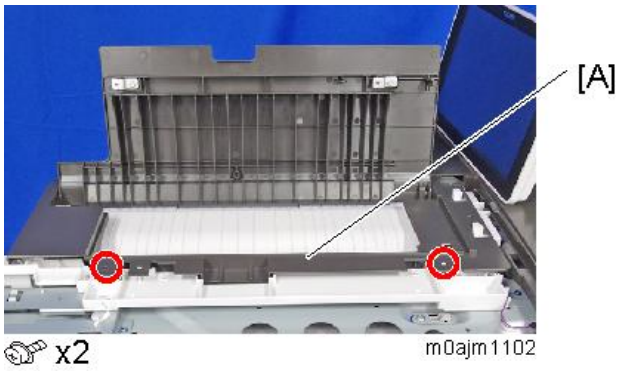
2. Remove the operation panel upper cover [A].



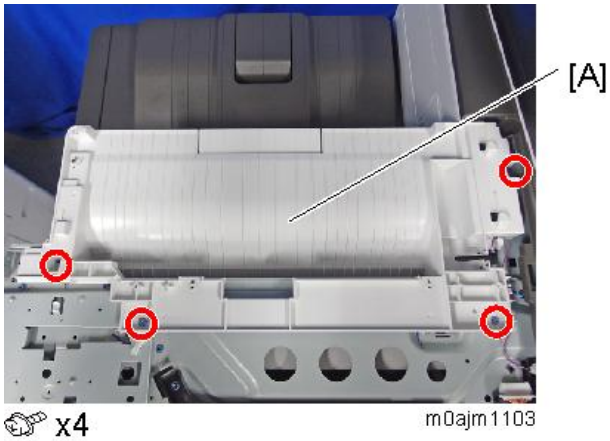
3. Remove the operation panel with the base [A] and move them to the back of the machine.



4. Remove the inverter guide upper cover [A].



5. Remove the inverter guide [A].



Inverter Guide Cover Sensor

1. Remove the top right cover. (Top Right Cover)

2. Remove the inverter guide cover sensor [A].

Paper Feed

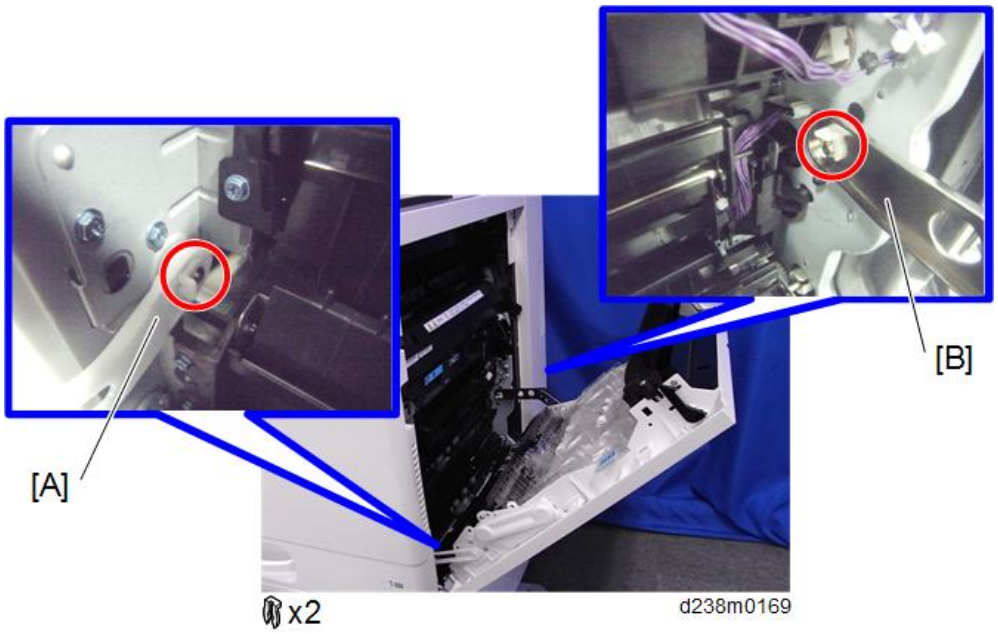
Note

- The colors of parts and decals may vary depending on the model.
- The 1st paper feed unit can be removed without removing the duplex unit (just open the right door), and you can remove the paper feed unit after pulling out the paper tray.
- The 1st paper feed unit and 2nd paper feed unit are not interchangeable.

Paper Feed Unit

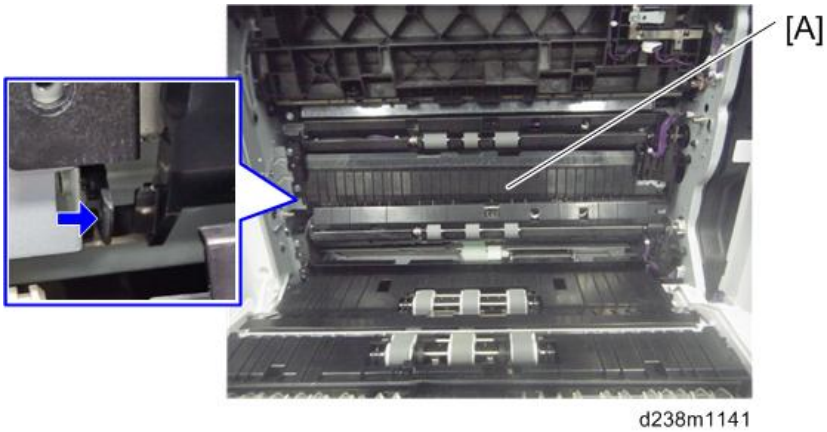
1st Paper Feed Unit

1. Release the arms [A] [B] to open the right door wide.

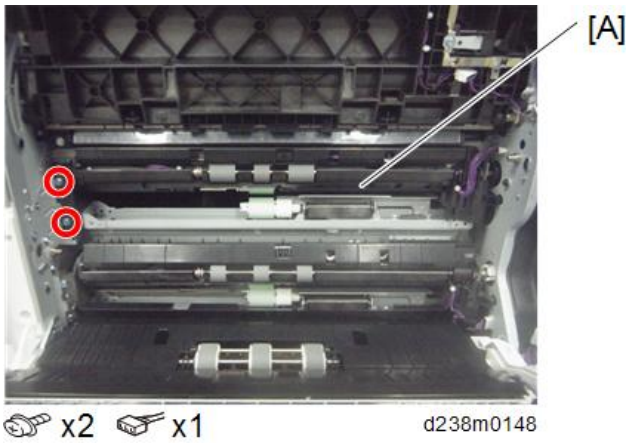


2. Pull out the 1st paper tray [A].

3. Press the left tab to release the lock, and remove the paper feed guide plate [A].



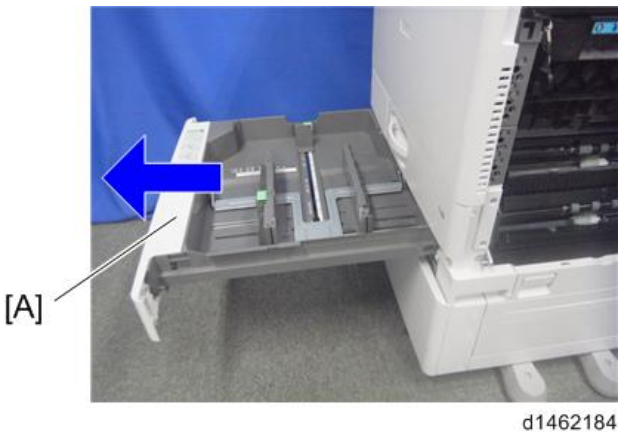
4. Remove the 1st paper feed unit [A].



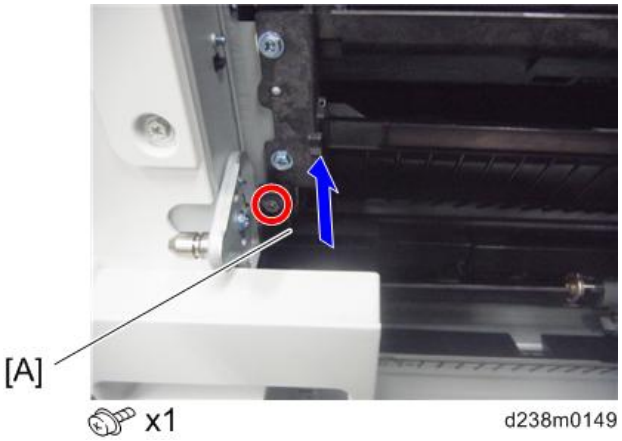
2nd Paper Feed Unit

1. Remove the duplex unit. (Duplex Unit)

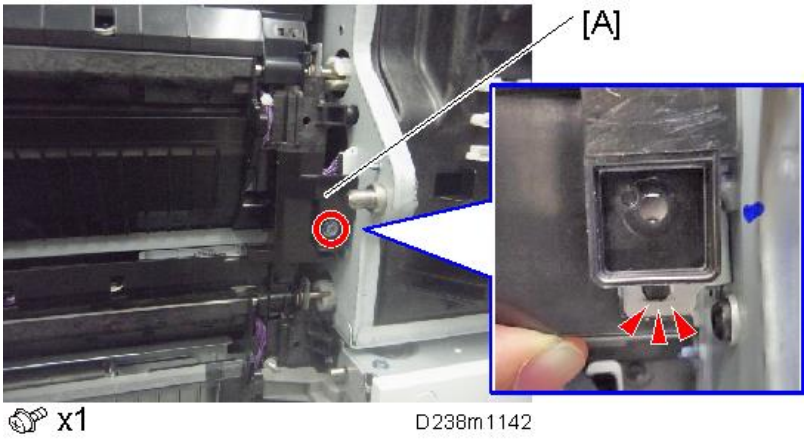
2. Pull out the 2nd paper tray [A].



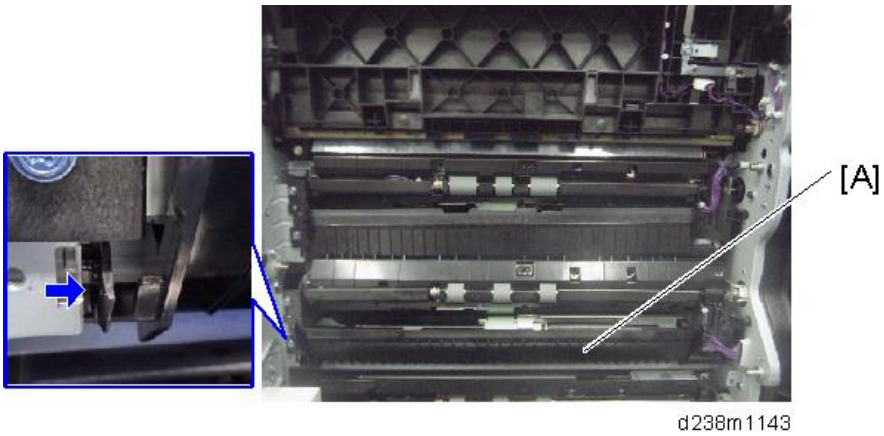
3. Remove the transport guide [A].



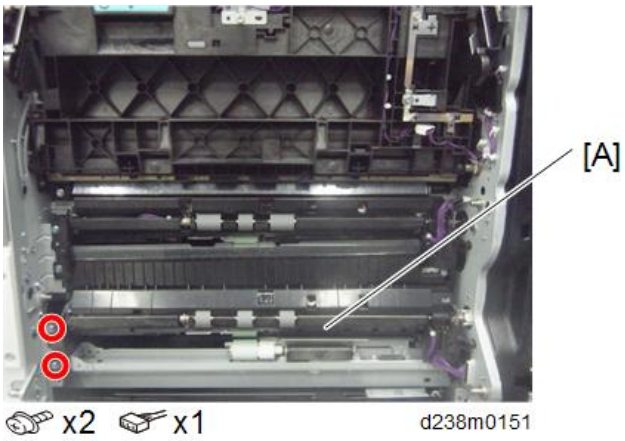
4. Remove the harness guide [A] (Hook x 1).



5. Press the left tab to release the lock, and remove the paper feed guide plate [A].

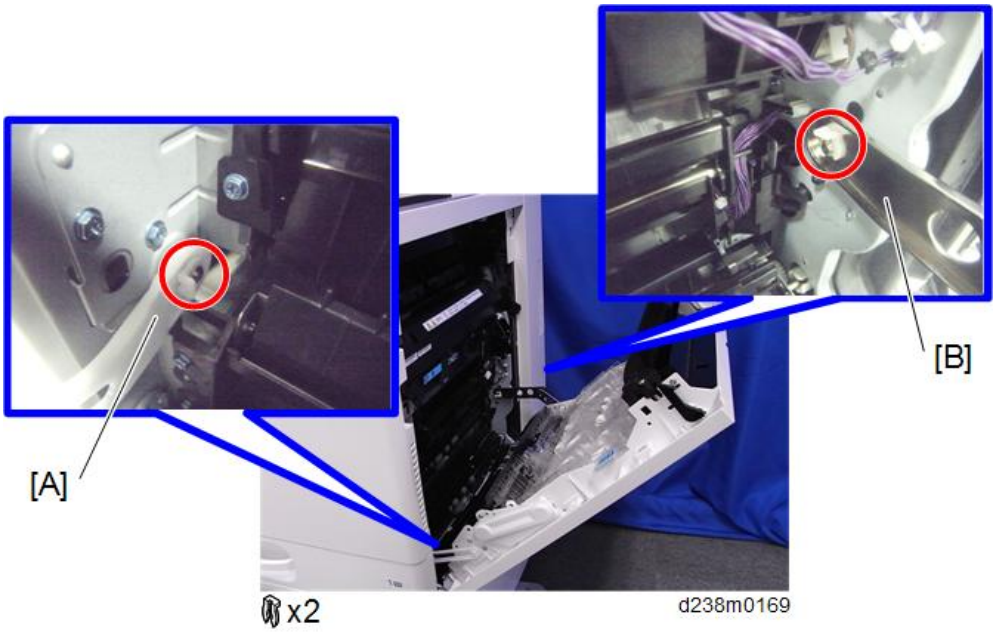


6. Remove the 2nd paper feed unit [A].

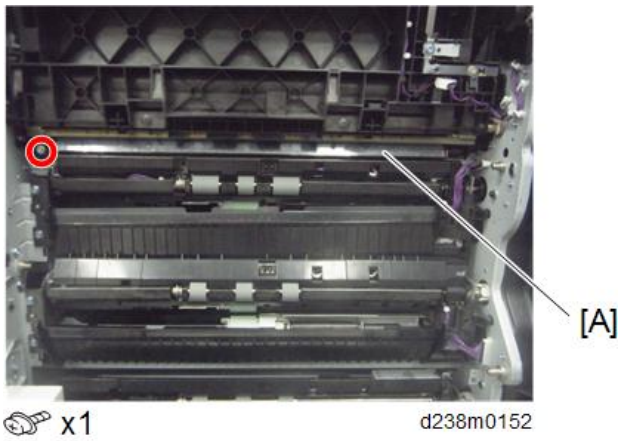


Paper Dust Collection Unit

1. Release the arms [A] [B] to open the right door wide.



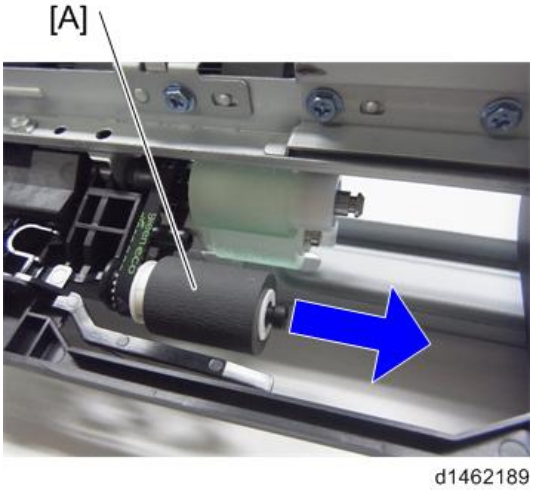
2. Remove the paper dust collection unit [A].



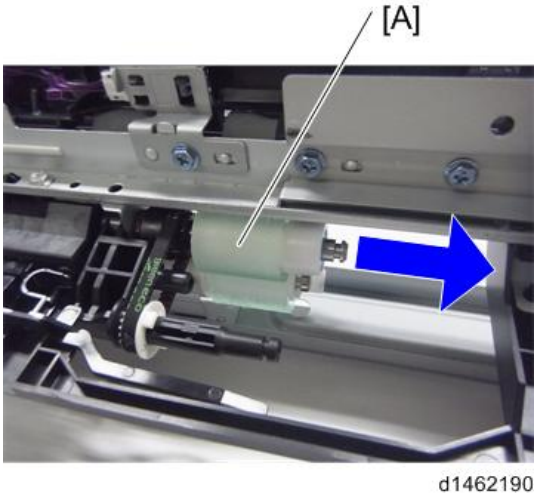
Pick-up Roller, Paper Feed Roller, Separation Roller, Torque Limiter

1. Remove the paper feed unit. (Paper Feed Unit)
2. Remove the retainer [A].

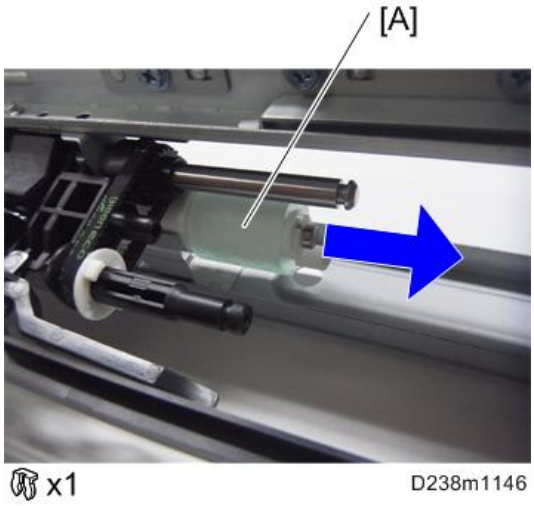
3. Remove the pick-up roller [A].



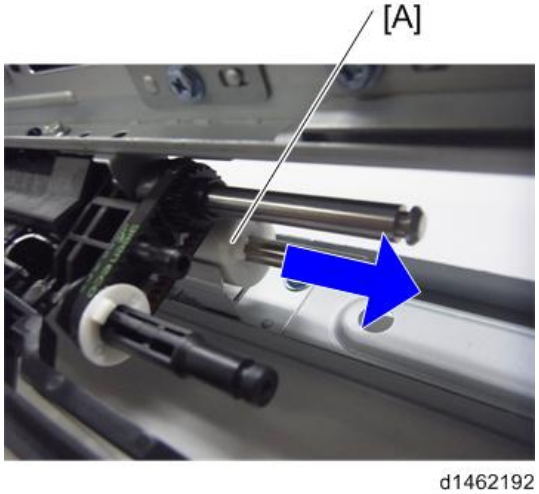
4. Remove the paper feed roller [A].



5. Remove the separation roller [A].



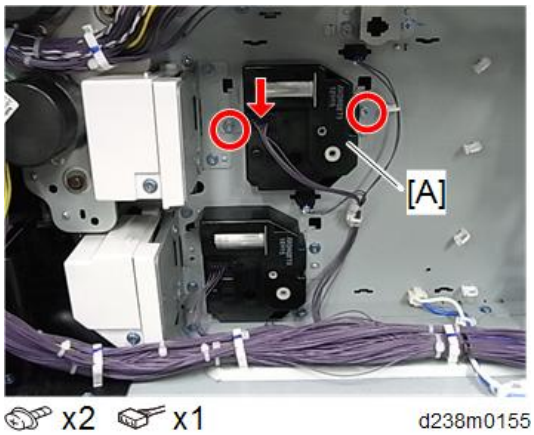
6. Remove the torque limiter [A].



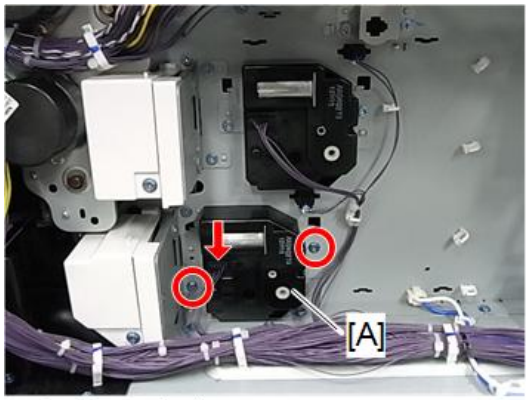
1st Tray Lift Motor, 2nd Tray Lift Motor

1. Remove the HVP-CB with bracket. (HVP-CB with Bracket)

2. Remove the 1st tray lift motor [A].



3. Remove the 2nd tray lift motor [A].

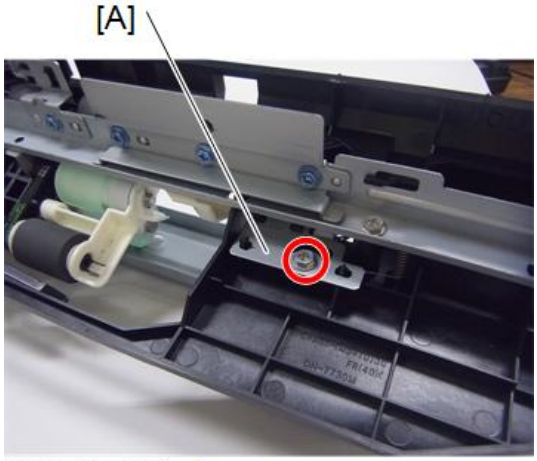


x2 x1 d238m0156

Paper Feed Sensor

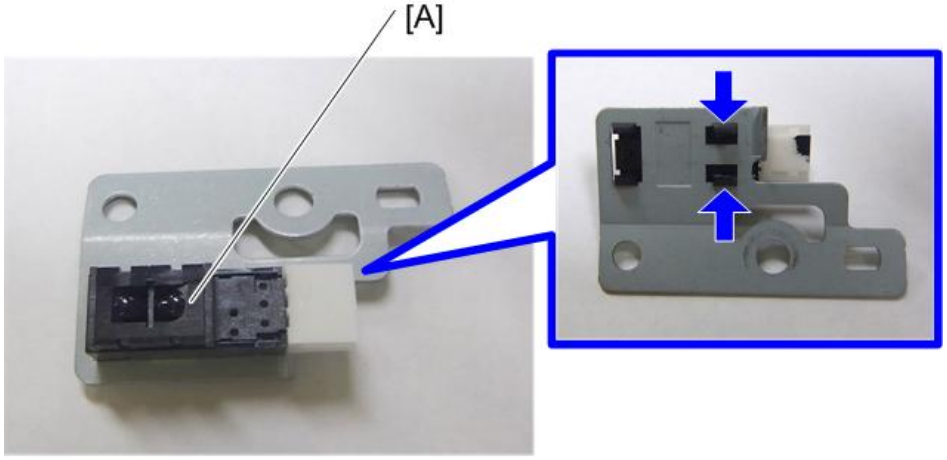
1. Remove the paper feed unit. (Paper Feed Unit)

2. Remove the paper feed sensor unit [A].



x1 x1 d238m0158

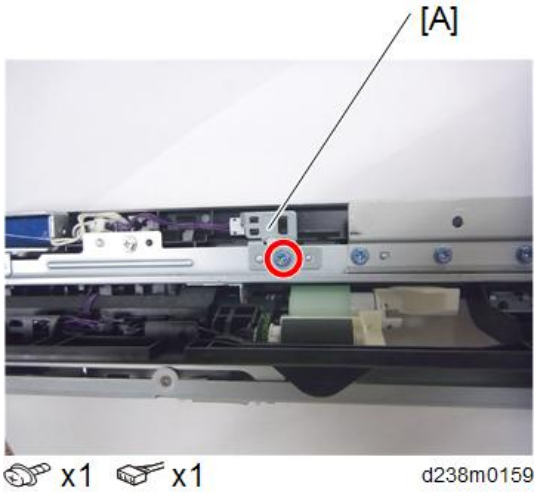
3. Remove the paper feed sensor [A].



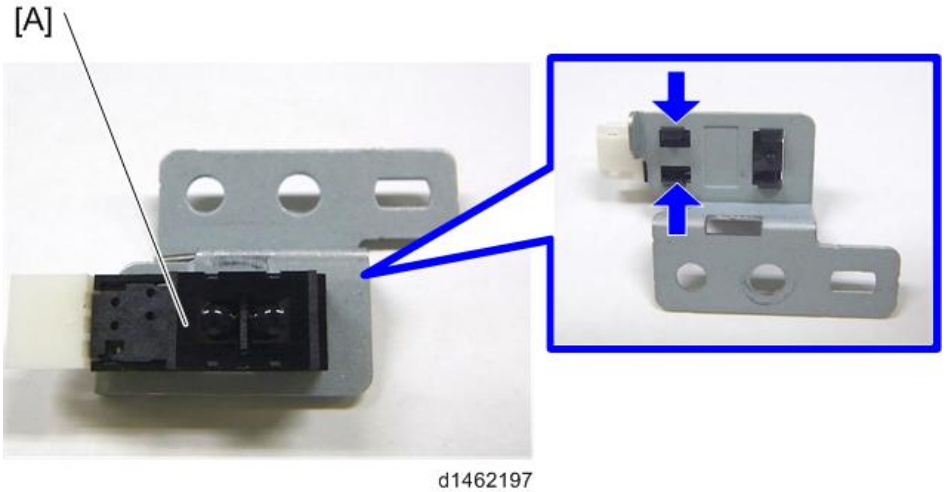
d1462195

Transport Sensor

1. Remove the paper feed unit. (Paper Feed Unit)
2. Remove the transport sensor unit [A].



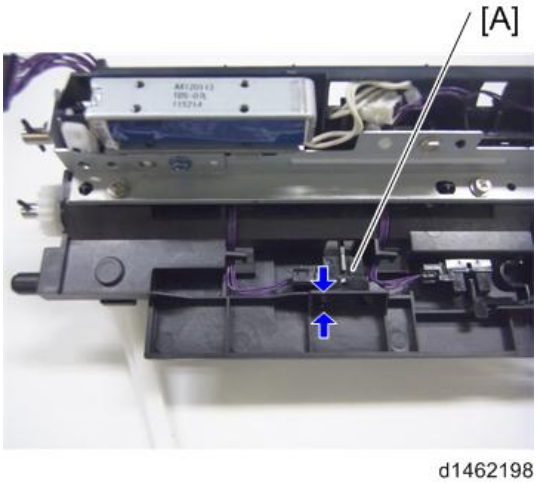
3. Remove the transport sensor [A].



Upper Limit Sensor

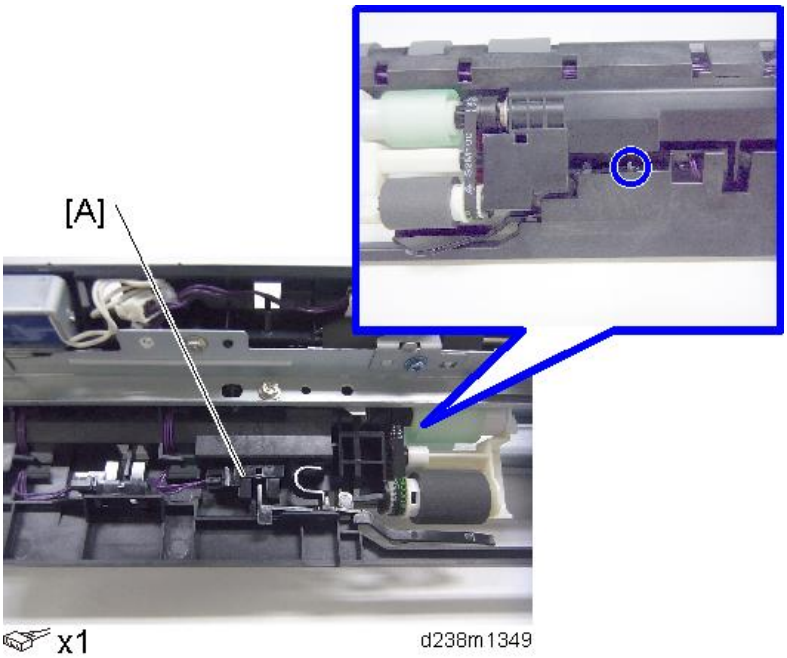
1. Remove the paper feed unit. (Paper Feed Unit)

2. Remove the upper limit sensor [A].



Paper End Sensor

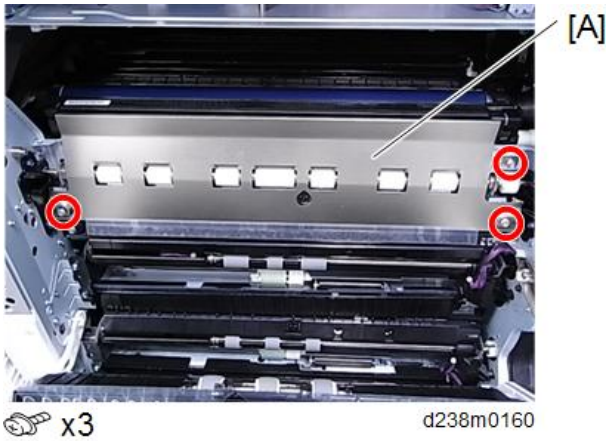
1. Remove the paper feed unit. (Paper Feed Unit)
2. While pressing the tab enclosed by the blue circle, remove the paper end sensor [A] (Harness×1).



Registration Sensor

1. Open the right door.
2. Remove the paper transfer roller unit. (Paper Transfer Roller Unit)

3. Remove the inner bracket [A].



4. Remove two screws, then release the tab by inserting a flat-headed screwdriver behind the registration sensor [A].

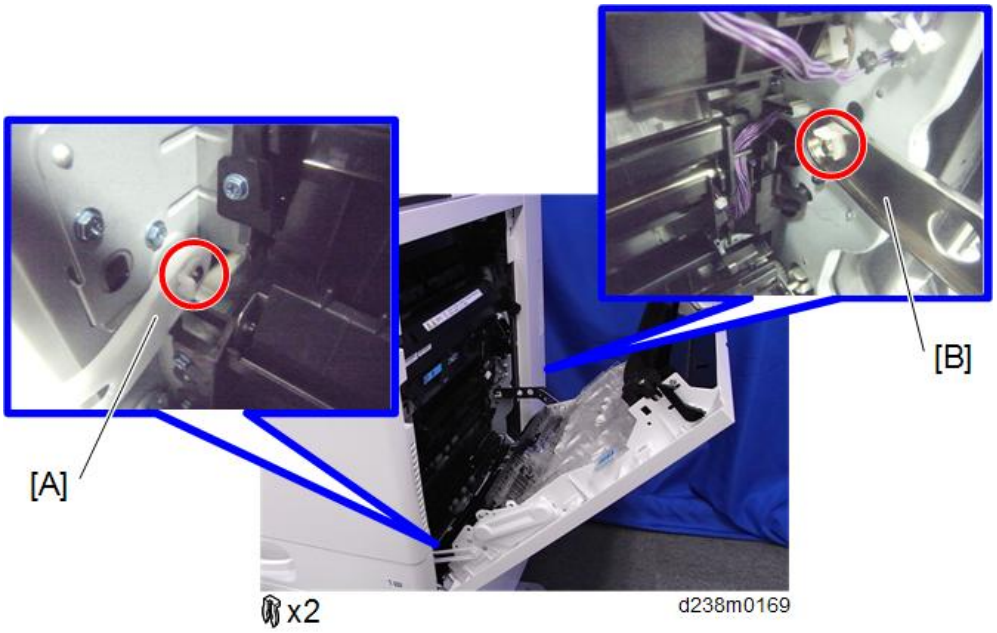
Bypass Tray Unit

Note

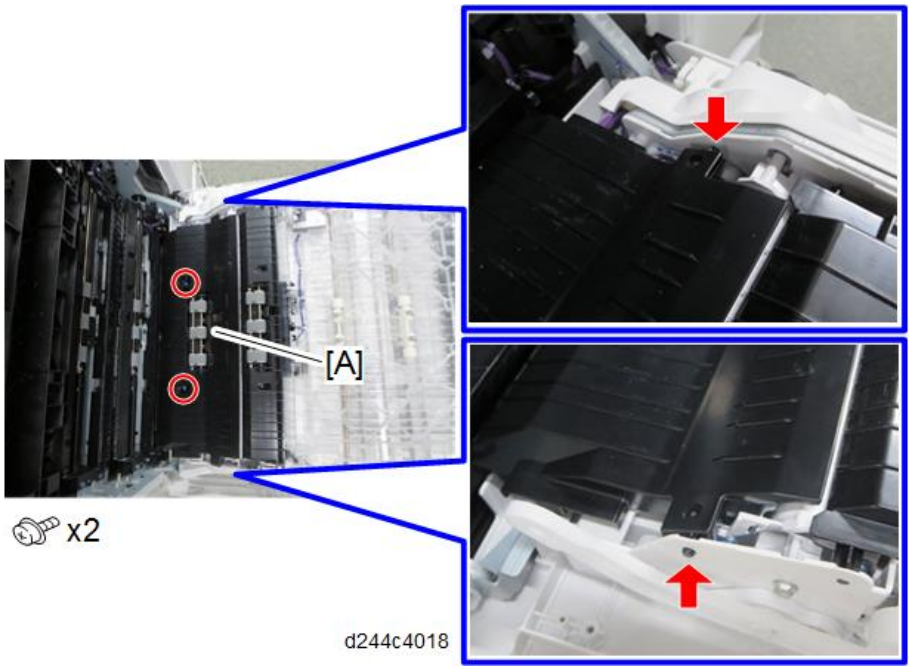
The colors of parts and decals may vary depending on the model.

Bypass Tray

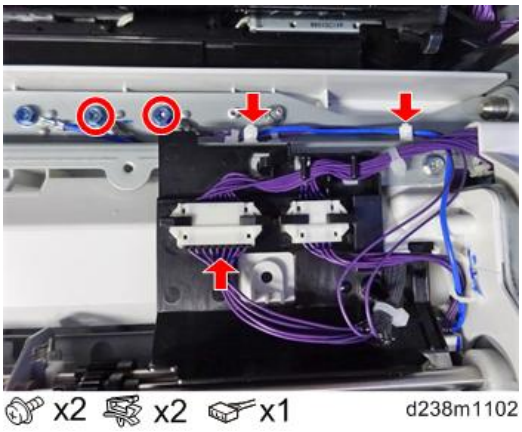
1. Open the right door.
2. Remove the arms [A] and [B].



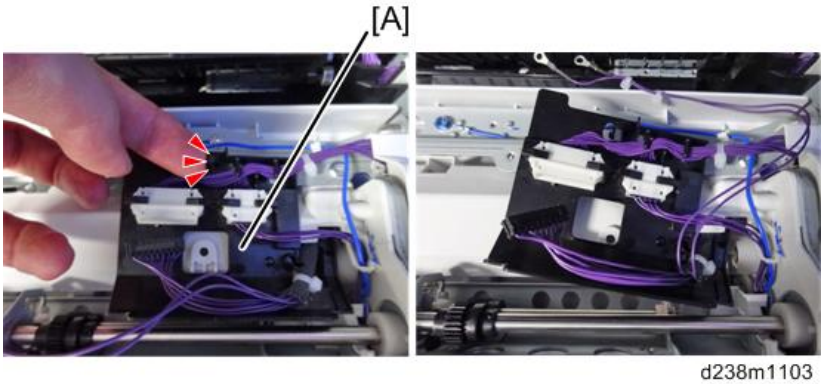
3. Open the right door wide. (Paper Feed Unit)
4. Remove the paper transport guide [A].



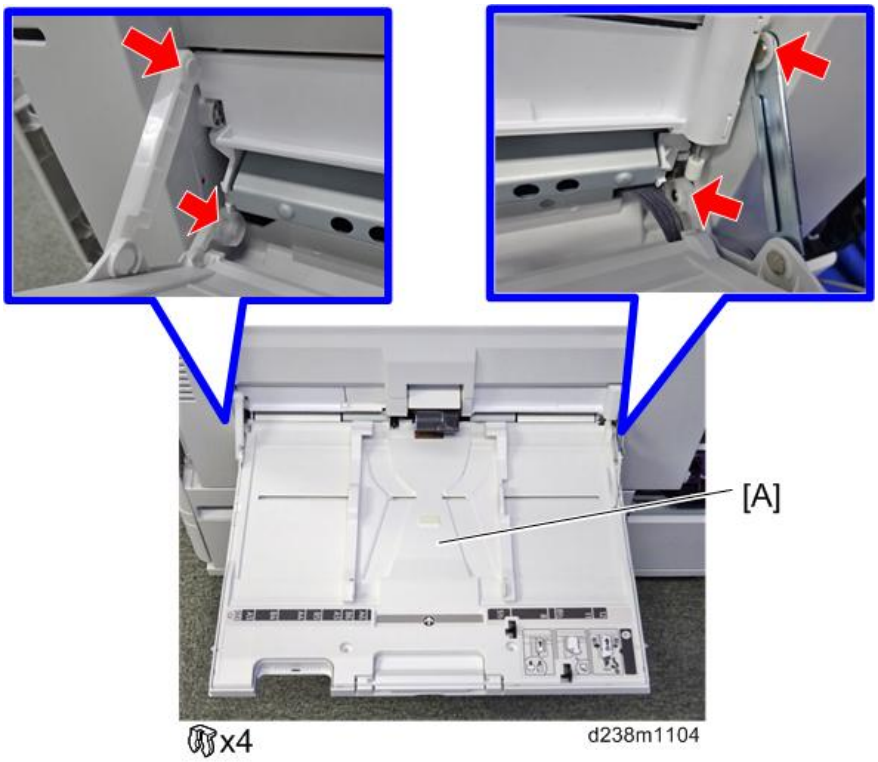
5. Disconnect harness and ground wires.



6. Release the tab and loosen the harness bracket [A].



7. Remove the bypass tray [A].



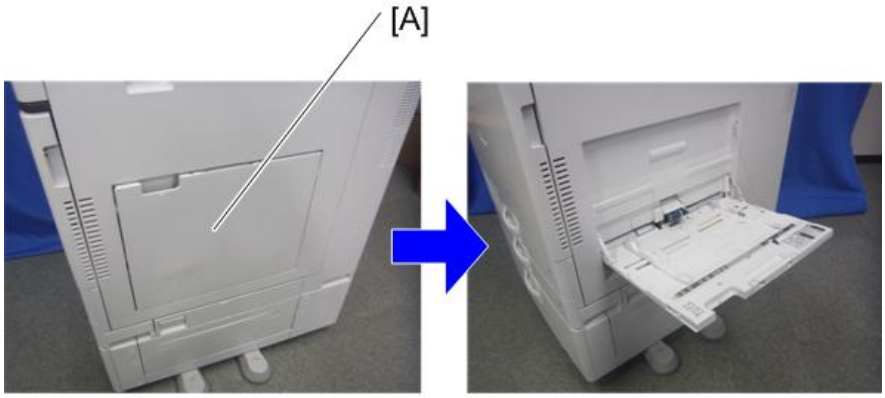
Note

- When attaching the bypass tray, pass the harness through the indicated position as shown.

d238m1116

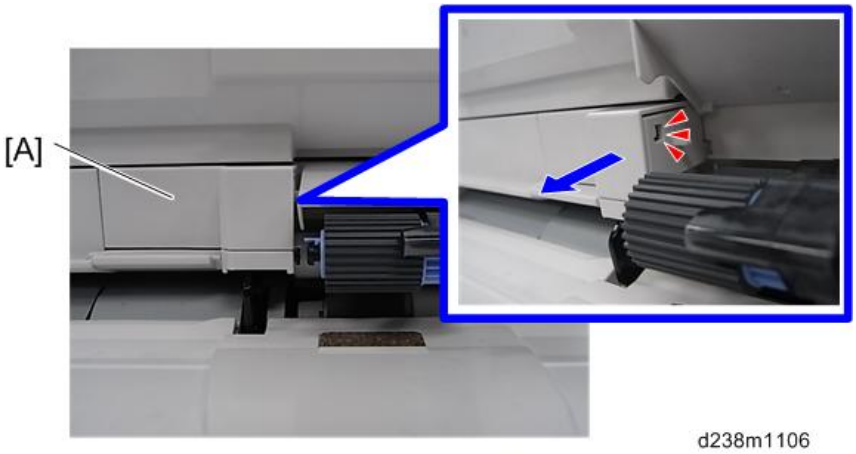
Bypass Paper End Sensor

1. Open the bypass tray [A].



d1462416

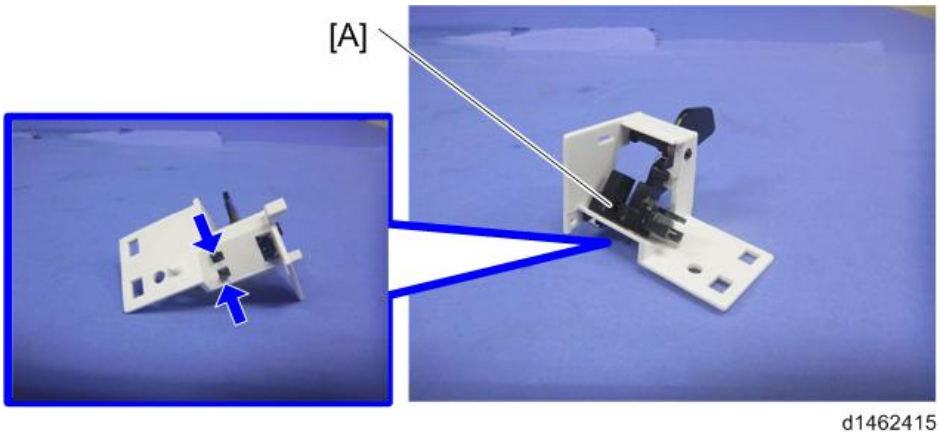
2. Remove the bypass paper end sensor cover [A].



d238m1106

3. Remove the bypass paper end sensor unit [A].

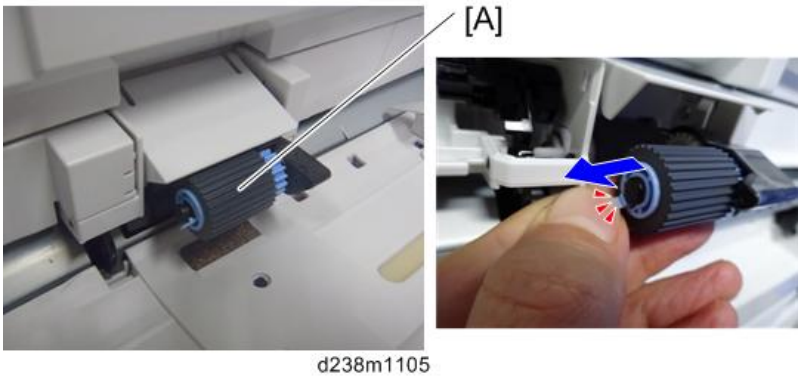
4. Remove the bypass paper end sensor [A].



Bypass Pick-up Roller

1. Open the bypass tray. (Bypass Tray)

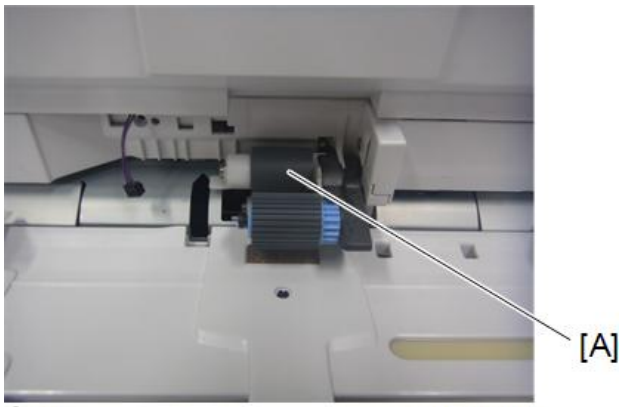
2. Remove the bypass pick-up roller [A].



Bypass Paper Feed Roller

1. Remove the paper end sensor. (Paper End Sensor)

2. Remove the bypass paper feed roller [A].

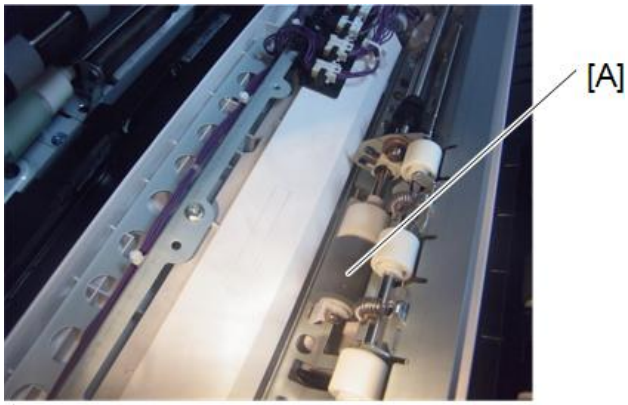


x1 d238m0167

Bypass Separation Roller/Torque Limiter

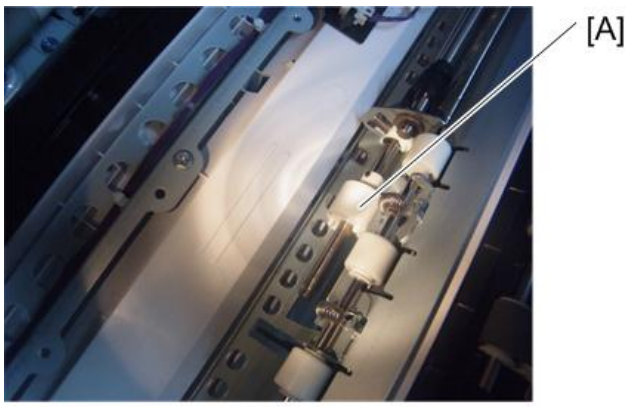
1. Remove the paper transport guide. (Bypass Tray)

2. Remove the bypass separation roller [A].



x1 d238m0168

3. Remove the torque limiter [A].

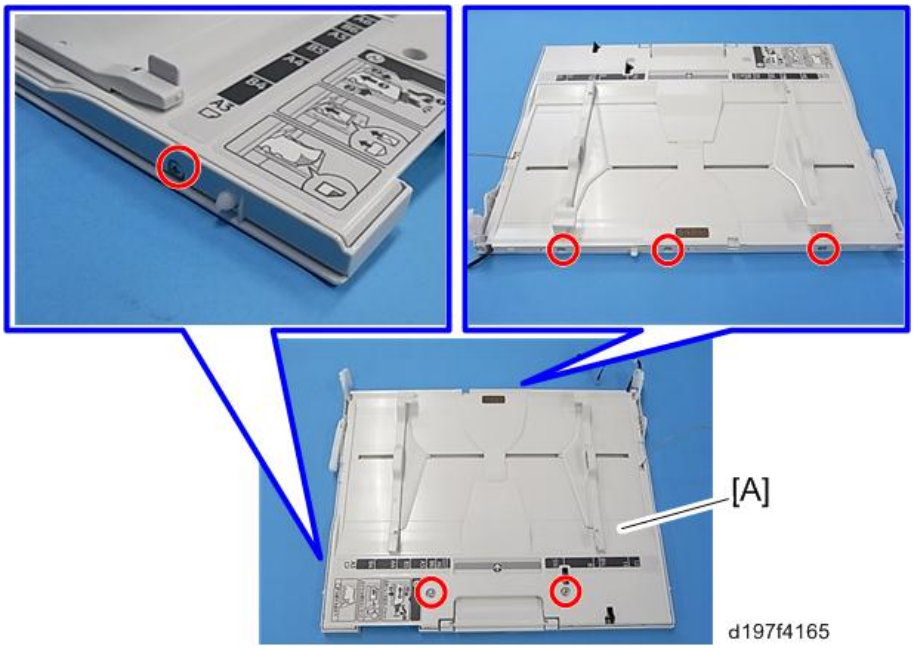


d1462420

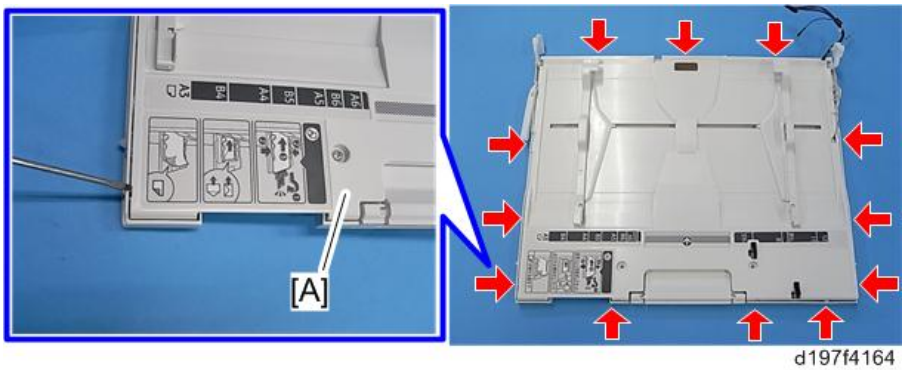
Bypass Width Sensor

1. Remove the bypass tray. (Bypass Tray)

2. Remove six screws on the bypass tray [A].

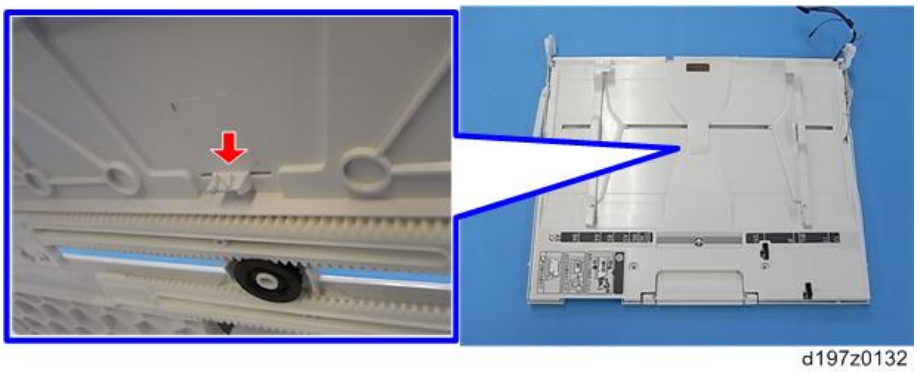


3. Release the hooks around the bypass tray [A].

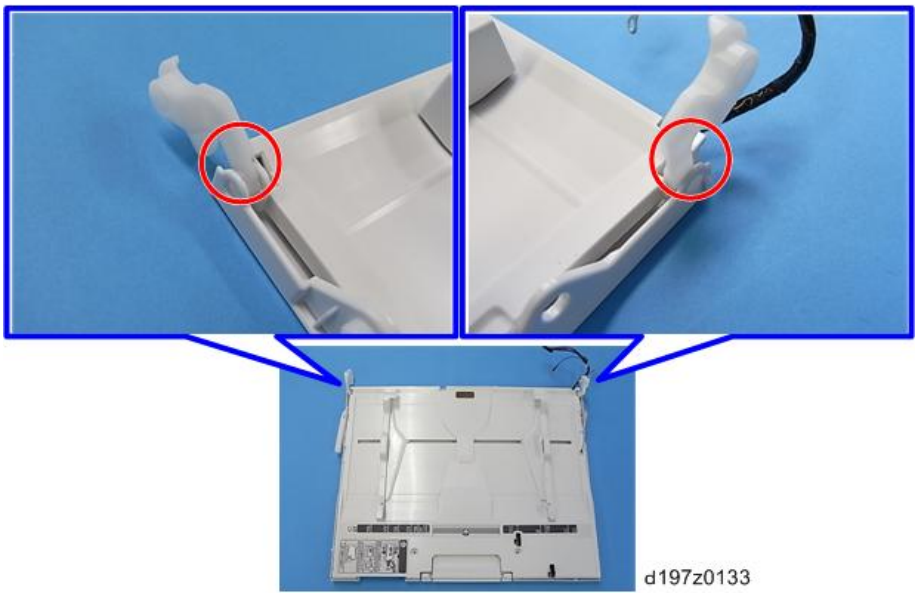


Note

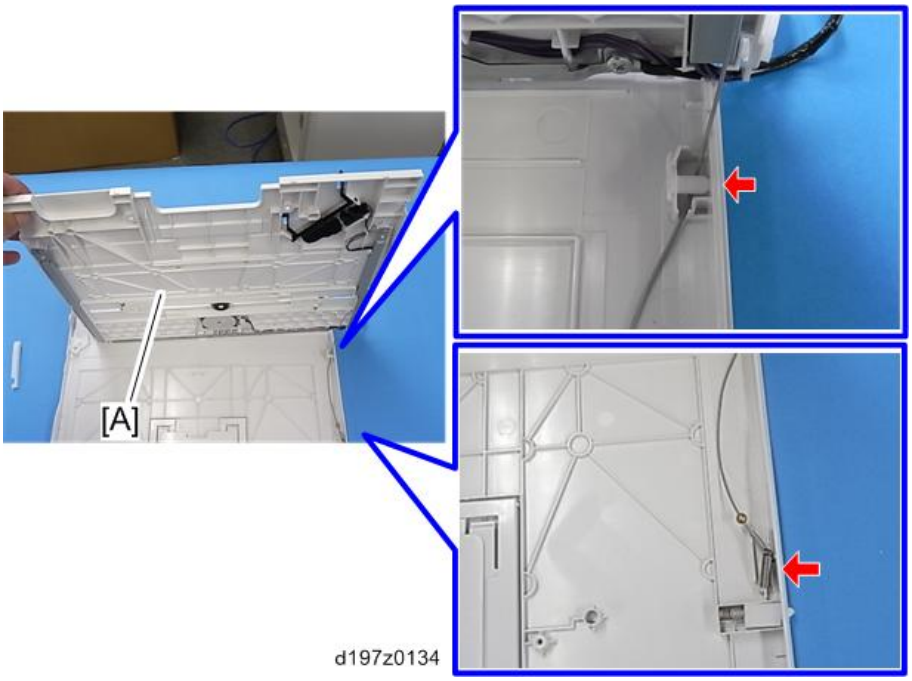
- There is a hook in the tray cover. Be careful not to damage it during removal or installation.



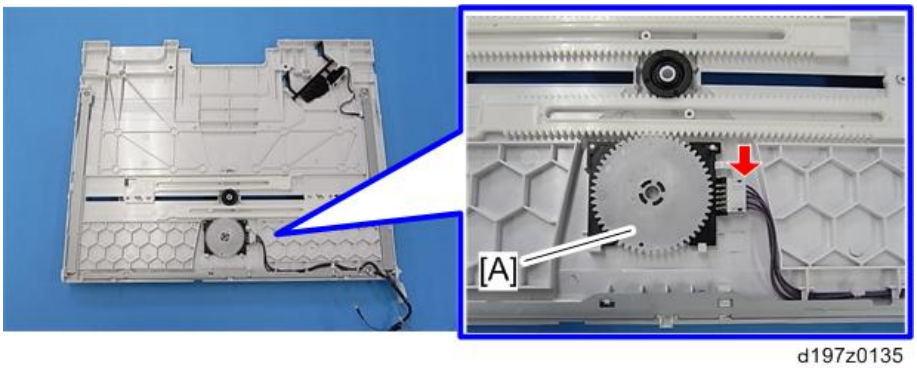
4. Release the links.



5. Remove the bypass tray upper cover [A] (pin x 1, x1).

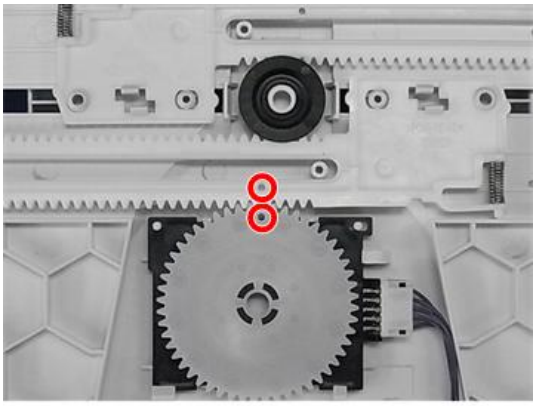


6. Remove the bypass width sensor [A] (×1, hook x2).



Note

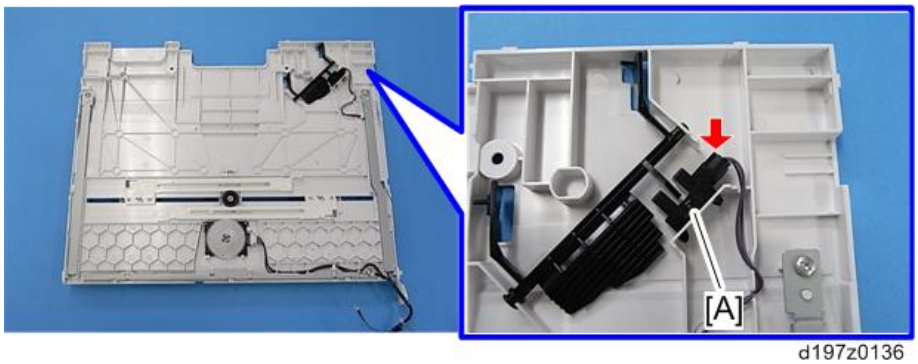
- When installing, the holes must align as shown below.



d197z0449

Bypass Length Sensor

1. Remove the bypass tray upper cover. (Bypass Width Sensor)
2. Remove the bypass length sensor [A] (☞ ×1, hooks).

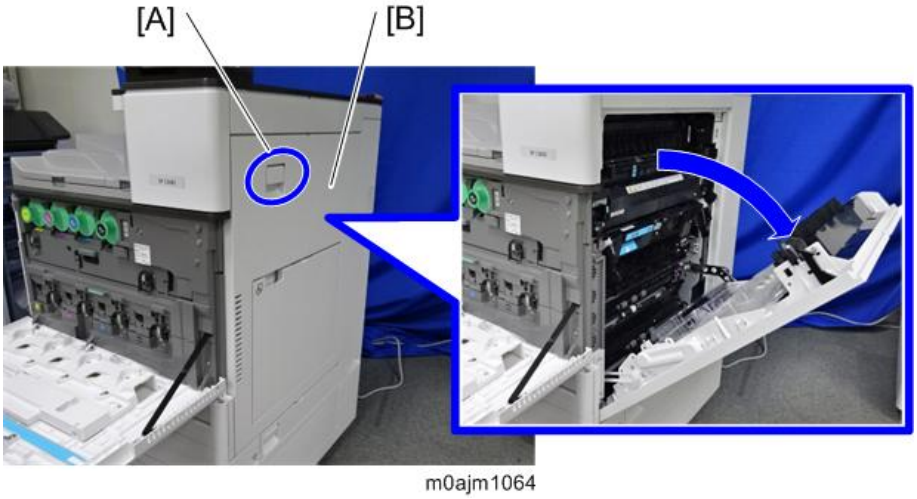


d197z0136

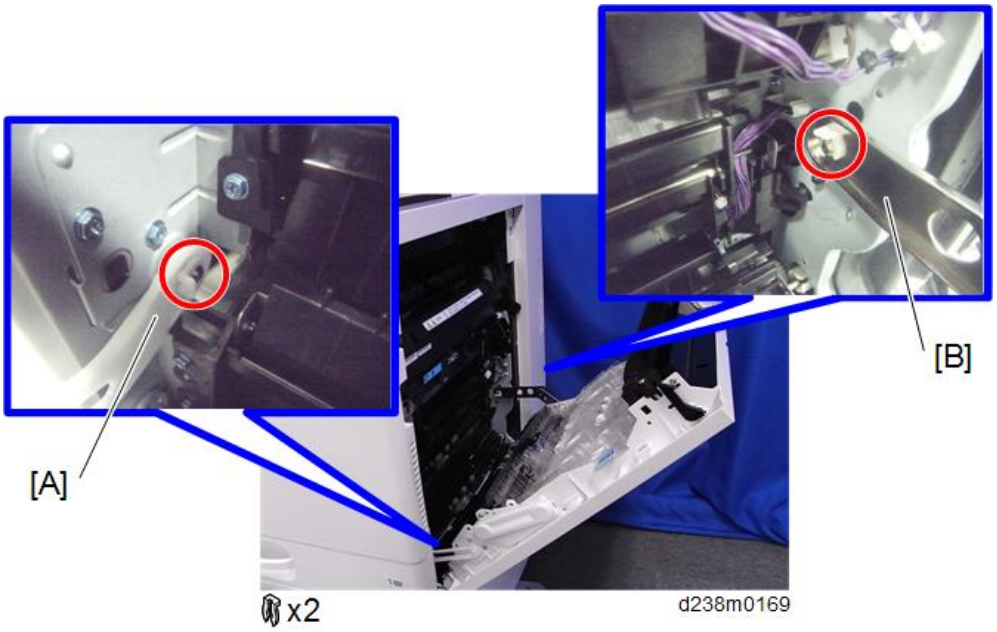
Duplex Unit

Duplex Unit

1. Unlock the lever [A], and then open the right door [B].

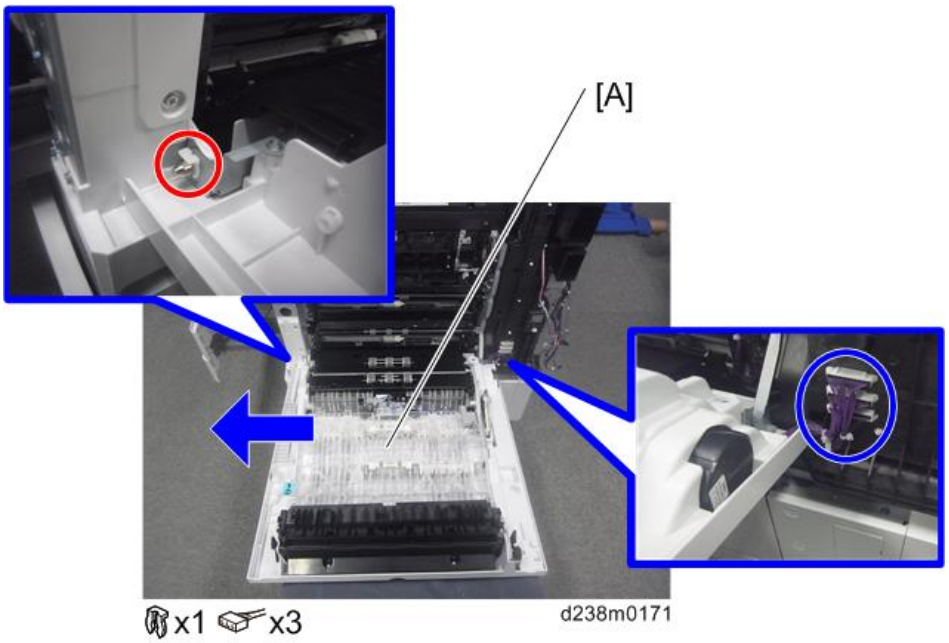


2. Release arms [A] [B].



3. Remove the right rear cover. (Right Rear Cover)
4. Remove the main power switch cover. (Main Power Switch Cover)

5. Remove the duplex unit [A].

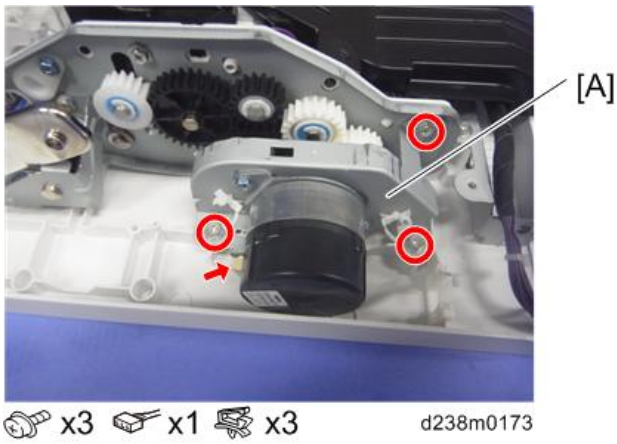


Duplex/Bypass Motor

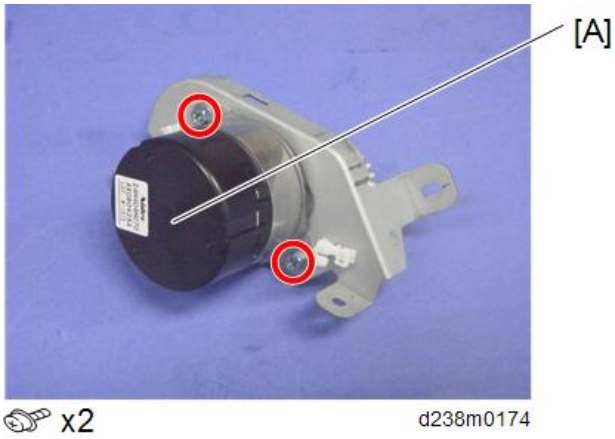
1. Remove the duplex unit. (Duplex Unit)

2. Remove the harness guide [A].

3. Remove the duplex/bypass motor unit [A]



4. Remove the duplex/bypass motor [A].

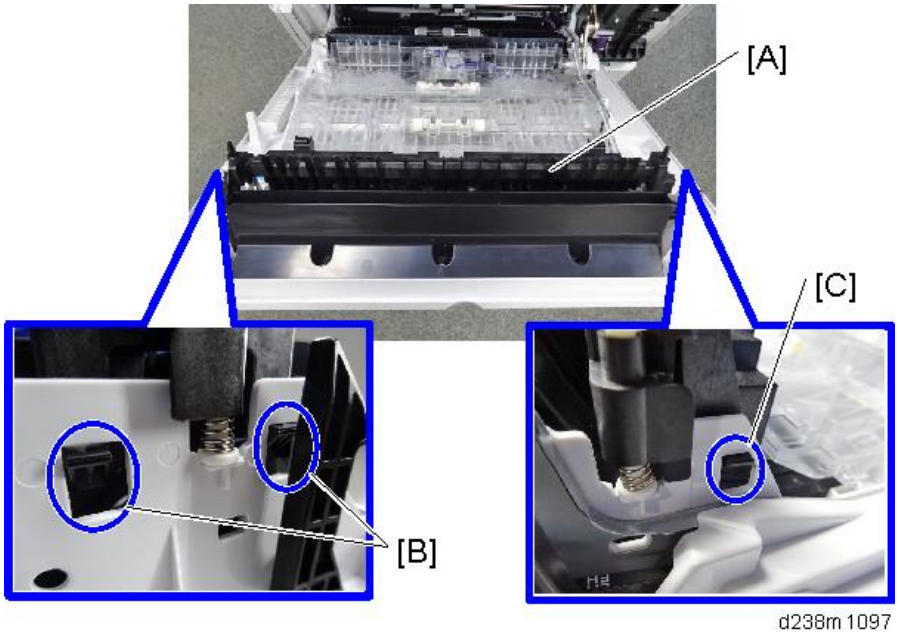


Duplex Entrance Sensor

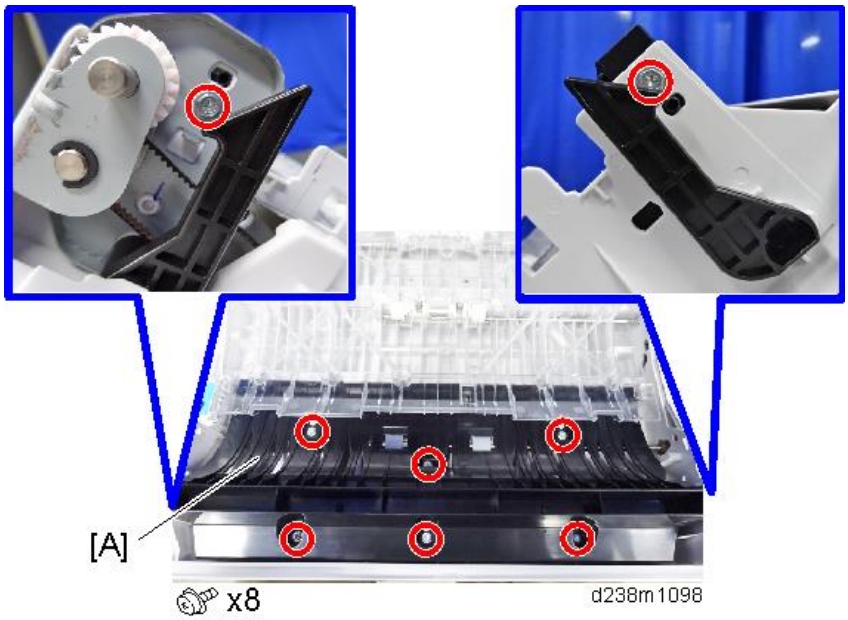
1. Remove two tabs, and remove the transport guide [A].

Note

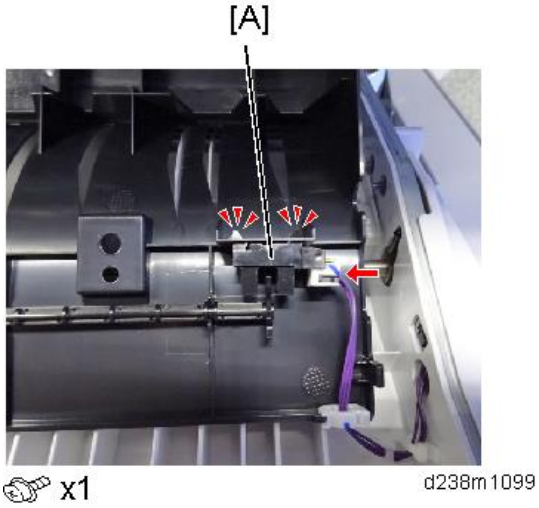
- Make sure to release the tab on the right [C] first.
- When you reattach this part, make sure to attach it from the tab on the left [B] first.



2. Remove the duplex entrance unit [A].



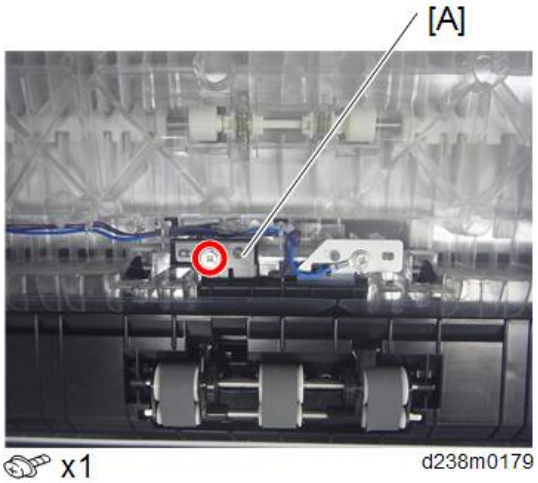
3. Remove the duplex entrance sensor unit [A].



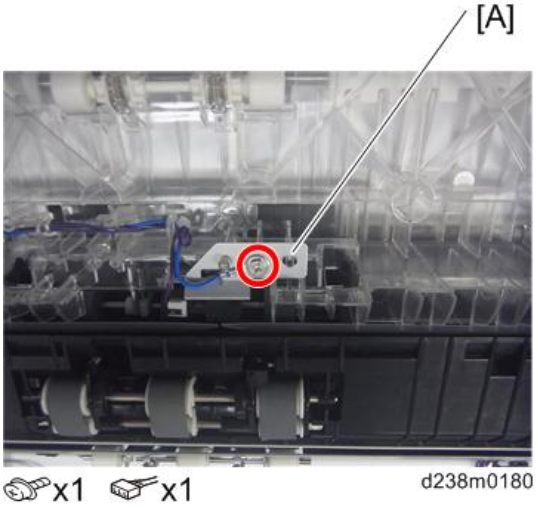
Duplex Exit Sensor

1. Remove the duplex unit. (Duplex Unit)

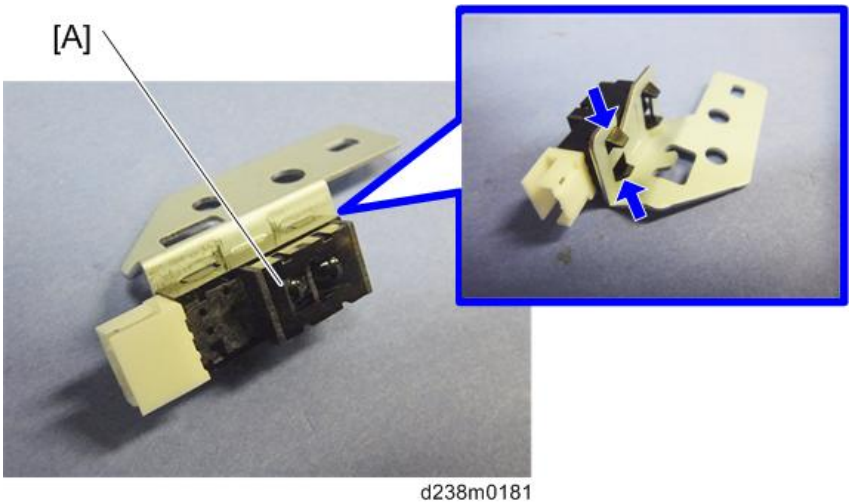
2. Remove the harness guide [A].



3. Remove the duplex exit sensor unit [A].



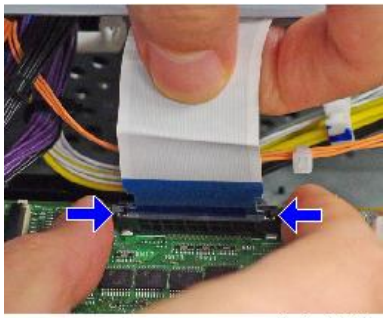
4. Remove the duplex exit sensor [A].



Electrical Components

⚠CAUTION

- Before doing any work, touch a metal object to discharge static electricity from the body. There is a possibility that the electrical components may malfunction due to static electricity.
- Disconnect the FFC while pressing the lock release levers on its sides.



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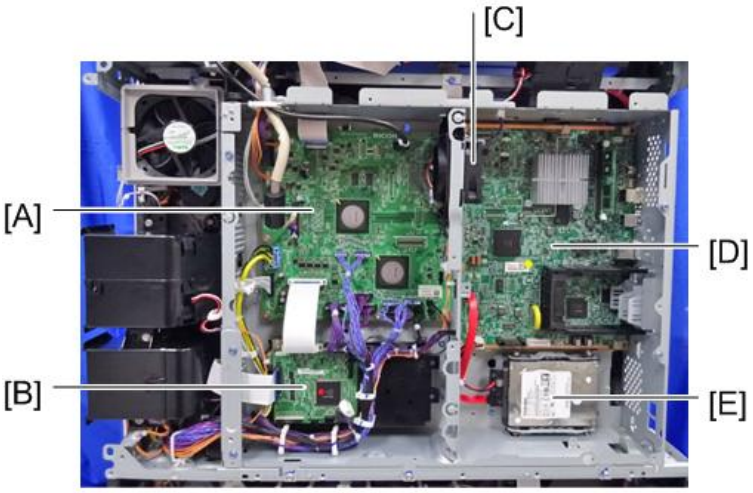
Overview

Printed Circuits/Parts inside the Controller Box



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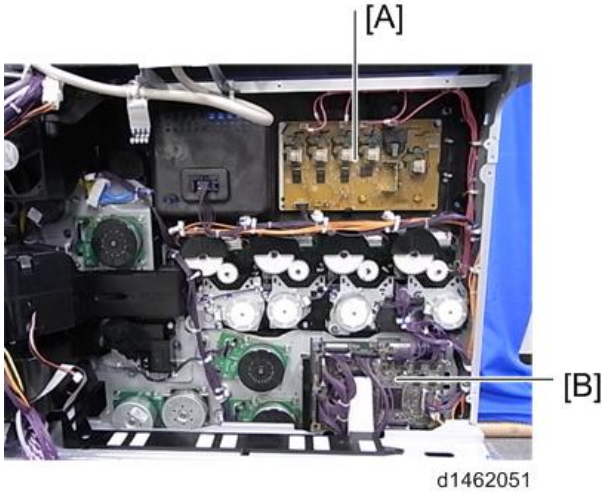
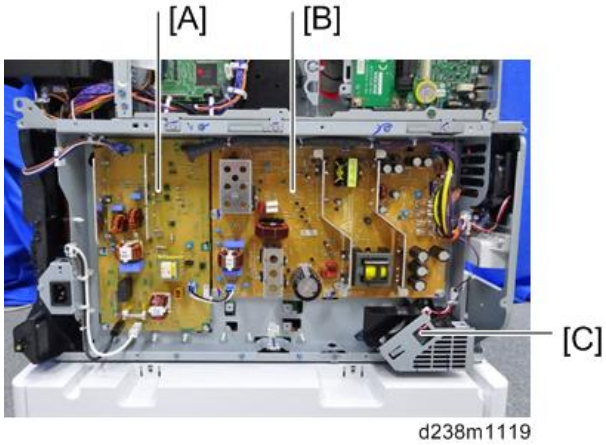
[A]	IPU
[B]	BCU
[C]	Controller Box Cooling Fan
[D]	Controller Board
[E]	HDD

Printed Circuits behind the Controller Box



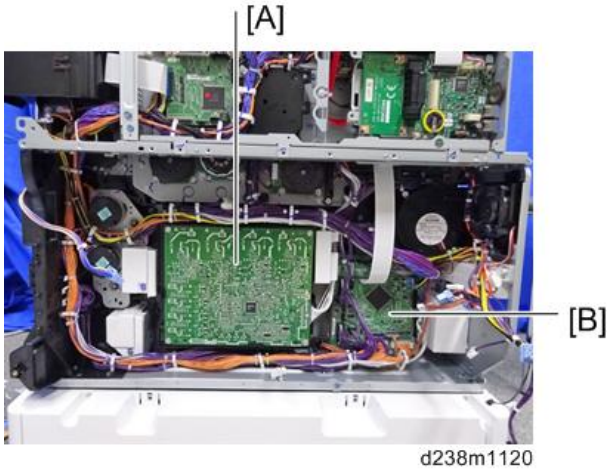
[A]	HVP_TTS
[B]	Imaging IOB

Printed Circuit/Parts inside the Power Box



[A]	PSU (AC controller board)
[B]	PSU (DC Power)
[C]	PSU Cooling Fan

Printed Circuits behind the Power Box

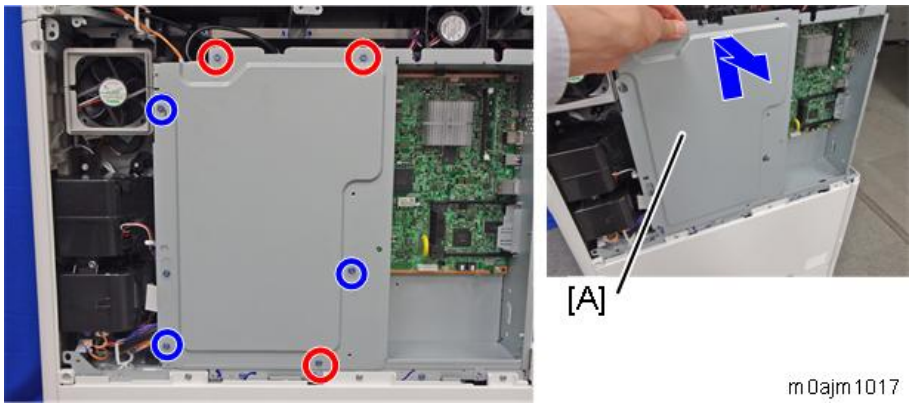


[A]	HVP_CB
[B]	Paper Transport IOB

Controller Box Cover

1. Remove the rear cover. (Rear Cover)
2. Remove the rear left cover. (Rear Left Cover)
3. Remove the controller box cover [A].

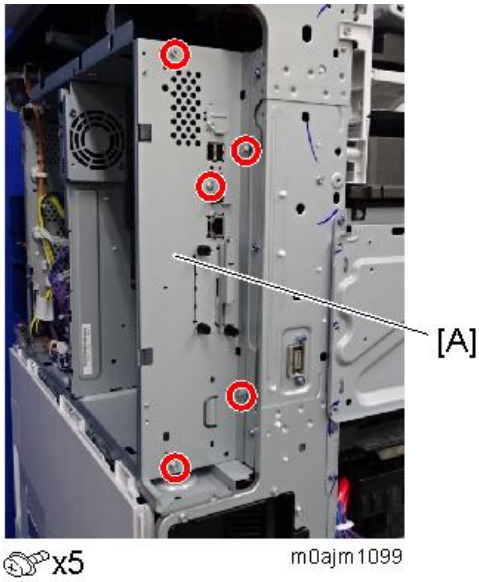
Red circles: Remove / Blue circles: Loosen



Controller Bracket

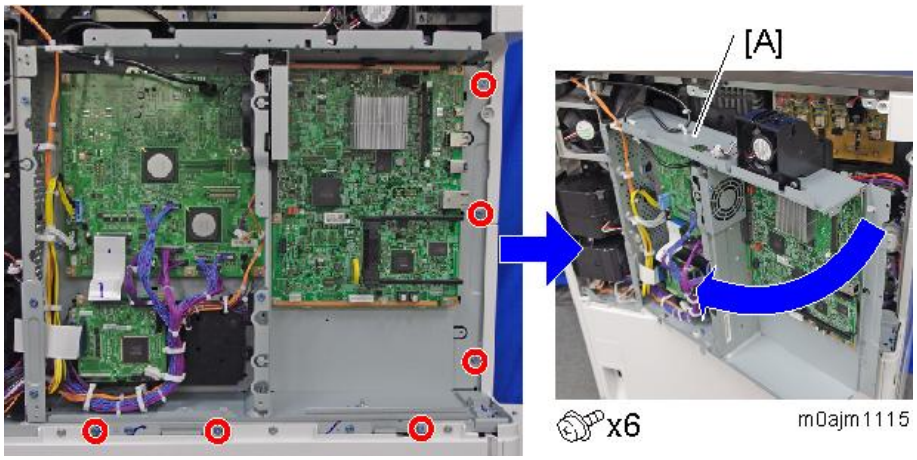
1. Remove the controller cover. (Controller Cover)

2. Remove the controller bracket [A].



Opening the Controller Box

1. Remove the controller cover. (Controller Cover)
2. Remove the rear cover. (Rear Cover)
3. Open the controller box [A].



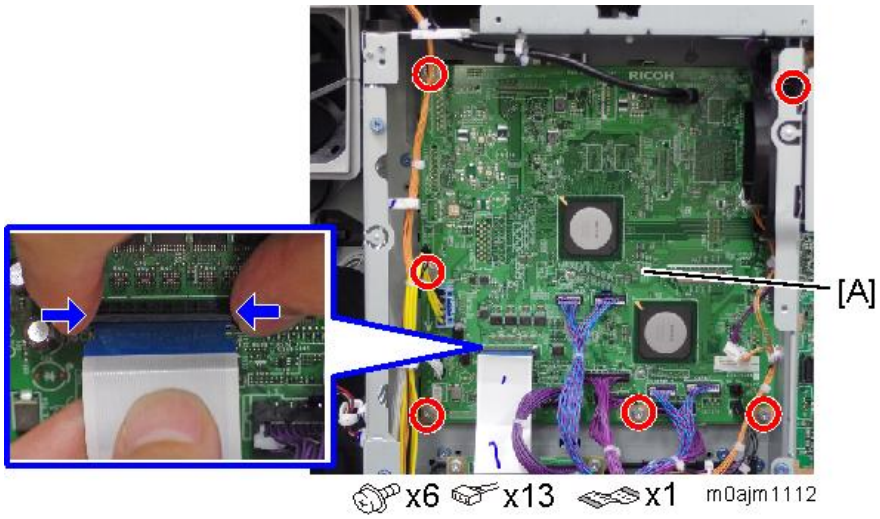
IPU

⚠CAUTION

- The FFC connector has a lock mechanism. Do not use force to pull it out.

1. Remove the controller box cover. (Controller Box Cover)
2. Remove the IPU [A].

   Disconnect the FFC while pressing the lock release levers on its sides.



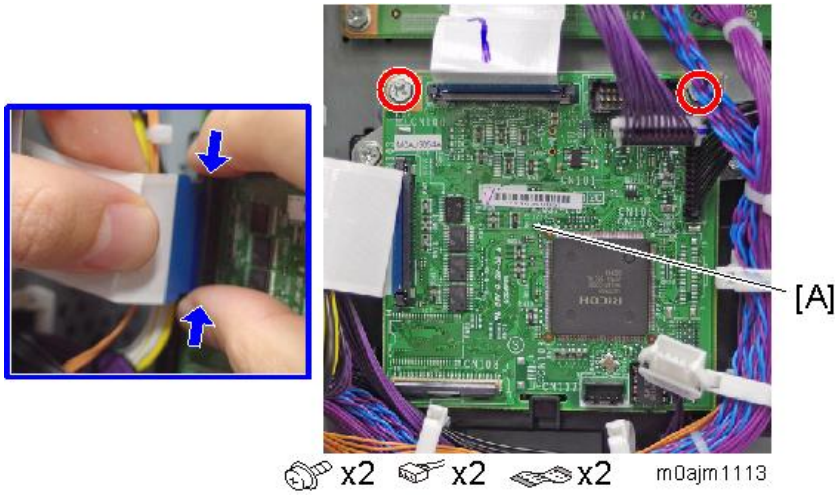
BCU

⚠CAUTION

- The FFC connector has a lock mechanism. Do not use force to pull it out.

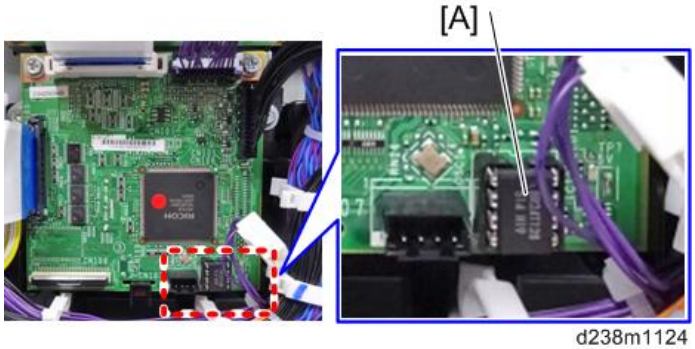
1. Remove the controller box cover. (Controller Box Cover)
2. Remove the BCU [A].

   Disconnect the FFCs while pressing the lock release levers on its sides. Disconnecting the FFC without releasing the lock may cause the FFC or connector to be damaged, resulting in an SC670 error.



When installing the new BCU

Remove the NVRAM (EEPROM) [A] from the old BCU. Then install it on the new BCU after you replace the BCU.



Replace the NVRAM (Replacing the NVRAM (EEPROM) on the BCU) if the NVRAM on the old BCU is defective.

Note

- Make sure you print out the SMC reports ("SP Mode Data" and "Logging Data") before you replace the NVRAM (EEPROM).

⚠CAUTION

- Keep NVRAMs (EEPROM) away from any objects that can cause static electricity. Static electricity can damage NVRAM data.
- Make sure the serial number is input in the machine for the NVRAM data with SP5-811-004, if not, SC995-001 occurs

Replacing the NVRAM (EEPROM) on the BCU

1. Make sure that you have the SMC report (factory settings). This report comes with the machine.
2. Turn OFF the machine, and then turn it back ON.

   Note

   If you do not reboot the machine, the latest settings may not be collected when the SMC is printed/exported.
3. Output all the SMC data using SP5-990-001 (SP Print Mode: All (Data List)), or download the SMC data to an SD card using SP5-992-001 (SP Text mode: ALL (Data List))
4. Turn OFF the main power switch.
5. Insert a blank SD card in SD slot #2, and then turn ON the main power switch.
6. Use SP5-824-001 to upload the NVRAM data from the BCU.
7. Turn off the main power switch and unplug the power cord.
8. Replace the NVRAM on the BCU with a new one.
9. Plug in, and then turn on the main power switch.

   Note

   - When the power is turned ON, SC195-00 appears, but continue with the following steps.
10. Select the destination setting. (SP5-131-001) (JPN: 0, NA: 1, EU/AA/TWN/CHN: 2)
11. Set the following SP, Machine Serial Set (SP5-811-001), Area Selection (SP5-807-001), and CPM Set (SP5-882-001).

    Note

    - For information on how to configure this SP, contact the supervisor in your branch office.

12. Turn off the machine, and then turn it back on.
13. Use SP5-801-002 "Memory Clear Engine".

Important

- After changing the EEPROM, Some SPs do not have appropriate initial values. Because of this, steps 10 to 12 are done.

14. Turn off the machine, and then turn it back on.
15. From the SD card where you saved the NV-RAM data in step 6, download the NV-RAM data (SP5-825-001).
16. Turn off the machine, and then remove the SD card from slot #2.
17. Turn on the main power switch.
18. Check the factory setting sheet and the SMC data printout from step 3, and set the user tool and SP settings so they are the same as before.
19. Do color calibration. (Color Registration and Color Calibration)

SP descriptions

- **SP5-811-004 (MachineSerial Set)**
  Displays/Enters serial number of BCU EEPROM.
- **SP5-131-001 (Paper Size Type Selection)**
  Sets the region setting for paper size/type.
  (0: Japan, 1: NA, 2: EU/AA/TWN/CHN)
- **SP5-811-001 (MachineSerial)**
  Displays machine serial number.
- **SP5-807-001 (Area Selection)**
  Sets the machine destination.
  (1: Japan, 2: NA, 3: EU, 4: Taiwan, 5: Asia, 6: China, 7: Korea)
- **SP5-801-002 (Memory Clear: Engine)**
  Clears non-volatile memory of engine.
- **SP5-824-001 (NV-RAM Data Upload)**
  Uploads the NVRAM data to an SD card.
- **SP5-825-001 (NV-RAM Data Download)**
  Downloads data from an SD card to the NVRAM in the machine.

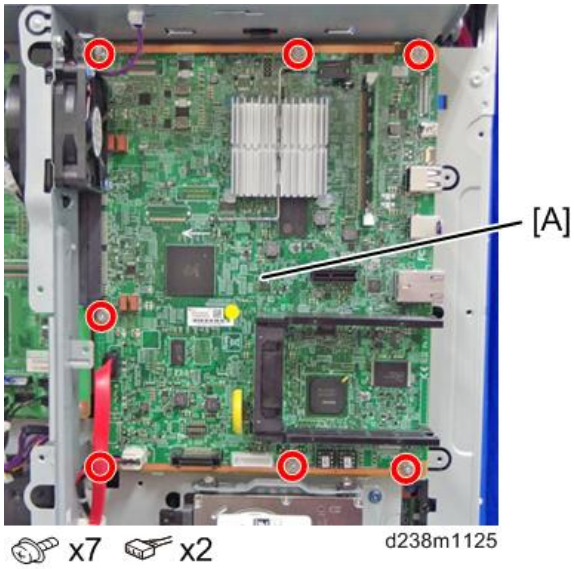
Controller Board

Note

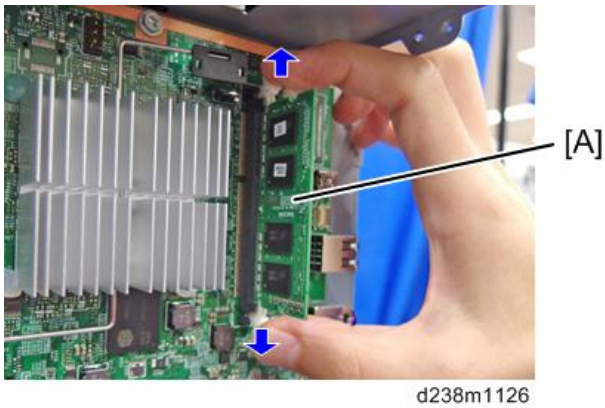
- Keep NVRAMs away from any objects that can cause static electricity. Static electricity can damage NVRAM data.

1. Remove the controller cover. (Controller Cover)
2. Remove the controller box cover. (Controller Box Cover)
3. Remove the controller bracket. (Controller Bracket)

4. Remove the controller board [A].



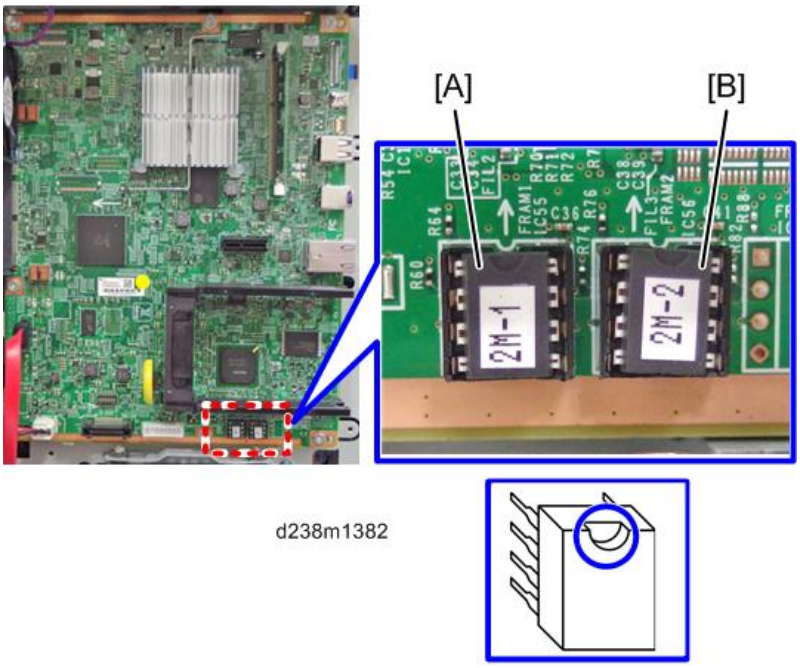
5. Release the lock levers, and remove the DIMM [A].



6. Remove the two used NVRAMs from the old controller board and install them on the new controller board.

⚠CAUTION

- Make sure that FRAM1 and FRAM2 are placed at the right position and orientation when attaching to the new board.
- Incorrect installation of the NVRAM will damage both the controller board and NVRAM.



	Position	Label on the board	Label on the NVRAM
[A]	Left	FRAM1	2M-1
[B]	Right	FRAM2	2M-2

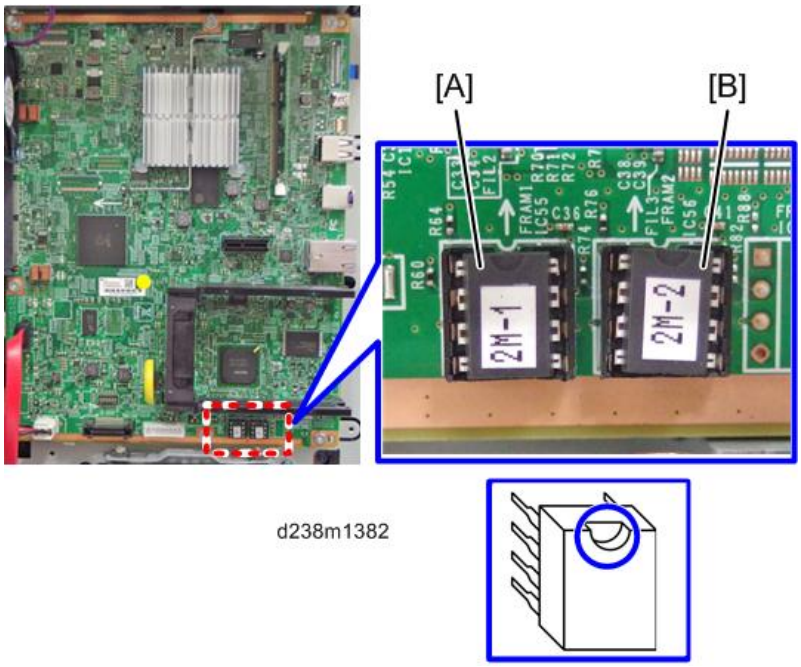
- When replacing the controller board, first, check which SDK applications have been installed. After replacing the controller board, re-install the SDK applications by following the installation instructions for each application.
- After reinstalling the SDK applications, print the SMC (SP-5-990-024/025 (SMC: SDK/Application Info)). Then open the proximity sensor cover. Store the SMC sheet and the SD card(s) that was used to install the SDK application(s).

Replacing the NVRAMs on the Controller Board

⚠CAUTION

- Referring to the following procedure, be sure that there are no mistakes in the mounting position and orientation of the NVRAMs.
  Incorrect installation of the NVRAM will damage both the controller board and NVRAM.
- SC195 (Machine serial number error) will be displayed if you forget to attach the NVRAM.
- Passwords for the Supervisor and Administrator 1 will be discarded later in this procedure.
- Installing a new NVRAM initializes SPs and issues an SC. Reset the SC with the procedure below.

Mounting position and orientation of the NVRAMs



	Position	Label on the board	Label on the NVRAM
[A]	Left	FRAM1	2M-1
[B]	Right	FRAM2	2M-2

1. Make sure that you have the SMC report (factory settings). This report comes with the machine.
2. Turn OFF the machine, and then turn it back ON.

   Note

   If you do not reboot the machine, the latest settings may not be collected when the SMC is printed/exported.
3. Output all the SMC data using SP5-990-001 (SP Print Mode: All (Data List)), or download the SMC data to an SD card using SP5-992-001 (SP Text mode: ALL (Data List))
4. Turn the main power switch OFF.
5. Insert an SD card into Slot 2 and turn the main power switch ON.
6. Upload the NV-RAM data on the controller board to the SD card using SP5-824-001 (NV-RAM Data Upload).
7. Make sure that the customer has backed up their Address Book data. If they have not, save the Address Book data to an SD card using SP5-846-051 (Backup All Addr Book).

   Important

   - The address data stored in the machine will be discarded later during this procedure. So be sure to obtain a backup of the customer's address book data.
   - Note that the counters for the user will be reset when doing the backup/restore of the address book data.
   - If they have a backup of the address book data, use their own backup data for restoring. This is because there is a risk that the data cannot be backed up properly depending on the NV-RAM condition.
8. Turn the power OFF and unplug the power supply cord.
9. Push the power switch ON again to discharge the residual charge.

10. Replace the NV-RAM with a brand-new one.

11. Turn the power ON with the SD card to which the NV-RAM data has been uploaded in Slot 2.

Important

After the power ON, SC870 occurs and address book data is cleared.

12. Download the NV-RAM data stored in the SD card to the brand-new NV-RAM using SP5-825-001 (NV-RAM Data Download).

Note

- The download will take a couple of minutes.

13. Turn the power OFF and remove the SD card from slot 2.

14. Turn the power ON.

The screen "Program/Change Administrator" will be displayed in the language that is the same language as the time when the data was uploaded to the SD card in step 6.

15. If the security functions (e.g. Stored file encryption/ Auto Erase Memory Setting) were applied, set the functions again.

16. Ask the customer to restore their address book. Or restore the address book data using SP5-846-052 (UCS Setting: Restore All Addr Book), and ask the customer to ensure the address book data has been restored properly.

Important

- If you obtained the backup of the customer's address book data in step 7, delete the backup immediately after the NV-RAM replacement to avoid accidentally taking out the customer's data.

17. Output all the SMC data with SP5-990-001 and make sure all the SP/UP settings except for counter information are properly restored, by checking the SMC data obtained in step 3.

Note

- The counters will be reset.

18. If the setting is different from the original setting after the replacement of the NVRAM, then set it again to the original setting.

19. Execute the process control (SP3-011-001).

20. Execute the color calibration. (Color Registration and Color Calibration)

21. Cycle the power OFF/ON.

Important

- If you cannot execute SP5-824-001 or SP5-825-001 for some reason, try all the following things.
  - Check the changed SP value on the SMC which was output in step 3 and set it manually. Especially, ensure that the values of the following SPs are same as the setting before the replacement.
  - a. SP5-045-001 (Accounting counter: Counter Method)
  - b. SP5-302-002 (Set Time: Time Difference)
- Because the PM counters have been reset during NV-RAM replacement, it is necessary to replace all the PM parts for proper PM management.

Note

- If a message tells you need a SD card to restore displays after the NV-RAM replacement, create a "SD card for restoration" and restore with the SD card.

SP descriptions

- **5-846-051 (UCS Setting: Backup All Addr Book)**
  Uploads all directory information to the SD card.
- **SP5-748-201 (OpePanel Setting: Cheetah Panel Connect Setting)**
  0: OFF
  1: ON
- **SP5-824-001 (NV-RAM Data Upload)**
  Uploads the NVRAM data to an SD card.
- **SP5-825-001 (NV-RAM Data Download)**
  Downloads data from an SD card to the NVRAM in the machine.
- **SP5-846-052 (UCS Setting: Restore All Addr Book)**
  Downloads all directory information from the SD card.
- **SP3-011-001 (Manual ProCon :Exe: Normal ProCon)**
  Executes Process control.
- **SP5-045-001 (Accounting counter: Counter Method)**
  Sets the counter methods as follows; Developments, Prints or Coverage.
- **SP5-302-002 (Set Time: Time Difference)**
  Adjusts the RTC (real time clock) time setting for the local time zone.
  Examples: For Japan (+9 GMT), enter 540 (9 hours x 60 min.)
  Japan: +540 (Tokyo)
  NA: -300 (New York)
  EU: + 60 (Paris)
  CHN: +480 (Beijing)
  TWN: +480 (Taipei)
  AA: +480 (Hong Kong)
  KO: +540 (Korea)

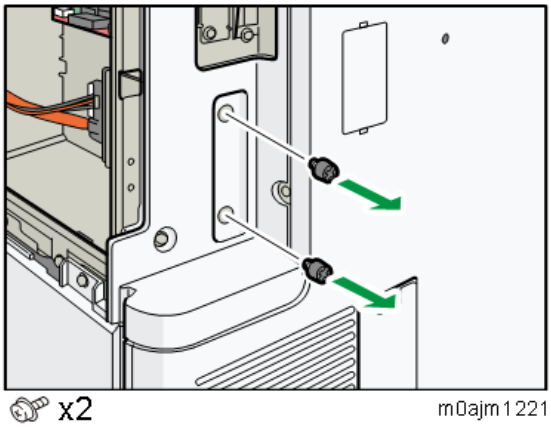
HDD

Note

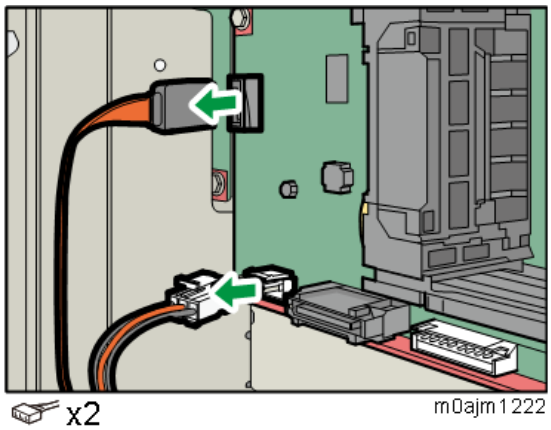
- Before replacing the HDD, copy the address book data to an SD card with SP5846-051 if possible.
- If the customer is using the Data Overwrite Security, the Data Encryption feature or OCR Scanned PDF, these applications must be installed again.

1. Remove the rear right cover. (Rear Left Cover)

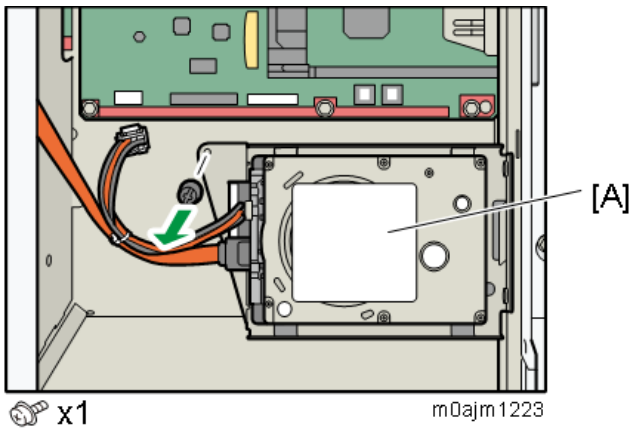
2. Remove two screws on the controller cover.



3. Disconnect two connectors.



4. Remove the HDD [A].



What to do After Replacing the HDD

1. Run SP5-832-001, to initialize the hard disk.

   Even if you use an HDD that is already formatted, it is recommended that you re-initialize.

2. Run SP5-846-052, to copy the address book from the SD card to the HDD.
3. Turn off the machine, and then turn it back on.

SP descriptions

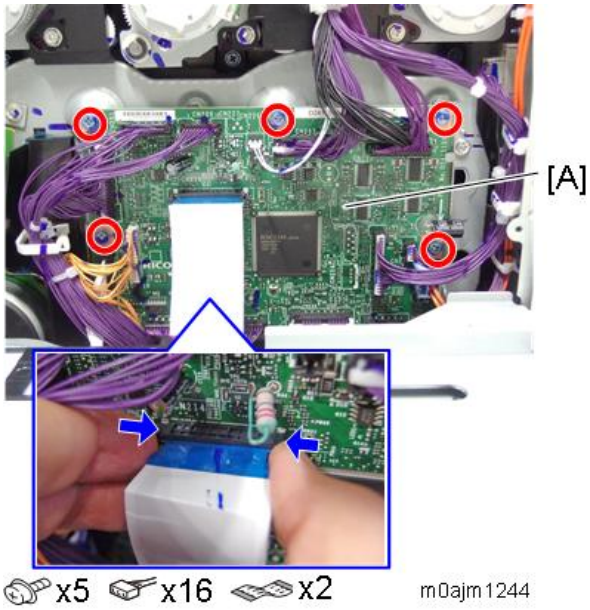
- **SP5-832-001 (HDD Formatting: HDD Formatting (ALL))**

  Initializes the hard disk.

- **SP5-846-052 (UCS Setting: Restore All Addr Book)**
  Downloads all directory information from the SD card.

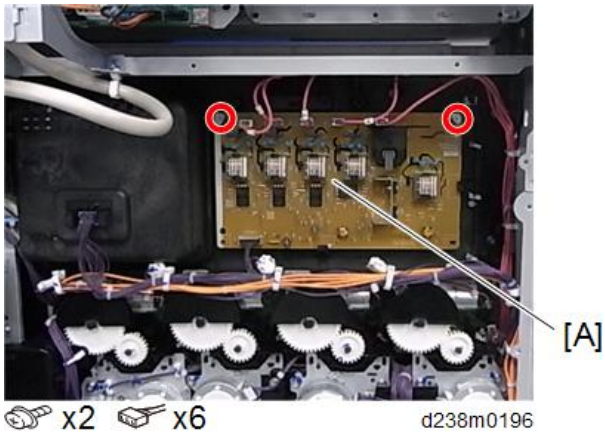
Imaging IOB

1. Open the controller box. (Opening the Controller Box)
2. Remove the imaging IOB [A].
   Disconnect the FFC while pressing the lock release levers on its sides. Disconnecting the FFC without releasing the lock may cause the FFC or connector to be damaged, resulting in an SC670 error.



HVP

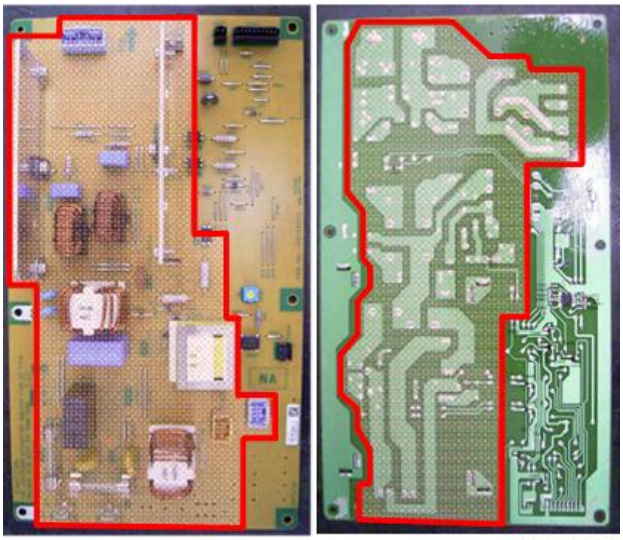
1. Open the controller box. (Opening the Controller Box)
2. Remove the HVP_TTS [A].



PSU (AC Controller Board)

⚠CAUTION

- **NEVERtouch** the areas outlined in red in the photos below. This is to prevent electric shock caused by residual charge.
- A residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months, even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.
- The procedure to discharge residual charge from the machine by unplugging the power cord from the AC wall outlet and pressing the main power switch works only for the DC circuits on this board. Residual charge remains in the AC circuits.



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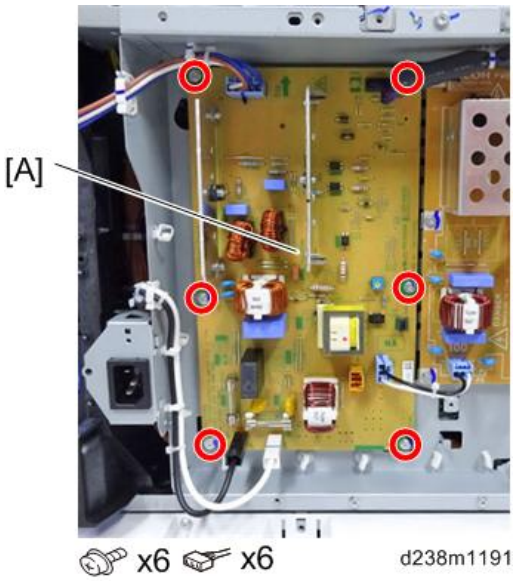
1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the PSU (AC Controller Board) [A].

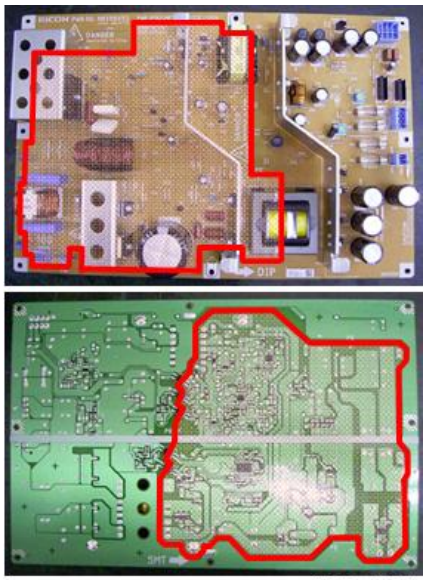
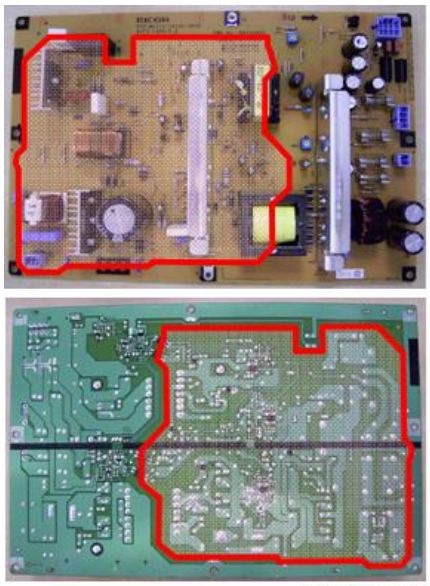


d238m1191

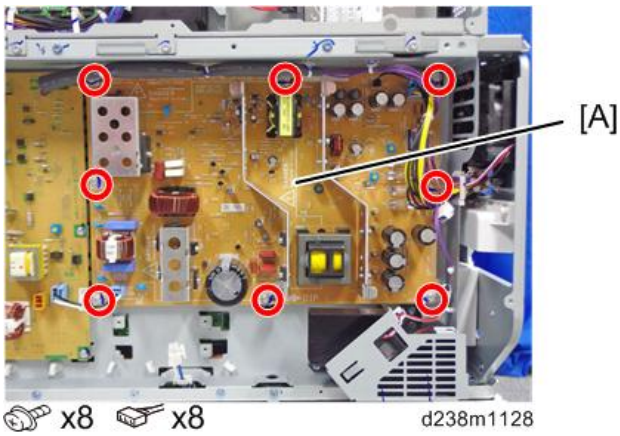
PSU (DC Power)

⚠CAUTION

- **NEVERtouch** the areas outlined in red in the photos below. This is to prevent electric shock caused by residual charge.
- A residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months, even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.
- The procedure to discharge residual charge from the machine by unplugging the power cord from the AC wall outlet and pressing the main power switch works only for the DC circuits on this board. Residual charge remains in the AC circuits.

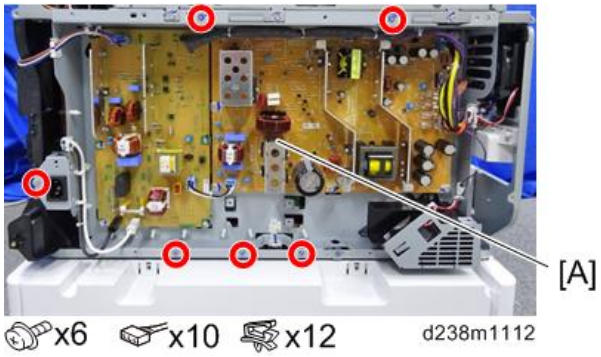
100V	200V
 d238m1194	 d238m1195

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the PSU (DC Power) [A].



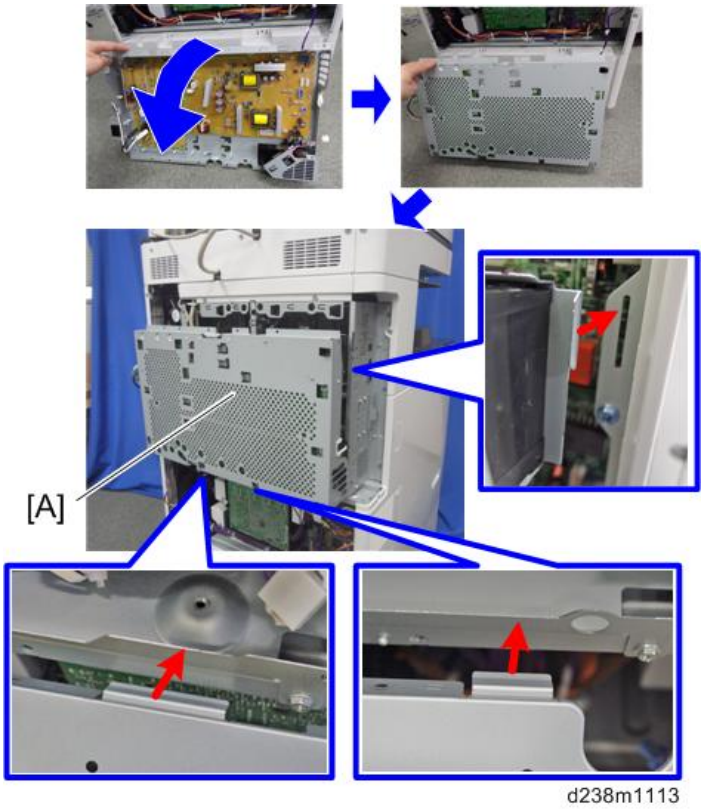
Paper Transport IOB

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the power supply box [A] (x6, Among them, tapping screw x1).

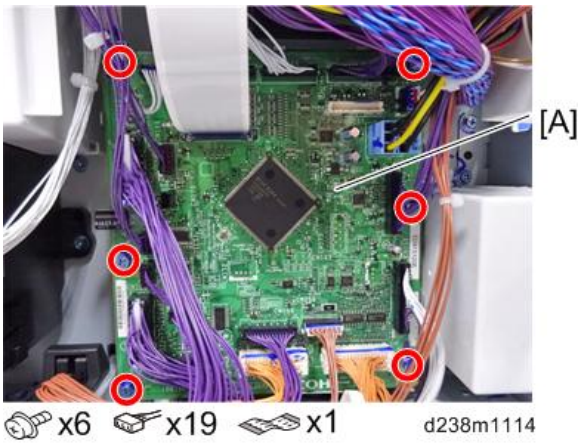


Note

- You can hang the power box [A] on the machine by using 3 tabs.



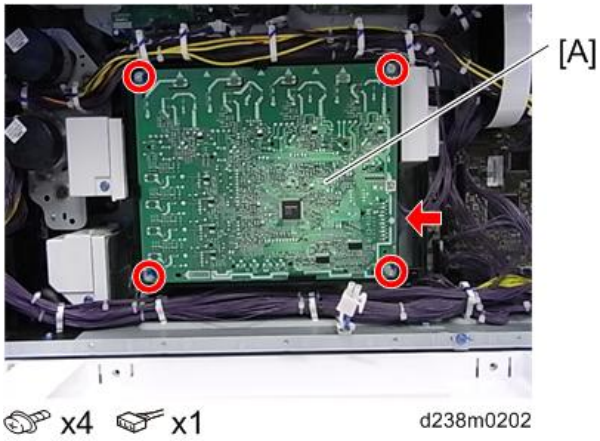
3. Remove the paper transport IOB [A].



HVP-CB

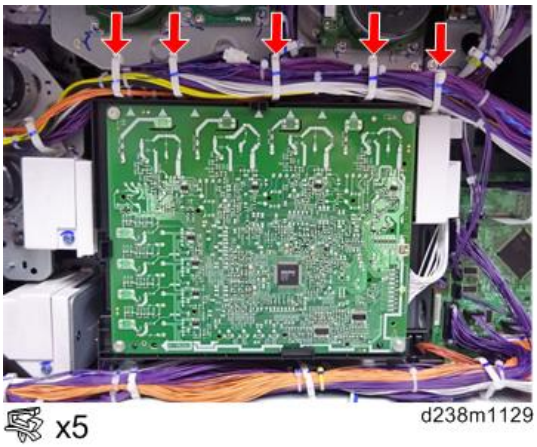
1. Remove the power supply box. (Paper Transport IOB)

2. Remove the HVP-CB [A].

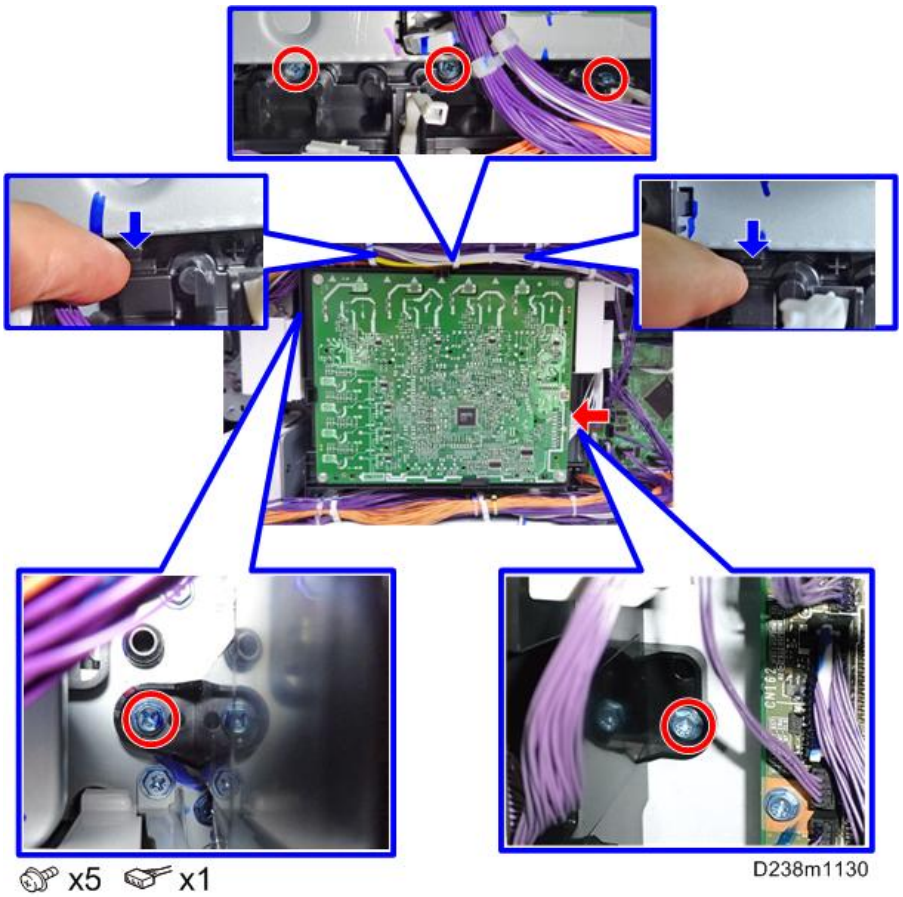


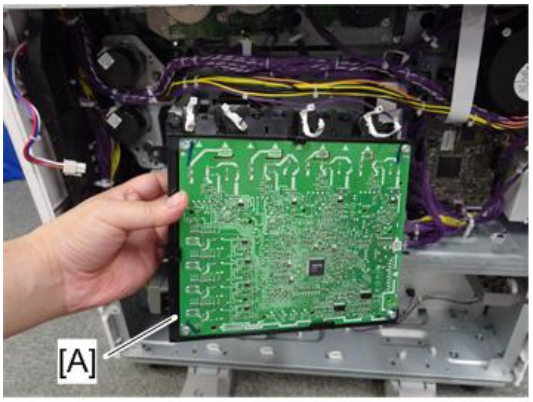
HVP-CB with Bracket

1. Release the 5 clamps.



2. Remove the HVP-CB with bracket [A] (Tab x2)





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Fans/Filters

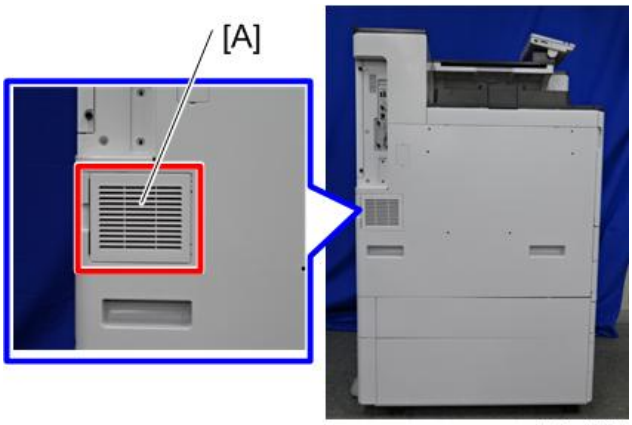
Ozone filter/Dust filter

What to do Before Replacing the Dust Filter

Before replacing the dust filter, set SP3-701-132 to "1" and switch the power OFF. Then replace the Dust filter and switch the power ON.

Replacement

1. Pull out the ozone filter and dust filter box. [A].



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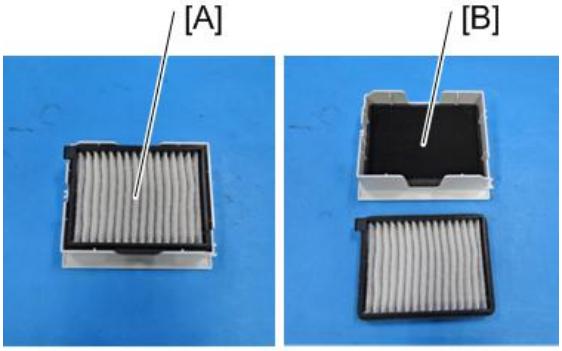
2. Remove the ozone filter [A] and dust filter [B].



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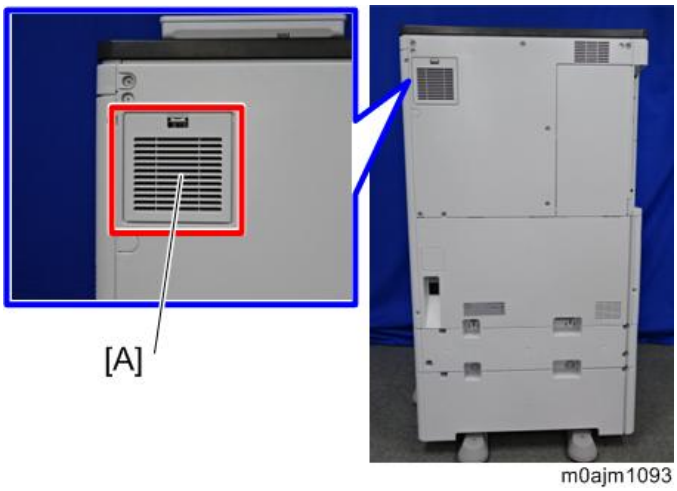
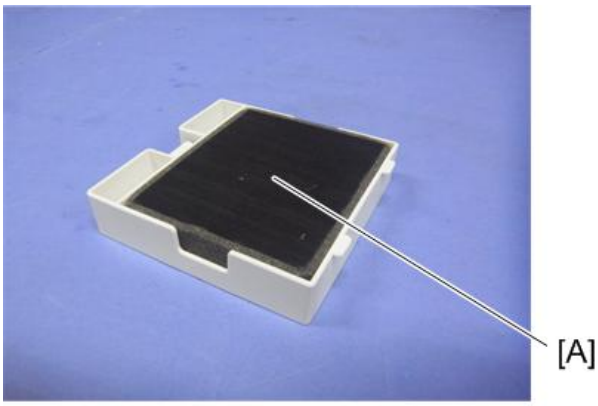
Deodorization Filter

1. Remove the deodorization filter box [A].



m0ajm1093

2. Remove the deodorization filter [A].



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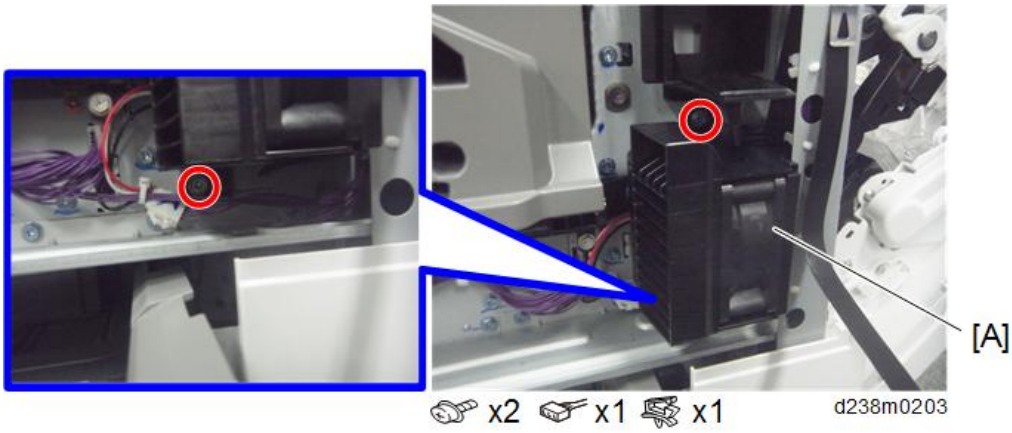
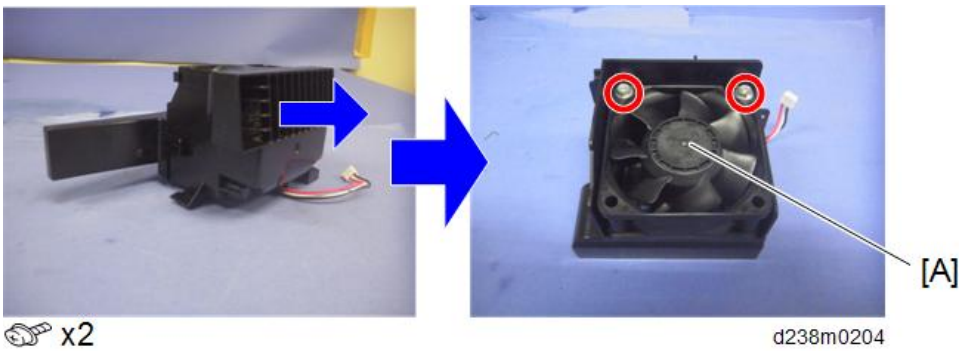
Development Intake Fan

1. Remove the inner lower cover. (Inner Lower Cover)
2. Remove the development intake fan unit [A].



d238m0203

3. Remove the development intake fan [A].

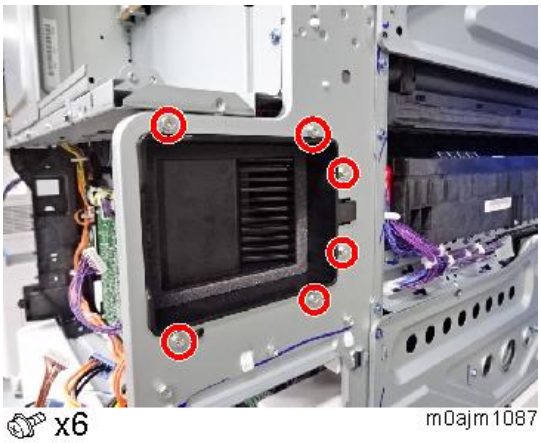


Ozone Exhaust Fan

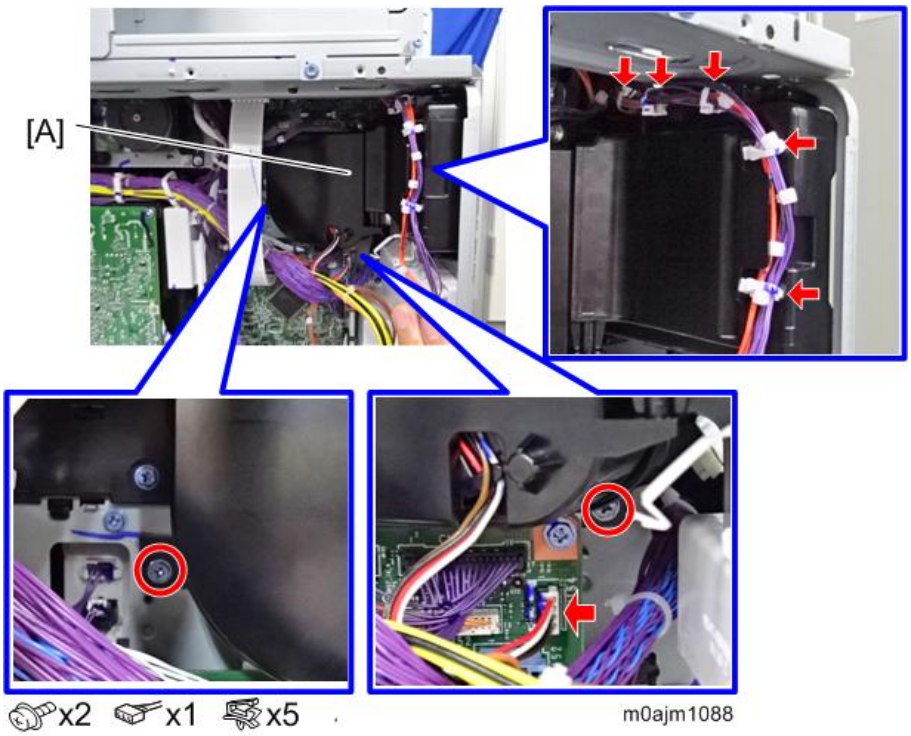
1. Remove the power supply box. (Paper Transport IOB)

2. Remove the left cover. (Left Cover)

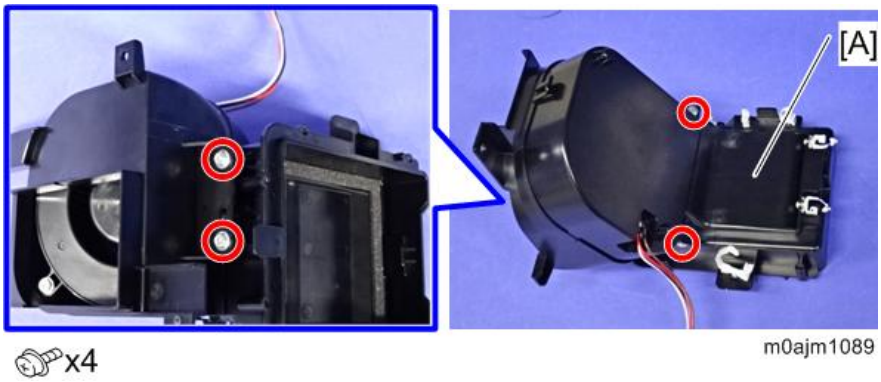
3. Remove the screws on the left side.



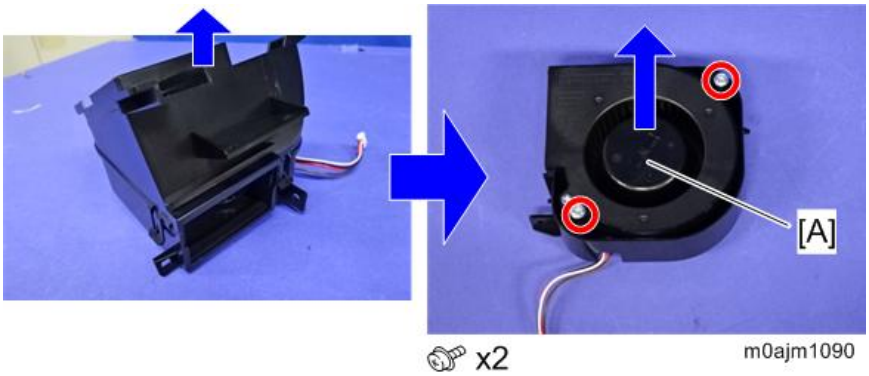
4. Remove the ozone exhaust fan unit [A].



5. Remove the duct [A].



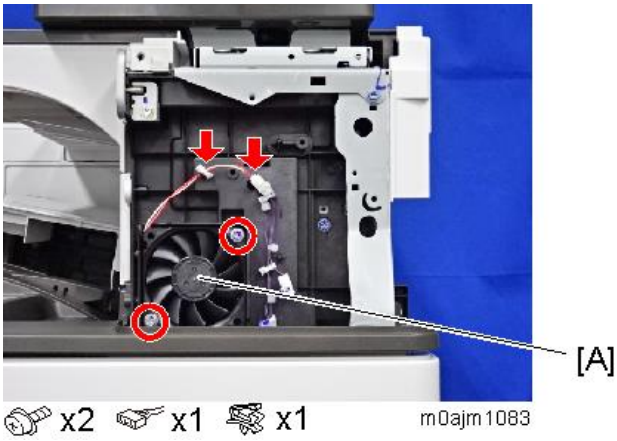
6. Remove the ozone exhaust fan [A].



Paper Exit Cooling Fan

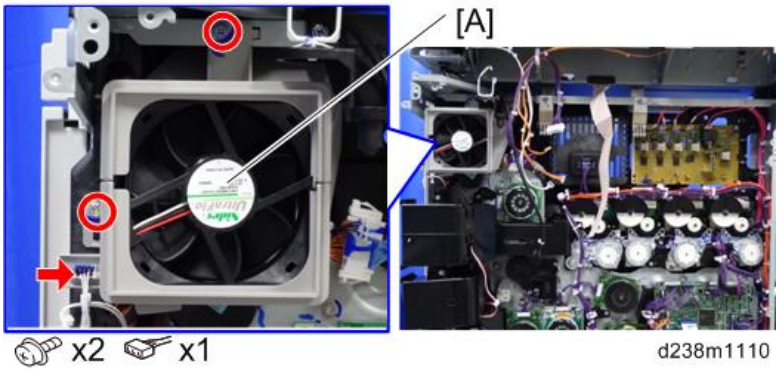
1. Remove the front upper cover. (Front Upper Cover)

2. Remove the paper exit cooling fan [A].



Fusing Exhaust Fan

1. Remove the rear cover. (Rear Cover)
2. Remove the right rear cover. (Right Rear Cover)
3. Remove the fusing exhaust fan unit [A].

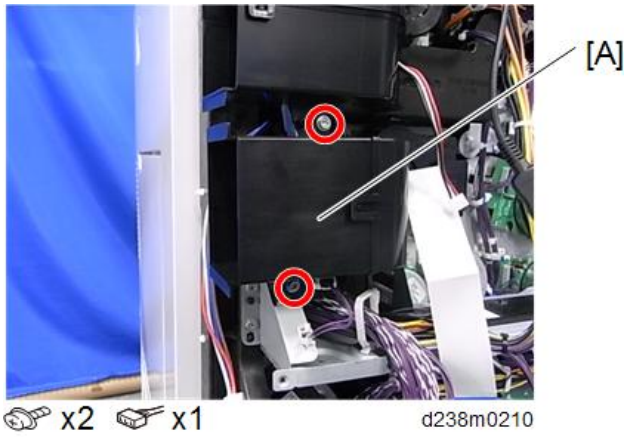


4. Remove the fusing exhaust fan [A].

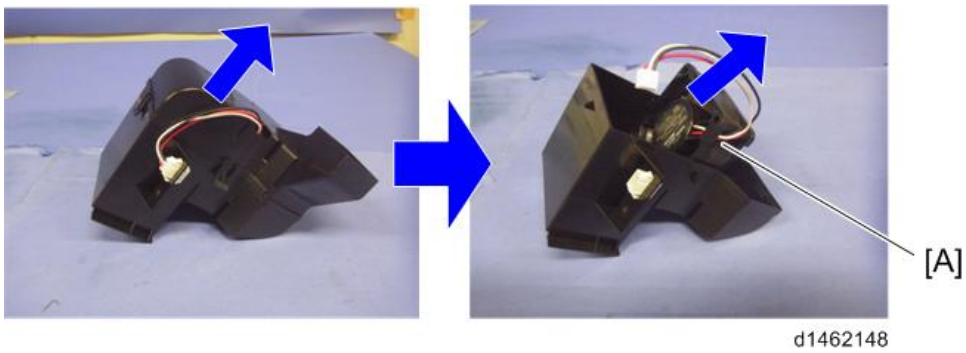
Drive Cooling Fan

1. Remove the rear cover. (Rear Cover)
2. Remove the right rear cover. (Right Rear Cover

3. Remove the drive cooling fan unit [A].



4. Remove the drive cooling fan [A].



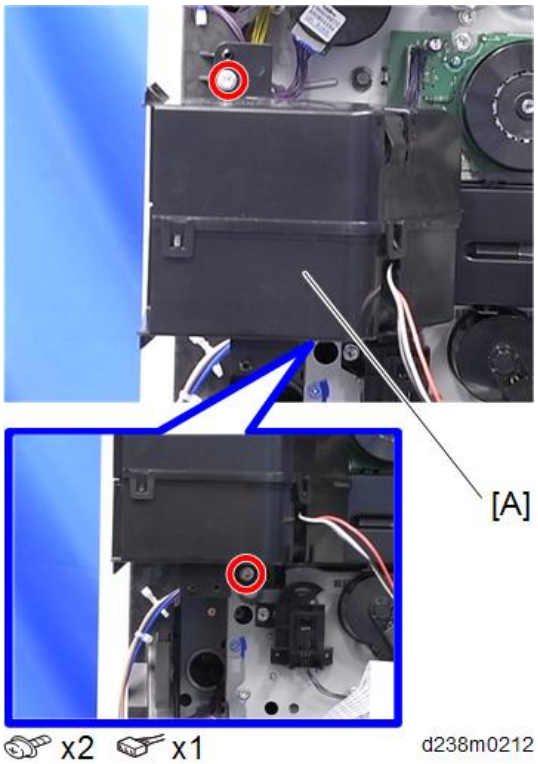
Toner Supply Cooling Fan

1. Remove the rear cover. (Rear Cover)

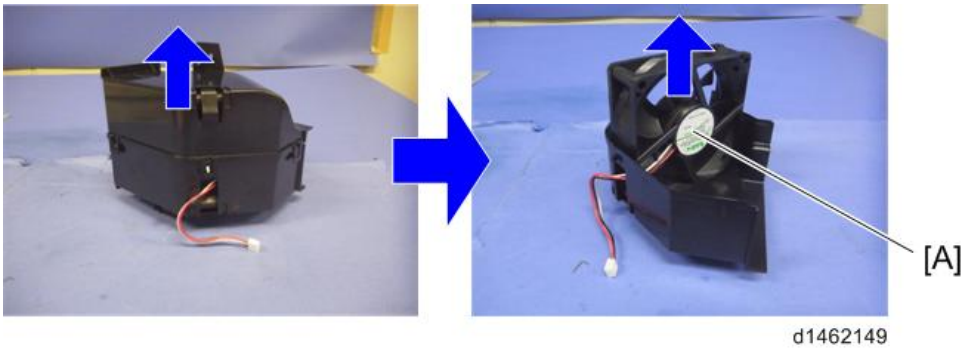
2. Remove the right rear cover. (Right Rear Cover)

3. Remove the drive cooling fan. (Drive Cooling Fan)

4. Remove the toner supply cooling fan unit [A].



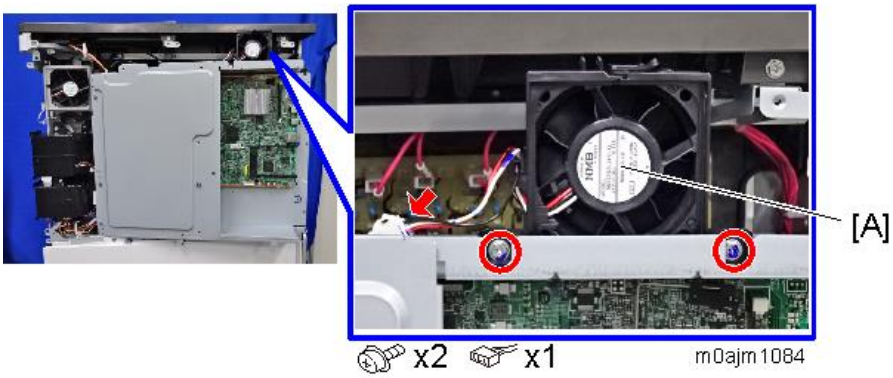
5. Remove the toner supply cooling fan [A].



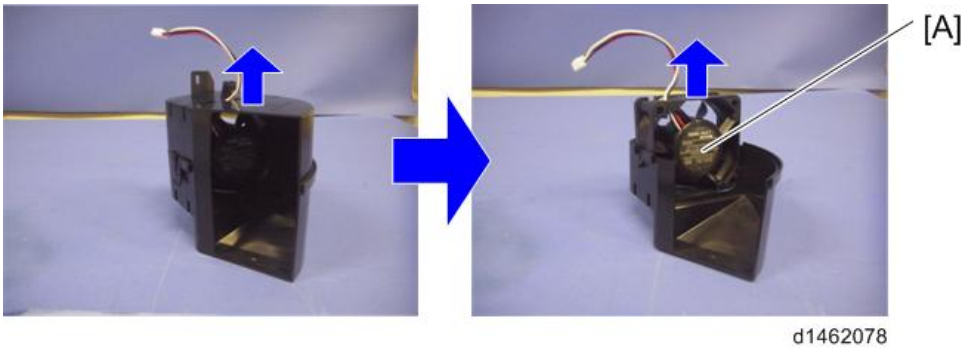
Main Exhaust Fan

1. Open the controller box. (Opening the Controller Box)

2. Remove the main exhaust fan unit [A].

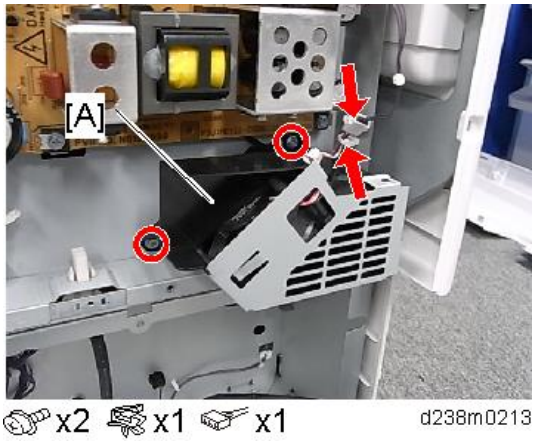


3. Remove the main exhaust fan [A].

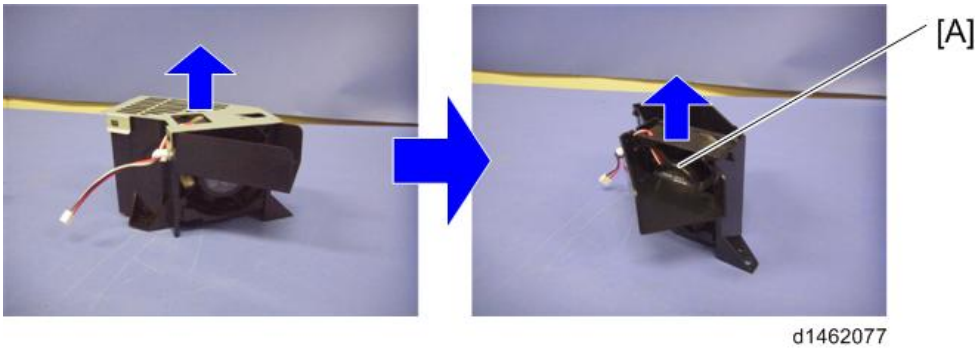


PSU Cooling Fan

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the PSU cooling fan unit [A].



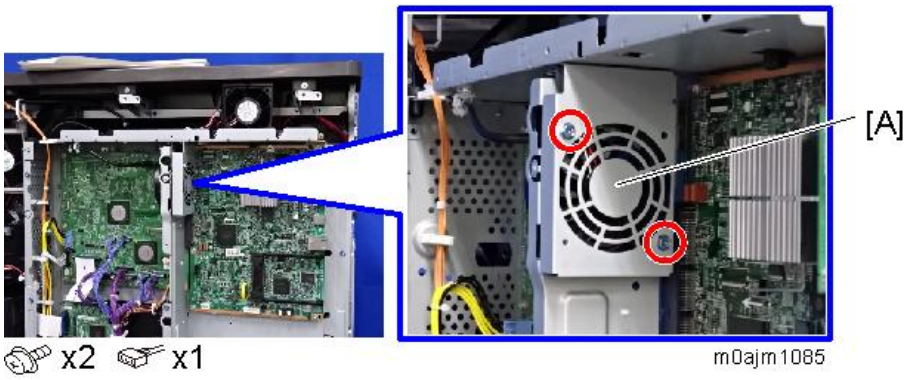
3. Remove the PSU cooling fan [A].



Controller Box Cooling Fan

1. Remove the controller box cover. (Controller Box Cover)
2. Remove the controller bracket. (Controller Bracket)

3. Remove the controller box cooling fan unit [A].



4. Remove the controller box cooling fan [A].

Test Pattern Printing

Printing a test pattern: SP2-109-XXX

After changing an SP value for registration or image adjustment, print a test pattern to check the adjustment result.

Note

- Some of these test patterns are used for print image adjustments but most are used primarily for design testing.
- Do not operate the machine until the test pattern is printed out completely. Otherwise, SC will occur.

1. Enter the SP mode.
2. Select SP2-109-003 (Test Pattern: Pattern Selection).
3. Select the pattern number for print from the list, then press [OK].

No.	Pattern	No.	Pattern
0	None (Default value)	12	Independent Pattern (2dot)
1	Vertical Line (1dot)	13	Independent Pattern (4dot)
2	Vertical Line (2dot)	14	Trimming Area
3	Horizontal Line (1dot)	15	Hound's Tooth Check (Vertical)
4	Horizontal Line (2dot)	16	Hound's Tooth Check (Horizontal)
5	Grid Vertical Line	17	Band (Horizontal)
6	Grid Horizontal Line	18	Band (Vertical)
7	Grid Pattern Small	19	Checker Flag Pattern
8	Grid Pattern Large	20	Grayscale (Vertical Margin)
9	Argyle Pattern Small	21	Grayscale (Horizontal Margin)
10	Argyle Pattern Large	22	Wormy Pattern
11	Independent Pattern (1dot)	23	Full Dot Pattern

4. When selecting the color for Printing; Full Color or either CMYK, go to SP2-109-005 (1: Full Color, 2: Cyan, 3: Magenta, 4: Yellow, 5: Black) to select.
5. When changing the density of the test pattern, select the density with SP2-109-006 through 009 for each color.

   SP2-109-006 (Test Pattern Density: Bk)

   SP2-109-007 (Test Pattern Density: Ma)

   SP2-109-008 (Test Pattern Density: Cy)

   SP2-109-009 (Test Pattern Density: Ye)

   Note

   - If you select "0" with SP2-109-006 through 009, the color will not show up in the test pattern.
6. Exit SP mode.
7. Print a test pattern with the following steps.

   User Tools > Machine Features > Printer Features > List / Test Print tab > Operations Test
8. After checking the test pattern, SP2-109-003 must be set to "0: None".

Image Adjustment

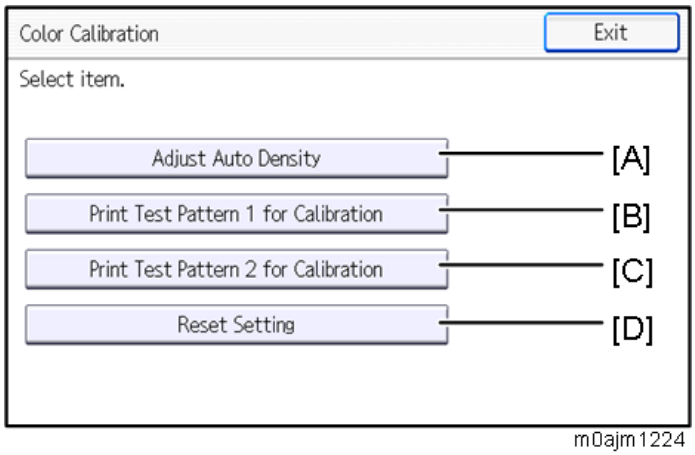
Color Calibration

For the best image quality, this is done during installation, and should be done periodically by the customer.

For how to execute the color calibration, see Color Registration and Color Calibration.

Note

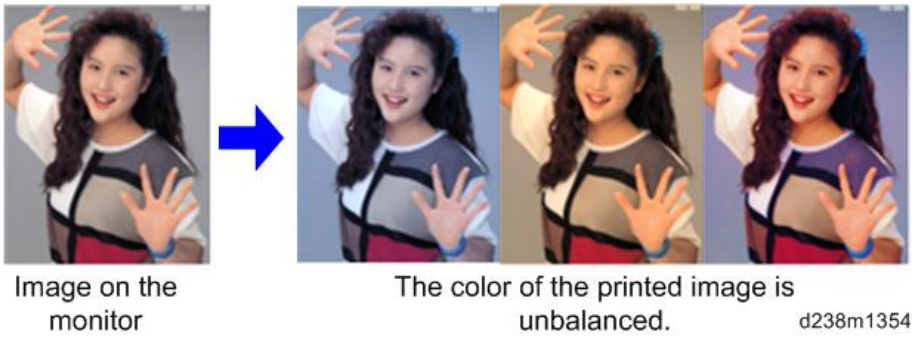
- Instruct the customer to periodically execute the color calibration.



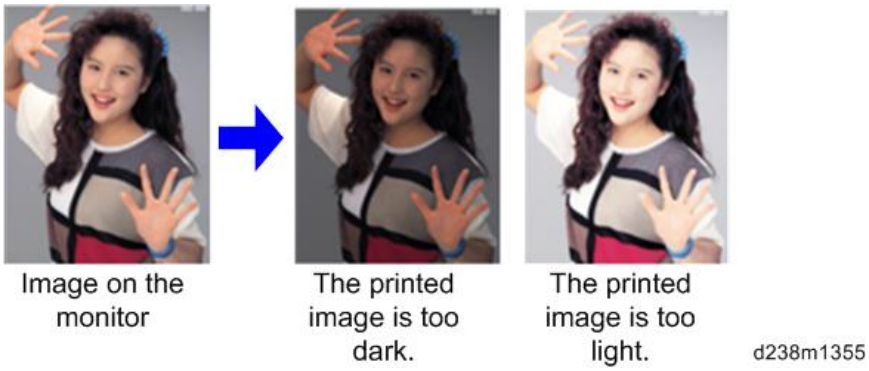
	Description
[A]	"Adjust Auto Density" is executed.
[B]	The test pattern 1 is printed for calibration, and the values are set in "Calibration 1".
[C]	The test pattern 2 is printed for calibration, and the values are set in "Calibration 2".
[D]	Roll back to the previous value.

Issues possibly solved by color calibration

- When the printed image looks strongly red, blue, or yellow because the density of the cyan, magenta, and yellow are not balanced.



- When the printed image looks too dark or light.



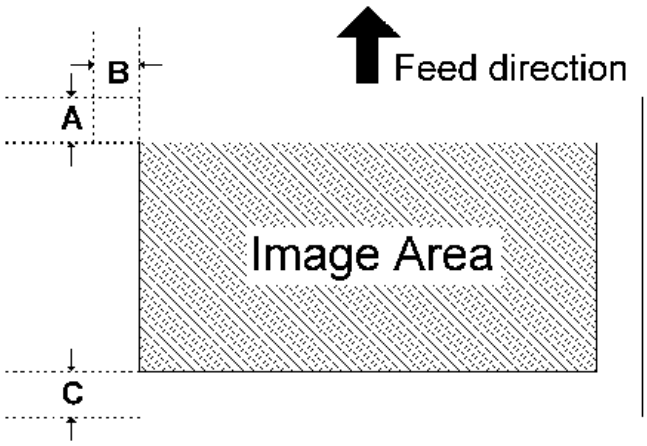
Issues that cannot be solved by color calibration

The tone differences from other types of machine or machines of other manufacturers cannot be solved by color calibration. The tone differences from the machines of other manufacturers occur due to the differences in color reproduction caused by the difference in the engine and color profile specifications, so issues may not be solved even after performing color calibration.

Refer to "Adjustment by Changing the Machine's Profile Setting" for the color tone differences from other types of machine.

Registration

Image Area



A = C = 5.2 mm (0.2"), B = 2.0 mm

Make sure that the registration is adjusted within the adjustment standard range as shown above.

After doing the registration adjustment, do the Erase Margin Adjustment in the next section.

Leading Edge

Adjusts the leading edge registration for each paper type and process line speed.

Side to Side

Adjusts the side-to-side registration for each paper feed station. Use SP mode (SP1-002) to adjust the side-to-side registration for the optional paper feed unit, LCT, and duplex unit.

Adjustment Standard

- Leading edge (sub-scan direction): 5.2 ± 2 mm
- Side to side (main-scan direction): 2 ± 1 mm

Paper Registration Standard

The registration in both main- and sub-scan directions can change within the following tolerance.

- Sub-scan direction: 0 ± 9 mm
- Main-scan direction: 0 ± 4 mm

Adjustment Procedure

1. Enter SP2-109-003 (Test Pattern: Pattern Selection).
2. Select "14:Trimmed area" (Test Pattern Printing)
3. Exit SP mode.
4. Enter the menu mode, and then select "Operations Test" (User Tools>"Machine Features">"Printer Features">"List Test Print">"Operations Test").

   Note

   Registration can change slightly as shown above (Paper Registration Standard). Print some pages of the "14: Trimmed area" for steps 5 and 6. Then average the leading edge and side-to-side registration values, and adjust each SP mode.
5. Do the leading edge registration adjustment.

   a) Check the leading edge registration and adjust it with SP1-001.

   b) Select the adjustment conditions (paper type and process line speed).

   c) Input the value. Then press the "#" key.

   d) Generate a trim pattern to check the leading edge adjustment.
6. Do the side-to-side registration adjustment.

   a) Check the side-to-side registration and adjust it with SP1-002.

   b) Select the adjustment conditions (paper feed station).

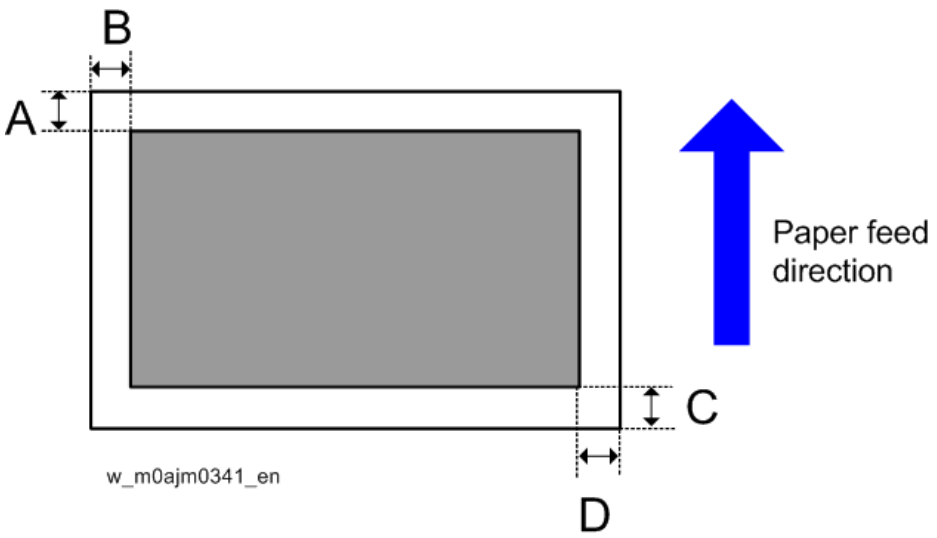
   c) Input the value. Then press the "#" key.

   d) Generate a trim pattern to check the leading edge adjustment.
7. Return the value of the setting in SP2-109-003 to "0" before completing this procedure.

Erase Margin Adjustment

Note

- After adjusting the Leading Edge Registration and Side Registration settings (see the previous section), do the Erase Margin Adjustment. To do this, check the values of Margins C and D.
- If they are not within the specifications (see below), then adjust C and D with SP2-103-001 to -020 as explained below. Then check Margins A and B again.



1. In SP2-109-003 (Test Pattern: Pattern Selection), select "07:Grid Pattern Small", and print the test pattern. (Test Pattern Printing)
2. Check the erase margins C and D. Adjust them with SP2-103-001 to -020 if necessary.
   - Leading edge [A]: 0.0 to 9.0 mm (default: 4.2 mm)
   - Side-to-side [B] and [D]: 0.0 to 9.0 mm (default: 2.0 mm)
   - Trailing edge [C]: 0.0 to 9.0 mm (default: 4.2 mm)

Adjusting the Tone of the Printed Image

If a customer wishes to have the tone of the printed image corrected, you can adjust it as follows.

For details about the adjustment procedures, see the corresponding sections.

Adjustment Method	Outline
Adjustment by Changing the Printer Driver Setting (Adjustment by Changing the Printer Driver Setting)	Perform this to adjust the tone for each print job. This can be adjusted by the user.
Adjustment by Changing the Machine's Profile Setting (Adjustment by Changing the Machine's Profile Setting)	Perform this to make the tone similar to that of another model. Doing this changes the tone of all images printed by the machine's printer function.
Adjustment by Printer Gamma Correction (Printer Gamma Correction)	Basically, we recommend the default setting. Doing this changes the tone of all images printed by the machine's printer function.

Adjustment by Changing the Printer Driver Setting

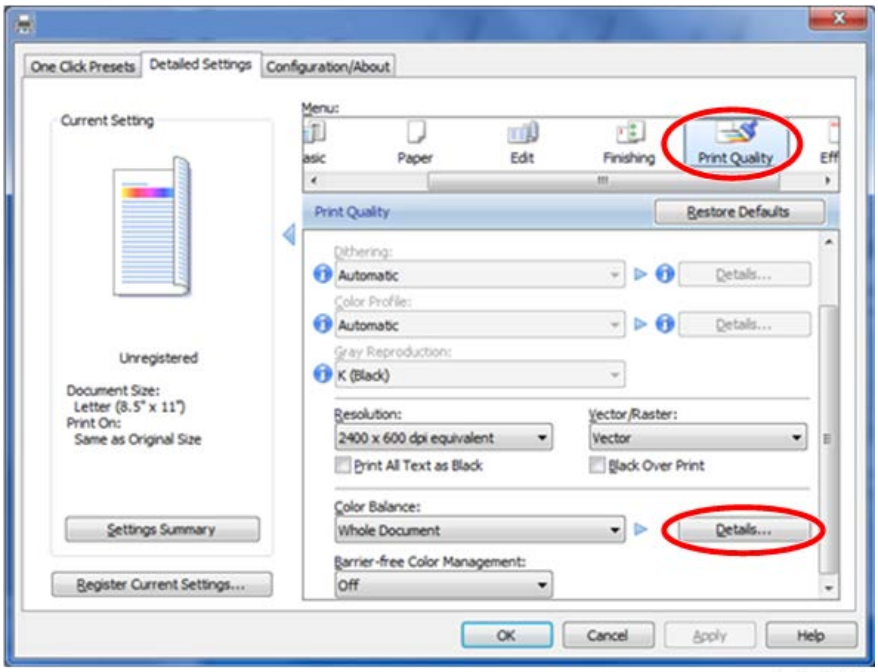
Using the printer driver, you can change the color balance for each print job as follows.

1. Open the printer driver's "Color Balance Details" window. (Opening the Printer Driver's "Color Balance Details" Window)
2. Adjust the tone (color gamut). (Adjusting the Tone in the "Color Balance Details" Window)

Opening the Printer Driver's "Color Balance Details" Window

PCL6 driver / PS driver

1. Click [Detailed Setting] tab -> [Print Quality].
2. Click [Details...] in "Color Balance".



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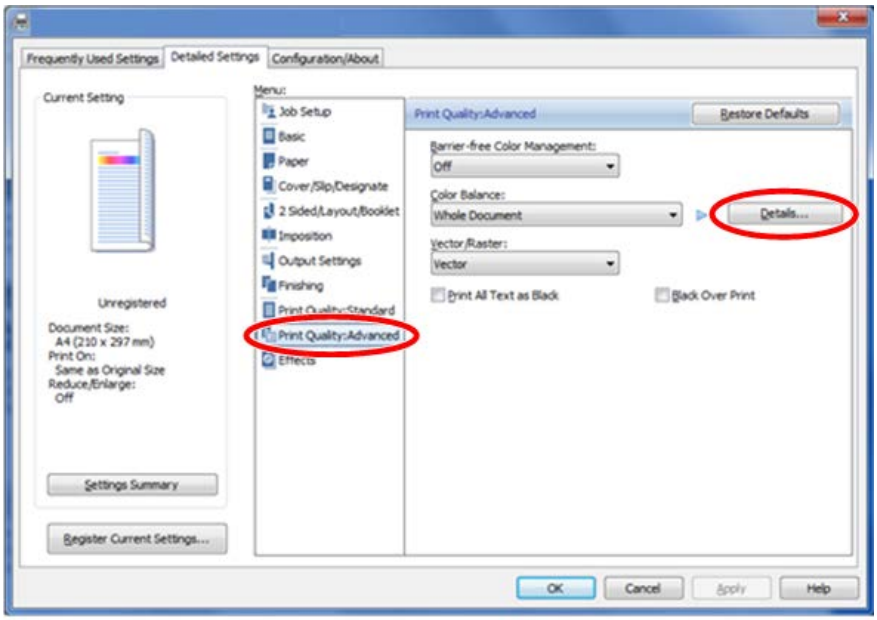
3. "Color Balance Details" window appears. (Color Balance Details Window)

PCL6 Universal driver / PS Universal driver

1. Click [Detailed Setting] tab -> [Print Quality:Advanced].
2. Click [Details...] in "Color Balance".



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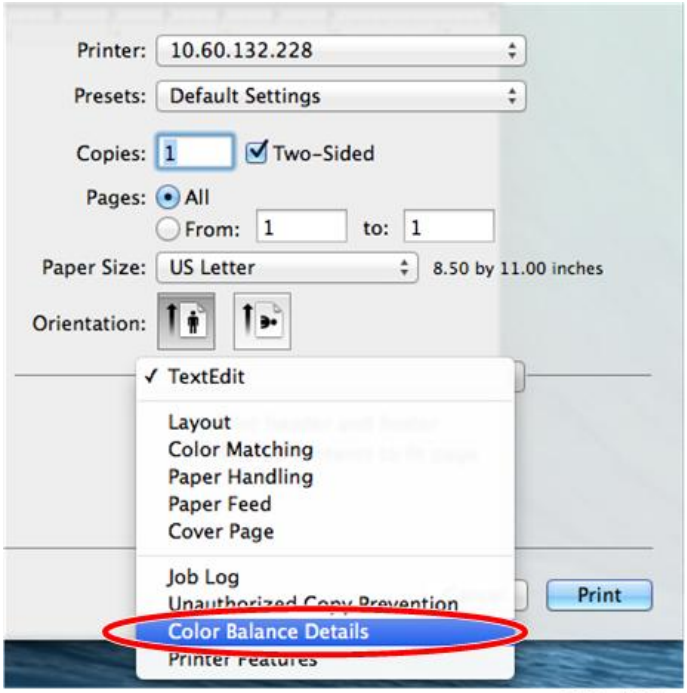
3. "Color Balance Details" window appears. (Color Balance Details Window)

Mac PS driver

1. On the print dialog box, open the context menu (right click menu), then select [Color Balance Details].

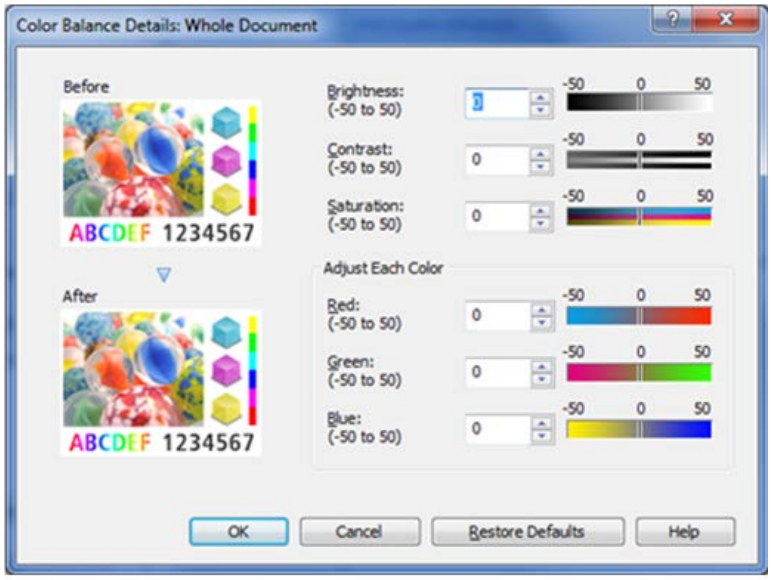


d238m1334

2. "Color Balance Details" window appears. (Color Balance Details Window)

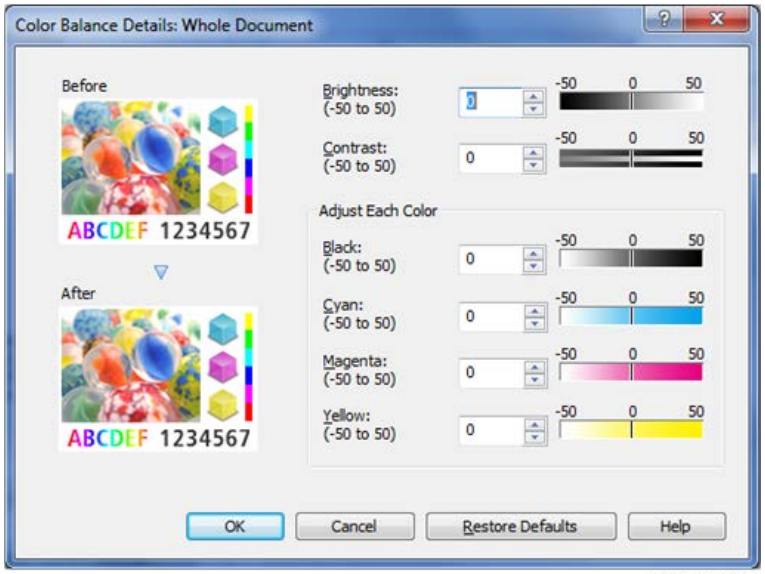
Color Balance Details Window

PCL driver



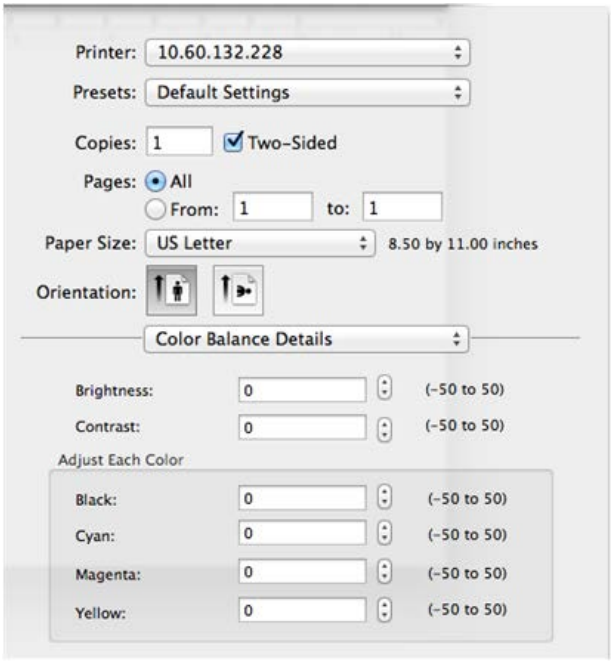
d238m1340

PS driver



d238m1341

Mac PS driver

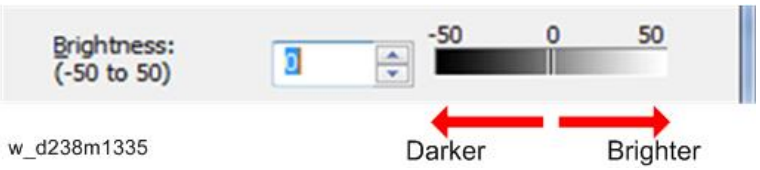


d238m1342

Adjusting the Tone in the "Color Balance Details" Window

Brightness

- Decreasing the brightness makes the printed image darker and increasing it makes the printed image fainter.
- Decrease the value to make the printed image darker and increase it to make the printed image fainter.
- If you increase the value too much, overexposure of bright areas may occur.
- If you decrease the value too much, underexposure of dark areas may occur
- Can be specified using the PCL/PS drivers.

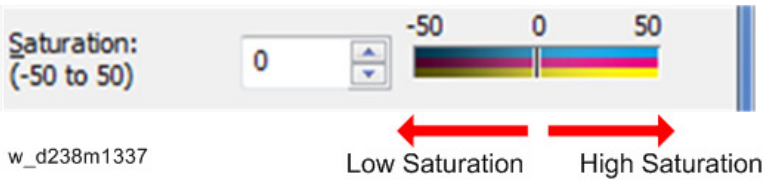


Contrast

- Increasing the contrast makes bright areas brighter and dark areas darker.
- Decreasing the contrast makes bright areas darker and dark areas brighter.
- Increase the value to make the printed image clearer and decrease it to prevent overexposure of bright areas and underexposure of dark areas.
- If you increase the value too much, overexposure of bright areas and underexposure of dark areas may occur.
- If you decrease the value too much, the printed image may become unclear.
- Can be specified using the PCL/PS drivers.

Saturation

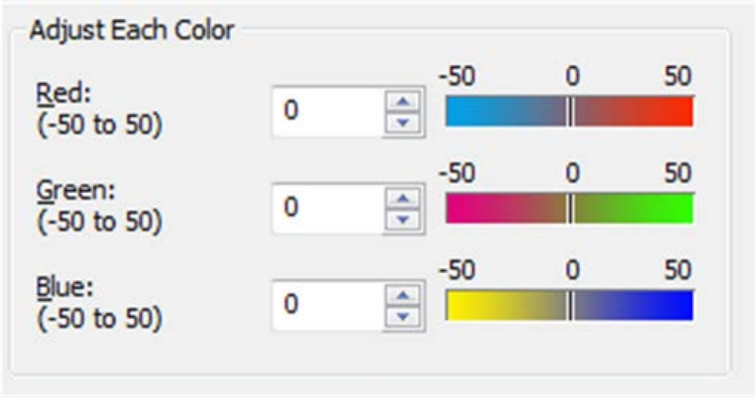
- Increasing the saturation makes the printed image more vivid.
- Decreasing the saturation makes the printed image closer to the neutral color (gray).
- If you increase the value too much, it may lower the gradation, resulting in a difficulty to distinguish colors.
- The printer's color gamut is limited, so even if you increase the value, it may not make any difference.
- Can be specified using the PCL driver only.



RGB Adjustment (Adjust Each Color)

When using the PCL driver, adjust the tone (color gamut) by this method.

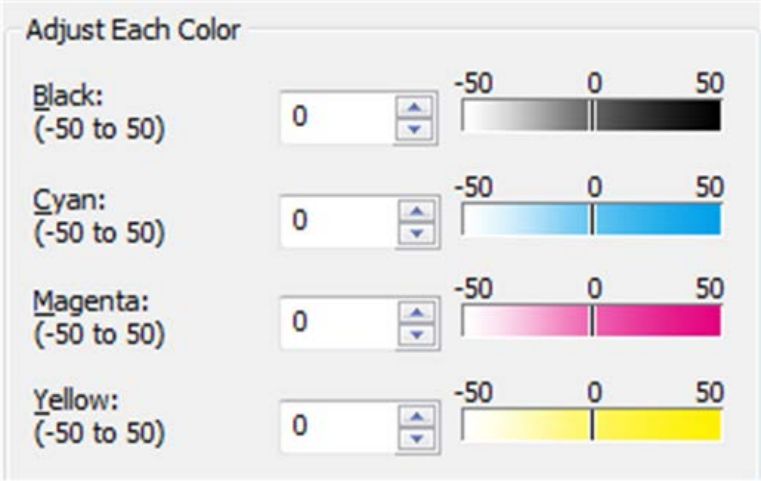
- Increasing "Red" makes "M" and "Y" more vivid and "C" less so.
- Decreasing "Red" makes "M" and "Y" less vivid and "C" more so.
- Increasing "Green" makes "C" and "Y" more vivid and "M" less so.
- Decreasing "Green" makes "C" and "Y" less vivid and "M" more so.
- Increasing "Blue" makes "C" and "M" more vivid and "Y" less so.
- Decreasing "Blue" makes "C" and "M" less vivid and "Y" more so.



d238m1338

CMYK Adjustment (Adjust Each Color)

When using the PS driver, adjust the tone (color gamut) by this method.



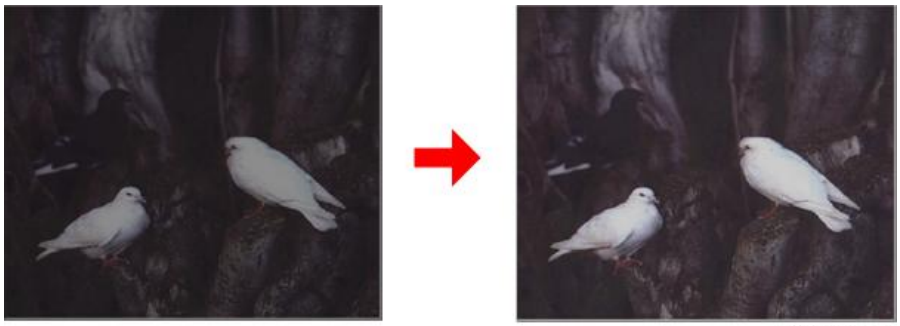
d238m1339

Adjustment Examples

The following shows adjustment examples. Be sure to check the printed image when changing values.

If the printed image is dark:

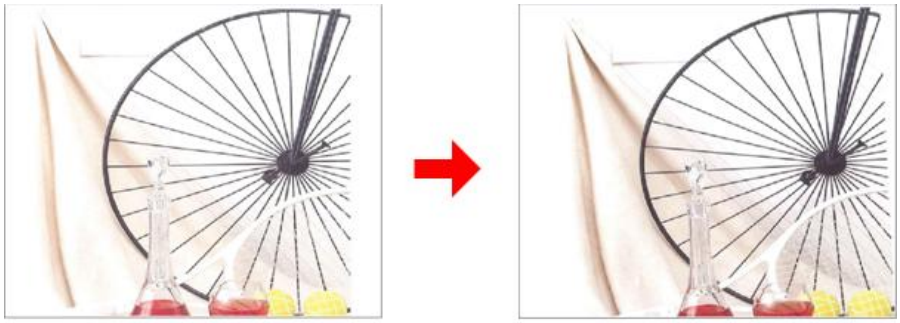
Increase the brightness by 20.



d238m1343

If the printed image is faint:

Decrease the brightness by 20.



d238m1344

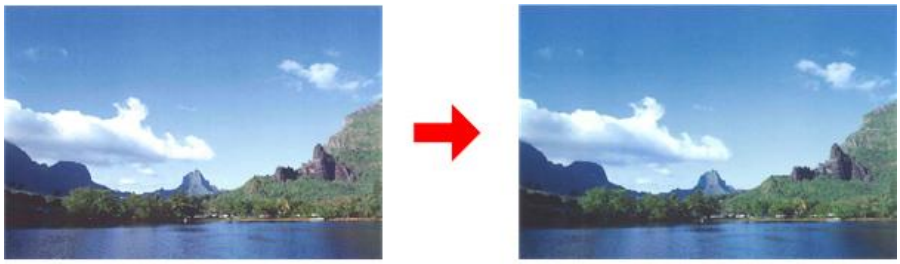
If the printed image is too bluish:

Increase "Red" or "Magenta" by 20.

d238m1345

If the printed image is too reddish:

Increase "Blue" or "Cyan" by 20.



d238m1346

If the printed image is unclear:

Increase the contrast by 15.

d238m1347

Adjustment by Changing the Machine's Profile Setting

You can change the printer’s profile setting by specifying a bit switch in SP mode.

Important

- By changing the profile setting, you can change the tone of all images printed by the machine’s printer

function.

- By changing the profile setting, you can make the tone (image gamut) of the printed image similar to that of another model. However, due to factors such as the image gamut difference between different models, individual differences, and ageing of components, you may not achieve exactly the same tone.

Procedure to Change the Profile Setting

RTB 26 Table modified

1. Enter the printer SP mode.
2. Change the values of bit switches with the following SP numbers.

Desired tone (color gamut)	SP to change	Value to select
2009 Spring model or earlier	SP1-001-002	00000001 [01H]
2009 Autumn to 2011 Spring model		00010000 [10H]
2011 Autumn model or later		00000000 [00H]
Xerox product	SP1-001-001	01000000 [40H]

3. Turn the machine's power off and then back on.
   The specified setting is applied.

Patterns and Tendency of the Tone for Each Profile

Model with the desired tone	Image (Photo)	Graphic (Lineart/Diagram)	Text
2009 Spring model or earlier	Color A	Color A	Color A
2009 Autumn to 2011 Spring model	Color B	Color B	Color B
2011 Autumn model or later	Color B	Color C	Color C
Xerox product	Color D	Color D	Color D

Color A

Standard profile for SP C820/821, MP C2030/C2050/C2030/C2530/C2800/C3300/C4000/C5000 and their preceding models

Color B

Standard profile for MP C2051/C2551/C3001/C3501/C4501/C5501.

Compared to Color A, the following changes have been applied:

- Yellow tint of the skin color is reduced.
- Redness is enhanced to prevent it from appearing like vermilion.
- Green and blue-green appear darker.
- Uses pure cyan toner on graphics to prevent muddiness.
- Pink in the printed image appears darker.

Color C

Standard profile for SP C830/C831, MP C3002/C3502/C4502/C5502 up to the present model.
Compared to Color B, the differences between colors have become more recognizable. On the other hand, the printed image has become slightly less vivid.
If you receive a comment that the printed image is less vivid compared to that of a Color B-standard model, we recommend changing the setting to Color B.

Color D

Profile with a tone similar to that of the prints by Xerox products.

- Bluish colors appear slightly purplish. (Images of the sky appear with a slight tint of red.)
- Pink in the printed image appears with a tint of magenta.

Printer Gamma Correction

Important

- We recommend that you keep the printer gamma correction values at the default values.
- The values adjusted/saved in the printer SP mode are applied after the machine's power is turned off and then back on.
- After adjusting/saving the values in the printer SP mode, make sure not to perform the color calibration (Color Calibration). Doing so will reset the values.
- To change multiple resolutions, perform this procedure for each resolution.

1. Enter the printer SP mode.
2. Select the mode you want to change in the printer SP1102-001: Resolution Setting.

1102	**[Resolution Setting]**		
	Selects the printing mode (resolution) for the printer gamma adjustment.		
001	Resolution Setting	CTL	[0 to 9 / **0** / 1/step] 0: 1200x1200 Photo (2bit/4col) 1: 1200x1200 Photo (1bit/4col) 2: 600x600 Photo (4bit/4col) 3: 600x600 Photo (2bit/4col) 4: 600x600 Photo (1bit/4col) 5: 1200x1200 Text (2bit/4col) 6: 1200x1200 Text (1bit/4col) 7: 600x600 Text (4bit/4col) 8: 600x600 Text (2bit/4col) 9: 600x600 Text (1bit/4col)

3. Change the gamma correction value for each color in the printer SP1104: Gamma Adjustment.

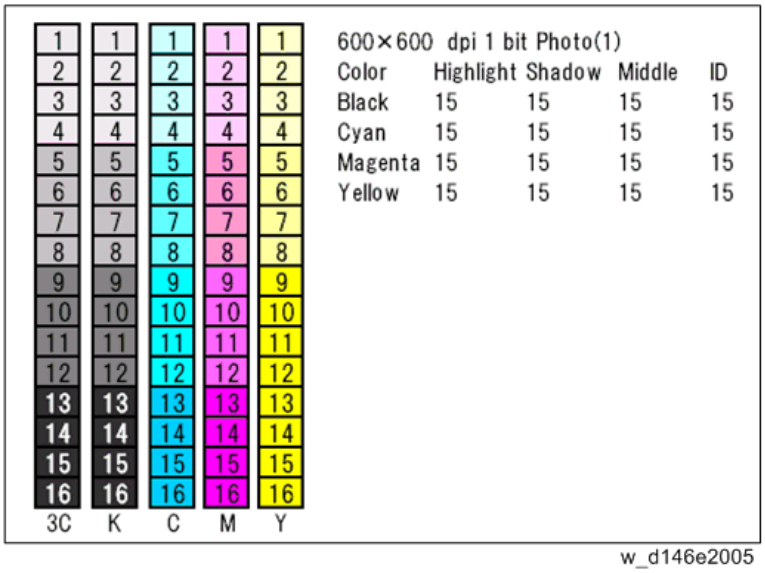
Note

- When adjusting the value, be sure to follow the sequence: I (IDmax)→M (Middle)→S (Shadow)→H (Highlight).

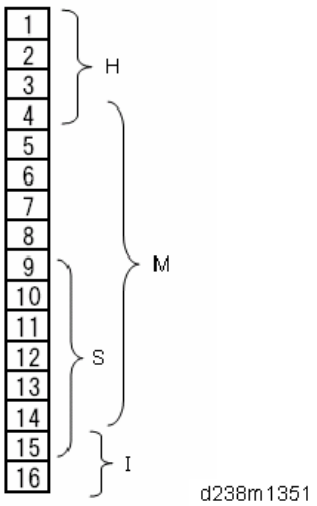
- To lower the print density, reduce and save the H/M/S/I value for each color.
- To heighten the print density, increase and save the H/M/S/I value for each color.

1104	**[Gamma Adjustment]**		
	Adjusts the printer gamma for the mode selected in the "Mode Selection" menu.		
001	Black: Highlight	CTL	[0 to 30 / **00** / 1/step]
002	Black: Shadow	CTL	
003	Black: Middle	CTL	
004	Black: IDmax	CTL	
021	Cyan: Highlight	CTL	
022	Cyan: Shadow	CTL	
023	Cyan: Middle	CTL	
024	Cyan: IDmax	CTL	
041	Magenta: Highlight	CTL	
042	Magenta: Shadow	CTL	
043	Magenta: Middle	CTL	
044	Magenta: IDmax	CTL	
061	Yellow: Highlight	CTL	
062	Yellow: Shadow	CTL	
063	Yellow: Middle	CTL	
064	Yellow: IDmax	CTL	

Gamma Correction Sheet



Range where each value affects



4. Execute SP1105-001: Save Tone Control Value.

Note

- If you exit the SP mode without saving the values, any changes made in the printer SP1104: Gamma Adjustment will be lost.
- You can check the color balance before and after the gamma adjustment in the printer SP1103-001: Test Page - Color Gray Scale.

5. Turn the machine's power off and then back on.
   The changed gamma correction setting is applied.
6. Check the output image and repeat steps 1 - 4 until the desired image is obtained.

Color Registration

Adjust color registration with the following procedure when color registration errors occurred.

Check the occurrence of color registration errors

Prepare some A3 sheets.

1. Enter the system SP mode.
2. Execute SP2-111-004 (Forced line Position Adj.: Mode d).
3. Make sure that execution completed successfully with SP2-194-007 (MUSIC).
   If the value of SP2-194-007 is "0", it indicates that the result of SP2-111-004 was successful.
   If the value of SP2-194-007 is "1", it indicates that the result of SP2-111-004 was a failure, and you need to fix the color registration errors (See "Ways to fix color registration errors" Judgment for type of color registration error).
4. In SP2-109-003 (Test Pattern: Pattern Selection), select "07:Grid Pattern Small", and print a test pattern. (Test Pattern Printing)
5. With a loupe, check the details of the color registration errors on the printed test pattern (Judgment for type of color registration error).
   - Specification: Main/Sub is smaller than 180.0um

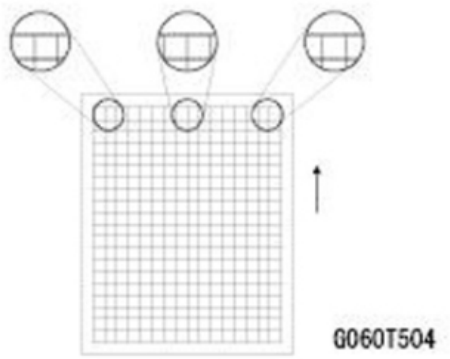
- No color registration errors: Adjustment completed.
- Color registration errors occurred: Adjust the color registration errors (See "Ways to fix color registration errors" Judgment for type of color registration error)

Judgment for type of color registration error

In the following diagrams, solid lines represent "K" and dotted lines indicate any of "C", "M" or "Y".

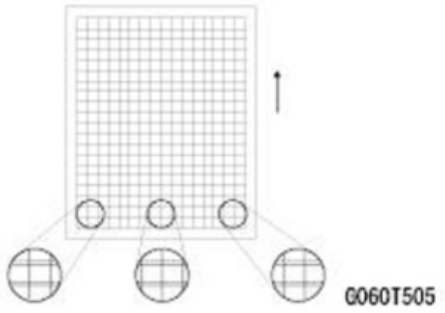
1. Pattern 1

   This is a case in which there is a shift in the sub-scan direction at the leading edge of the paper. The following diagram shows "C", "M" or "Y" lines closer to the leading edge than "K" lines.



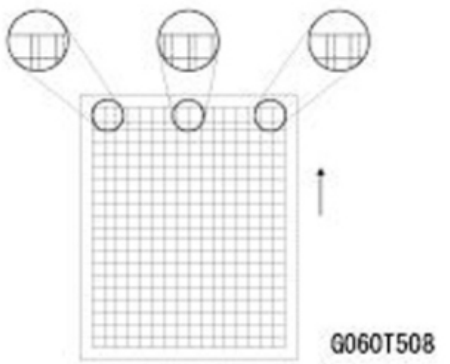
2. Pattern 2

   This is a case in which there is a shift in the sub-scan direction at the trailing edge of the paper. The following diagram shows "C", "M" or "Y" lines farther away from the leading edge than "K" lines.



3. Pattern 3

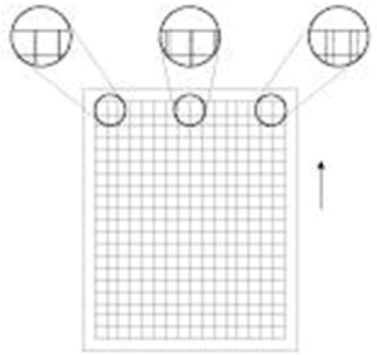
   This is a case in which a color registration error is found in the main-scan direction and size of the error is the same at the left, center and right.



4. Pattern 4

This is a case in which a color registration error is found in the main-scan direction and the size of the error is different at the left, center and right. For "M", the largest error will be at the right, followed by the center and then the left. For "C" or "Y", the order will be reversed. This is because the writing direction of the laser beam for "K" and "M" is different from "C" and "Y".

Case "M"



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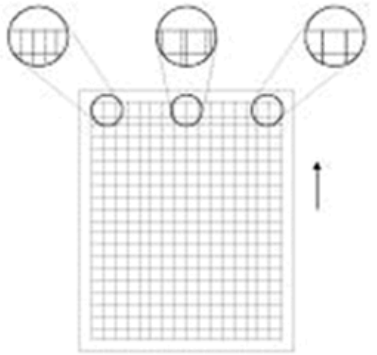
Case "C" or "Y"



d1772002

5. Pattern 5

This is a case in which a color registration error is found in the sub-scan direction, but it is not the same as the Pattern 1 or 2. The error appears and disappears at intervals down the page.

Ways to fix color registration errors

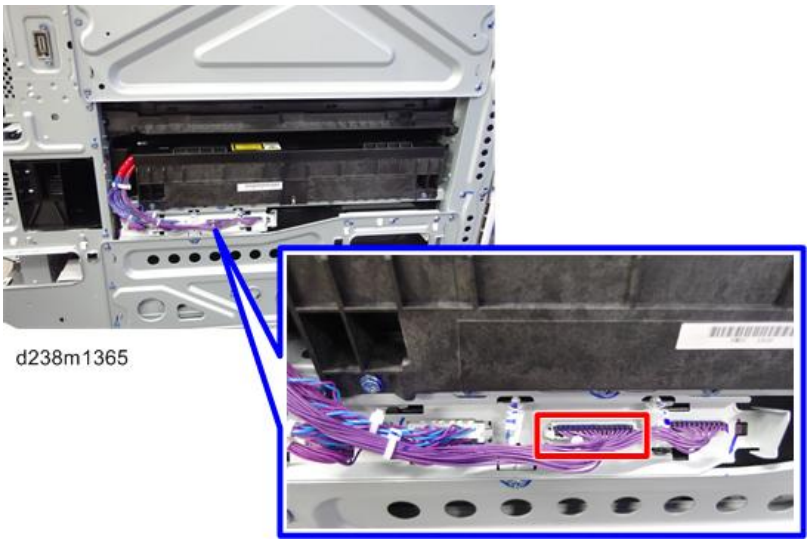
SP2-111-004 (Forced Line Position Adj. : Mode D) Execution		
Result: Failed Case: SP2-194-007: 1 (Failed)		
SP2-194-010, 011, 012 shows "2" or "3"	Result of Check	Blank image, abnormal image, low image density
	Causes	1. Image Processing failure 2. Pattern density low 3. BCU (IPU) failure
	Solution	1. Replace the PCDU, Image Transfer Belt, Power pack 2. Execute process control, supply toner

		3. Replace the BCU (IPU)
	Pattern	-
Failed to read the pattern of Line position Adj.	Result of Check	Normal (but color registration errors occur)
	Causes	1. ID Sensor failure 2. BCU (IPU) failure
	Solution	1. Replace the ID Sensor 2. Replace the BCU (IPU)
	Pattern	-
Any of SP2-194-010 or 011 or 012 shows "5"	Result of Check	Image density low
	Causes	Pattern density low
	Solution	Execute process control Supply toner
	Pattern	-
	Result of Check	Leading edge registration for "M", "C", and/or "Y" shifts over ±1.4mm from that of "K".
	Causes	1. Normal 2. Laser unit failure 3. BCU (IPU) failure
	Solution	1. Execute SP2-111-003 (Forced Line Position Adj.: Mode c) 2. Replace the laser unit 3. Replace the BCU (IPU)
	Pattern	3
Out of line position correction range	Result of Check	Leading edge registration of "M", "C", and/or "Y" shifts over ±1.4mm from that of "K".
	Causes	1. Normal 2. Image Transfer Belt failure 3. Drive Section failure 4. BCU (IPU) failure
	Solution	1. Execute SP2-111-003 (Forced Line Position Adj.: Mode c) 2. Replace the Image Transfer Belt 3. Replace the color PCU motor and/or the PCU: Black / ITB Drive motor 4. Replace the BCU (IPU)
	Pattern	1, 2
	Result of Check	The main scan magnification is OK, but the color registration in the center of the image shifts over 0.66mm.

	Causes	1. ID Sensor (Center) failure 2. Significant movement of Image Transfer Belt (Center) 3. BCU (IPU) failure
	Solution	1. Replace the ID Sensor 2. Replace the Image Transfer Belt 3. Replace the BCU (IPU)
	Pattern	-
Out of line position correction range	Result of Check	Skew of "M", "C" and/or "Y" shifts over ±0.75mm against that of "K"
	Causes	1. PCDU installation failure 2. Laser Unit failure 3. BCU (IPU) failure
	Solution	1. Replace the PCDU 2. Replace the Laser Unit 3. Replace the BCU (IPU)
	Pattern	-
	Result of Check	Other
	Causes	1. The upper skew correction value is abnormal 2. BCU (IPU) failure
	Solution	1. Reset the skew correction value (*1) 2. Replace the BCU (IPU)
	Pattern	-

*1 Method for resetting the skew correction value.

1. Turn the power OFF.
2. Remove the left cover (Left Cover)
3. Remove the harness of the laser optics positioning motor attached to the laser unit (15-pin).



4. Turn the power ON, and then execute the following SPs to set the skew correction mechanism to the origin.
   SP2-220-001 (Skew Origin Set M: Skew Motor)
   SP2-220-002 (Skew Origin Set C: Skew Motor)
   SP2-220-003 (Skew Origin Set Y: Skew Motor)
5. Turn the power OFF.
6. Connect the harness of the laser optics positioning motor to the laser unit.
7. Turn the power ON

SP2-111-001 (Forced Line Position Adj.: Mode A) execution (or Color Registration via the Maintenance menu in User Tools)		
Result: OK Case: SP2-194-007: 0 (Success)		
No color registration errors	Result of Check	Side-to-side registration for K shifted
	Causes	Abnormal SP value of main scan color registration (K)
	Solution	Adjust SP2-101-001
	Pattern	-
Color registration errors found	Result of Check	Image density low
	Causes	Pattern density low
	Solution	Execute process control, Supply toner
	Pattern	-
Color registration errors found	Result of Check	The main scan magnification of "M", "C" and/or "Y" is not correct.
	Causes	1. Laser Unit failure 2. ID Sensor failure 3. BCU (IPU) failure 4. Normal
	Solution	1. Replace the Laser Unit 2. Replace the ID Sensor 3. Replace the BCU (IPU)
	Pattern	4
Color registration errors found	Result of Check	Although main scan magnification is OK, the color registration in the center of the image is shifted
	Causes	1. Significant movement of Image Transfer Belt (Center) 2. ID Sensor (Center) failure 3. BCU (IPU) failure
	Solution	1. Replace the Image Transfer Belt 2. Replace the ID Sensor 3. Replace the BCU (IPU)

	Pattern	-
Color registration errors found	Result of Check	The side-to-side registration of "M", "C", and/or "Y" is not correct.
	Causes	1. ID Sensor (Center) failure 2. Significant movement of Image Transfer Belt (Center) 3. BCU (IPU) failure
	Solution	1. Replace the Laser Unit 2. Replace the ID Sensor 3. Replace the BCU (IPU)
	Pattern	3
Color registration errors found	Result of Check	The leading edge registration of "M", "C" and/or "Y" is not correct.
	Causes	1. Image Transfer Belt failure 2. Drive Section failure 3. ID Sensor failure 4. BCU (IPU) failure 5. Normal
	Solution	1. Replace the Image Transfer Belt 2. Replace the color PCU motor and/or the PCU: Black / ITB Drive motor 3. Replace the ID Sensor 4. Replace the BCU (IPU)
	Pattern	1, 2
Color registration errors found	Result of Check	The skew of "M", "C" and/or "Y" is not correct.
	Causes	1. Laser Unit failure 2. IOB failure 3. PCDU installation failure
	Solution	1. Replace the Laser Unit 2. Replace the IOB 3. Replace the PCDU.
	Pattern	-
Color registration errors found	Result of Check	Shifted Drum phase.
	Causes	1. Drive Section failure 2. Phase adjustment failure 3. PCDU installation failure
	Solution	1. Check/Replace the Drive Section

		2. Execute SP1-902-001 (Drum Phase Adj. Execute) 3. Replace the PCDU.
	Pattern	5

5. System Maintenance

Service Program Mode

⚠CAUTION

- Make sure that the data-in LED (⇥) is not on before you go into the SP mode. This LED indicates that some data is coming to the machine. When the LED is on, wait for the copier to process the data.

Note

- The Service Program Mode is for use by service representatives only. If this mode is used by anyone other than service representatives for any reason, data might be deleted or settings might be changed. In such case, product quality cannot be guaranteed any more.

Entering SP Mode

If there is no printer icon (Classic) on the HOME screen, follow the procedure below to display the number keyboard.

1. Press and hold the button [A] located at the left side of the operation panel and "Check Status [B]" at the same time, until the number keyboard is displayed.

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2. Enter the key code for SP mode.

For details of the key code to enter the SP mode, ask your supervisor.

Exiting SP Mode

Press "Exit" on the LCD twice to return to the printer screen.

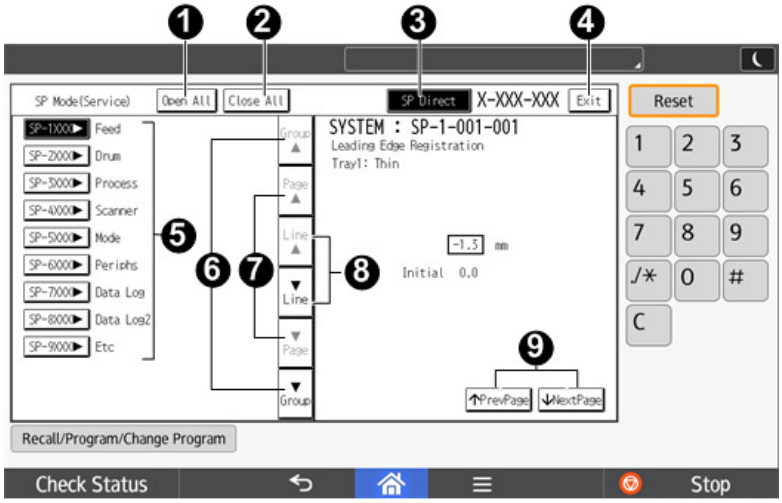
Types of SP Modes

- System SP: SP modes related to the engine functions
- Printer SP: SP modes related to the controller functions

Select one of the Service Program modes (System and Printer) from the touch panel as shown in the diagram below after you access the SP mode.

SP Mode Button Summary

Here is a short summary of the touch-panel buttons.



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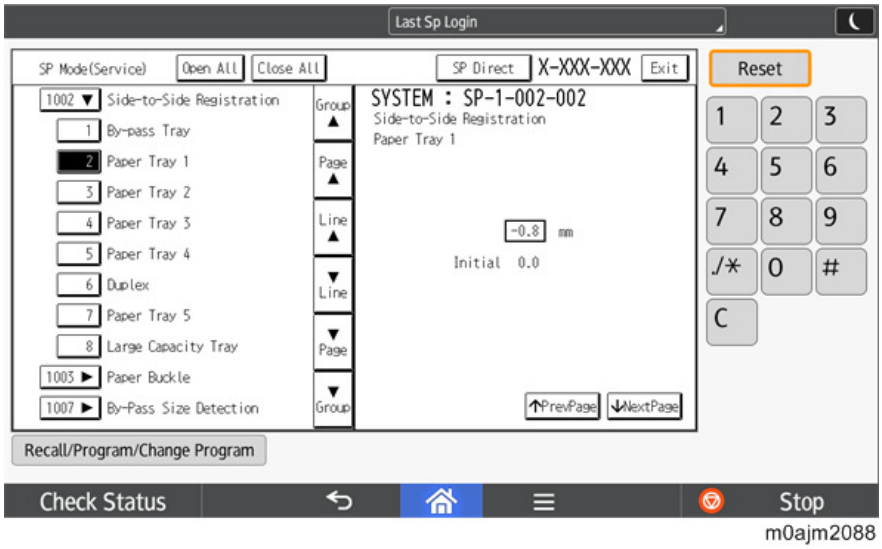
1	Opens all SP groups and sublevels.
2	Closes all open groups and sublevels and restores the initial SP mode display.
3	Enter the SP code directly with the number keys if you know the SP number. Then press [#]. The required SP Mode number will be highlighted when pressing [#]. If not, just press the required SP Mode number.
4	Press two times to leave the SP mode and return to the printer screen to resume normal operation.
5	Press any Class 1 number to open a list of Class 2 SP modes.
6	Press to scroll the show to the previous or next group.
7	Press to scroll to the previous or next display in segments the size of the screen display (page).
8	Press to scroll the show the previous or next line (line by line).
9	Press to move the highlight on the left to the previous or next selection in the list.

Selecting the Program Number

Program numbers have two or three levels.

1. Refer to the SP Tables to find the SP that you want to adjust before you begin.
2. Press the Group number on the left side SP Mode window that contains the SP that you want to adjust.
3. Use the scrolling buttons in the center of the SP mode window to show the SP number that you want to open.
4. Then press that number to expand the list.
5. Use the center touch-panel buttons to scroll to the number and title of the item that you want to set and press it.

   The small entry box on the right activates and shows the below default or the current settings.



Note

- Refer to the SP Tables for the range of allowed settings.

6. Do this procedure to enter a setting:

1. Press [./*] to toggle between plus and minus and use the keypad to enter the appropriate number. The number you enter writes over the previous setting.
2. Press [#] to enter the setting. (The value is not registered if you enter a number that is out of range.)
3. Press "Exit" to go back to user operation screen.

Service Mode Lock/Unlock

At locations where the machine contains sensitive data, the customer engineer cannot operate the machine until the Administrator turns the service mode lock off. This function makes sure that work on the machine is always done with the permission of the Administrator.

1. If you cannot go into the SP mode, ask the Administrator to log in with the User Tool and then set "Service Mode Lock" to OFF after he or she logs in:

User Tools > Machine Features > System Settings > Administrator Tools > Service Mode Lock > OFF

- This unlocks the machine and lets you get access to all the SP codes.
- The CE can service the machine and turn the machine power OFF then ON. It is not necessary to ask the Administrator to log in again each time the main power is turned ON.

2. Go into the SP mode and set SP5-169 to "1" if you must use the printer bit switches.

3. After machine servicing is completed:

- Change SP5-169 from "1" to "0".
- Turn the machine power OFF then ON. Tell the administrator that you have completed servicing the machine.
- The Administrator will then set the "Service Mode Lock" to ON.

Remarks

The maximum number of characters which can show on the control panel screen is limited to 30 characters. For

this reason, some of the SP modes shown on the screen need to be abbreviated. The following are abbreviations used for the SP modes for which the full description is over 20 characters.

Item	Description
Paper Weight	Thin paper: 52-59 g/m^2, 14-15lb. Bond Plain Paper1: 60-74 g/m^2, 16-20lb. Bond Plain Paper2: 75-81 g/m^2, 20lb. Bond Middle Thick: 82-105 g/m^2, 20-28lb. Bond Thick Paper1: 106-169 g/m^2, 28lb. Bond-90lb. Index Thick Paper2: 170-220 g/m^2, 65-80lb. Cover Thick Paper3: 221-256 g/m^2, 80lb. Cover-140lb. Index Thick Paper4: 257-300 g/m^2, 140lb. Index-110lb. Cover
Paper Type	N: Normal paper MTH: Middle thick paper TH: Thick paper
Paper Feed Station	P: Paper tray B: By-pass table
Print Mode	S: Simplex D: Duplex

Others

The settings of each SP mode are explained in the right-hand column of the SP table in the following way.

[Adjustable range / **Default setting** / Step] Alphanumeric

Note

- If "Alphanumeric" is written to the right of the bracket as shown above, the setting of the SP mode shows on the screen using alphanumeric characters instead of only numbers. However, the settings in the bracket in the SP mode table are explained by using only the numbers.

The following symbols are used in the SP mode tables.

Notation	What it means
ENG	Engine SP
CTL	Controller SP
FA	Factory setting: Data may be adjusted from the default setting at the factory. Refer to the factory setting sheets enclosed. You can find it in the front cover.
DFU	Design/Factory Use only: Do not touch these SP modes in the field.
*	An asterisk (*) to the left side of ENG/CTL column means that this mode is stored in the NVRAM. If you do a RAM clear, this SP mode will be reset to the default value. "ENG" and "CTL" show which NVRAM contains the data. • *ENG: NVRAM on the BCU board • *CTL: NVRAM on the controller board

Notation	What it means
SSP	This denotes a "Special Service Program" mode setting.

SP Tables

See "Appendices" for the following information:

- Engine SP1000
- Engine SP2000
- Engine SP3000
- Engine SP4000
- Engine SP5000
- Engine SP6000
- Engine SP7000
- Controller SP5000
- Controller SP7000
- Controller SP8000
- Printer SP Mode
- Input Check
- Output Check

Firmware Update (SD Card)

Overview

In order to update the firmware of this machine, it is necessary to download the latest version of firmware on an SD card.

Insert the SD card into SD card slot 2 beside the rear left of the controller box.

Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

Firmware Type

Firmware type	Firmware location
System	Controller Board
Engine	BCU
Operation Panel	Smart Operation Panel
Finisher1	Finisher
Bank	Optional PFU
LCIT	LCIT
Mail Box	MailBox
Network Support	Smart Operation Panel – CPU board
Bank2	Bank
BIOS	BCU
HDD format option	Controller Board
Folding unit	Folding unit
RPCS	Controller Board
PS	Controller Board
PCL	Controller Board
PDF	Controller Board
PictBridge	Controller Board
XPS	Controller Board
MediaPrint: JPEG	Controller Board
MeidaPrint: TIFF	Controller Board
FONT	Controller Board
FONT2	Controller Board
FONT6	Controller Board
NetworkDocBox	Smart Operation Panel – CPU board

Firmware type	Firmware location
Printer apl	Smart Operation Panel – CPU board
Websupport	Smart Operation Panel – CPU board
WebUapl	Smart Operation Panel – CPU board

What is Included in the Firmware Package

Modules included in the firmware package are indicated by ticks (✓) in the firmware download web site. Firmware not included in the package requires updating by SD cards, etc.

Procedure

Important

- An SD card is a precision device, so when you handle an SD card, respect the following.
- When the power is switched ON, do not insert or remove a card.
- During installation, do not switch the power OFF.
- Since the card is manufactured to high precision, do not store it in a hot or humid location, or in direct sunlight.
- Do not bend the card, scratch it, or give it a strong shock.
- Before downloading firmware to an SD card, check whether write-protection of the SD card is canceled. If write-protection is enabled, an error code (error code 44, etc.) will be displayed during download, and the download will fail.
- Before updating firmware, remove the network cable from this machine.
- If SC818 is generated during software update, switch the power OFF -> ON, and complete the update which was interrupted.
- During software update, disconnect network cables and interface cables, remove wireless boards, etc., (so that they are not accessed during the update).

Preparing the SD Card

Note

- When preparing the SD card, do not include other applications in the one for the VM version update.

1. Format an SD card.
2. Create a folder in the SD card and name it "romdata".
3. Download the firmware from SERES BB and store it in the "romdata" folder.
4. Unzip the downloaded file.
5. From the unzipped folder, move the necessary firmware files (e.g. M0AJxxxx.fwu)"fwu" file to the "romdata" folder created in step 2.

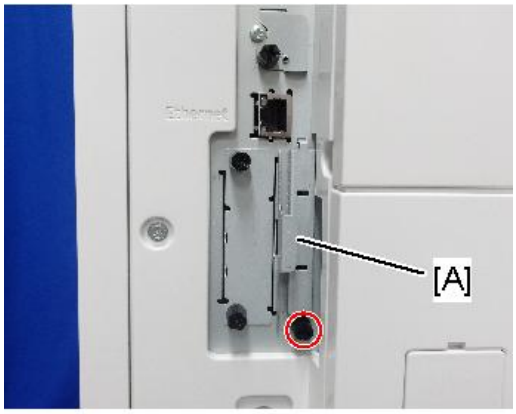
Note

- Do not remove the SD card from SD card slot until data writing is finished.
- Do not put multiple machine firmware programs on the same SD card. Copy the only model firmware

you want.

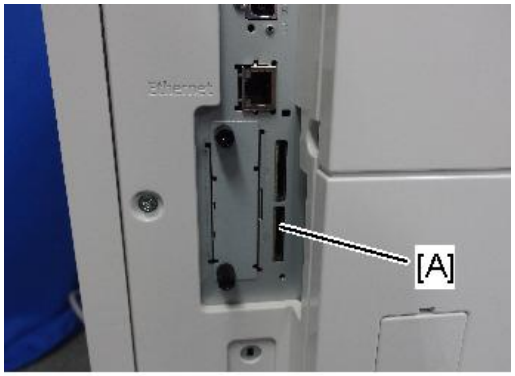
Update Procedure

1. First download the new firmware to the SD card.
2. Turn OFF the main power.
3. Remove the SD card slot cover [A] (coin screw x 1).



m0ajm0023

4. Insert the SD card into SD card slot 2 [A: Lower Slot].



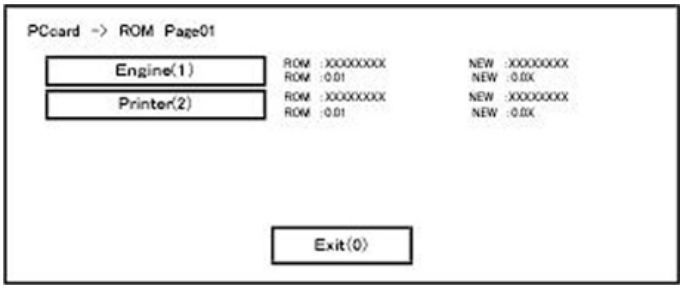
m0ajm0024

Note

- Check whether the card is properly in the SD card slot. When a SD card is inserted, a click is heard, and it is locked.
- To remove the card, release by pressing once.

5. Turn ON the main power.
6. Wait until the update screen starts (about 45 seconds).
   When it appears, "Please Wait" is displayed.
7. Check whether a program installation screen is displayed. (English display) When the SD card contains two

or more software modules, they are displayed as follows.



<<When two or more software names are displayed>>

1. Press the module selection button or [1] - [5] on the 10-key pad.
2. Choose the appropriate module. (If already selected, cancel the selection)

Operation of keys or buttons

Keys or buttons to press	Contents
[Exit] or 10-key pad [0]	Returns to normal screen.
[Start] Key	Select all modules.
[Clear/Stop] key	Cancel all selections.

Display contents

On the above screen, two programs, i.e., engine firmware and printer application are displayed. (The screen may change depending on the firmware or application).

The display contents are as follows:

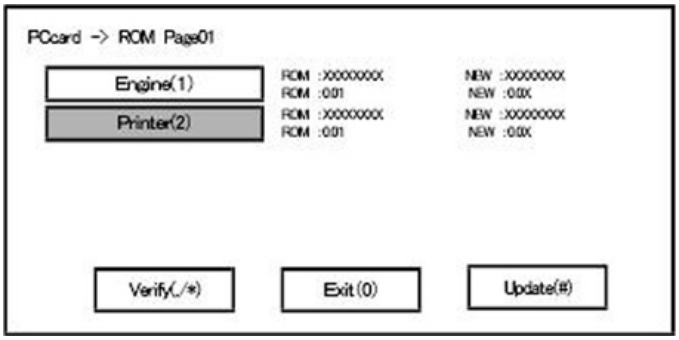
Display	Contents
ROM:	Display installed module number / version information.
NEW:	Display module number / version information in the card.

The upper row corresponds to the module name, the lower row corresponds to the version number.

8. Select the module with the module selection button or 10 key pad operation. The selected module is highlighted, and [Verify] and [Update] are displayed.

Note

- Depending on the combination of modules to update, it may not be possible to select all of them simultaneously.

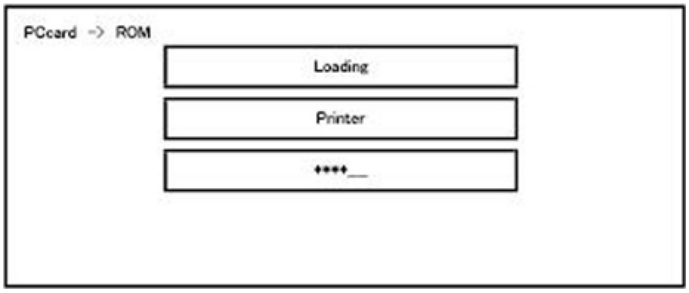


<<Key or button operations>>

Keys or buttons to press	Contents
[Update] or [#] key	Update the ROM of the selected module.
[Verify] button or [./*] key	Perform verification of the selected module.

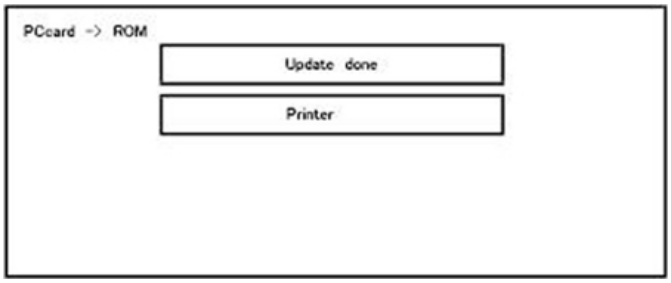
9. Press the [Update] or [#] key, and perform software update.

10. During firmware update, a "firmware update/ verification progress screen" is displayed. When firmware update is complete, a "firmware update end screen" is displayed.



- In the middle row, the name of the module currently being updated is displayed. (in this case, the printer module is being updated)
- In the lower row, a progress bar is displayed in ten steps. (The more *, the more the progress.)

<<Firmware update end screen>>



- This screen is displayed when all selected firmware modules are to be updated. "Printer" in the second row shows that the module updated last is the printer. (When more than one were updated simultaneously, only the module that was updated last is displayed.)
- When Verify has completed normally, the Update done display of the above screen is "Verify done." If "Verify Error" is displayed, reinstall the software of the application displayed in the lower row.

11. After turning the main power OFF, remove the SD card.

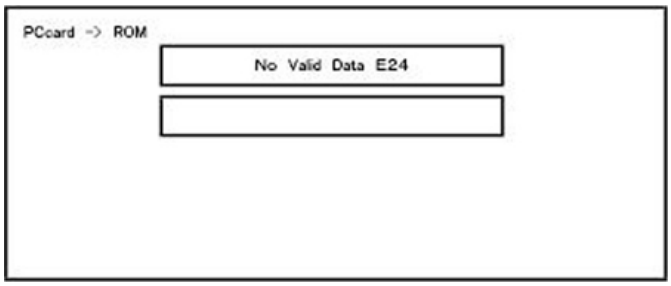
12. Turn the main power ON again, and check whether the machine is operating normally.

13. Return the SD card slot cover to the original position.

Note

- When the power supply is switched OFF during firmware update, update is interrupted, and the power is switched ON again, normal operation cannot be guaranteed.
- To guarantee operation, an update error continues to be displayed until update is successful. In this case, insert the SD card again, switch the power ON, and continue download of firmware from the SD card automatically.

Error Screens During Updating



EXX shows an error code.

For error codes, refer to the following table:

Error Code List

Code	Contents	Solutions
20	Physical address mapping cannot be performed.	• Switch the main power supply off and on to try again. • Re-insert the SD card to reboot it. • Replace the controller board if the above solutions do not solve the problem.
21	Insufficient memory for the download	• Switch the main power supply off and on to try again. • Replace the controller board if the updating cannot be done by switching the power off and on.
22	Decompression of compressed data failed.	• Switch the main power supply off and on to try again. • Replace the SD card used for the update. • Replace the controller board if the above solutions do not solve the problem.
24	SD card access error	• Re-insert the SD card. • Switch the main power supply off and on to try again. • Replace the SD card used for the update. • Replace the controller board if the above solutions do not solve the problem.
32	The SD card used after download suspension is incorrect. SD cards are different between the one which was inserted before power interruption and the one which was inserted after power interruption.	• Insert the SD card containing the same program as when the firmware update was suspended, and then switch the main power supply off and on to try again. • There is a possibility that the SD card is damaged if the update cannot be done after the correct SD card has been inserted. In this case, try again with

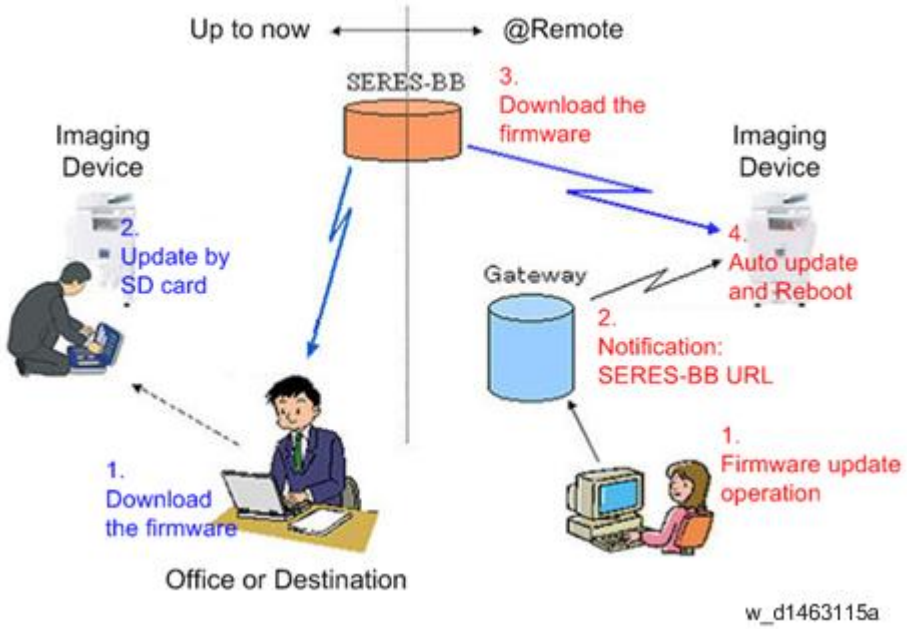
Code	Contents	Solutions
		a different SD card. • Replace the controller board if the above solutions do not solve the problem. Replace all relevant boards if the update is done for the BCU and FCU. Replace the operation panel unit if the update is done for the operation panel.
33	Card version error. The wrong card version is downloaded.	• Install the correct ROM update data for each version in the SD card.
34	Destination error. A card for the wrong destination is inserted.	• Install the correct ROM update data for each destination (JPN/ EXP/ OEM) in the SD card.
35	Model error. A card for the wrong model is inserted.	• Install the correct ROM update data for each model in the SD card.
36	Module error. The program to be downloaded does not exist on the main unit. The download destination specified by the card does not match up to the destination for the main unit's program.	• Install the program to be updated in advance. • There is a possibility that the SD card containing the program to be updated has not been mounted. Check to confirm that the SD card has been correctly mounted. • The SD card is incorrect if the program to be updated has been correctly installed. In this case, insert the correct SC card.
38	The version of the downloaded program has not been authorized for the update.	• Make sure that the program to be overwritten is the specified version.
40	Engine download fails.	• Switch the main power supply off and on to try again. • If the download fails again, replace the controller board and the BCU.
42	Control panel / language download fails.	• Switch the main power supply off and on to try again. • If the download fails again, replace the controller board and the operation panel unit.
43	Printing download fails.	• Switch the main power supply off and on to try again. • The SD card is damaged if the update fails again. Replace the SD card.
44	The data to be overwritten cannot be accessed when controller-related programs are downloaded.	• Switch the main power supply off and on to try again. • Install the correct ROM update data in the SD

Code	Contents	Solutions
		card. • Replace the controller board if the data to be overwritten is contained on the controller board.
49	Firmware updates are currently prohibited.	• The setting of Update Firmware in the Administrator Tools has been set to [Prohibit] by an administrator. Amend the setting to [Do not Prohibit] and try again.
50	The results of the electronic authorization check have rejected the update data.	• Install the correct ROM update data in the SD card.
57	@Remote is not connected at the date/time reserved for receiving the package firmware update from the network.	• Check the @Remote connection.
58	Update cannot be done due to a reception route problem.	• Check the @Remote connection.
59	HDD is not mounted.	• Check the HDD connection.
60	HDD could not be used during the package firmware update.	• Try again. • Replace the HDD if the download fails again.
61	The module ID for the package firmware update is incorrect.	• Prepare the correct package files.
62	The configuration of the package firmware update files is incorrect.	• Prepare the correct package files.
63	Reception fails due to the power off at the reserved date/time of the remote firmware update from the network.	• Update is to be done automatically when the next reception time has elapsed.
64	Reception fails due to the power off at the reserved date/time of the package firmware update from the network.	• Reset the reservation date/time for the remote update.
65	Reception fails due to the status error of the machine at the reserved date/time of the remote firmware update from the network.	• Update is to be done automatically when the next reception time has elapsed.
66	Reception failed due to the status error of the machine at the reserved date/time of the package firmware update from the network.	• Reset the reservation date/time for the remote update.
67	Acquisition of the latest version information from the Gateway fails at the reserved date/time of the remote firmware update from the network.	• Check that the network is connected correctly.

Code	Contents	Solutions
68	Acquisition of the latest version information from the Gateway fails.	• Check that the network is connected correctly.
69	Download fails at the reserved date/time of the remote firmware update from the network.	• Check that the network is connected correctly.
70	Package firmware download from the network fails.	• Check that the network is connected correctly.
71	Network communication error occurs at the reserved date/time of the package firmware update from the network.	• Check that the network is connected correctly.
72	The setting of @Remote is invalid at the reserved date/time of the package firmware update from the network.	• Set the setting of @Remote Service in the Administrator Tools to [Do not Prohibit].

Firmware Update (Remote Firmware Update)

In this machine, software can be updated by remote control using @Remote.



Types of firmware update files, supported update methods:

	SFU	SD	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

RFU Performable Condition

RFU is performable for a device which meets the following conditions.

1. The customer consents to the use of RFU.
2. The device is connected to a network via TCP/IP for @Remote.

Firmware Update (Smart Firmware Update)

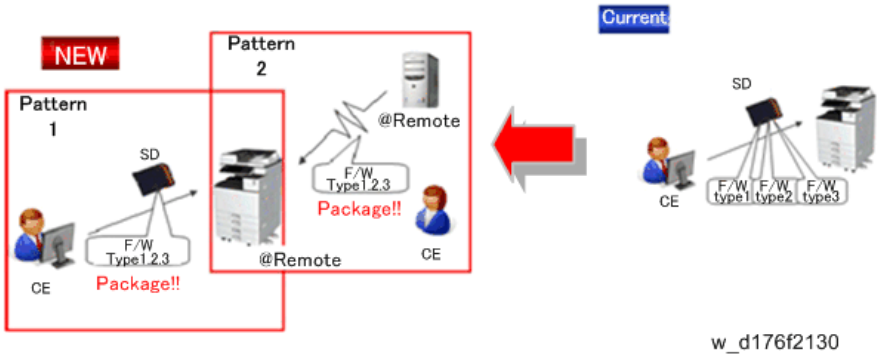
⚠CAUTION

- A HDD unit must be installed on the machine to enable the SFU or the package firmware update via SD card.

Overview

Each firmware module (such as System, Engine, etc.) used to be updated individually. However, an all-inclusive firmware package (package_ALL) is now available.

There are several ways to update using the firmware package.



Package Firmware Update via a network: SFU (Smart Firmware Update)

- There are two methods for SFU.
  - Immediate Update: To update the firmware when visiting
  - Update at the next visit: To set the date and time for downloading. The firmware will be automatically downloaded beforehand and updated at the following visit.
- "Update at the next visit" is recommended since firmware download may take some minutes due to the network condition.

Note

- SFU requires the connection to @Remote via a device which has the embedded @Remote communicating function. When a machine is connected to @Remote via an intermediate device (RC Gate), the SFU function is disabled.

Other than SFU, package firmware update can also be performed by using the following three methods.

- Package Firmware Update via a network: ARFU (Auto Remote Firmware Update)
- Package Firmware Update via an SD Card
- Package Firmware Update via a network: RFU (Remote Firmware Update)

Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

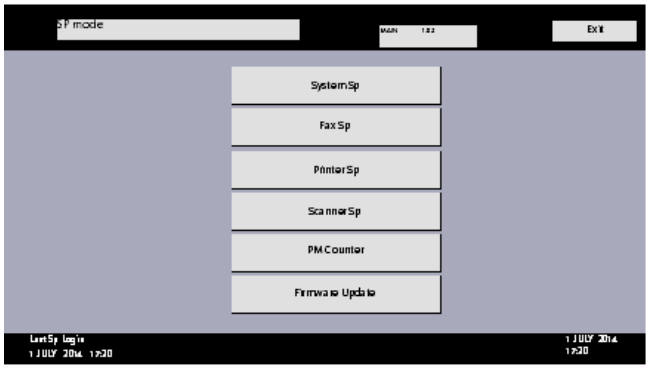
Immediate Update

Enter the [Firmware Update] menu in the SP mode and update the package firmware.

Note

- The [Firmware Update] button will appear even when a machine is connected to @Remote with a device which does not have an embedded @Remote communicating function.
- If an error code is displayed, refer to Error Screens During Updating.

1. Enter the SP mode.
2. Touch [Firmware Update].



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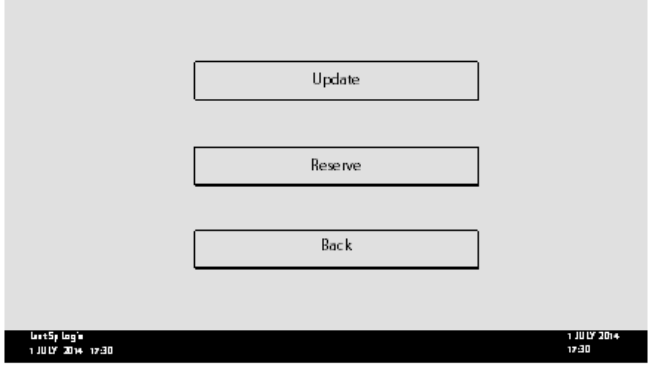
3. Touch [Update].



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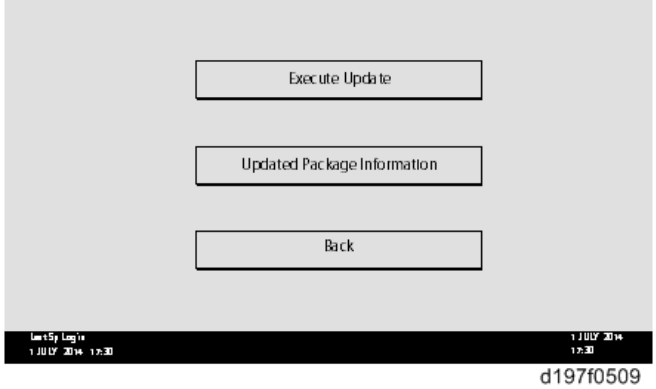
4. Touch [Execute Update].



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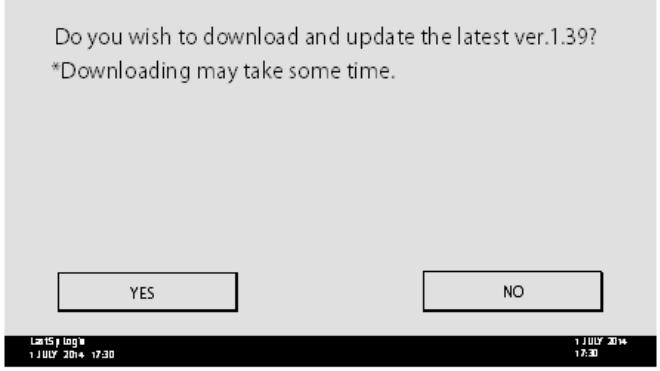
5. Touch [YES].



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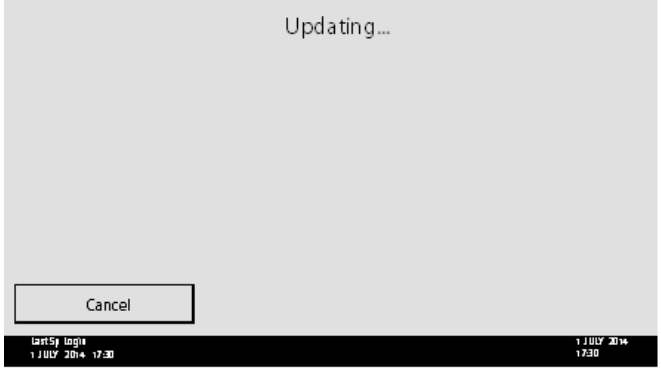
6. The following will be displayed.



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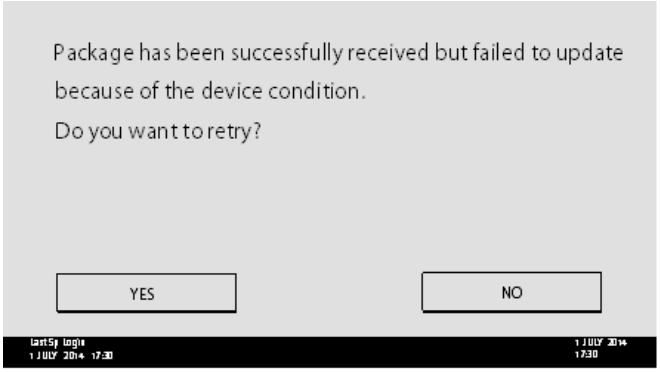
Note

- If the error code E66, which indicates that the download of the firmware has failed, is displayed, go back to step 1.
- Update will be started automatically after the download is finished.
- When the machine is in the update mode, the automatic update is suspended if a print job is started. After the print job is finished, touch [YES] on the display shown below to restart updating.



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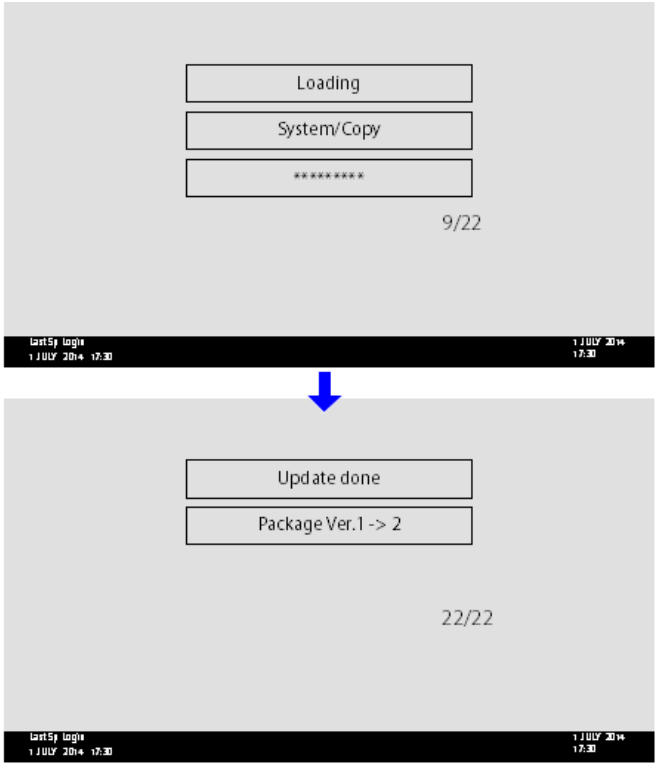
7. [Update done] is displayed.

- The machine will automatically reboot itself.



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Note

- The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

Update at the Next Visit (Reserve)

It is possible to set the machine to download the package firmware which is necessary for SFU in advance, and then perform the actual installation at the next service visit. This saves waiting time for the firmware to download at the service visit.

How to Set the Machine to Download Firmware Later (Reserve)

Enter the [Firmware Update] menu in the SP mode and update the package firmware.

Note

- The [Firmware Update] button will appear even when a machine is connected to @Remote with a device which does not have an embedded @Remote communicating function. If an error code is displayed, refer to Error Screens During Updating.

1. Enter the SP mode.

2. Touch [Firmware Update].

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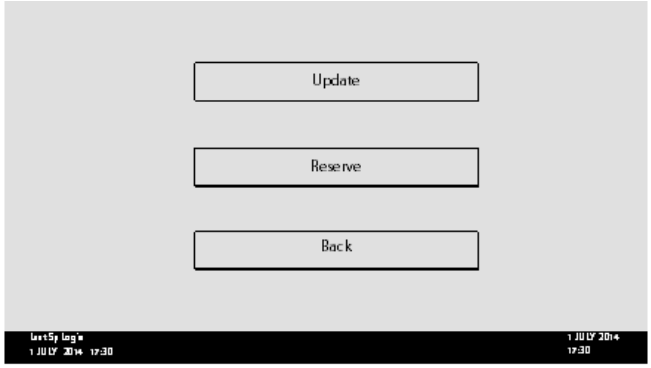
3. Touch [Reserve].



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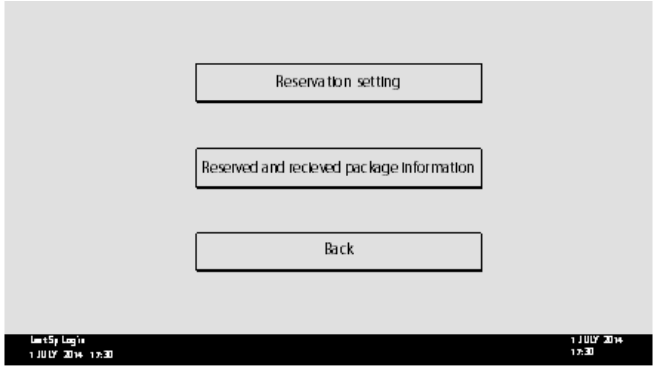
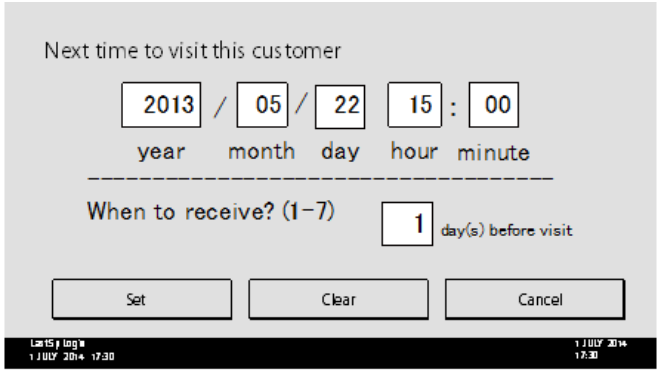
4. Touch [Reservation setting].



d197f0510

5. Enter the dates and times of the next visit and the start of receiving data.

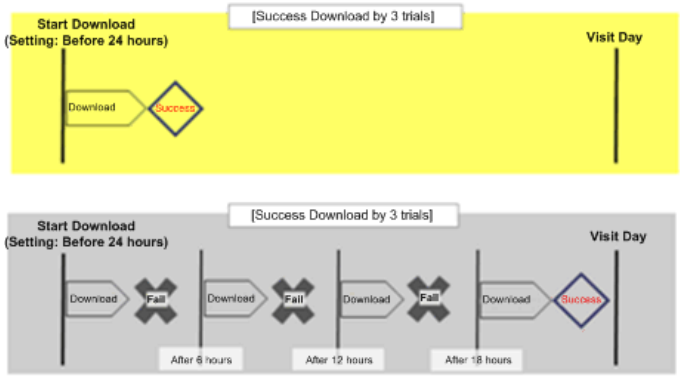
- "Next time to visit this customer": The package firmware will be automatically downloaded by this time/date.
- "When to receive? (1-7)": The download of the package firmware will begin this number of days before the next visit.



d197f0512

Successful Download

In the two diagrams below, the firmware is set to be downloaded by the day before the next scheduled visit. In the first diagram, the download is successful on the first try. In the second diagram, the download fails three times and is successful on the fourth try.



w_d197f0507

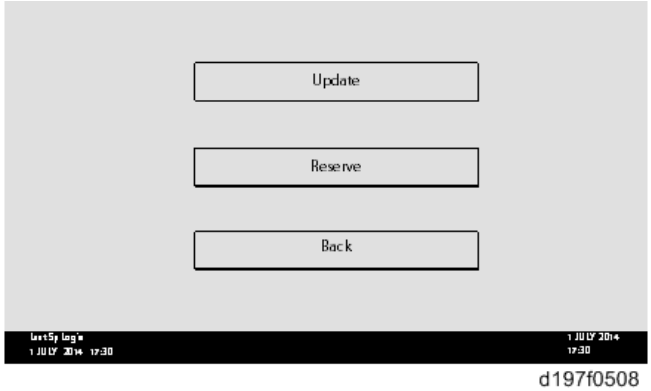
- If the firmware download fails or cannot be completed due to the network settings/condition, no power to the machine, or other reason, the machine will continue retrying every six hours until the scheduled deadline (up to a maximum of four tries). For example, if the download is set for the day before the next visit, the machine will attempt the download at 24 hours before the visit, and then continue trying every six hours (max. four tries total).
- The retry is only performed in cases when the firmware download has failed.
- If the machine is in Energy Saver mode when the download is scheduled to begin, the download will be performed in the background and the machine/panel will stay in Energy Saver mode.
- The download will continue uninterrupted even if the customer initiates a print job or other operation while the download is in progress.
- The download will be terminated if the customer turns the power off while the download is in progress.
- If the download cannot be completed successfully by the time of the next scheduled visit, the machine will stop trying to download the firmware.

How to Check if the Firmware Downloaded with Reserve

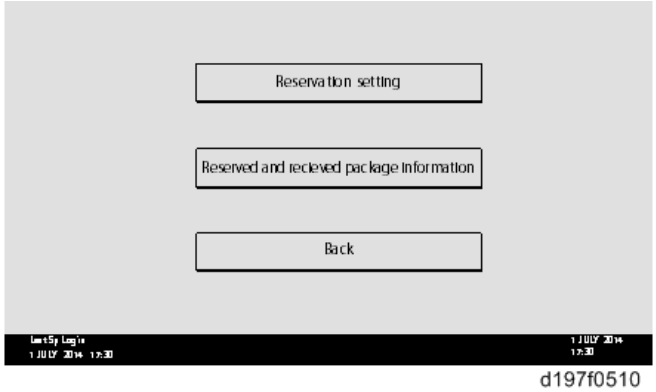
1. Enter the SP mode.

2. Touch [Firmware Update].

3. Touch [Reserve].

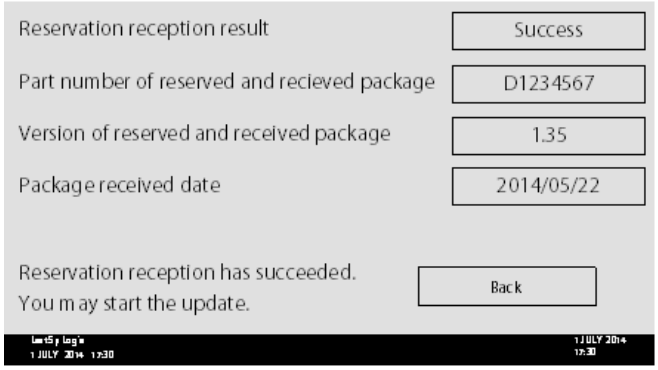


4. Touch [Reserve and received package information].



5. Check the information displayed.

When the package firmware was downloaded successfully, the details of the download result are displayed as the following picture shows.



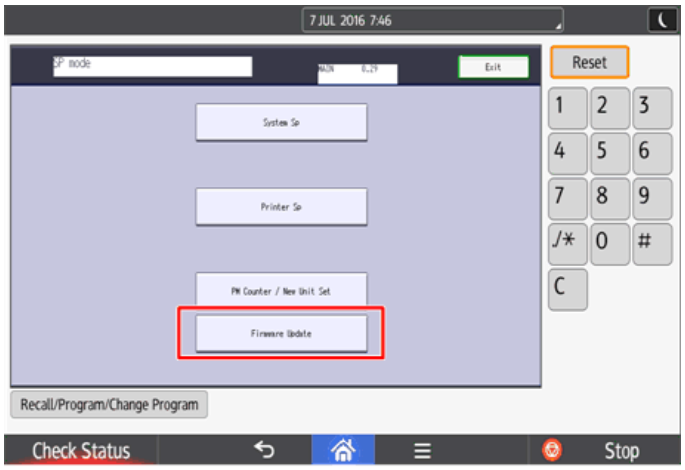
d197f0511

Note

- This information will only be displayed if the reserved firmware has already been downloaded. If not, all the data items are indicated with "-".

How to Install Firmware Downloaded with Reserve

1. Enter the SP mode.
2. Touch [Firmware Update].



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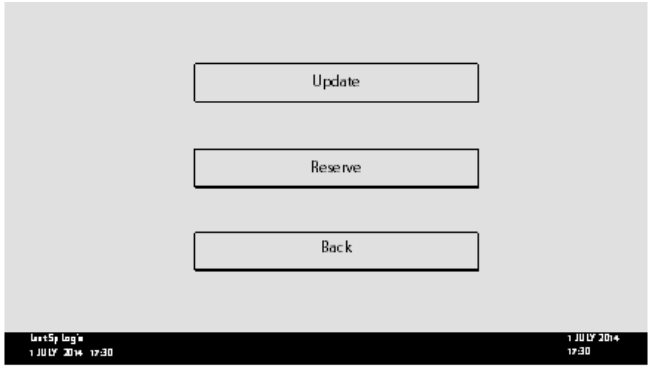
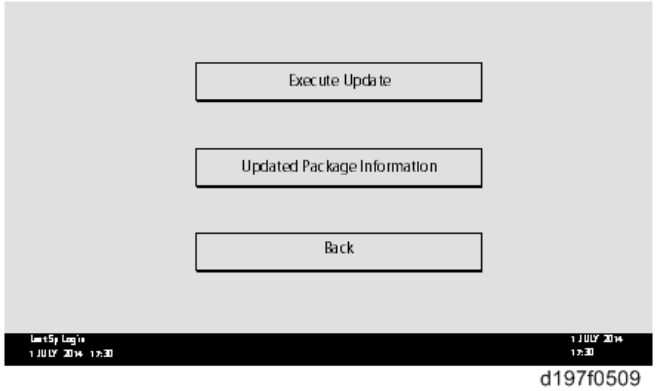
3. Touch [Update].



d197f0508

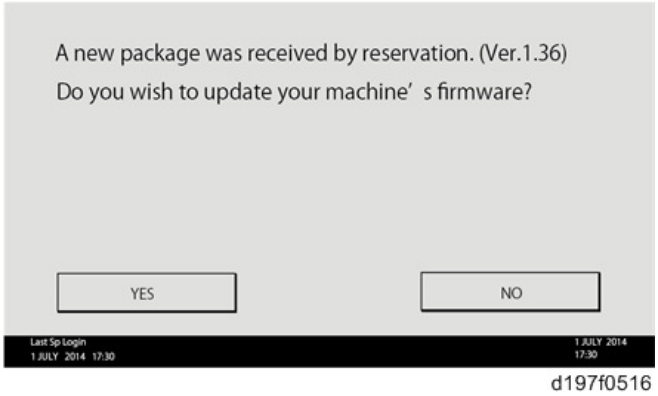
4. Touch [Execute Update].



d197f0509

5. Check the version of the received package firmware, and then touch [YES].

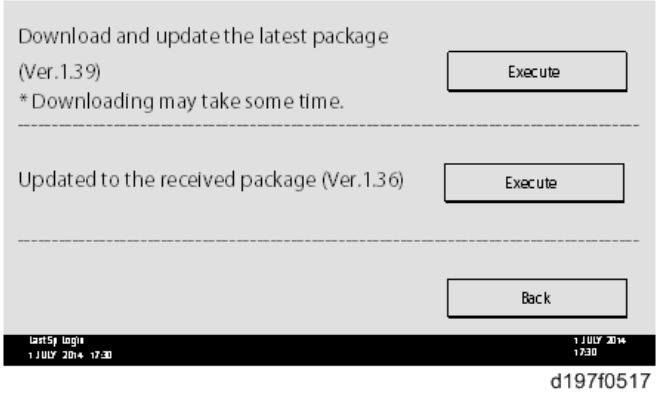
- Update is started.



d197f0516

Note

- If the version of the reserved package in the HDD is older than the latest version, the messages shown in the following picture are displayed.

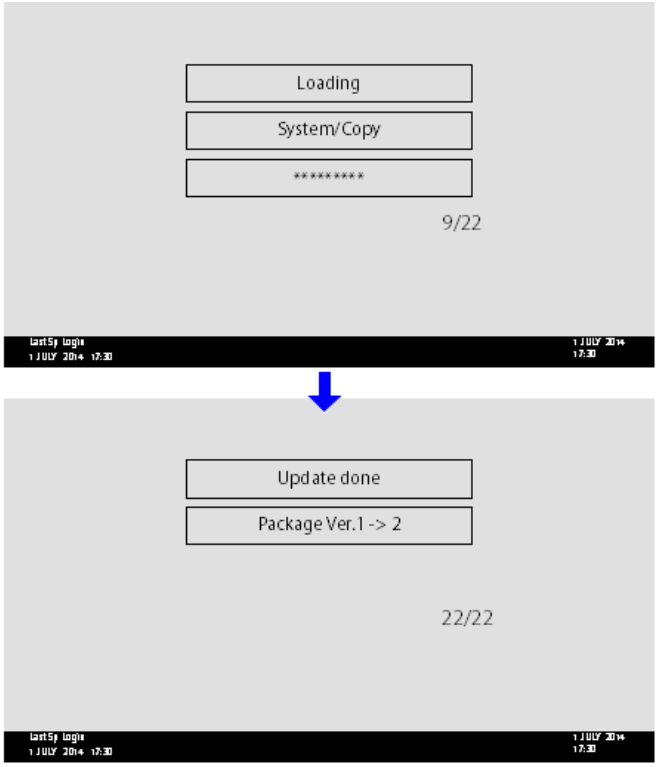


d197f0517

- If you wish to download the latest version, touch [Execute] beside the message "Download and update the latest package." Then update of the package firmware will be started.
- If you wish to update using the firmware in the HDD (old version), touch [Execute] beside the message "Update to the received package."

6. [Update done] is displayed.

- The machine will automatically reboot itself.



d197f0518

Note

- The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

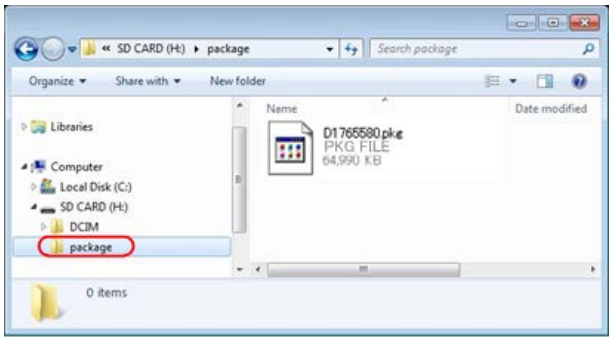
Update via SD Card

Update with an SD card, which is the conventional method, is available if you write the package firmware to the SD card.

Note

- If an error code is displayed, refer to Error Screens During Updating.

1. Create a new folder in the SD card, and then name it "package".
2. Copy the package firmware (xxxxxxxx.pkg) to this folder.



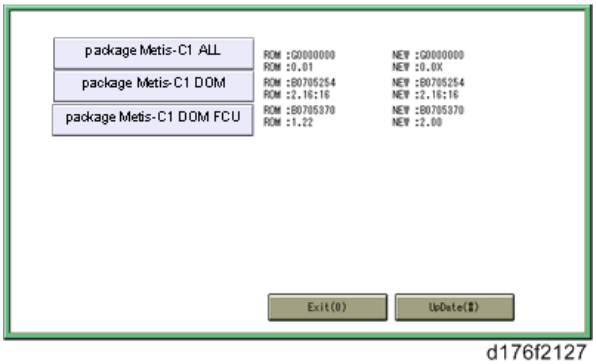
d197f0504

Important

- If you copy the package firmware into the conventional "romdata" folder, the update will not work.
- Only one version of the package firmware should be copied into the folder. If you copy multiple

versions of package firmware to the SD card, the machine will select only one version of the firmware randomly.

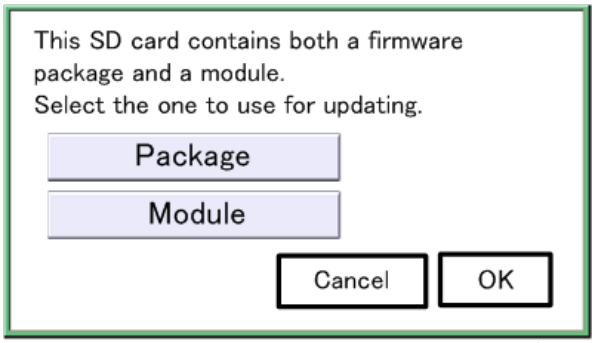
3. Turn the power OFF.
4. Insert the SD card which contains the package into SD card slot 2 (for service).
5. Turn the power ON and touch [Update].



d176f2127

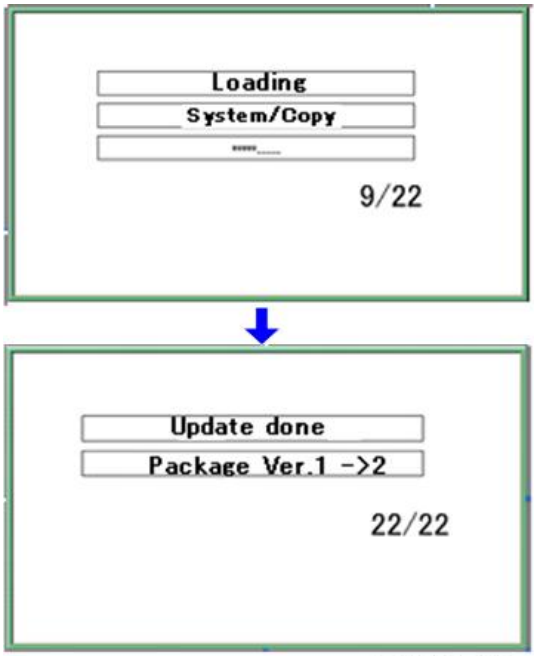
Note

- When the SD card contains both a firmware package and one or more modules, the following display may show up. Select [Package] and touch [OK] to move to step 5 above.



d176f2128

6. Update is started automatically after the package firmware download to the HDD has been completed.
7. When update is completed, "Update done" is displayed.



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Note

- The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

8. Turn the main power switch OFF, and then pull out the SD card from SD card slot 2.

9. Turn the power ON.

Firmware Update (Auto Remote Firmware Update)

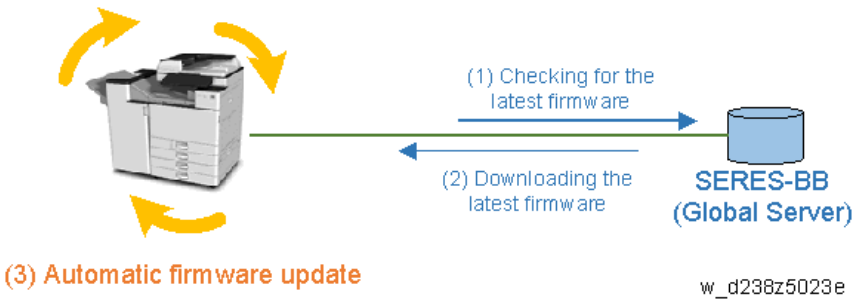
Note

- Auto remote firmware update (ARFU) requires connection to the Internet. Be sure to get permission from the customer before setting up this feature.
- ARFU can only be used on machines that have a HDD. If using ARFU at machine installation for SP C840, an optional HDD is required.

Overview

By Auto Remote Firmware Update (ARFU), the firmware is updated by checking the global server every 76 hours and downloading the latest package if it is newer than the one installed on the machine.

Function Overview



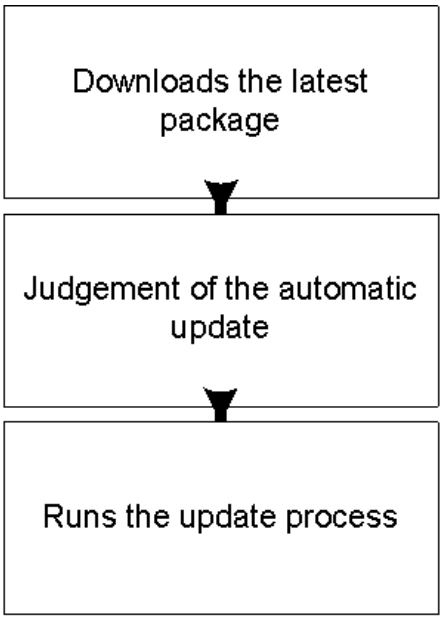
Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

What is Included in the Firmware Package

Modules included in the firmware package are indicated by ticks (✓) in the firmware download web site. Firmware not included in the package requires updating by SD cards, etc.

Downloading and Updating Process



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Downloads the Latest Package

The machine checks the server for the latest package version.

If the version of the package on the global server is later than that of the package installed on the machine, or if the machine has not downloaded the firmware package, the machine downloads the latest package in the background even when the customer is using the machine.

If download fails, the machine will retry downloading 76 hours later.

The downloaded package can also be used with SFU (Smart Firmware Update). A package downloaded with SFU (Smart Firmware Update) can be used with ARFU (Auto Remote Firmware Update) and vice versa.

When replacing the hard disk, the firmware package data becomes lost from the hard disk. Even if the latest firmware is on the new hard disk, be sure to receive the latest package data.

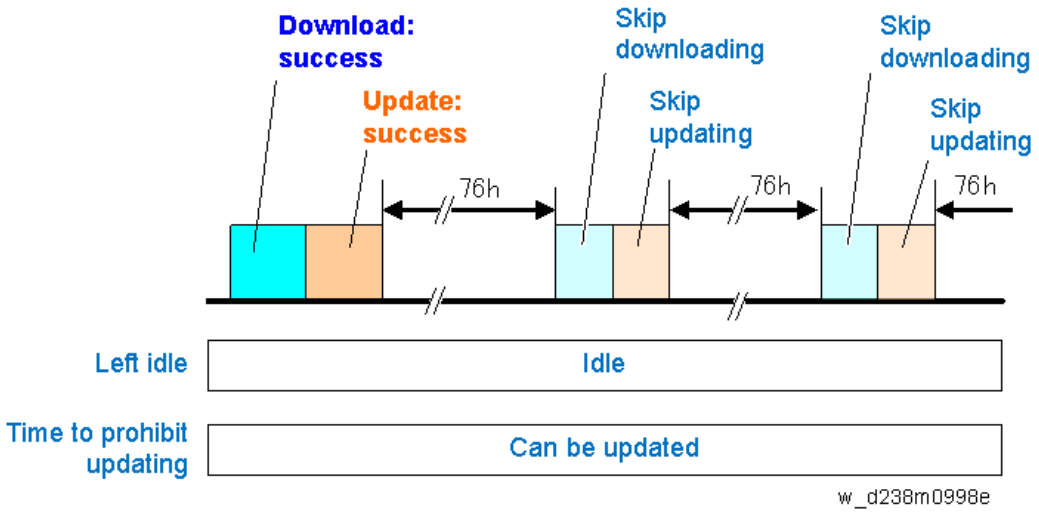
When the machine connects to the server where the package files are stored, the DNS settings and the name solution by DNS are needed. The machine will still try to download the package even if the name cannot be resolved, but will fail as the name is not resolved.

The time and date to send the next inquiry to the global server can be checked with SP5-886-116 (Farm Update Setting: Auto Update Next Date).

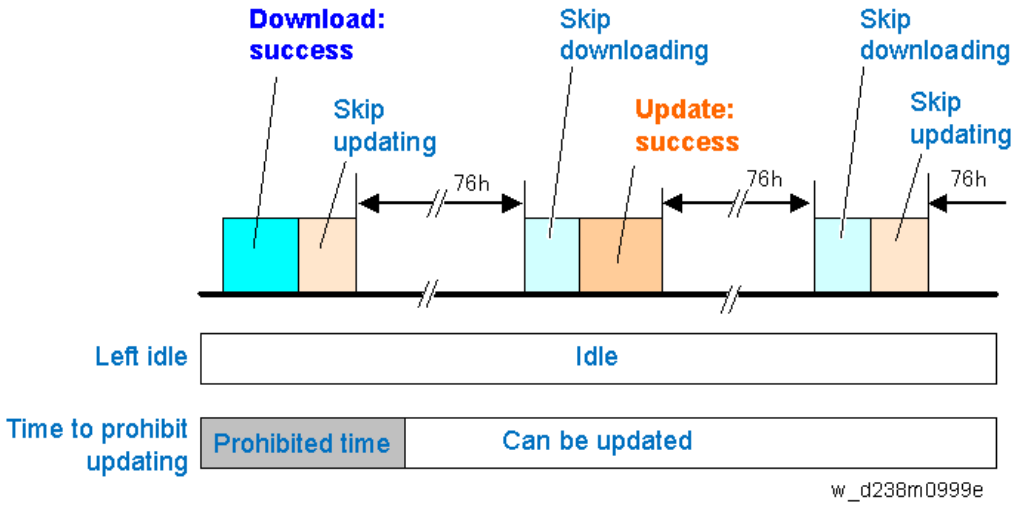
The auto remote firmware update is executed every 76 hours.

Judgement of ARFU

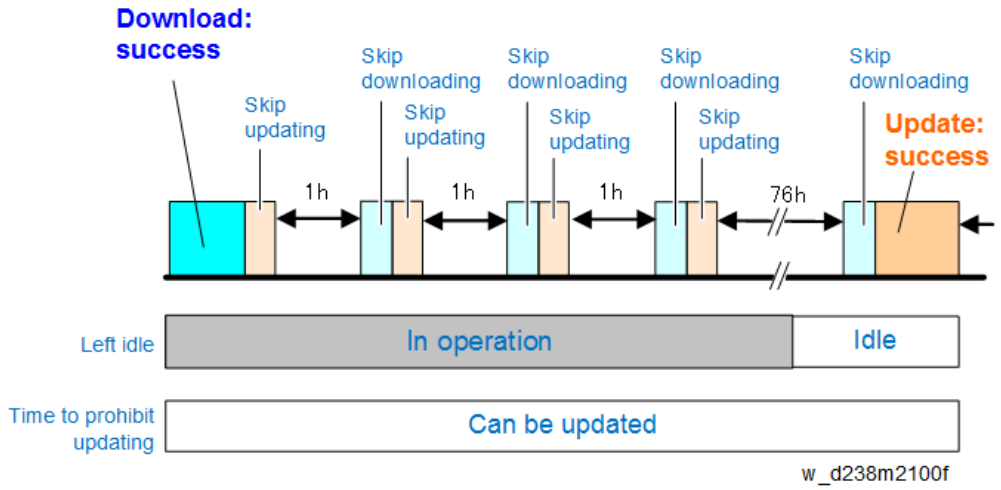
Update judgement is done when the latest update package is successfully downloaded, or the package has already been downloaded.



If the judgement timing is in the range of the update prohibited time or day set with SP or WIM, the machine will retry the update after 76 hours.



If the machine is in use when the judgement process runs, the process is retried. Retry is done up to three times every hour (can be changed with SP) and if the machine is in use for all three retries, the machine will retry the update after 76 hours

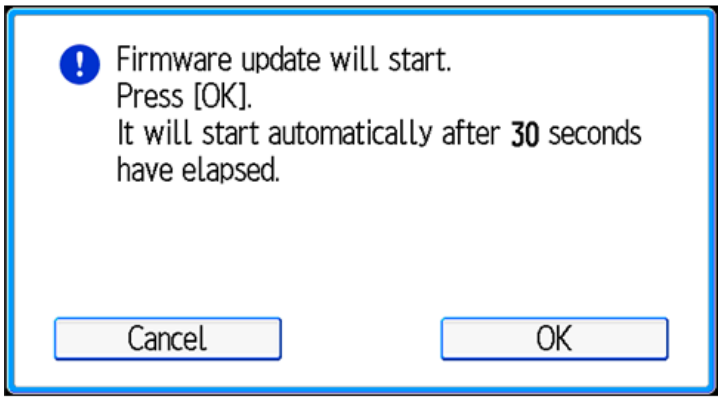


Situations judged as machine in use

No.	Situations judged as machine in use
1	When the control panel is used within 30 seconds
2	During firmware update
3	While firmware update is disabled
4	While printing (re-printing via network)
5	Retrieving image data via network
6	While initial setting (User Tools settings) or SP is being set
7	While shifting to/from the energy server mode
8	When not being able to run firmware update due to the modules that are running e.g.) Waiting for DCS transfer (refer to appendix), accessing devices such as HDD/SD card, etc.
9	While displaying a preview
10	While displaying the printer menu
11	While writing log information
12	While accessing the address book
13	During SC

Update Process

When the machine has decided to run the auto firmware update, the following message is displayed.



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The popup will have "Cancel" and "OK" buttons and the update process will start either when the "OK" button is selected or 30 seconds has passed.

When the "Cancel" button is selected, the machine will run the "Retry update" process.

When the device update and three retries in recovery mode both fail, it is determined as a device defect and will display an SC for the defective device. If such an SC appears, replace the indicated board. In the case of SC845, the SC cannot be reported to the call center.

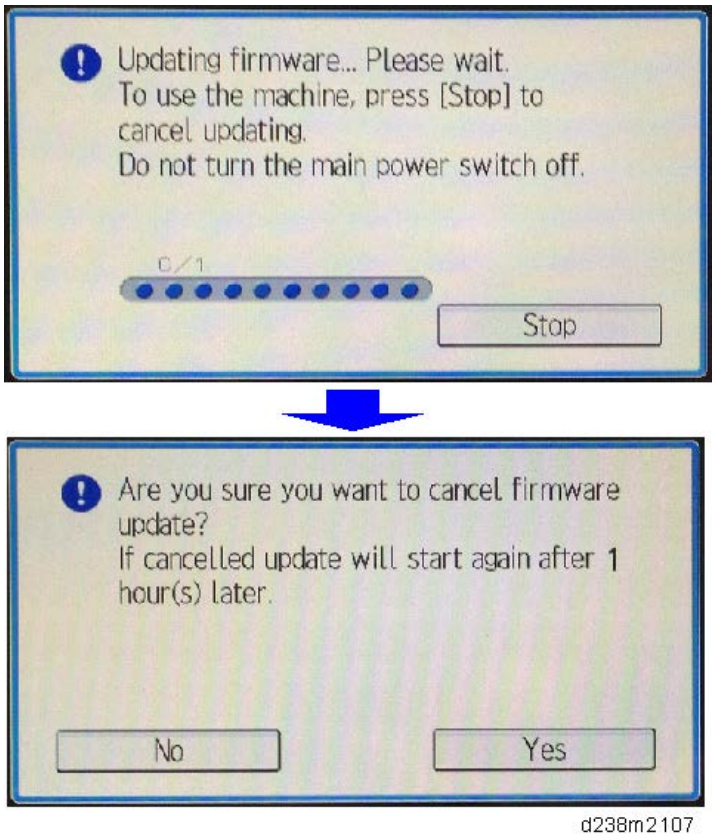
Device and corresponding SC number.

Device name	SC number
Engine board	SC845-01
Controller board	SC845-02

Device name	SC number
Operation panel (normal panel)	SC845-03
Operation panel (smart panel)	SC845-04

Canceling the update

It is possible to cancel the Auto Remote Firmware Update (ARFU) or update in recovery mode from the operation panel.



But this is not possible while updating the operation panel itself. On the other hand, the update for the operation panel will run at the final stage of the update. Thus canceling the update at that stage has no real effect.

When the update is cancelled, the machine will reboot when updates for all modules of one of the following devices is done.

1. Engine Board
2. Controller Board
3. Operation Panel

For example, when the update process is cancelled while updating the first module of the operation panel, the machine will reboot when all modules in the operation panel have been updated.

The firmware contents included in the package can be referred to in the release note in SERES release of the package.

The next update will run 76 hours after the cancellation. The old (cancelled) package will be discarded if the package downloaded 76 hours later is the latest.

Checking the ARFU Result

1. Enter the SP mode.
2. Press [Firmware update].
3. Press [Update].
4. Press [Update Package Information].
5. If the firmware package is the same as the one on the global server, the update was completed successfully. Otherwise, check the result using the logging data.

In SP7-520-041 to -045 (Update Log: Auto:Version), you can check the versions of the packages updated by ARFU. (-041 displays the latest result. It is also printed on the SMC sheet.)

Checking the Result Using the Logging Data

1. Enter the SP mode.
2. Press [System].
3. Check the results for ARFU by SP7-520-051 to 060 (Update Log: Auto:Result)

"-051" is the latest update result. For details about the number of each result log, see the next section "Related SP".

Related SP

SP Number	Selection **Def.**	Overview
SP5-886-111	**0: OFF** 1: ON	Sets auto update ON/OFF by ARFU.
SP5-886-112	**0: OFF** 1: ON	Will not run the update when update prohibited time setting is ON and the current time is in the range of the time set. • Start time < End time: Prohibited time is from the start time to the end time on the same day. • Start time > End time: Prohibited time is from the start time to the end time on the next day. • Start time == End time: Prohibited time setting is disabled. (Update will not be prohibited.)
SP5-886-113	0 to 23 **9**	
SP5-886-114	0 to 23 **17**	
SP5-886-115	**0: OFF** 1: ON	Even when the update function is disabled, downloading the package is allowed. The downloaded package can be used with SFU.
SP5-886-116	Display only	Displays when the latest package check will run.
SP5-886-117	1 to 24 **1**	Set time for the next version check after retry.

SP Number	Selection **Def.**	Overview
SP5-886-120	**0x00**	Update will not run if the corresponding bit for each day below is set to 1. • Prohibited at all times: bit 7 • Monday: bit 6 • Tuesday: bit 5 • Wednesday: bit 4 • Thursday: bit 3 • Friday: bit 2 • Saturday: bit 1 • Sunday: bit 0 This setting is not affected by the prohibited time setting. e.g.) Prohibited on Mon., Fri., Sat., and Sun. : 0x47 (01000111)
SP7-520-011 to 015	Display only	History of date and time when update has started. The five most recent are recorded, the lowest number being most recent. If the last update failed, this is not recorded.
SP7-520-021 to 025	Display only	History of date and time when update has finished. The five most recent are recorded, the lowest number being most recent. The record is created when the update has successfully finished. When the update is cancelled, no record is created.
SP7-520-031 to 035	Display only	History of the package number (including suffix) for which update has completed. The five most recent are recorded, the lowest number being most recent. The record is created when the update has successfully finished. When the update is cancelled, no record is created.
SP7-520-041 to 045	Display only	History of the package version for which update has completed. The five most recent are recorded, the lowest number being most recent. The record is created when the update has successfully finished. When the update is cancelled, no record is created.
SP7-520-051 to 060	Display only	History of the result of the download and the update. Refer below for the numbers set.

Numbers set for the result history for SP7-520-051 to 060

No.	Result	Description
1	Downloading with SFU	Cannot download or update as the machine is now downloading the package for SFU.
2	HDD uninstalled	Cannot download or update as the machine has no HDD.
3	Updating with SFU	Cannot download or update as the machine is being updated with SFU.

No.	Result	Description
4	HDD error	Cannot download or update as the HDD cannot be used.
5	Version information obtain error	Cannot download or update as the version information cannot be obtained.
6	Update download error	Cannot download or update as the update download failed. In non @Remote method, this shows that the download failed because there was no proxy set.
7	Name resolution error	Cannot download or update as the name cannot be resolved upon downloading the update.
8	Auto update setting disabled	The package has been downloaded but will not run the update as SP5-886-111 (auto update setting) is disabled and SP5-886-115 (auto download setting for SFU) is enabled.
9	Update prohibited time	Cannot start to update as the auto update prohibited time setting (SP5-886-112) is enabled and the time update initiated was in the range of prohibited time (SP5-886-113 to 114). Or the day which update was initiated was a day for which update was prohibited (SP5-886-120).
10	Update postponed due to machine in use	Cannot start update due to the following conditions when update was initiated. • The machine is in use by a user (the panel was used within 30 seconds) • Machine offline for other reasons • Operation prohibited • Displaying SP/UP menu • Firmware update is running with another method • Configuration change prohibited • Verifying the operation panel (smart panel)
11	Update cancelled by user	Update was cancelled because a user selected "Cancel" in the popup shown before starting the update.
12	Offline failed	Cannot start to update as the machine is offline for other reasons.
13	Update successful	Update was started and successfully completed.
14	Update failed	Update was started but failed.
15	Update deemed completed	Update was cancelled after the process was initiated because a user selected "Cancel". There is no need to resume the update due to one of the following reasons: • A newer update has been released and received. • When retrying ARFU, the update has already been completed by another method.

No.	Result	Description
16	Update cancelled by user after update initiated	Update was cancelled after the process initiated because a user selected "Cancel" during the update.
17	Version information obtain error (communication failure caused by host name)	Cannot download or update as the name resolution failed when obtaining version information.
18	Version information obtain error (proxy verification failure)	Cannot download or update as the proxy verification failed with proxy settings when obtaining version information.
19	Version information obtain error (other than proxy verification failure when proxy is set)	Cannot download or update as an error other than proxy verification with proxy settings occurred when obtaining version information.
20	Update download error (proxy verification failure)	Cannot download or update as the proxy verification failed with proxy settings when downloading the package.
21	Update download error (other than proxy verification failure when proxy is set)	Cannot download or update as an error other than proxy verification with proxy settings occurred when downloading the package.
22	Update by retry successful	After power failure, unsuccessful update, or rebooting, update by retry is executed successfully. However, this does not apply to the case where the update was cancelled after the process was initiated because a user selected "Cancel". In this case, the update is "successful" if the retry is not executed between the start and completion of the next update (76 hours after the cancellation).

Updating JavaVM

Overview

Updating Java VM is performed with a PC using the update tool.

- Prepare the following items in advance.
  - SD memory card reader/writer
  - PC
- The updating procedure is as follows.

1. Deactivate the SDK applications
2. Remove the VM Card Type P8 from the main machine.
3. Update Java VM with the PC using the update tool.
4. Insert the VM Card Type P8 in the main machine.
5. Activate the SDK applications

Deactivating SDK Applications and Removing the VM Card

Operation from Operation Panel

1. Enable [Machine Management] of the administrator authentication, and log in as the machine administrator. Select the [User Tools] icon > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator authentication] > [Machine Management]. Enable [Machine Management] and login as the machine administrator.

2. Press the [User Tools] icon on Home screen.

3. Press [Machine Features].

4. Press [Extended Feature Settings] twice.

5. Press the [Administrator Tools] tab and then [Heap / Stack Size Settings].

6. Take a note of the current heap size settings in order to check them after version update.

7. Return to the [Extended Feature Settings] screen, and press the [Startup Setting] tab.

8. Disable all SDK applications except Java TM Platform.

9. Press the SDK applications until the status changes from "Starting Up"/"Suspend"/"Ending" to "Stop".

10. Press the [Extended Feature Info] tab.

11. Press the stopped SDK applications to set "Auto Start" to "Off".

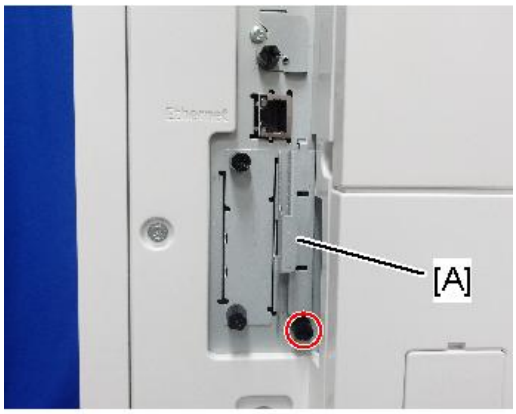
Note

"Auto Start" settings can be enabled on this screen if Type-J SDK applications are enabled.

12. Select [OK] > [Exit].

13. Turn the main power OFF.

14. Remove the SD card slot cover [A] (coin screw x 1).



m0ajm0023

15. Remove VM Card Type P8 from the SD Card Slot 1 (Upper slot).

Operation from Web Image Monitor

1. Log in as the administrator from Web Image Monitor.

2. Take a note of the current heap size setting in [Heap / Stack Size Settings].

- [Device Management] -> [Configuration] -> [Extended Feature Settings] -> [Administrator Tools] -> [Heap / Stack Size Settings]

3. Stop all SDK applications except for Java TM Platform.

1. Display the [Startup Setting] menu.
   - [Device Management] -> [Configuration] -> [Extended Feature Settings] -> [Startup Setting]
2. Check the radio button of the SDK application which status is "Starting Up".
3. Click [Start Up/Stop] to stop the application.
4. "Stop" is displayed in the status column.

Note

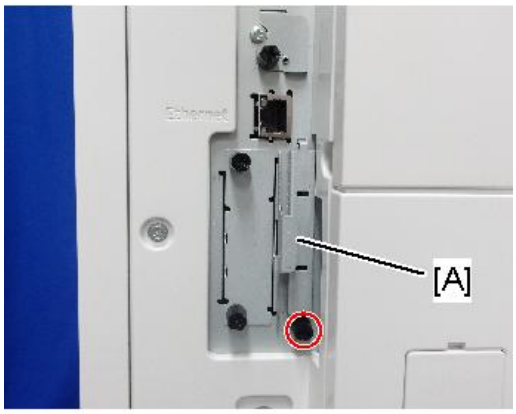
- Do not change the status of Java TM Platform to "Stop".

4. Make sure that "Auto Start" is set to "Off" for each SDK application.

1. Click the [Details] icon ( ) for each SDK application in [Startup Setting].
2. Make sure that "Auto Start" is set to "Off". (Default: On)

5. Turn the main power OFF.

6. Remove the SD card slot cover [A] (Coin screw x 1).



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7. Remove VM Card Type P8 from the SD Card Slot 1 (Upper slot).

Updating JavaVM and Inserting the VM Card

1. Insert VM Card Type P8 into the SD memory card reader/writer of your PC.
2. Check that the SD memory card reader/writer is detected on your PC, and then write down the drive letter. (If the SD memory card reader/writer is detected as (F:), the drive letter is "f")
3. Download the update modules from the Firmware Download Center.
4. Unzip the downloaded file, and then execute the .exe file.
5. The folder is generated.
6. Execute the .bat file in the folder.
7. Input the drive letter following the message "Please input drive letter of SD card [a - x]: ". (If the SD memory card reader/writer is detected as (F:), input "f")

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8. Press the [Enter] key to start updating Java VM.
   It takes 3 minutes to update Java VM.
9. After completing the update, remove VM Card Type P8 from the SD memory card reader/writer of your PC.
10. Insert VM Card Type P8 into SD Card Slot 1 (Upper slot) of the machine.

Activating SDK Applications

1. Make sure that the VM card is fully inserted, and then turn the main power ON.
2. Log in as the machine administrator from Operation panel / Web Image Monitor.
3. Set "Auto Start" whose status is "OFF" to "On".
4. Enable the disabled SDK application.
5. Compare the current heap size settings and the values recorded before update.
   If the settings are not the same as the recorded values, correct the settings to the recorded values.

NVRAM Data Upload/Download

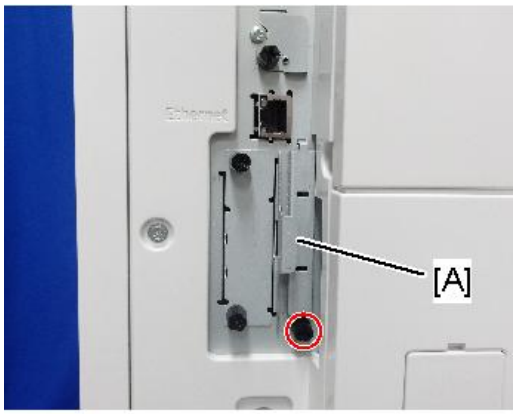
Uploading Content of NVRAM to an SD card

Do the following procedure to upload SP code settings from NVRAM to an SD card.

Note

- This data should always be uploaded to an SD card before the NVRAM is replaced.
- Make sure that the write protection of an SD card is unlocked.

1. Do SP5-990-001 (SP Print Mode: All(Data List)) before you switch the machine off. You will need a record of the NVRAM settings if the upload fails.
   Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
2. Turn OFF the main power.
3. Remove the SD card slot cover [A] (Coin screw x 1).



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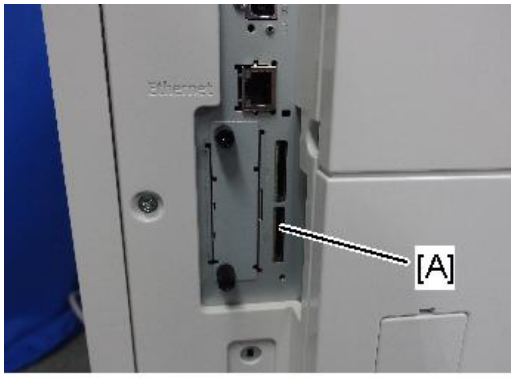
4. Insert the SD card in Service Slot [A: Lower Slot].



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5. Turn ON the main power.
6. Execute SP5-824-001 (NVRAM Data Upload) and then press the "Execute" key.
7. The following files are coped to an NVRAM folder on the SD card when the upload procedure is finished.
   The file is saved to the path and the following filename:
   NVRAM\<serial number>.NV

Here is an example with Serial Number "K5000017114":

NVRAM\K5000017114.NV

8. In order to prevent an error during the download, be sure to mark the SD card that holds the uploaded data with the number of the machine from which the data was uploaded.

Note

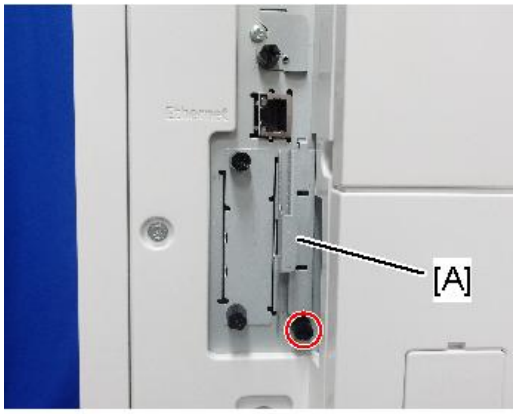
- You can upload NVRAM data from more than one machine to the same SD card.

Downloading an SD Card to NVRAM

Do the following procedure to download SP data from an SD card to the NVRAM in the machine.

- The NVRAM data download may fail if the SD card with the NVRAM data is damaged, or if the connection between the controller and BCU is defective.
- Do the download procedure again if the download fails.
- Do the following procedure if the second attempt fails:
- Enter the NVRAM data manually using the SMC print you created before uploading the NVRAM data.

1. Turn OFF the main power.
2. Remove the SD slot cover [A] (Coin screw x 1).



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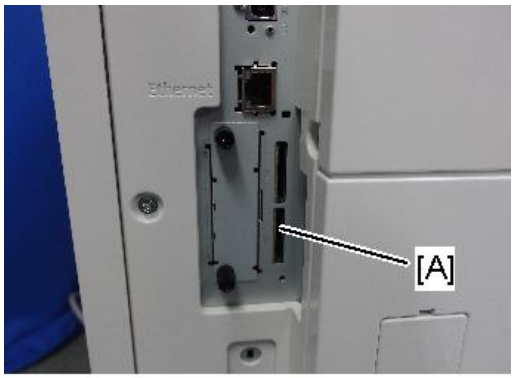
3. Insert the SD card with the NVRAM data into SD Card Slot 2 [A: Lower Slot].



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4. Turn ON the main power.
5. Do SP5-825-001 (NVRAM Data Download) and press the "Execute" key.

Note

- The serial number of the file on the SD card must match the serial number of the machine for the NVRAM data to download successfully. The download fails if the serial numbers do not match.

This procedure does not download the following data to the NVRAM:

- Total Count
- C/O, P/O Count

Address Book Upload/Download

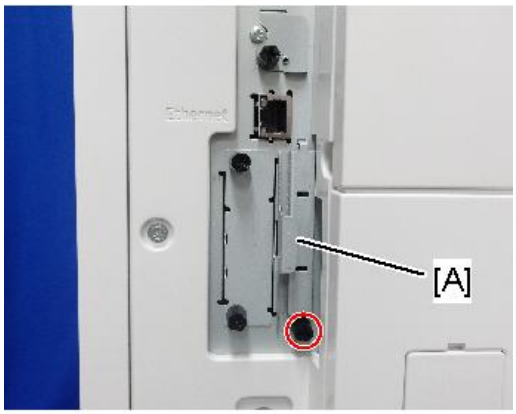
Information List

The following information is possible to be uploaded and downloaded.

- Registration No.
- Key Display
- Select Title
- Display Priority
- User Code
- Auth. Info at Login for Basic, Windows, LDAP Authentication (User Name and Login Password)
- Available Functions
- Protect Destination
- Group Information

Download

1. Prepare a formatted SD card.
2. Make sure that the write-protection on the SD card is off.
3. Turn OFF the main power.
4. Remove the SD card slot cover [A] (Coin screw x 1).



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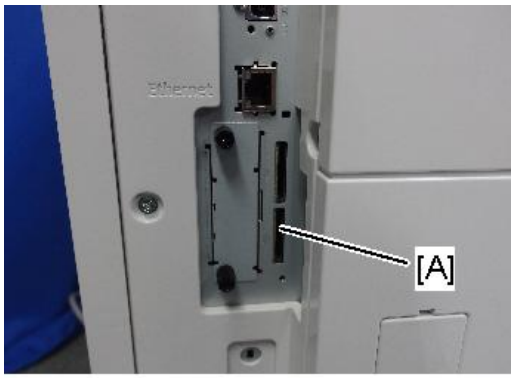
5. Insert the SD card into SD card slot 2 [A: Lower Slot].



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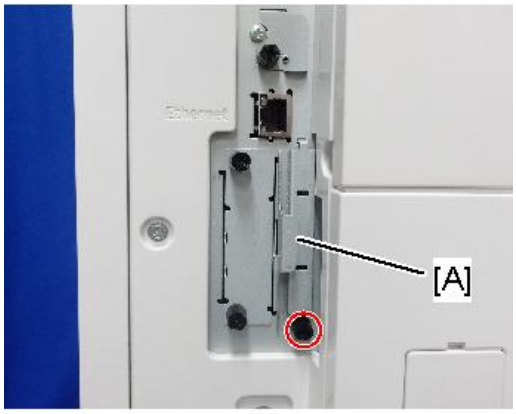
6. Turn ON the main power switch.
7. Enter the SP mode.
8. Do SP5-846-051 (Backup All Addr Book).
9. Exit the SP mode, and then turn OFF the main power switch.
10. Remove the SD card form the SD card slot 2 (lower).
11. Install the SD slot cover.

Note

- If the capacity of SD card is not enough to store the local user information, an error message is displayed.
- Make sure that the write protection of an SD card is unlocked.
- Carefully handle the SD card, which contains user information. Do not take it back to your location.

Upload

1. Turn OFF the main power.
2. Remove the SD card slot cover [A] (Coin screw x 1).



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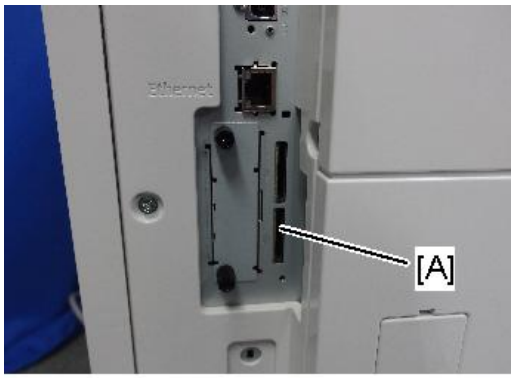
3. Install the SD card, which has already been uploaded, into SD card slot 2 [A: Lower Slot].



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Note

- Check whether the card is properly in the SD card slot. When a SD card is inserted, a click is heard, and it is locked.
- To remove the card, release by pressing once.

4. Turn ON the main power.
5. Enter the SP mode.
6. Do SP5-846-052 (Restore All Addr Book).
7. Exit the SP mode, and then turn OFF the main power switch.
8. Remove the SD card form the SD card slot 2 (lower).
9. Install the SD slot cover.

Note

- The counter in the user code information is initialized after uploading.
- The information of an administrator and supervisor cannot be downloaded nor uploaded.
- If there is no data of address book information in the SD card, an error message is displayed.

Capturing the Device Logs

Overview

With this feature, you can save device logs that are stored in the machine (HDD or operation panel) on an SD card. It allows the Customer Engineer to save and retrieve error information for analysis.

The Capturing Log feature can save the following logs.

- Controller device log including operation log
- Engine device log
- Operation panel log

Important

- In older models, a technician enabled the logging tool after a problem occurred. After that, when the problem had been reproduced, the technician was able to retrieve the device log.
- However, this new feature saves the device logs at the time that problems occur. Then you can copy the logs to an SD card.
- You can retrieve the device logs using a SD card without a network.
- Analysis of the device log is effective for problems caused by the software. Analysis of the device log is not valid for the selection of defective parts or problems caused by hardware.
- Make sure to shut down and reboot the machine once before retrieving the Device Logs. Otherwise, the latest settings may not be collected when the device logs are retrieved.

Types of device logs that can be saved

Type	Storage Timing	Destination (maximum storage capacity)
Controller device log including operation log	• Saved at all times	HDD (4 GB) or SD card connected to the service slot. When the data gets over 4.0 GB, the older data is deleted.
Engine device log	• When an engine SC occurs • When paper feeding/output stop because of a jam • When the machine doors are opened during normal operation	HDD or SD card connected to the service slot (Up to 300 times)
Operation panel log	• When an error related to the operation panel occurs.	Memory in the operation panel.

Note

- **Device logs are not saved in the following conditions:**
  - While erasing all memory
  - While data encryption equipment is installed
  - While changing the firmware configuration

- Forced power OFF (accidentally disconnecting the outlet)
- Engine device log while the machine is shutting down
- When the power supply to the HDD is off because of energy saving (engine OFF mode/STR mode)
- When one of the following SCs occurs: SC672, SC816, SC819, SC878, SC899, SC859, SC860, SC861, SC863, or SC864

Note

- **The following logs are not saved:**
  - Logs related to the energy saver mode (Engine-off, suspend-mode, or other cases)
  - Network communication log
  - Logs related to NRS
  - Access log for unauthorized users (guests)
  - HTTP session timeout log
  - Auto log-out log
  - IC card related log

Note

- The default save destination is the HDD. Except when it cannot be saved to the HDD for some reason, there is no need to change from the HDD to an SD card.
- If you want to change the save destination to an SD card, do the following.

1. Set SP5-858-002 (Collect Machine Info: Save To) to "1 (SD)"
2. Execute SP5-858-003 (Collect Machine Info: Make Log Trace Dir) to make a folder for the log in the SD card.
3. Turn the power switch OFF and ON.

- It is recommended to use the SD card (8 GB) provided as a service part. The part number of the SD card that is registered as a service part is "B6455040".

Security of the Operation Log

The following operation logs related to security are not saved.

- User ID
- Password
- IP address
- Telephone number
- Encryption key
- Transition to SP mode

Storing the Device Logs on an SD card (SP C840DN without option HDD only)

Important

- The model without HDD does not have space to store device logs. To capture device logs from such models, two SD cards are required. One SD card is used for storing the device logs via SD card slot 2 and the other SD card is used for retrieving the device logs via the operation panel.

- An SP C840DN that has an optional HDD does not need this procedure if SP5-858-001 is "1 (ON)" and SP5-858-002 (Target) is "0 (HDD)".
- It is recommended to use the SD card (8 GB) provided as a service part. The part number of the SD card that is registered as a service part is "B6455040".

Procedure for Storing the Device Log on an SD Card

1. Insert the SD card into SD card slot 2.
2. Turn ON the main power.
3. Enter SP mode.
4. Set SP5-858-001 (Save Machine Info) to "1 (ON)"
5. Set SP5-858-002 (Target) to "1 (SD)"
6. Execute SP5-858-003 (Make LogTrace Dir)
7. Turn the power switch OFF and ON.
   - After the power switch is turned on, the machine starts to store the device logs on the SD card. However, because the logs on this SD card are not organized, the procedure to retrieve the logs with the other SD card via the operation panel (next section) is required.

Retrieving the Device Logs via Operation Panel

Important

- Retrieve device logs to identify the date of occurrence of the problems and to find details of the problems
- e.g.: At around 8:00 am on March 10, an engine stall occurred. The operation panel does not respond. Turn the main power supply off / on.
- Analysis of the device log is effective for problems caused by the software. Analysis of the device log is not valid for the selection of defective parts or problems caused by hardware.

Procedure for Retrieving the Device Log with SD Card

1. Insert the SD card into the slot on the side of the operation panel or the service slot.

   Important

   - It is recommended to use the SD card (2 GBs or 8 GBs) provided as a service part. This is because the log data can be acquired much faster than when using commercially available SD cards.
   - Format the SD card by using SD Formatter from Panasonic before copying the logs: https://www.sdcard.org/downloads/formatter_3/ (free software)
   - Insert the SD card into the machine's service slot instead of the SD slot on the side of the operation panel.
2. Turn ON the main power.
3. Enter SP mode.
4. Specify the date that the problem occurred in SP5-858-101 (Start Date) by setting it to the year-month-day

calendar format.

- For example, if a problem occurred on February 1, 2015, the date should be set to "20150201", as shown above.
- Be sure to confirm the date when the problem occurred before obtaining the logs.

5. Specify the number of days to collect the logs in SP5-858-102 (Days of Tracing).

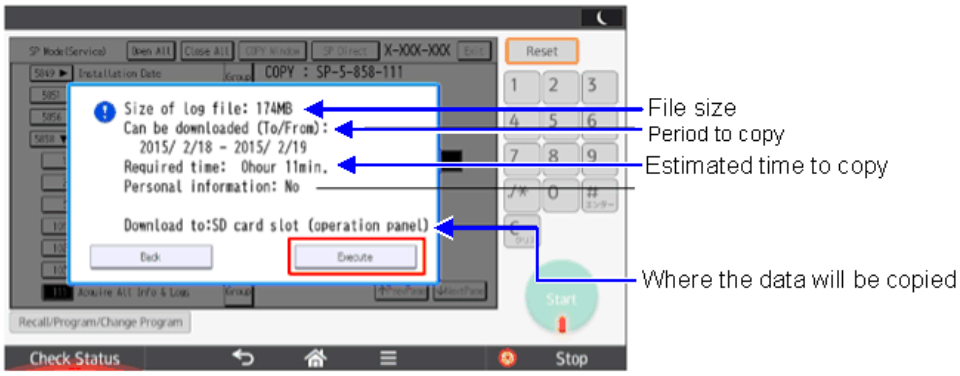
- "**2**" is set by default, which is the minimum needed for investigating the problem.
- A value of "1" to "180" can be set.

6. Execute SP5-858-111 (Acquire All Info & Logs) to copy all of the log types to an SD card.

It is possible to obtain the logs separately by the following SPs.

SP	Collectable Information and/or Logs
SP5-858-111	All of the information and logs that are collected by executing the SPs from SP5-858-121 to SP5-858-144, and SMC.
SP5-858-121	Configuration page
SP5-858-122	Font page
SP5-858-123	Print settings list
SP5-858-124	Printer Error log
SP5-858-141	Controller log, engine log, operation panel log, and SMC.
SP5-858-142	Controller log
SP5-858-143	Engine log
SP5-858-144	Operation panel log
SP5-992-001	SMC

7. After executing the SP for copying the information and/or logs, a confirmation screen will appear. To proceed with obtaining the information and/or logs, tap "Execute"



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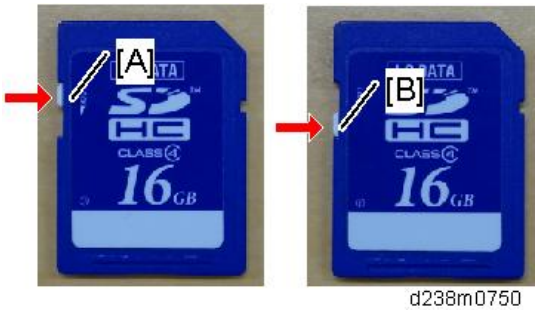
Note

- The approximate time it takes to transfer the debug log is as follows. Transfer time may be affected by the type or format of the SD card.
  - Controller device log (GW device log): 2 - 20 minutes
  - Engine device log: 2 minutes
  - Operation panel device log: 2 - 20 minutes

If the estimated time is not calculated due to an error, an error code will be displayed.

Error Code	Description
-1	Other.
-2	No SD card is inserted in the service slot or in the SD slot on the side of the operation panel. In this case, insert an SD card into either of the SD slots.
-3	The SD card is locked. In this case, unlock the SD card, as shown below.  d238m0750 [A]: Unlocked, [B]: Locked

8. Wait for the information and/or logs to be copied to the SD card.

d238m0751

9. After a message stating that the process has completed appears on the operation panel, confirm that the LED light next to the SD card slot is not flashing and then remove the SD card.

10. Make sure that the SD card access LED is off, then remove the SD card.

Note

- The process of obtaining logs fails in the following cases:
  - When the size of the logs to obtain exceeds the amount of space available on the SD card.
  - When the SD card is removed while the logs are being copied to it.
  - When the SD card is not formatted.
- If 'failed' appears on the touch panel display, turn the power off, and then recover from step 1 again.

Retrieving the Device Logs via Web Image Monitor

The device logs can be retrieved via the Web Image Monitor.

1. Access the following URL and logon as an administrator:
http://[IP address or host name]/web/entry/df/websys/direct/getSysInfo.cgi

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2. Specify the date that the problem occurred and the number of days to download the logs, and then click "Download".

d238m0885

Note

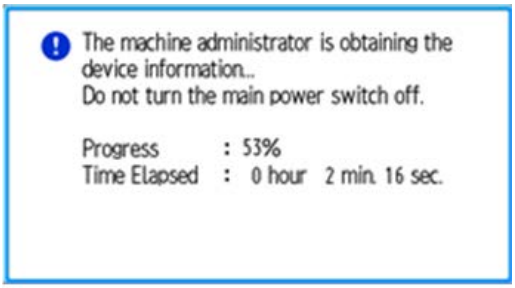
- "2" is set by default for "Number of days, including date fault occurred, to obtain".

3. The confirmation screen will appear and the information and/or logs will start downloading. To proceed to download the information and/or logs, wait for the open-or-save dialog to appear.

d238m0886

Note

- To cancel downloading, click "Cancel".
- To reconfigure some settings, click "Download again".
- Operation panel when downloading the logs:



d238m0887

4. After a while, the open-or-save dialog will appear. Specify where to download and save the file.

d238m0888

Note

- The debug logs are saved with the following file names. These names are the same as the files downloaded with SD card.

The device logs are saved with the following file names.

Controller log (mmesg)	/LogTrace/[the model number]/watching/[yyyymmdd_hhmmss]_[a unique value].gz
Engine device log	/LogTrace/[Machine Serial]/engine/[yyyymmdd_hhmmss].gz
Operation panel log	/LogTrace/[the model number]/opepanel/[yyyymmdd_hhmmss].tar.gz
SMC	/LogTrace/[the model number]/smc/[the model number]_[5992XXX]_[yyyymmdd]_[hhmmss].csv
Configuration	/LogTrace/[the model number]/gps/ConfigrationPage/ConfigrationPage_

page	[yyyymmdd_hhmmss].csv
Font page	• /LogTrace/[the model number]/gps/FontPage/FontPage_PCL_[the page number]_[yyyymmdd_hhmmss].jpg • /LogTrace/[the model number]/gps/FontPage/FontPage_PDF_[the page number]_[yyyymmdd_hhmmss].jpg • /LogTrace/[the model number]/gps/FontPage/FontPage_PS_[the page number]_[yyyymmdd_hhmmss].jpg
Print settings list	• /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RPGL_[yyyymmdd_hhmmss].txt • /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RTIFF_[yyyymmdd_hhmmss].csv
Error log	/LogTrace/[the model number]/gps/ErrorLog/[yyyymmdd_hhmmss].csv

SMC List Card Save Function

Overview

The SMC List Card Save (SP Text Mode) function is used to save the SMC list as CSV files to the SD-card inserted into the operation panel SD card slot or SD card slot 2 (lower - service slot) .

Procedure

Important

- Make sure to shut down and reboot the machine once before exporting the SMC sheet data. Otherwise, the latest settings may not be collected when the SMC is exported.

1. Turn OFF the main power.

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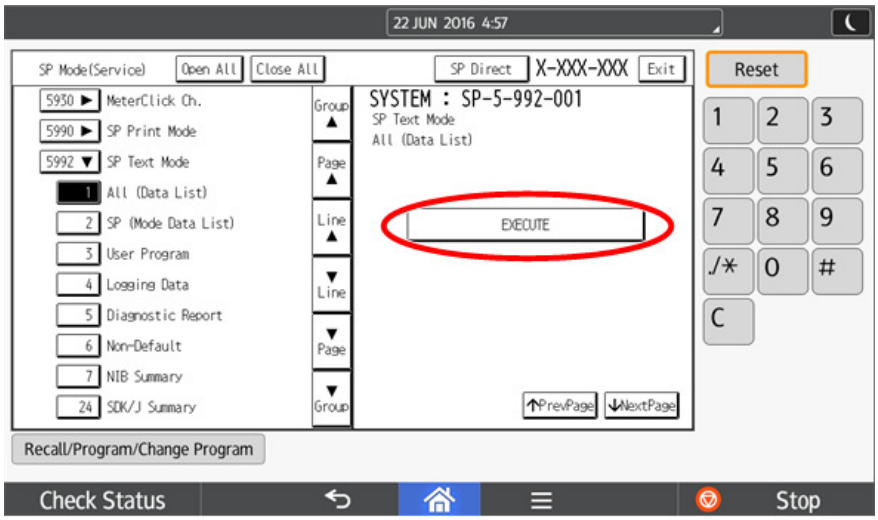
2. Insert the SD card into the operation panel SD-card slot, and then turn OFF the main power.
3. Enter SP mode.
4. Select "System SP".
5. Select SP5-992-001 (SP Text Mode).
6. Select a detail SP number shown below to save data on the SD card.

   SP5-992-xxx (SP Text Mode)

Detail No.	SMC Categories to Save
001	All (Data List)
002	SP (Mode Data List)
003	User Program
004	Logging Data
005	Diagnostic Report
006	Non-Default
007	NIB Summary
024	SDK/J Summary
025	SDK/J Application Info
026	Printer SP
027	Smart Operation Panel SP
028	Smart Operation Panel UP

7. Press [EXECUTE].



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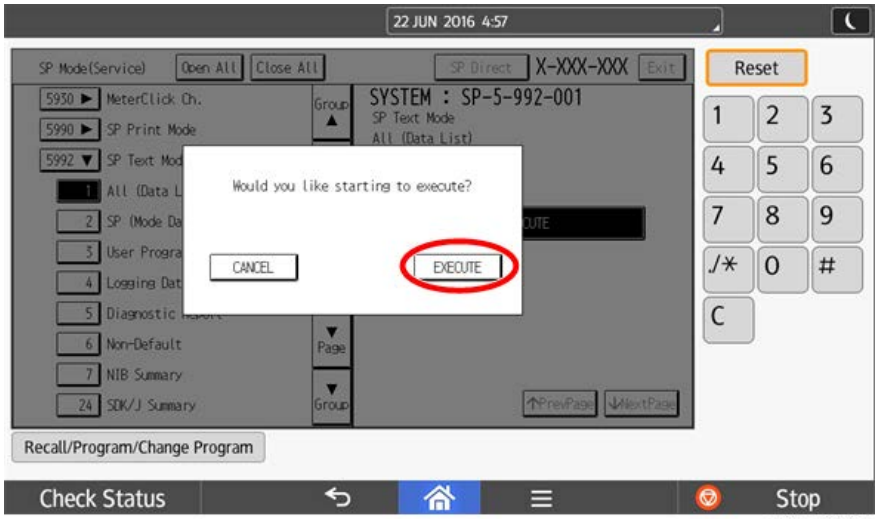
8. Press [EXECUTE] again to start. Press [CANCEL] to cancel the saving.



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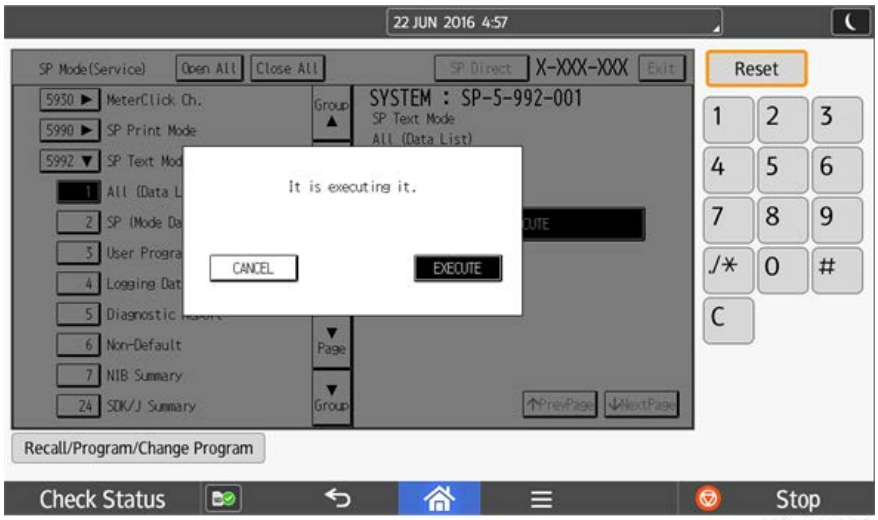
9. "It is executing it" is shown on the screen while executing.

Wait for 2 to 3 minutes until "Completed" is shown.



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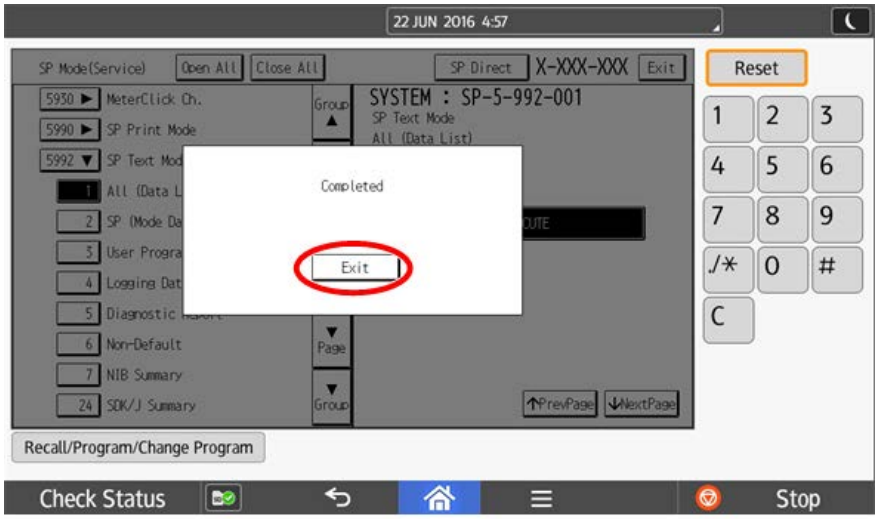
Note

- The SMC list saving may take from 2 to 3 minutes to complete.
- Press [CANCEL] to abort executing.

10. After "Completed" is displayed, press [Exit].



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11. Exit the SP mode.

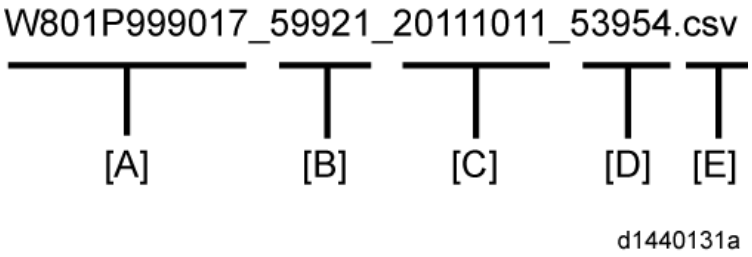
Notes on Using the SMC List Card Save Function

- If you remove the SD card while executing the SMC List Card Save function, it may cause the machine to stall.
- You can check the access (reading/writing) by the indicator on the slot.
- When you remove the SD card, be sure to check that the access indicator is off in advance.
- If the machine stalls, turn the power off and then back on.

File Names of the Saved SMC Lists

The SMC list data saved on the SD card will be named automatically. The file naming rules are as follows.

Example:



A:

Machine serial number (fixed for each machine)

B:

SP number saved in this file.

First four digits (5992) in this part are fixed. The other one or two digits are the detail SP number(s). In this case, it is one digit. Therefore, this file is of SP5-992-001 (All data list). See the upper SP table for the correspondence between SP detail numbers and the contents.

C:

File creation date

Year/Month/Day ("Zero" will be omitted if each is one digit.)

D:

File creation time

Hour/Minute/Second ("Zero" will be omitted if each is one digit.)

E:

File Extension CSV (Comma Separated Value)

This part is fixed.

Note

- A folder named by the machine serial number will be created on the SD card when this function is executed.
- This function can save the SMC list data only to an SD card inserted into the operation panel SD card slot.

Error Messages

SMC List Card Save error message:

- **Failed:**
  FACTOR: Read-only file system, Unformatted device, No space left on device.

If an error occurs, pressing "Exit" will cause the device to discard the job and return to the ready state.

UP/SP Data Import/Export

Outline

With this machine, you can save and restore the UP/SP setting data on the SD card.

You can import the data from another machine of the same series regardless of its model or option configuration.

UP Data Import/Export

Data that Can Be Imported and Exported

- Printer Features
- Browser Settings
- Web Image Monitor Setting
- Web Service Settings
- System Settings
- Screen Features
- Home screen customization settings[*1]

  [*1] Wallpaper cannot be exported if "Live Wallpapers" is selected.

Data that Cannot Be Imported or Exported

- Some System Settings [*1] [*2]

  [*1] The setting for the date, settings that require the device certificate, and settings that need to be adjusted for each machine (for example, image adjustment settings) cannot be imported or exported.

  [*2] Settings only for executing functions and settings only for viewing cannot be imported or exported.
- Extended Feature Settings
- Address book
- Programs (printer function)
- Settings that can be specified via telnet
- @Remote-related data
- Counters
- Settings that can only be specified via Web Image Monitor or Web Service (for example, Bonjour, SSDP setting)

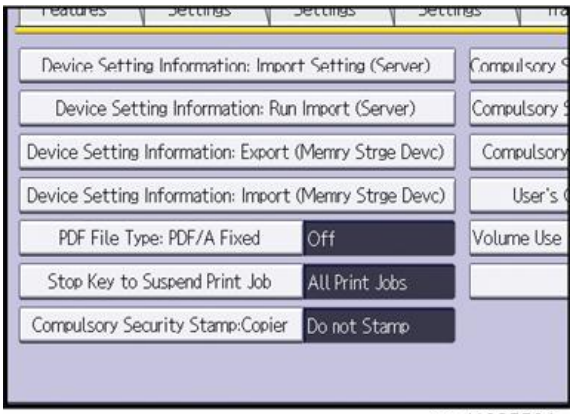
Exporting Device Information

This can be exported / imported by an administrator with all privileges.

When exporting SP device information from the control panel, the data is saved on an SD card.

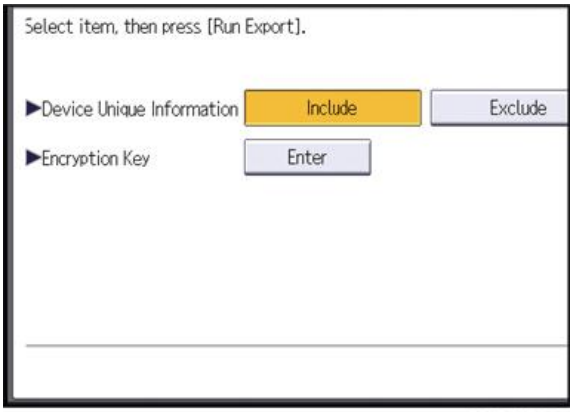
1. Insert an SD card into the media slot on the side of the control panel.
2. Log in from the control panel as an administrator with all privileges.

3. Press [User Tools] icon > [Machine Features] > [System Settings].
4. Press [Administrator Tools].
5. Press [Next] three times.
6. Press [Device Setting Information: Export (Memry Strge Devc)].



w_d1825501

7. Set the export conditions.



w_d1825502

- Specify whether to [Include] or [Exclude] the "Device Unique Information". "Device Unique Information" includes the IP address, host name, etc.
- Specify an encryption key.

8. Press [Run Export].
9. Press [OK].
10. Press [Exit].
11. Log out.

Note

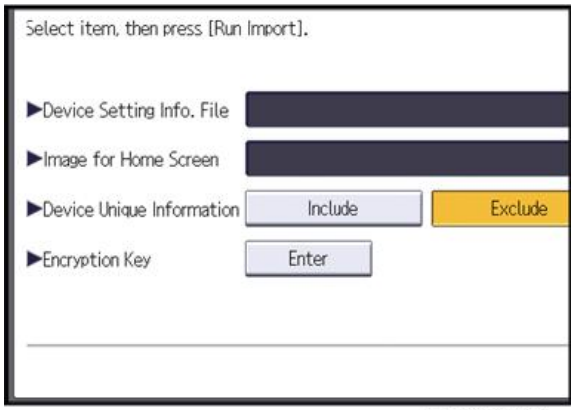
- If export fails, you can check the log for the error. The log is stored in the same location as the exported device setting information file.
- When device Information is periodically imported, it is necessary to create the device setting information file with special software and store it on the web server.

Importing Device Information

This can be exported / imported by an administrator with all privileges.

Import device information saved on an SD card.

1. Insert an SD card into the media slot on the side of the control panel.
2. Log in from the control panel as an administrator with all privileges.
3. Press [User Tools] icon > [Machine Features] > [System Settings].
4. Press [Administrator Tools].
5. Press [Next] three times.
6. Press [Device Setting Information: Import (Memry Strge Devc)].
7. Configure the import conditions.



w_d1825503

- Press [Select] of the "Device Setting Info. File" to select the file(s) to import.
- When inserting a file into a home screen, press [Select] for the Image for Home screen and select the file. You cannot use this setting when using the Smart Operation Panel.
- Specify whether to [Include] or [Exclude] the "Device Unique Information". "Device Unique Information" includes the IP address, host name, fax number, etc.
- Enter the encryption key that was specified when the file was exported.

8. Press [Run Import].
9. Press [OK].
10. Press [Exit].

The machine restarts.

Note

- If import fails, you can check the log for the error. The log is stored in the same location as the exported device setting information file.

SP Data Import/Export

Data that can be imported and exported

- System SP
- Printer SP

Exporting Device Information

When exporting SP device information from the control panel, the data is saved on an SD card.

1. Insert an SD card into the media slot on the side of the control panel.
2. Enter SP mode.
3. Press SP5-749-001 (Import/Export: Export)
4. Select "Target" SP settings (System/Printer/Smart Operation Panel) to be exported.

Select "Option" settings (Unique/Secret).

Item	Specification	Note
Unique	Unique information of the machine is included in the exported file if you select "Unique" setting.	**Unique information that can be updated** #1. Items that are to be used to identify the machine. Example: Network Information/ Host name / Mail address assigned to the machine #2. Items for specifying the options equipped on the machine. Example: Lot number for developer Note • Import/export of the host name: Follow the rule to use the default host name (RNP + MAC address) only if the user setting of the host name has not been specified. • If the default host name is imported to the machine on which the host name has been specified, the host name is not overwritten, and an error does not occur. **Unique information that cannot be updated** #1. Items that may cause a problem if imported Example: Serial number / Information related to @Remote / PnP name #2. Items for managing the history of the machine Example: Time and date / Counter information / Installation date #3. Items that vary between each machine even among the same models. Example: Setting values for the Engine
Secret	Secret information is exported if you select "Secret" setting.	**Secret information** #1. Data that cannot be exported without being encrypted. (Exported data is encrypted.) Example: Password / Encryption key / PIN code #2. Confidential information for the customer Example: User name / User ID / Department code / Emploee number / Mail address / **Phone number** #3. Personal information Example: Document name / Image data

Item	Specification	Note
		#4. Sensitive information for the customer Example: IP address / MAC address / Network parameters / Characters that can be entered #5. Data that can be exported to identify the user without revealing personal information (unless the machine is identified.) Example: Registration number (abbreviated)

* The IP address is exported when both 'Unique' and 'Secret' are selected.

1. Select "Crpt config" setting (Encryption).

Encryption	Select whether to encrypt or not when exporting. If you push the "Encryption" key, you can export secret information.	If the encryption function is used, setting of an encryption key is required by direct input. • Type the arbitrary password using the soft keyboard • Can enter up to 32 characters

2. Press [Execute].
3. Press [OK].

Note

- If export fails, you can check the log for the error. The log is stored in the same location as the exported device setting information file.

Importing Device Information

Import device information saved on an SD card.

1. Insert an SD card into the media slot on the side of the control panel.
2. Enter SP mode.
3. Press SP5-749-101(Import/Export: Import)
4. Select a unique setting.

Note

- If you set "Device Unique Information" to [Exclude], the import of items categorized as the device unique information is skipped.

5. Press [Encryption Key], if the encryption key was created when the file was exported.
6. Select an encryption setting.

Unique	If you want to apply the unique information to the target machine, select the "Unique" key.	Refer to the above information.
Encryption	If an encrypted file is selected as the import file, this setting is required.	

7. Press [Execute].
8. Press [OK].

Note

- If import fails, you can check the log for the error. The log is stored in the same location as the exported device setting information file.

Possible solutions for import/export problems

The access log file is created when export/import is executed. The file is stored in the same location as the exported device setting information file.

If an error occurs, check the log's result code in the access log file first. Values other than 0 indicate that an error occurred.

The result code will appear in the circled area illustrated below.

- Example of a log file

If you cannot solve the problem or do not know how to solve it after checking the code, note down the error log entry, then contact your supervisor.

Result Code	Cause	Solutions
2 (INVALID REQUEST)	A file import was attempted between different models or machines with different device configurations.	Import files exported from the same model with the same device configurations.
4 (INVALID OUTPUT DIR)	Failed to write the device information to the destination device.	Check whether the destination device is operating normally.
7(MODULE ERROR)	An unexpected error occurred during import or export.	Switch the power off and then back on, and then try the operation again. If the error persists, contact your supervisor.
8 (DISK FULL)	The available storage space on the external medium is insufficient.	Execute the operation again after making sure there is enough storage space.
9 (DEVICE ERROR)	Failed to write or read the log file.	Check whether the path to the folder for storing the file or the folder in which the file

Result Code	Cause	Solutions
		is stored is missing.
10 (LOG ERROR)	Failed to write the log file. The hard disk is faulty.	Contact your supervisor.
20 (PART FAILED)	Failed to import some settings.	The reason for the failure is logged in "NgCode". Check the code. **Reason for the Error (Ng-Name)** 2. INVALID VALUE The specified value exceeds the allowable range. 3. PERMISSION ERROR The permission to edit the setting is missing. 4. NOT EXIST The setting does not exist in the system. 5. INTERLOCK ERROR The setting cannot be changed because of the system status or interlocking with other specified settings. 6. OTHER ERROR The setting cannot be changed for some other reason.
21 (INVALID FILE)	Failed to import the file because it is in the wrong format in the external medium.	Check whether the file format is correct. The import file should be a CSV file.
22 (INVALID KEY)	The encryption key is not valid.	Use the correct encryption key.

Note

- When exporting device information from the control panel, the data can be saved only on an SD card.
- The file format for exports is CSV.

Card Save Function

Overview

Card Save

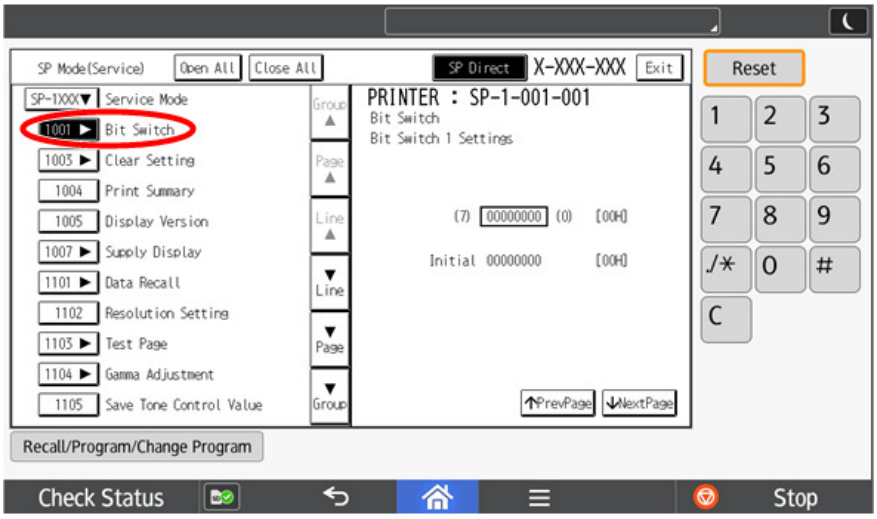
- The Card Save function is used to save print jobs received by the printer on an SD card with no print output. Card Save mode is toggled using printer Bit Switch #1 bit number 4. Card Save will remain enabled until the SD card becomes full, or until all file names have been used.
- Captures are stored on the SD card in the folder /prt/cardsave. File names are assigned sequentially from PRT00000.prn to PRT99999.prn. An additional file PRT.CTL will be created. This file contains a list of all files created on the card by the card save function.
- Previously stored files on the SD card can be overwritten or left intact. Card Save SD has "Add" and "New" menu items.
  - **Card Save (Add):** Appends files to the SD Card. Does not overwrite existing files. If the card becomes full or if all file names are used, an error will be displayed on the operation panel. Subsequent jobs will not be stored.
  - **Card Save (New):** Overwrites files in the card's /prt/cardsave directory.

Limitation:

- Card Save cannot be used with PJL Status Readback commands. PJL Status Readbacks will not work. In addition they will cause the Card Save to fail.

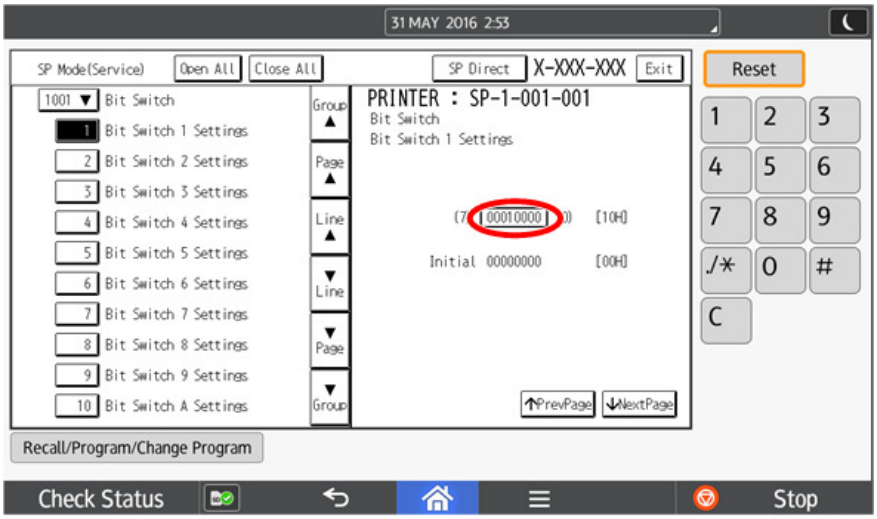
Procedure

1. Turn OFF the main power.
2. Insert the SD card into slot 2 (lower), then turn ON the main power.
3. Enter SP mode.
4. Select the "Printer SP".
5. Select SP-1001 "Bit Switch".



m0ajm2065

6. Select "Bit Switch 1 Settings" and use the numeric keypad to turn bit 4 ON and then press the "#" to register the change. The result should look like: 00010000. By doing this, Card Save option will appear in the "List/Test Print" menu.

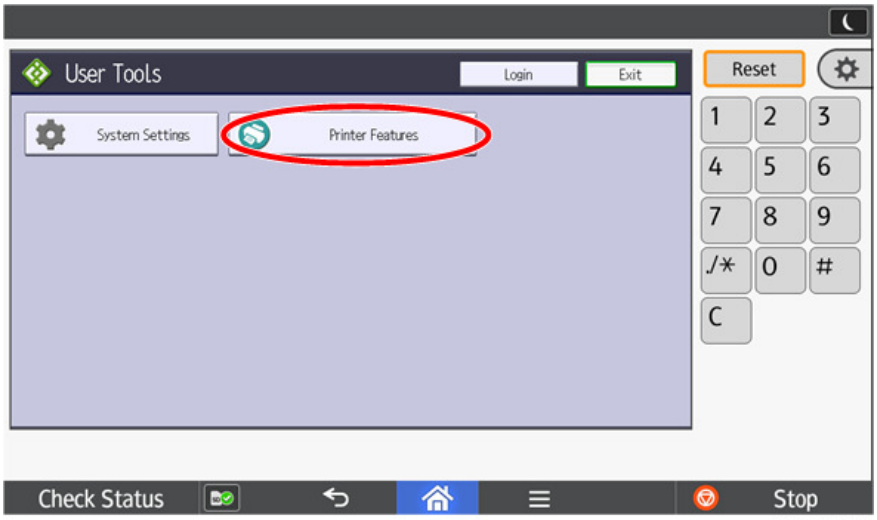


m0ajm2066

7. Press "Exit" to exit SP Mode.

8. Press the "User Tools" icon > "Machine Features".

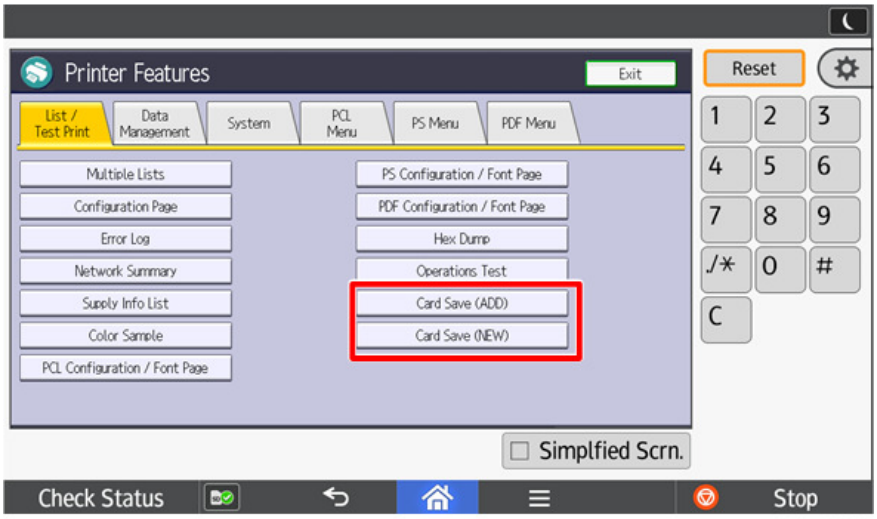
9. Select "Printer Features".



m0ajm2067

10. Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (Add) or Card

Save (New).



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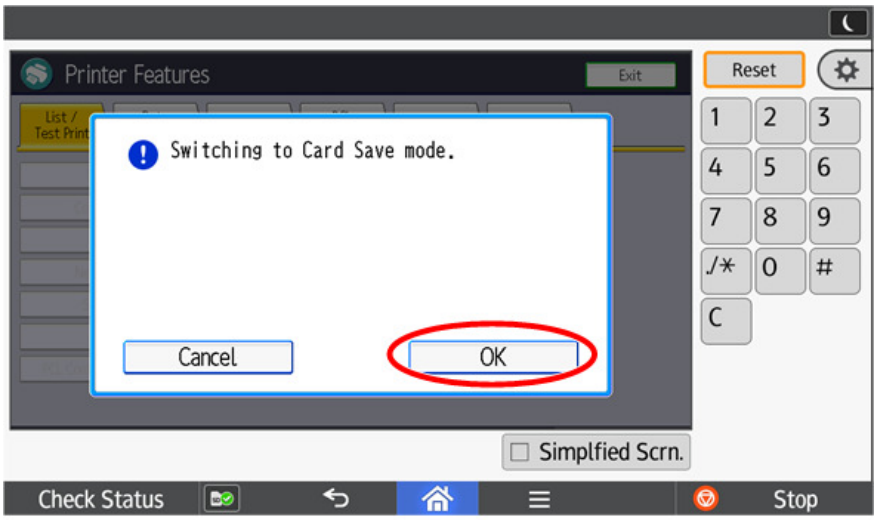
11. Press "OK" and then return to Home screen.



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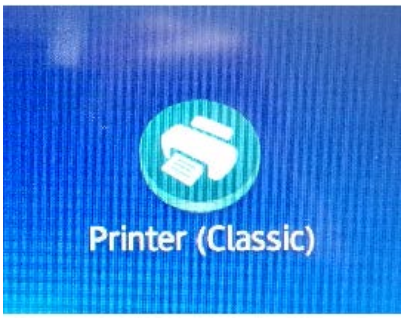
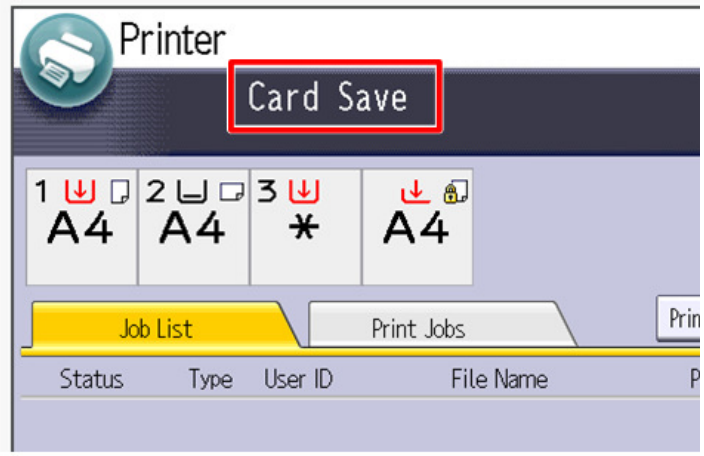
12. Press the "Printer (Classic)" icon.



d238m0937

13. "Hex Dump Mode" is be displayed in the top left of the display panel.



d238m0936a

14. Send a job to the printer. The Communicating light should start blinking.

15. As soon as the printer receives the data, it will be stored on the SD card automatically with no print output. Nothing is displayed on the screen, indicating that a Card Save operation was successful.

16. Press "Reset" to exit Card Save mode.

d238m0938a

17. Change the Bit Switch Settings back to the default 00000000, then press the "#" in the numeric keypad to register the changes.

18. Remove the SD card after the main power switch is turned OFF.

Error Messages

Card Save error messages:

- **Init error:** A card save process (e.g. card detection, change to kernel mode) failed to initialize.
- **Card not found:** Card cannot be detected in the slot.
- **No memory:** Insufficient working memory to process the job.
- **Write error:** Failed to write to the card.
- **Other error:** An unknown error occurred.

If an error occurs, pressing "OK" will cause the device to discard the job and return to the ready state.

6. Troubleshooting

Self-Diagnostic Mode

SC Automatic Reboot

When an ordinary SC (pattern D) is generated, automatically reboot is performed. Automatic reboot or reboot by user operation can be set by SP5-875-001 (SC automatic reboot setting out) (default value: 0 "Automatic reboot").
When a type D occurs, automatic reboot is done or the machine display asks the customer if it can reboot.
However, when the SC occurs twice in a short time, the machine sends a report to the @Remote server without rebooting. This is because just rebooting may not be a good solution if an SC occurs twice.
When an automatic reboot is performed, a confirmation screen is displayed after reboot. The confirmation screen can be cancelled by pressing the [OK] key (display is not cancelled only when the main power switch is switched OFF to ON).

Screen display during reboot

- Status display on the current screen
  - Post-processing ..... Post-processing during printing, etc.
  - Automatic reboot .... After operation end

    Post-processing

    ■■□□□□□□□□

    Until automatic reboot

    □□□□□□□□□□
- Reset key (Reboot key)

  Key to perform reboot

  # Cancel key is not displayed.
- Turn on spanner LED (same as when an SC is generated).

Operation during SC reboot

- Timing of SC reboot

  When @Remote is enabled, and when a NRS alarm*1 is not generated, the corresponding SC is the object of an automatic reboot.

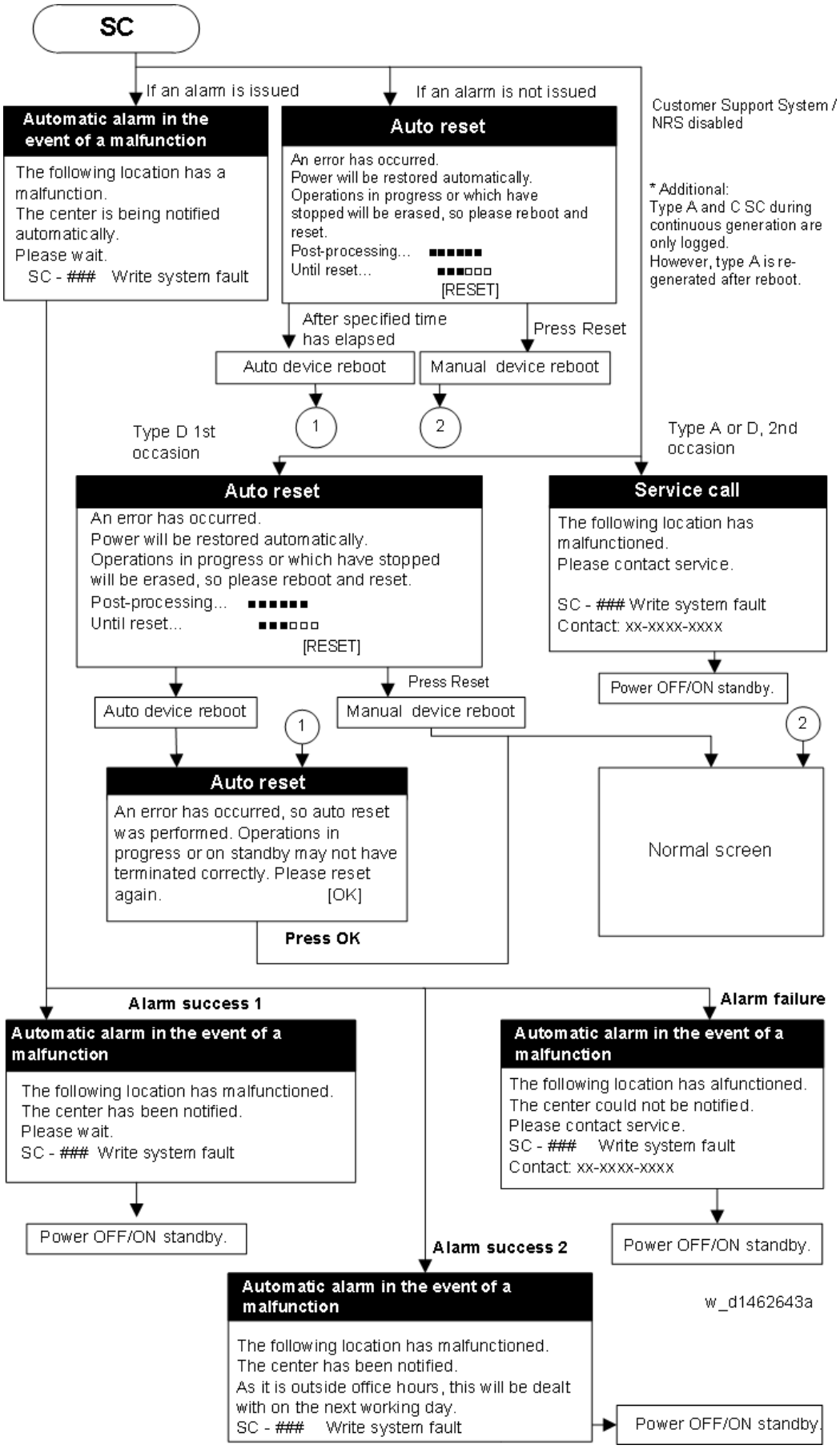
  *1 NRS alarm: Issued when an ordinary SC (type D) is generated twice while the total counter counts 10 times.
- Time to automatic reboot

  Reboot is performed 30 seconds after an engine reboot is possible, after the end of post-processing during printing, etc.

  At that time, a reboot is performed even if the machine is operating. The engine does not start process control when a reboot is possible.

- Automatic reboot

  See the flowchart below.


SC
If an alarm is issued
If an alarm is not issued
Customer Support System / NRS disabled
Automatic alarm in the event of a malfunction
The following location has a malfunction.
The center is being notified automatically.
Please wait.
SC - ### Write system fault
Auto reset
An error has occurred.
Power will be restored automatically.
Operations in progress or which have stopped will be erased, so please reboot and reset.
Post-processing...
Until reset...
[RESET]
* Additional:
Type A and C SC during continuous generation are only logged.
However, type A is re-generated after reboot.
After specified time has elapsed
Press Reset
Auto device reboot
Manual device reboot
1
2
Type D 1st occasion
Type A or D, 2nd occasion
Auto reset
An error has occurred.
Power will be restored automatically.
Operations in progress or which have stopped will be erased, so please reboot and reset.
Post-processing...
Until reset...
[RESET]
Service call
The following location has malfunctioned.
Please contact service.
SC - ### Write system fault
Contact: xx-xxxx-xxxx
Press Reset
Auto device reboot
Manual device reboot
Power OFF/ON standby.
1
2
Auto reset
An error has occurred, so auto reset was performed. Operations in progress or on standby may not have terminated correctly. Please reset again.
[OK]
Press OK
Normal screen
Alarm success 1
Alarm failure
Automatic alarm in the event of a malfunction
The following location has malfunctioned.
The center has been notified.
Please wait.
SC - ### Write system fault
Automatic alarm in the event of a malfunction
The following location has alfunctioned.
The center could not be notified.
Please contact service.
SC - ### Write system fault
Contact: xx-xxxx-xxxx
Power OFF/ON standby.
Power OFF/ON standby.
Alarm success 2
Automatic alarm in the event of a malfunction
The following location has malfunctioned.
The center has been notified.
As it is outside office hours, this will be dealt with on the next working day.
SC - ### Write system fault
Power OFF/ON standby.
w_d1462643a

Note

- For the SC list of automatic reboot, refer to List of Automatic Reboot Target SC.

Controller Self-diagnosis Outline

Controller self-diagnosis includes 3 types, i.e., "ordinary self-diagnosis", "detailed self-diagnosis", and "SC detection". "Ordinary self-diagnosis" is diagnosis performed for every power ON, and "detailed self-diagnosis" is diagnosis treated as part of the service tools. "SC detection" detects mechanical faults when power is switched on or when the machine is operating.

Detailed self-diagnosis - Method

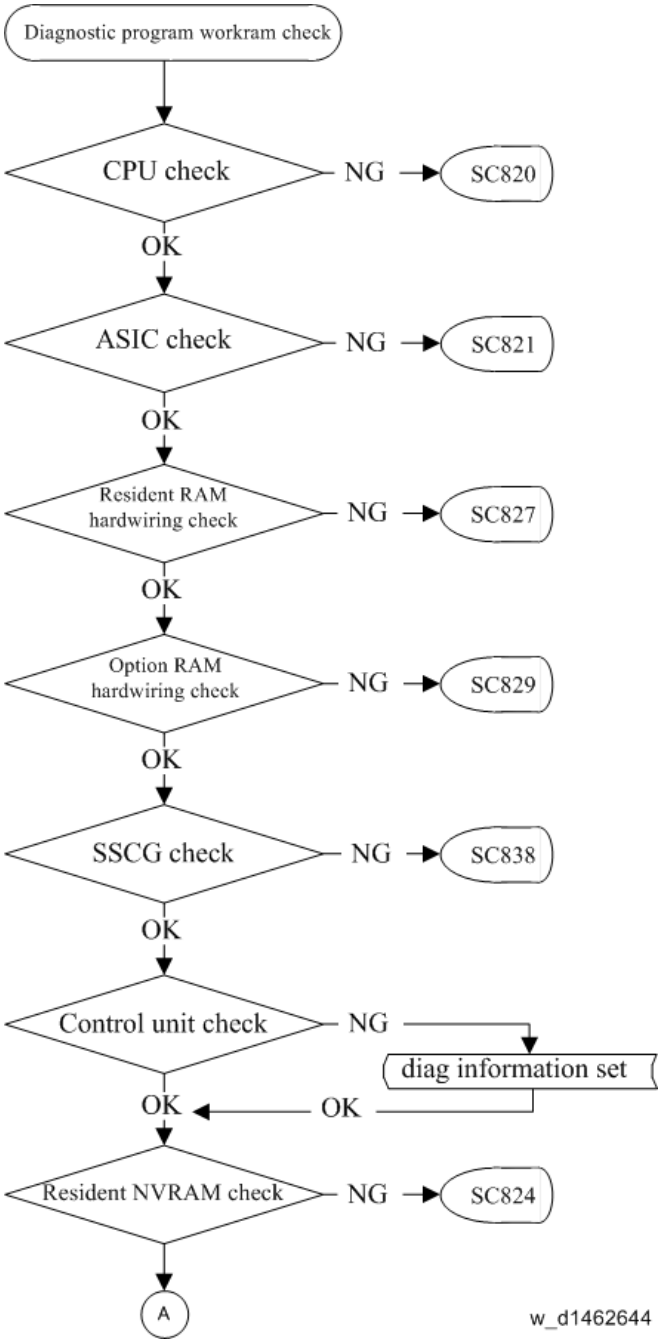
1. After attaching the option "IEEE 1284 board" to the controller board, connect the provided conversion connector.
2. Set a loop back connector in the reference centronics I/F.
3. Press the main power supply switch while simultaneously pressing the "#" and "./* key. The display changes to the following screen, and self-diagnosis starts.

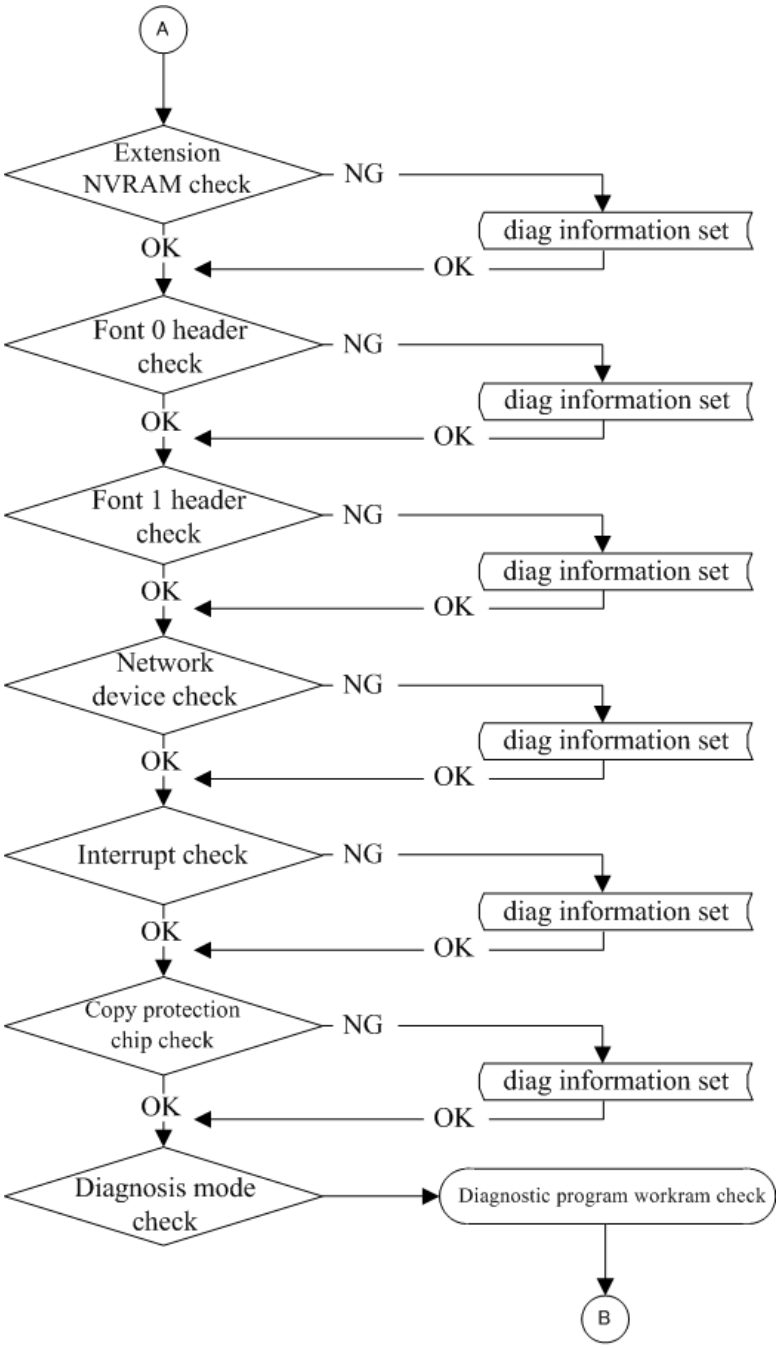
4. After the end of detailed self-diagnosis, a "Self-diagnosis results report" is automatically printed.

Note

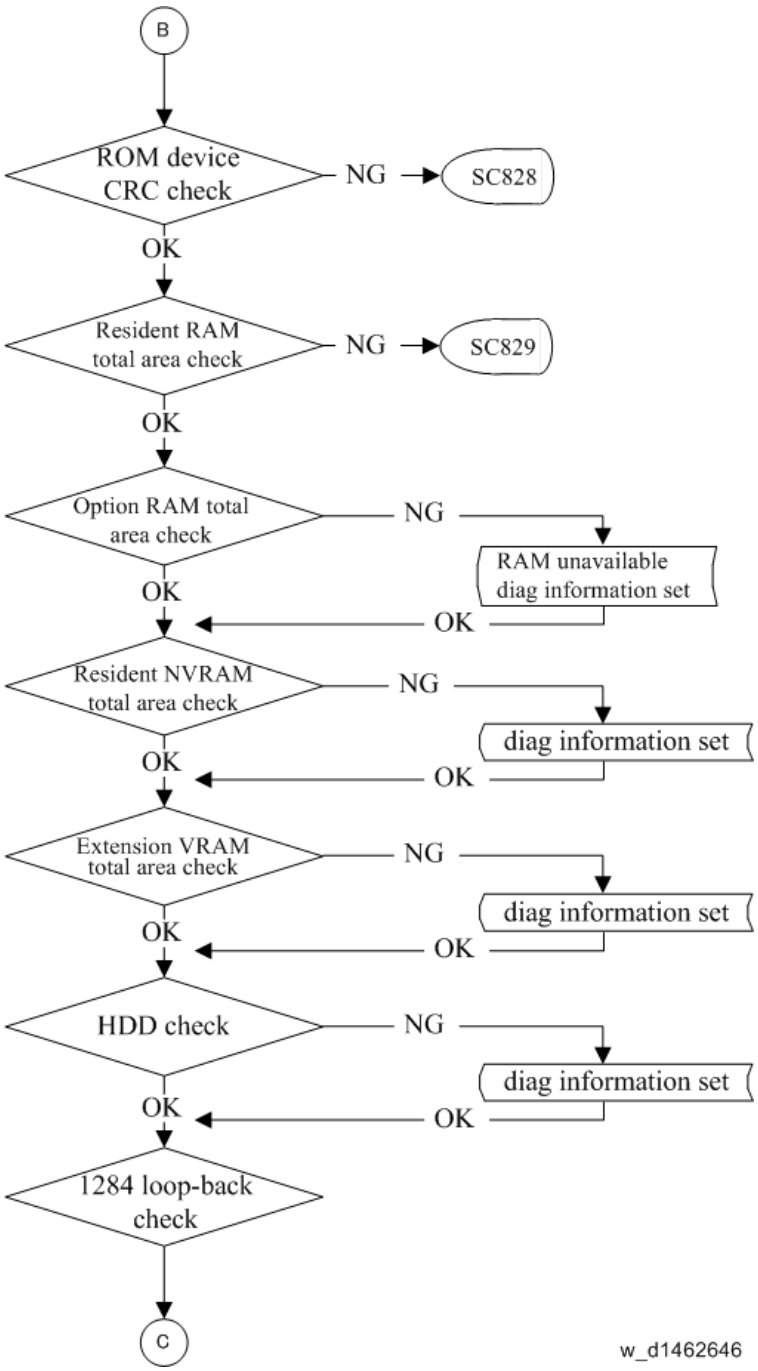
- If a centronics loopback connector is not fitted, a centronics diagnosis error (SC 835) is generated.

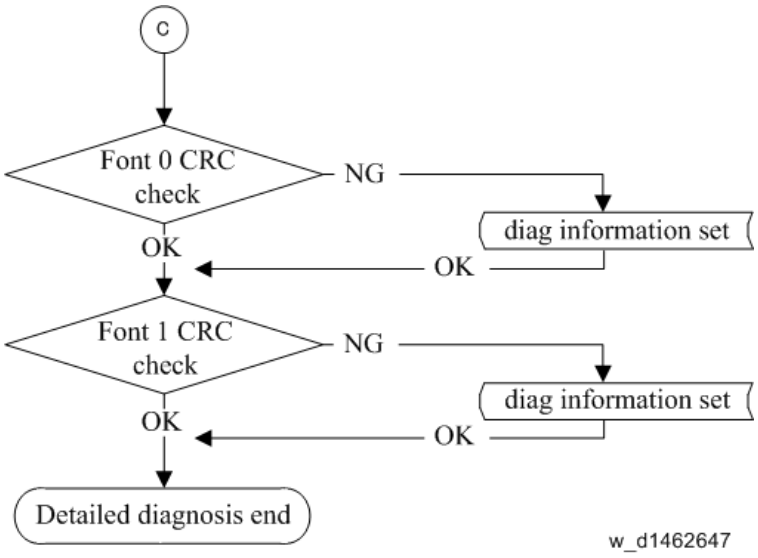
Controller Self-diagnosis Flowchart




A
Extension NVRAM check
NG
diag information set
OK
OK
Font 0 header check
NG
diag information set
OK
OK
Font 1 header check
NG
diag information set
OK
OK
Network device check
NG
diag information set
OK
OK
Interrupt check
NG
diag information set
OK
OK
Copy protection chip check
NG
diag information set
OK
OK
Diagnosis mode check
Diagnostic program workram check
B

w_d1462645


B
ROM device CRC check
NG
SC828
OK
Resident RAM total area check
NG
SC829
OK
Option RAM total area check
NG
RAM unavailable diag information set
OK
OK
Resident NVRAM total area check
NG
diag information set
OK
OK
Extension VRAM total area check
NG
diag information set
OK
OK
HDD check
NG
diag information set
OK
OK
1284 loop-back check
C
w_d1462646



HDD-related Message

When an error occurs to the HDD, the HDD abnormality message appears on the operation panel and the screen for formatting is displayed. Also when replacing the HDD, a message "Hard Disk is replaced." appears on the operation panel and the screen for formatting is displayed.
Refer to the table shown below for the conditions of the message display.

Even when replacing the controller board, a banner "Hard Disk is replaced." appears. It is because the machine recognizes HDD has been replaced when the controller board that does not hold the HDD identification information is attached.

Message list

Message	Display Type	Normal/ Abnormal	Error Condition/ Major Cause/ Solution
SC870	banner	abnormal	The HDD cannot be accessed at power-on.
			NVRAM defective
			Turn the main power off/on to initialize the machine. *When replacing the NVRAM, if possible, back up the address book before replacing the NVRAM and restore it after replacing the NVRAM.
Hard Disk will be formatted due to problem with Hard Disk.	pop-up formatting button	abnormal	Management file on the HDD can not be read. Or the file system can not be mounted.
			HDD defective
			Replace the HDD.
Problem with the Encryption	pop-up	abnormal	The encryption key for the HDD is abnormal.

Message	Display Type	Normal/ Abnormal	Error Condition/ Major Cause/ Solution
Key for Hard Disk. Format Hard Disk.	formatting button		HDD defective
			Replace the HDD.
Hard Disk is replaced. Format Hard Disk.	pop-up formatting button	normal	A new HDD is attached.
			A new HDD attached
			Push the formatting button.
Hard Disk is replaced.	banner	abnormal	The HDD is replaced (Data can be read).
			• Controller board replaced • After starting the machine without an HDD, a new HDD is attached to the machine and then restart the machine.
			Turn the main power off/on.
Formatting Hard Disk... Please wait, also make sure the main power switch is not turned off.	pop-up	abnormal	Pushing the formatting button.
			Formatting the HDD
			-
Hard Disk is formatted. Turn main power switch off then on.	pop-up	abnormal	Formatting the HDD is finished.
			Formatting the HDD
			Turn the main power off/on.

Service Call Conditions

Summary

The 'SC Table' section shows the SC codes for controller errors and other errors. The latter are put into four types. The type is determined by their reset procedures. The table shows the classification of the SC codes.

Type	Display	How to reset
A	The SC is immediately displayed on the operation panel when SC occurs. The error involves the fusing unit. The machine operation is disabled. The user cannot reset the error. Important • When canceling a fusing unit SC, (SC544-00/ SC554-00/ SC564-00/ SC574-00), perform part replacement in accordance with the above procedure.	Reset the SC (set SP5-810-1) and then cycle the main power off and on.
B	When a function is selected, the SC is displayed on the operation panel. The machine cannot be used (down-time mitigation).	Turn the operation switch off and on.
C	No display on the operation panel. The machine operates as usual.	Only the SC history is updated.
D	The SC is displayed on the operation panel. The machine cannot be used (machine-error SC).	Turn the main power switch off and on.

Note

- When an ordinary SC (type D) is generated, an automatic reboot is performed. When an event is reported by the customer support system, even in the event of an ordinary SC, reboot is not performed. During automatic reboot, a confirmation screen is displayed after the reboot.
- When automatic reboot occurs twice continuously, an SC is displayed without rebooting, and logging count is performed. Also, when an SMC print is output, an * mark is added alongside the SC number for clarity.
- Automatic reboot can be enabled or disabled with SP5-875-001 (SC automatic reboot setting) (default value: ON).

SP descriptions

- **SP5-875-001 (SC automatic reboot: Reboot Setting)**

  Enables or disables the automatic reboot function when an SC error occurs.

  0: The machine reboots automatically when the machine issues an SC error and logs the SC error code. If the same SC occurs again, the machine does not reboot.

  1: The machine does not reboot when an SC error occurs.

  The reboot is not executed for the pattern A or C.

SC Logging

When an SC is generated, the "total count value when the SC is generated" and the "SC code" are logged. However, if the total count value during the SC is the same as last time, logging is not performed.
Logged data can be checked by outputting an administrative report (SMC print). The SC history is logged up to the last 10 entries, and if there are more than 10 entries, data are progressively deleted starting from the oldest.

List of Automatic Reboot Target SC

Engine SC

Automatic reboot target SC is as follows. For details of Automatic reboot, refer to SC Automatic Reboot.

SC code	Name
202-00	Polygon Motor: ON Timeout Error
203-00	Polygon Motor: OFF Timeout Error
204-00	Polygon Motor: XSCRDY Signal Error
220-01	Leading Edge: LD1 synchronization detection error: Bk
220-04	Leading Edge: LD1 synchronization detection error: Ye
230-01	FGATE ON error: Bk
230-02	FGATE ON error: Cy
230-03	FGATE ON error: Ma
230-04	FGATE ON error: Ye
231-01	FGATE OFF error: Bk
231-02	FGATE OFF error: Cy
231-03	FGATE OFF error: Ma
231-04	FGATE OFF error: Ye
240-01	LD error: Bk
240-02	LD error: Cy
240-03	LD error: Ma
240-04	LD error: Ye
272-01	LD driver communication error: Bk
272-02	LD driver communication error: Cy
272-03	LD driver communication error: Ma
272-04	LD driver communication error: Ye
272-10	LD driver communication error: Other
312-01	Charge Roller HVP_CB Output Error (K)
312-02	Charge Roller HVP_CB Output Error (C)
312-03	Charge Roller HVP_CB Output Error (M)
312-04	Charge Roller HVP_CB Output Error (Y)
324-01	Development motor: Bk: Lock

SC code	Name
324-05	Development motor: CMY: Lock
360-01	TD sensor adjustment error (K)
360-02	TD sensor adjustment error (C)
360-03	TD sensor adjustment error (M)
360-04	TD sensor adjustment error (Y)
396-05	PCU motor (CMY) Lock
441-00	PCU: black / ITB drive motor Lock
442-00	ITB Lift Error
452-00	Paper transfer contact motor error
491-00	High voltage power source: charge/development: output error
531-01	Development Intake Fan/Right Lock
531-03	Drive Cooling Fan Lock
533-01	PSU Exhaust Fan Lock
533-03	PSU Cooling Fan Lock
533-04	Controller Box Cooling Fan Lock
534-01	Main Exhaust Fan Lock
534-02	Toner Supply Cooling Fan Lock
534-03	Ozone Exhaust Fan Lock
535-00	Paper Exit Cooling Fan Lock
540-00	Fusing Motor: Lock
542-05	Thermopile (Center) does not reload (Low Power)
542-06	Thermopile (Center) does not reload (Low Power)
545-05	Fusing Central Lamp Continuously Heat (Low Power)
547-01	Zero cross error (relay-contact soldering)
547-02	Zero cross error (relay contact error)
547-03	Zero cross error (low-frequency error)
549-02	Fusing Shield Operation Error
549-03	Fusing Shield Operation Error
549-04	Fusing Shield Operation Error
549-05	Fusing Shield Operation Error
552-05	Thermopile (Center) Does Not Reload (Low Power)
552-06	Thermopile (Center) Does Not Reload (Low Power)
561-05	Pressure Roller Thermistor (Center) Disconnection (Low Power)
562-05	Pressure Roller Thermistor (Center) Does Not Reload (Low Power)
569-00	Paper Exit/ Pressure Release Motor Error Detection
571-05	Pressure Roller Thermistor (Edge) Disconnection
572-05	Pressure Roller Thermistor (Edge) Does Not Reload (Low Power)

SC code	Name
581-05	Pressure Roller Thermistor (Full-Bleed Edge) Disconnection (Low Power)
582-05	Pressure Roller Thermistor (Full-Bleed Edge) Does Not Reload (Low Power)
621-01	Finisher communication error
621-02	Mailbox communication error
622-01	Paper tray 1 communication error for Paper Feed Unit PB3150 (D694)
622-11	Paper tray 1 communication error for Paper Feed Unit PB3160 (D693)
622-31	Paper tray 1 communication error for LCIT PB3170/PB3230 (D695)
623-00	Paper tray 2 communication error for LCIT RT3030 (D696)
663-01	Reset Detection: Imaging IOB: Software hangup occurs
663-02	Reset Detection: Imaging IOB: Power ON reset occurs
663-03	Reset Detection: Imaging IOB: Software reset occurs
663-11	Reset Detection: Paper Transport IOB: Software hangup occurs
663-12	Reset Detection: Paper Transport IOB: Power ON reset occurs
663-13	Reset Detection: Paper Transport IOB: Software reset occurs
664-01	VODKA1 (Paper Transport Vodka) access permission error to VODKA SRAM
669-01	EEPROM OPEN: ID error
669-02	EEPROM OPEN: Channel error
669-03	EEPROM OPEN: Device error
669-04	EEPROM OPEN: Communication abort error
669-05	EEPROM OPEN: Communication timeout error
669-06	EEPROM OPEN: Operation stopped error
669-07	EEPROM OPEN: Buffer full
669-08	EEPROM OPEN: No error code
669-09	EEPROM CLOSE: ID error
669-10	EEPROM CLOSE: No error code
669-11	EEPROM Data write: ID error
669-12	EEPROM Data write: Channel error
669-13	EEPROM Data write: Device error
669-14	EEPROM Data write: Communication abort error
669-15	EEPROM Data write: Communication timeout error
669-16	EEPROM Data write: Operation stopped error
669-17	EEPROM Data write: Buffer full
669-18	EEPROM Data write: No error code
669-19	EEPROM Data read: ID error
669-20	EEPROM Data read: Channel error
669-21	EEPROM Data read: Device error
669-22	EEPROM Data read: Communication abort error

SC code	Name
669-23	EEPROM Data read: Communication timeout error
669-24	EEPROM Data read: Operation stopped error
669-25	EEPROM Data read: Buffer full
669-26	EEPROM Data read: No error code
669-36	Verification error
669-37	Error Detection
681-01	Toner bottle: IDChip Communication error: Invalid device ID :K
681-02	Toner bottle: IDChip Communication error: Invalid device ID :M
681-03	Toner bottle: IDChip Communication error: Invalid device ID :C
681-04	Toner bottle: IDChip Communication error: Invalid device ID :Y
681-06	Toner bottle: IDChip Communication error: Channel error :K
681-07	Toner bottle: IDChip Communication error: Channel error :M
681-08	Toner bottle: IDChip Communication error: Channel error :C
681-09	Toner bottle: IDChip Communication error: Channel error :Y
681-11	Toner bottle: IDChip Communication error: Device Error :K
681-12	Toner bottle: IDChip Communication error: Device Error :M
681-13	Toner bottle: IDChip Communication error: Device Error :C
681-14	Toner bottle: IDChip Communication error: Device Error :Y
681-16	Toner bottle: IDChip Communication error: Communication error (interrupted) :K
681-17	Toner bottle: IDChip Communication error: Communication error (interrupted) :M
681-18	Toner bottle: IDChip Communication error: Communication error (interrupted) :C
681-19	Toner bottle: IDChip Communication error: Communication error (interrupted) :Y
681-21	Toner bottle: IDChip Communication error: Communication timeout :K
681-22	Toner bottle: IDChip Communication error: Communication timeout :M
681-23	Toner bottle: IDChip Communication error: Communication timeout :C
681-24	Toner bottle: IDChip Communication error: Communication timeout :Y
681-26	Toner bottle: IDChip Communication error: Device stops (logically) :K
681-27	Toner bottle: IDChip Communication error: Device stops (logically) :M
681-28	Toner bottle: IDChip Communication error: Device stops (logically) :C
681-29	Toner bottle: IDChip Communication error: Device stops (logically) :Y
681-31	Toner bottle: IDChip Communication error: Full of buffer (request) :K
681-32	Toner bottle: IDChip Communication error: Full of buffer (request) :M
681-33	Toner bottle: IDChip Communication error: Full of buffer (request) :C
681-34	Toner bottle: IDChip Communication error: Full of buffer (request) :Y
681-36	Toner bottle: IDChip Communication error: Verification error:K
681-37	Toner bottle: IDChip Communication error: Verification error:M
681-38	Toner bottle: IDChip Communication error: Verification error:C

SC code	Name
681-39	Toner bottle: IDChip Communication error: Verification error:Y
682-01	TD sensor communication error: Invalid device ID :K
682-02	TD sensor communication error: Invalid device ID :M
682-03	TD sensor communication error: Invalid device ID :C
682-04	TD sensor communication error: Invalid device ID :Y
682-06	TD sensor communication error: Channel error :K
682-07	TD sensor communication error: Channel error :M
682-08	TD sensor communication error: Channel error :C
682-09	TD sensor communication error: Channel error :Y
682-11	TD sensor communication error: Device Error :K
682-12	TD sensor communication error: Device Error :M
682-13	TD sensor communication error: Device Error :C
682-14	TD sensor communication error: Device Error :Y
682-16	TD sensor communication error: Communication error (interrupted) :K
682-17	TD sensor communication error: Communication error (interrupted) :M
682-18	TD sensor communication error: Communication error (interrupted) :C
682-19	TD sensor communication error: Communication error (interrupted) :Y
682-21	TD sensor communication error: Communication timeout :K
682-22	TD sensor communication error: Communication timeout :M
682-23	TD sensor communication error: Communication timeout :C
682-24	TD sensor communication error: Communication timeout :Y
682-26	TD sensor communication error: Device stops (logically) :K
682-27	TD sensor communication error: Device stops (logically) :M
682-28	TD sensor communication error: Device stops (logically) :C
682-29	TD sensor communication error: Device stops (logically) :Y
682-31	TD sensor communication error: Full of buffer (request) :K
682-32	TD sensor communication error: Full of buffer (request) :M
682-33	TD sensor communication error: Full of buffer (request) :C
682-34	TD sensor communication error: Full of buffer (request) :Y
682-36	TD sensor communication error: Verification error:K
682-37	TD sensor communication error: Verification error:M
682-38	TD sensor communication error: Verification error:C
682-39	TD sensor communication error: Verification error:Y
687-00	PER Not Received Error
780-01	Tray 1 (Upper optional paper tray) Protection Device Intercept Error
781-01	Tray 2 (Lower optional paper tray) Protection Device Intercept Error
791-00	No bridge unit when finisher is present

SC code	Name
995-01	CPM setting error 1
995-02	CPM setting error 2
995-03	CPM setting error 3
995-04	CPM setting error 4

Controller SC

Automatic reboot target SC is as follows. For details of Automatic reboot, refer to SC Automatic Reboot.

SC code	Name
632-00	Counter device error 1
633-00	Counter device error 2
634-00	Counter device error 3
635-00	Counter device error 4
636-01	IC Card Error (Expanded authentication module error)
636-02	IC Card Error (Version error)
637-01	Tracking Information Notification Error (Tracking application error)
637-02	Tracking Information Notification Error (Management server error)
641-00	Communication error between BCU and Controller board
670-01	Engine does not start up during the staring up
670-02	Engine does not start up after the staring up
670-03	IPU power does not start up
670-04	Communication is not linked up
816-00	Energy save I/O subsystem error
816-01	Subsystem error
816-02	Sysarch (LPUX_GET_PORT_INFO) error
816-03	Transition to STR was denied.
816-04	Interrupt in kernel communication driver
816-05	Preparation for transition to STR failed.
816-07	Sysarch (LPUX_GET_PORT_INFO) error
816-08	Sysarch (LPUX_ENGINE_TIMERCTRL) error
816-09	Sysarch (LPUX_RETURN_FACTOR_STR) error
816-10 to 12	Sysarch (LPUX_GET_PORT_INFO) error
816-13	open() error
816-14	Memory address error
816-15 to 18	open() error
816-19	Double open() error
816-20	open() error
816-22	Parameter error

SC code	Name
816-23	read() error
816-24	read() error
816-25	write () error
816-26	write() communication retry error
816-27	write() communication retry error
816-28	write() communication retry error
816-29	read() communication retry error
816-30	read() communication retry error
816-35	read() error
816-36 to 94	Subsystem error
818-00	Watchdog timer error
840-00	EEPROM access error
841-00	EEPROM read data error
862-00	Number of the defective sector reaches the maximum count
863-00 to 23	HDD data read failure
864-00 to 23	HD data CRC error
865-00 to 23	HDD access error
865-50 to 73	HDD time-out error
868-00 to 02	SD card authentication error
875-01	Delete all error (HDD erasure) (hddchack –i error)
875-02	Delete all error (HDD erasure) (Data deletion failure)
899-00	Software performance error (signal reception end)
990-00	Software operation error
992-00	Undefined SC issued.
997-00	Application function selection error
998-00	Application start error

SC Code Classification

The table shows the classification of the SC codes:

Class	Section
SC1xx	Serial Number
SC2xx	Exposure
SC3xx	Image Processing 1
SC4xx	Image Processing 2
SC5xx	Paper feed and Fusing
SC6xx	Communication
SC7xx	Peripherals

Class	Section
SC8xx	Overall System
SC9xx	Others

Service Call 195

SC100 (Engine: Serial Number)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC195-00	D	Machine serial number error
		Comparison of the product identification code in the machine serial number (11 digits).
		The product identification code in the machine serial number (11 digits) does not match.
		Re-enter the machine serial number.

Service Call 202-285

SC200 (Engine: Image Writing)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC202-00	D	Polygon Motor: ON Timeout Error
		After the polygon motor turned on, or within the specified time (sec.) after the rpm's changed, the motor did not enter READY status.
		• The interface harness to the polygon motor driver damaged or not connected correctly. • Polygon motor or polygon motor driver defective • Polygon motor drive pulse cannot be output correctly. (Polygon controller) • XSCRDY signal observation failing (Polygon controller)
		1. Turn the main power OFF/ON. 2. Reconnect the connectors between LD unit and IPU. 3. Check CN586 (a connector with 1 pin) for the polygon mirror motor from the PSU. 4. Replace the LD unit (Polygon mirror motor). 5. Replace the harness between the LD unit and IPU. 6. Replace the IPU. 7. Replace the PSU (or fuses on PSU).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC203-00	D	Polygon Motor: OFF Timeout Error
		The XSCRDY signal (polygon ready) never becomes inactive (H) within 3 sec. after the polygon motor went OFF.
		• The interface harness to the polygon motor driver damaged or not connected correctly. • Polygon motor or polygon motor driver defective • Polygon motor drive pulse cannot be output correctly. (Polygon controller) • XSCRDY signal observation failing (Polygon controller)
		1. Turn the main power OFF/ON. 2. Reconnect the harness between LD unit and IPU. 3. Check CN586 (a connector with 1 pin) for the polygon mirror motor from the PSU. 4. Replace the LD unit (Polygon mirror motor). 5. Replace the harness between the LD unit and IPU. 6. Replace the IPU. 7. Replace the PSU (or fuses on PSU).

RTB 40

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC204-00	D	Polygon Motor: XSCRDY Signal Error
		During polygon motor rotation, the XSCRDY signal was inactive (H) for longer than one

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		rotation of the polygon.
		• The interface harness to the polygon motor driver damaged or not connected correctly. • Polygon motor or polygon motor driver defective
		1. Turn the main power OFF/ON. 2. Reconnect the connectors between LD unit and IPU. 3. Check CN586 (a connector with 1 pin) for the polygon mirror motor from the PSU. 4. Replace the LD unit (Polygon mirror motor). 5. Replace the harness between the LD unit and IPU. 6. Replace the IPU. 7. Replace the PSU (or fuses on PSU).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC220-01	D	Leading Edge: LD1 synchronization detection error: Bk
SC220-04	D	Leading Edge: LD1 synchronization detection error: Ye
		The leading edge LD0 synchronization detection signal of the corresponding color was not output within the specified time (sec.) while the polygon mirror motor was operating at normal speed.
		• The interface harness to the synchronization detection unit damaged or not connected correctly. • Synchronization detection board defective • Beam does not enter photo detector. • Abnormality around GAVD • LDB defective
		1. Turn the main power OFF/ON. 2. Check for condensation on the LDB. 3. Reconnect the connectors between LDB (Synchronizing detector board) and IPU. 4. Replace the LD unit. 5. Replace the IPU 6. Replace the harness between LDB (Synchronizing detector board) and IPU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC230-01	D	FGATE ON error: Bk
SC230-02	D	FGATE ON error: Cy

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC230-03	D	FGATE ON error: Ma
SC230-04	D	FGATE ON error: Ye
		The FGATE signal did not turn ON within the specified time (sec.) after the writing process of the corresponding color started.
		• Image processing ASIC defective on IPU • Harness between IPU and LDB defective
		1. Turn the main power OFF/ON. 2. Reconnect the connectors between IPU and controller board. 3. Replace the IPU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC231-01	D	FGATE OFF error: Bk
SC231-02	D	FGATE OFF error: Cy
SC231-03	D	FGATE OFF error: Ma
SC231-04	D	FGATE OFF error: Ye
		• The FGATE signal did not turn OFF within the specified time (sec.) after the writing process of the corresponding color ended. • The FGATE signal did not turn OFF when the next job of the corresponding color started.
		• Image processing ASIC defective on IPU • Harness between IPU and LDB defective
		1. Turn the main power OFF/ON. 2. Reconnect the connectors between IPU and controller board. 3. Replace the IPU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC240-01	D	LD error: Bk
SC240-02	D	LD error: Cy
SC240-	D	LD error: Ma

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
03		
SC240-04	D	LD error: Ye
		• If LD error terminal of LD driver of corresponding color is asserted after LD initialization. • If an error is detected during initialization of LD driver which detects Ith/Ieta of LD of corresponding color.
		• LD degradation (LD broken, shift of output characteristics etc.) • The interface harness damaged or not connected correctly. • LD driver defective

		1. Turn the main power OFF/ON.
		2. Check the value in SP2-110-001 to 004 (LD Driver), the default is "0h".
		  • If current value is "0", perform step 4.
		  • If current value is "1", perform steps 3 and 5.
		3. Reconnect the connectors between LDB and IPU.
		4. Replace the LD unit
		5. Replace the harness between LDB to IPU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC272-01	D	LD driver communication error: Bk
SC272-02	D	LD driver communication error: Cy
SC272-03	D	LD driver communication error: Ma
SC272-04	D	LD driver communication error: Ye
		In view of parity, 3 retries were performed
		• BCU defective • Harness defective • LDB defective

		1. Turn the main power OFF/ON.
		2. Reconnect the following connectors:
		  • LDB-IPU harness
		  • IPU-BCU harness
		3. Replace the LD unit.
		4. Replace the BCU.
		5. Replace the following harnesses:
		  • LDB-IPU harness
		  • IPU-BCU harness

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC272-10	D	LD driver communication error: Other
		LD voltage does not satisfy the specified voltage (5 V).
		• BCU defective (LD5V Power error) • LDB defective (LD drive error) • LDB connector defective (loose, broken) • Interlock switch defective
		1. Turn the main power OFF/ON. 2. Reconnect the connectors between LDB and IPU. 3. Replace the IPU. 4. Replace the LD unit. 5. Replace the harness between LDB and IPU. 6. Replace the interlock switch.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC285-01	C	Laser Optics Positioning Motor (in LD unit) Power Control Error
		The power supply from PSU is not supplied to the laser optics positioning motors.
		• Software error • Imaging IOB defective • BCU defective
		1. Turn the main power OFF/ON. 2. Update the firmware. 3. Replace the imaging IOB. 4. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC285-02	C	MUSIC error
		The results of MUSIC pattern reading failed 4 times. (even if mode e (real time MUSIC) fails, the error count is not incremented (+1))
		For details about cause and solution, refer to When SC285-02 (MUSIC Error) is Displayed.

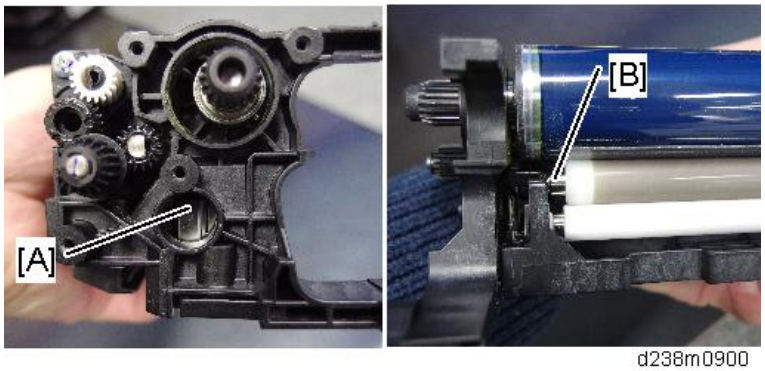
Service Call 312-396

SC300 (Engine: Charge, Development)

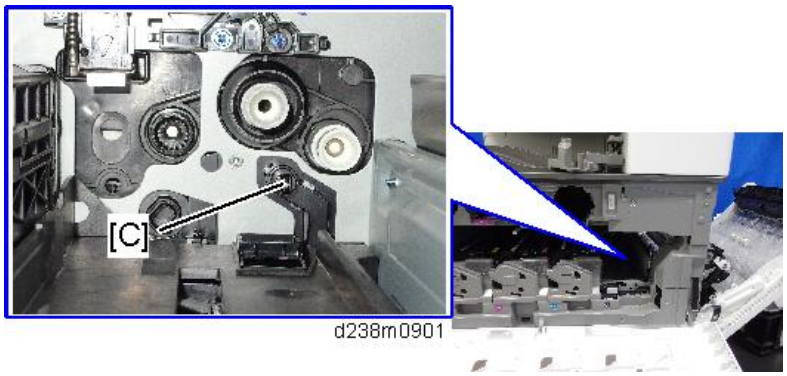
SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC312-01	D	Charge Roller HVP_CB Output Error (K)
SC312-02	D	Charge Roller HVP_CB Output Error (C)
SC312-03	D	Charge Roller HVP_CB Output Error (M)
SC312-04	D	Charge Roller HVP_CB Output Error (Y)
		Charging AC is set to ON at the standard speed, and the FB voltage of the charging AC of each color is monitored for 200 ms at 20ms intervals (10 times) after 80ms of charge AC_ON, and below 0.3V is detected continuously for 200ms (10 times), the SC of the corresponding color lights up, and machine operation is suspended.
		• High voltage harness defective or shorted. • PCU setting fault or damage • HVP_CB fault • Connector disconnected • Harness broken

Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.

1. Check the PCU for the following points and repair or replace the PCDU if there are any defects.
   - Check for contaminants on the Charge Roller terminal [A]
   - Check for damage or deformation of the Charge Roller terminal [A]
   - Check for continuity with the Charge Roller terminal core bar [B]



2. Check if all connectors related to the PCDU are connected securely. Replace the connectors if they are disconnected, or loose.
3. Repair or replace the parts of the main machine if there are any defects after checking the following points.
   - Check for contaminants on the charged power supplying plate [C]
   - Check for damage or deformation of the charged power supplying plate [C]

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
• Check for continuity between the Charge Roller terminal core bar and the HVP (CB)  4. Replace the HVP (CB). 5. If the SC occurs again, replace the BCU.		

SC324-01
RTB 23

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC324-01	D	Development motor: Bk: Lock
		Motor status is observed at 100ms intervals during motor ON, and the unlock status is detected at least 20 times
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Development unit torque increased
		• Replace the motor • Reconnect the connector • Replace the harness • Replace the Imaging IOB. • Replace the PCDU.

SC324-05
RTB 23

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC324-05	D	Development motor: CMY: Lock
		Motor status is observed at 100ms intervals during motor ON, and the unlock status is detected at least 20 times.
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Development unit torque increased

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Replace the motor • Reconnect the connector • Replace the harness • Replace the Imaging IOB. • Replace the PCDU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC360-01	D	TD sensor adjustment error (K)
SC360-02	D	TD sensor adjustment error (C)
SC360-03	D	TD sensor adjustment error (M)
SC360-04	D	TD sensor adjustment error (Y)
		1. Mu count is higher than the threshold which detects no developer. 2. Mu count is lower than the upper/lower target thresholds three consecutive times.
		• TD sensor defective • Loose connection • Harness broken
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors related to the TD sensor are connected securely. Replace the connectors if they are disconnected, or loose. 2. Check the Development Unit for the following points and repair or replace the PCDU if there are any defects. • Gear came off • PCDU seal was not removed 3. Check the TD sensor and repair or replace it if there are any defects. 4. Check the harness for the TD sensor. Replace the harness if it is disconnected, or damaged. 5. Replace the BCU if the SC cannot be repaired even after executing steps 1 to 4.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC361-01	D	TD sensor output error: Upper Limit (K)
SC361-	D	TD sensor output error: Upper Limit (C)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
02		
SC361-03	D	TD sensor output error: Upper Limit (M)
SC361-04	D	TD sensor output error: Upper Limit (Y)
		TD sensor output: Vt (SP3-210-001 to 004) > output upper limit error threshold (SP3-211-002) continuously exceeded the upper limit occurrence threshold value (SP3-211-003).
		• TD sensor connector dropout (connection fault) • Development unit defective • TD sensor defective • Parameter error (Mu count value is cleared) • Toner supply operation error (When the image density is excessively low, the supply unit may have a possibility of abnormality)
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors related to the TD sensor are connected securely. Replace the connectors if they are disconnected, or loose. 2. Check the Development Unit for the following points and repair or replace the PCDU if there are any defects. • Gear comes off • PCDU not set correctly 3. Check the TD sensor and repair or replace it if there are any defects. 4. Replace the PCDU with a new one to initialize the TD sensor (Mu count). 5. Check the Toner Supply Unit and repair or replace it if there are any defects. • Toner bottle is empty • Toner bottle drive error • Clogged supply path 6. Check the harness for the TD sensor. Replace the harness if it is disconnected, or damaged. 7. Replace the BCU if the SC cannot be repaired even after executing steps 1 to 6.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC362-01	D	TD sensor output error: Lower limit (K)
SC362-02	D	TD sensor output error: Lower limit (C)
SC362-03	D	TD sensor output error: Lower limit (M)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC362-04	D	TD sensor output error: Lower limit (Y)
		TD sensor output: Vt (SP3-210-001 - 004) < output lower limit error threshold (SP3-211-004) is continuously below the lower limit occurrence threshold value (SP3-211-005)
		• TD sensor connector dropout (connection fault) • Development unit defective • TD sensor defective • Parameter error (Mu count value is cleared) • Toner supply operation error (When the image density is excessively low, the supply unit may have a possibility of abnormality)
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors related to the TD sensor are connected securely. Replace the connectors if they are disconnected, or loose. 2. Check the Development Unit for the following points and repair or replace the PCDU if there are any defects. • Gear comes off • PCDU not set correctly 3. Check the TD sensor and repair or replace it if there are any defects. 4. Replace the PCDU with a new one to initialize the TD sensor (Mu count). 5. Check the Toner Supply Unit and repair or replace it if there are any defects. • Toner bottle driving error (left rotating) 6. Check the harness for the TD sensor. Replace the harness if it is disconnected, or damaged. 7. Replace the BCU if the SC cannot be repaired even after executing steps 1 to 6.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC370-01	D	TM (ID) sensor calibration error (F)
SC370-02	D	TM (ID) sensor calibration error (C)
SC370-03	D	TM (ID) sensor calibration error (R)
		Regular reflection optical output voltage of the Front or Center or Rear TM (ID) sensor: Vsg_reg cannot be adjusted to within target range. Upper limit (SP3-320-013: initial value 4.5V) Lower limit (SP3-320-014: initial value 3.5V)
		For details about cause and solution, refer to When SC370 (TM (ID) Sensor Calibration

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Error) is Displayed.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC396-05	D	PCU motor (CMY) Lock
		Motor status is observed at 100ms intervals during motor ON, and the unlock status is detected at least 20 times
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Unit torque increased.
		• Replace the motor • Reconnect the connector • Replace the harness • Replace the Imaging IOB. • Replace the PCDU

Service Call 441-498

SC400 (Engine: Around the Drum)

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC441-00	D	PCU: Black / ITB Drive Motor: Lock
		Motor status is observed at 100ms intervals during motor ON, and the unlock status is detected at least 20 times.
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Unit torque increased.
		• Replace the motor • Reconnect the connector • Replace the harness • Replace the Imaging IOB. • Check the load on the motor (PCDU, Image transfer unit, Paper transfer unit, Waste toner bottle). • Replace the PCDU, Image transfer unit, Paper transfer unit or Waste toner bottle.

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC442-00	D	ITB Lift Error
		Even though the ITB lift motor (also Toner supply motor (M)) rotates, the ITB lift sensor failed to detect the specified sensor feeler status within specified time. • Contact/separation operation: If not detected in 2000msec • Home position operation: If not detected in 5000msec Signal detection sampling period: 10msec
		• Image transfer unit not set/faulty setting • Sensor dirt • Sensor defective • Motor defective • Unit load large
		1. Reset the image transfer unit properly. 2. Clean the ITB lift sensor 3. Check the harness (disconnected, loose connectors) 4. Replace the ITB lift sensor 5. Replace the image transfer unit 6. Replace the contact/separation drive unit

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC452-00	D	Paper transfer contact motor error
		Paper transfer contact motor: position sensor cannot detect the sensor filler state within the predetermined time (see below) even if the paper transfer contact motor is rotated. • Contact operation: If not detected in 2000msec • Home position operation: If not detected in 5000msec Signal detection sampling period: 10msec
		• Sensor dirt • Sensor defection • Motor defection • Unit load large
		• Replace the contact drive unit • Replace the image transfer unit • Check the harness

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC491-00	D	High voltage power source: charge/development: output error
		SC detection signal (charge/development) is L (abnormal) for 200 ms consecutively during high voltage (charge/development) output.
		H/W error • Output contact setting fault • Controller connector set fault • Ground fault of output high voltage path • Surface/air clearance insufficient (arc discharge) • Controller harness disconnection, short-circuit • PCU setting fault • Control board _IOB error (related signal error) • HVP_CB error Load error • Grounding fault of charging output, short-circuit with other outputs • Surface/air clearance insufficient in charging output path (including distance from other outputs) • Abnormal deterioration of drum, and over current due to pinholes • Drum vs charge roller gap error (PCU error). • Over current due to drum surface condensation • Grounding fault of developing output, short-circuit with other outputs • Surface/air clearance insufficient in developing output path (including distance from other outputs)

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
		• Other
		• Turn the main power OFF/ON. • Reset or replace the harness of high voltage power supply feed path • Reset or replace the harness between IOB-HVP_CB • Replace the PCDU. • Check the operation of the contact mechanism • Replace the HVP_CB • Replace the Imaging IOB.

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC492-00	C	High voltage power source: image transfer/paper transfer: output error
		SC detection signal (transfer) is L (abnormal) for 200 ms consecutively during high voltage (transfer) output.
		H/W error • Output power connector setting fault • Controller connector setting fault • Output high voltage Harness disconnection • Controller harness disconnection, short-circuit • Transfer unit setting fault • Control board_ IOB error (related signal error) • HVP_TTS error Load error • Increase in paper transfer roller impedance (low temperature environment/impedance rise/impedance rise due to dirt) • Operation fault of paper transfer contact mechanism • Increase in image transfer belt impedance • Opening in load power supply path
		• Reset or replacement the harness of high voltage power supply feed path • Reset or replace the harness between IOB-HVP_TTS • Reset or replace the transfer unit • Check operation of the contact mechanism • Replace the HVP_TTS • Replace the Imaging IOB.

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC497-00	C	Machine temperature detection thermistor error
		Temperature sensor output error: Below 0.56V, or above 3.0V

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
		• Connector disconnection or broken • Sensor (Thermistor) defective
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors related to the Imaging Temperature Sensor (Thermistor) are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the Imaging Temperature Sensor (Thermistor).

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC498-00	C	Temperature and humidity sensor error
		Temperature sensor output error: Below 0.76V, or above 2.90V, or Moisture sensor output error: more than 2.4V
		• Sensor not setting (disconnection or broken) • Sensor defective
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors related to the Temperature and Humidity Sensor are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the Temperature and Humidity Sensor.

Service Call 501-584

SC500 (Engine: Paper transport 1: Paper Feed, Duplex, Transport)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC501-01	B	1st Tray Lift Error (Main Machine)
		The 1st tray lift motor error detection count reaches 3 times. (Up to 2 times, reset instruction is displayed)
		• 1st tray upper limit sensor connector missing, malfunction, dirt • 1st tray lift motor connector missing, disconnection, malfunction. • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor. • Paper set incorrectly
		• Reload the paper. • Remove the foreign object. **1st tray upper limit sensor, 1st tray lift motor** • Check the harness. • Reset the connector. • Replace **1st paper feed unit, 1st tray** • Replace **Paper transport IOB** • Replace
SC501-02	B	1st Tray Descent Error (Main Frame)
		The 1st tray descent motor error detection count reaches 5. (Up to 4, reset instruction is displayed.)
		• 1st tray upper limit sensor connector missing, malfunction, dirt • 1st tray lift motor connector missing, disconnection, malfunction • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor. • Paper set incorrectly • Paper overload
		• Reset the paper. • Remove the foreign object. **1st tray upper limit sensor, 1st tray lift motor** • Check the harness. • Reset the connector.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Replace **1st paper feed unit, 1st tray** • Replace **Paper transport IOB** • Replace

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC502-01	B	2nd Tray Lift Error (Main Frame)
		The 2nd tray lift motor error detection count reaches 3. (Up to 2, reset is displayed.)
		• 2nd tray upper limit sensor connector missing, malfunction, dirt • 2nd tray lift motor connector missing, disconnection, malfunction • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		• Reset the paper. • Remove the foreign object. **2nd tray upper limit sensor, 2nd tray lift motor** • Check the harness. • Reset the connector. • Replace **2nd paper feed unit, 2nd tray** • Replace **Paper transport IOB** • Replace
SC502-02	B	2nd Tray Descent Error (Main Frame)
		The detection count of 2nd tray descent motor descent errors reaches a total of 5. (Up to 4, reset is displayed.)
		• The 2nd paper feed tray upper limit sensor connector missing, malfunction, and dirt • 2nd tray lift motor connector missing, disconnection, malfunction • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly • Paper overload
		• Reset the paper. • Remove the foreign object.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		2nd tray upper limit sensor, 2nd tray lift motor • Check the harness. • Reset the connector. • Replace **2nd paper feed unit, 2nd tray** • Replace **Paper transport IOB** • Replace

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC503-01	B	3rd Tray Lift Error (Paper Feed Unit PB3250)
		• Lift motor ascent error detection During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, and the upper limit sensor is not detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-02	B	3rd Tray Descent Error (Paper Feed Unit PB3250)
		• Lift motor descent error detection During tray initialization, the tray base plate is lowered to check the tray base plate

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		position, and the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-11	B	3rd Tray Lift Error (Upper tray of Paper Feed Unit PB3240)
		• Lift motor ascent error detection During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, and the upper limit sensor is not detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the LCIT transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • LCIT control board defective • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-12	B	3rd Tray Descent Error (Upper tray of Paper Feed Unit PB3240)
		• Lift motor descent error detection During tray initialization, the tray base plate is lowered to check the tray base plate position; the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-31	B	3rd Tray Lift Error (LCIT PB3260)
		• Upper limit detection error (during descent) During tray initialization (upper limit detection/lower limit not detected), the tray base plate is lowered to check the tray base plate position, and the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. • Upper limit detection error (during ascent)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, and the upper limit sensor is not detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the LCIT transmits "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught between the right tray and the tray lift motor • Paper set incorrectly • Timing belt damage/dropout • Timing pulley damage/dropout • Base plate damage/not horizontal • Paper feed roller missing item • Pickup arm damage • Foreign object, such as a paper scrap, is caught inside the right tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-32	B	3rd Tray Descent Error (LCIT PB3260)
		• Lower limit detection error (during descent) During tray initialization (upper limit not detected/lower eject limit detection), the tray base plate is lowered to check the tray base plate position, and the lower limit sensor is not detected although a predetermined time elapsed. Alternatively, at paper end, the tray base plate is lowered, but the lower limit sensor is not detected although a predetermined time elapsed. • Lower limit error (during ascent) During tray initialization (upper limit eject detection/lower limit detection), the tray base plate is raised to check the tray base plate position, and the lower limit sensor is

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		detected although a predetermined time elapsed. *If an error occurs 3 times consecutively: LCIT transmits "3rd tray lower limit detection error" to the main machine. Up to 2 times consecutively, LCIT transmits "tray set incorrectly" to the main machine.
		• Lift motor error/connector missing • Lower limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught between the right tray and the tray lift motor • Paper set incorrectly • Timing belt damage/dropout • Timing pulley damage/dropout • Base plate damage/not horizontal • Foreign object, such as a paper scrap, is caught inside the right tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-33	B	3rd Tray Paper Overload Error (LCIT PB3260)
		During tray initialization, both the upper limit and lower limit are detected 3 times consecutively. (Up to 2 times consecutively, LCIT transmits "tray set incorrectly" to the main machine
		• Paper overload • Paper set incorrectly • Upper limit sensor error/connector missing • Lower limit sensor error/connector missing • Harness broken • LCIT control board defective • Foreign object, such as a paper scrap, is caught inside the right tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-34	B	3rd Tray Paper Position Error (LCIT PB3260)
		During left/right tray set, or when power is switched ON, or when transfer is complete, "open" is detected 3 times consecutively by end fence open/closed detection. (Up to 2 times consecutively, LCIT transmits "tray set incorrectly" to the main machine.)
		• Paper set incorrectly (paper is offset from position for pushing end fence) • Foreign object entry (foreign object is caught in the position for pushing end fence) • End fence open/closed sensor error/connector missing • Harness broken • LCIT control board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-35	B	3rd Tray Transfer Error (LCIT PB3260)
		• Transfer end detection error At right tray paper end (right tray lower limit detection, left tray paper detection), left tray paper is transferred to the right tray, but the left tray paper sensor is detected although a predetermined time elapsed (paper missing is not detected), for 3 times consecutively. (Up to 2 times consecutively, LCIT transmits "tray set incorrectly" to the main machine.)
		• Transfer motor error/connector missing • Left tray paper sensor error/connector missing • Harness broken

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Tray control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the left tray and the tray transfer motor • Paper set incorrectly • Timing belt damage/dropout • Timing pulley damage/dropout • Transfer fence defective • Foreign object, such as a paper scrap, is caught inside the left tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC503-36	B	3rd Tray Transfer HP Error (LCIT PB3260)
		• HP detection error (during transfer start) At right tray paper end (right tray lower limit detection, left tray paper detection), left tray paper is transferred to the right tray, but the left tray transfer fence HP sensor is detected although a predetermined time elapsed (HP sensor missing cannot be detected). • HP detection error (during transfer fence HP return) During left tray transfer fence HP not detected (stop after paper transfer, during power supply ON, during left tray set), the left tray transfer fence is moved to HP, but the left tray HP sensor is not detected although a predetermined time elapsed. *If an error occurs 3 times consecutively: LCIT transmits "3rd paper feed tray transfer HP error" to the main machine. (Up to 2 times consecutively, LCIT transmits "tray set incorrectly" to the main machine.)
		• Transport motor error/connector missing • Left tray transfer fence HP sensor error/connector missing • Harness broken • LCIT control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the left tray and the tray transport motor

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Paper set incorrectly • Timing belt damage/dropout • Timing pulley damage/dropout • Transfer fence defective • Foreign object, such as a paper scrap, is caught inside the left tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 3 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 3. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC504-11	B	4th Tray Lift Error (Upper tray of Paper Feed Unit PB3240)* *When equipped with 1-tray paper feed unit and 2-tray paper feed unit
		• Lift motor ascent error detection During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, but the upper limit sensor is not detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 4 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 4. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC504-22	B	4th Tray Descent Error (Upper tray of Paper Feed Unit PB3240)* *When equipped with 1-tray paper feed unit and 2-tray paper feed unit
		• Lift motor descent error detection During tray initialization, the tray base plate is lowered to check the tray base plate position, but the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 4 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 4. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC504-21	B	4th Tray Lift Error (Lower tray of Paper Feed Unit PB3240)
		• Lift motor ascent error detection During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, but the upper limit sensor is not detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 4 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 4. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC504-22	B	4th Tray Descent Error (Lower tray of Paper Feed Unit PB3240)
		• Lift motor descent error detection During tray initialization, the tray base plate is lowered to check the tray base plate position, but the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 4 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 4. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC505-21	B	5th Tray Lift Error (Lower tray of Paper Feed Unit PB3240)* *When equipped with 1-tray paper feed unit and 2-tray paper feed unit
		• Lift motor ascent error detection During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, but the upper limit sensor is not detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 5 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 5. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC505-22	B	5th Tray Descent Error (Upper tray of Paper Feed Unit PB3240)* *When equipped with 1-tray paper feed unit and 2-tray paper feed unit
		• Lift motor descent error detection During tray initialization, the tray base plate is lowered to check the tray base plate position, but the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. (Up to 2 times consecutively, the tray transmits a "tray set incorrectly" to the main machine.)
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Tray control board defective • Paper overload • Foreign object, such as a paper scrap, is caught between the paper feed tray and the tray lift motor • Paper set incorrectly
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in Tray 5 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in Tray 5. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC505-41	B	Side LCIT Limit Detection Error (LCIT RT3030)
		• Upper limit detection error (during descent) During tray initialization (upper limit detection/lower limit not detected), the tray base plate is lowered to check the tray base plate position, but the upper limit sensor is detected although a predetermined time elapsed. • Upper limit detection error (during ascent) During tray initialization (upper limit not detected /lower limit detection), the tray base plate is raised to check the tray base plate position, but the upper limit sensor is not detected although a predetermined time elapsed. *If an error occurs for 3 times consecutively: the side LCIT transmits a "5th paper feed tray upper limit detection error" to the main machine. Up to 2 times consecutively, the side LCIT transmits a "tray set incorrectly" to the main machine.
		• Lift motor error/connector missing • Upper limit sensor error/connector missing • Harness broken • Tray control board defective • Paper set incorrectly • Timing belt damage/dropout • Timing pulley damage/dropout • Base plate damage/not horizontal

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Paper feed roller missing item • Pickup arm defective • Foreign object, such as a paper scrap, is caught inside the tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in the side LCIT are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in the side LCIT. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC505-42	B	Side LCIT Lower Limit Detection Error (LCIT RT3030)
		• Lower limit detection error (during descent) During tray initialization (upper limit not detected /lower limit eject detection), the tray base plate is lowered to check the tray base plate position, but the lower limit sensor is not detected although a predetermined time elapsed. Alternatively, at paper end, the tray base plate is lowered, but the lower limit sensor is not detected although a predetermined time elapsed. • Lower limit detection error (during ascent) During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, but the lower limit sensor is detected although a predetermined time elapsed. *If an error occurs for 3 times consecutively: the side LCIT transmits a "5th paper feed tray upper limit detection error" to the main machine. Up to 2 times consecutively, the side LCIT transmits a "tray set incorrectly" to the main machine.
		• Lift motor error/connector missing • Lower limit sensor error/connector missing • Harness broken • Tray control board defective • Paper set incorrectly • Timing belt damage/dropout • Timing pulley damage/dropout • Base plate damage/not horizontal • Foreign object, such as a paper scrap, is caught inside the tray

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in the side LCIT are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in the side LCIT. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC505-43	B	Side LCIT Paper Overload Error (LCIT RT3030)
		During tray initialization, both the upper limit and lower limit are detected for 3 times consecutively (up to 2 times consecutively, the side LCIT transmits a "tray set incorrectly" to the main machine).
		• Paper overload • Paper set incorrectly • Upper limit sensor error/connector missing • Lower limit sensor error/connector missing • Harness broken • Tray control board defective • Foreign object, such as a paper scrap, is caught inside the tray
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in the side LCIT are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harness in the side LCIT. Replace the harnesses if it is disconnected, or damaged. 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC508-00	B	Bypass Tray Size Detection Error
		The paper size detected on the bypass tray is different from any of the pattern of automatic size detection.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Bypass Length Sensor or Bypass Width Sensor malfunction • Bypass Length Sensor or Bypass Width Sensor harness disconnected
		1. Replace the Bypass Length Sensor, or Bypass Width Sensor. 2. Replace the harness for Bypass Length Sensor, or Bypass Width Sensor.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC520-01	C	Registration Motor: Lock
SC520-02	C	Paper feed Motor: Lock
SC520-03	C	Transport Motor: Lock
		During motor ON, after checking the motor error notification registers (err_velo and err_posi) for 500msec, the error state of either register was detected at least 5 times.
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Encoder defective
		• Replace the motor. • Reset the connector. • Replace the harness. • Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC521-01	C	Duplex Entrance Motor: Lock
SC521-02	C	Duplex By-pass Motor: Lock
		During motor ON, after checking the motor error notification registers (err_velo and err_posi) for 500msec, the error state of either register was detected at least 5 times.
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Encoder defective
		• Replace the motor.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Reset the connector. • Replace the harness. • Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC522-00	C	Paper Exit Motor: Lock
		During motor ON, after checking the motor error notification registers (err_velo and err_posi) for 500msec, the error state of either register was detected at least 5 times.
		• Motor defective • Connector disconnected • Harness broken • IOB defective • Encoder defective
		• Replace the motor. • Reset the connector. • Replace the harness. • Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC530-00	D	Fusing Exhaust Fan Lock
		In the motor ON state, the value of the lock sensor is checked every 100msec. If a lock signal is not obtained for 50 times consecutively.
		• Motor defective • Connector disconnected • Harness broken • IOB defective
		• Replace the fusing exhaust fan. • Reconnect the connector. • Replace the harness. • Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC531-01	D	Development Intake Fan/Right Lock
SC531-03	D	Drive Cooling Fan Lock

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		In the motor ON state, the value of the lock sensor is checked every 100msec. If a lock signal is not obtained for 50 times consecutively.
		• Motor defective • Connector disconnected • Harness broken • IOB defective
		• Replace the development intake fan/right for SC531-01, or drive cooling fan for SC531-03. • Reconnect the connector. • Replace the harness. • Replace the Imaging IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC533-03	D	PSU Cooling Fan Lock
SC533-04	D	Controller Box Cooling Fan Lock
		In the motor ON state, the value of the lock sensor is checked every 100msec. If a lock signal is not obtained for 50 times consecutively.
		• Motor defective • Connector disconnected • Harness broken • IOB defective
		• Replace the PSU exhaust fan for SC533-01, PSU cooling fan for SC533-04 or controller box cooling fan for SC533-04. • Reconnect the connector. • Replace the harness. • Replace the Paper Transport IOB (for SC533-01, -03). • Replace the Imaging IOB (for SC533-04).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC534-01	D	Main Exhaust Fan Lock
SC534-02	D	Toner Supply Cooling Fan Lock
SC534-03	D	Ozone Exhaust Fan Lock

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		In the motor ON state, the value of the lock sensor is checked every 100msec. If a lock signal is not obtained for 50 times consecutively.
		• Motor defective • Connector disconnected • Harness broken • IOB defective
		• Replace the development intake fan/right for SC534-01, or drive cooling fan for SC534-03. • Reconnect the connector. • Replace the harness. • Replace the Imaging IOB (SC534-01, -02). • Replace the Paper Transport IOB (for SC534-03).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC535-00	D	Paper Exit Cooling Fan Lock
		In the motor ON state, the value of the lock sensor is checked every 100msec. If a lock signal is not obtained for 50 times consecutively.
		• Motor defective • Connector disconnected • Harness broken • IOB defective
		• Replace the paper exit cooling fan. • Reconnect the connector. • Replace the harness. • Replace the Imaging IOB.

SC500 (Engine: Fusing)

Fusing Sleeve (Center) Error (SC54*-**)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC540-00	D	Fusing Motor: Lock
		Motor status is observed at 100 ms intervals during motor ON, and the unlock status is detected at least 20 times.
		• Motor defective • Connector disconnected • Harness broken • IOB defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Unit torque increased
		• Replace the fusing motor. • Reconnect the connector. • Replace the harness. • Replace the paper transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC541-01	A	Thermopile (Center) Disconnection
		Below -50 degrees C (or below CB) is detected for 0.1 sec. continuously.
		• Thermopile disconnection • Connector disconnected • Harnesses between the drawer and the PCBs on machine are disconnected. • BCU board is broken.
		1. Reconnect the connector between the fusing unit and BCU. 2. Replace the thermopile (Center). 3. Replace the harness between the fusing unit and BCU. 4. Replace the BCU.
SC541-02	A	Non-contact Thermistor (Center) Disconnection
		Above 3F6 is detected for 1 sec. continuously (NC sensor center: detection & compensation NC sensor edge: detection & compensation). Detection period: 100 ms, detection frequency: 10 times or more.
		• Non-contact thermistor disconnection • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective
		1. Reconnect the connectors (between the fusing unit and the BCU). 2. Replace the non-contact thermistor with the harness. 3. Replace the fusing unit. 4. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 5. Replace the BCU.
SC541-03	A	Non-contact Thermistor (Center) short-circuit
		AD value: Below 8 is detected for 1 sec. continuously.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Detection period: 100 ms, detection frequency: 10 times or more.
		• Non-contact thermistor short-circuit • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective
		1. Reconnect the connectors (between the fusing unit and the BCU). 2. Replace the non-contact thermistor with the harness. 3. Replace the fusing unit. 4. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC542-02	A	Thermopile (Center) does not reload
		65 degrees C not reached after fusing lamp 1 ON for 10 sec.
SC542-03	A	Thermopile (Center) does not reload
		Heating central reload permission temperature not reached after fusing lamp 1 ON for 35 sec.
SC542-05	D	Thermopile (Center) does not reload (Low Power)
		65 degrees C not reached after fusing lamp 1 ON for 10 sec.
SC542-06	D	Thermopile (Center) does not reload (Low Power)
		Heating central reload permission temperature not reached after fusing lamp 1 ON for 35 sec.
		• Outside input voltage guarantee • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • Harness disconnection inside the main machine • BCU defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Remove the jammed paper between the thermopile and fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		3. Clean or replace the thermopile (center). 4. Replace the fusing sleeve thermostat 5. Replace the fusing sleeve belt unit. 6. Reconnect or replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC543-00	A	Thermopile (Center) high temperature detection (software)
		Above 240 degrees C detected for 1 sec. continuously. Detection period 100ms, detection count: 10 times or more.
		• Fusing sleeve belt defective • Paper setting misdetection • Improper paper position in the paper feed tray • Gear abrasion • Thermopile failure • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Inspect the fusing sleeve belt unit, and replace if damaged. 2. Check the paper settings. 3. Check the paper position in the paper feed tray. 4. Reconnect the connectors (between the fusing unit and the BCU). 5. Inspect or replace the gears inside the main machine or fusing unit. 6. Replace the thermopile (center). 7. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 8. Replace the BCU. 9. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC544-01	A	Thermopile (Center) high temperature detection (hardware)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		In the event of an error
		• Fusing sleeve belt defective • Paper setting misdetection • Improper paper position in the paper feed tray • Gear abrasion • Pressure roller HP sensor disconnected • Thermopile failure • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Inspect the fusing sleeve belt unit, and replace if damaged. 2. Check the paper settings. 3. Check the paper position in the paper feed tray. 4. Reconnect the connectors (between the fusing unit and the BCU). 5. Inspect or replace the gears inside the main machine or fusing unit. 6. Inspect the pressure roller HP sensor with SP5-803-047. 7. Replace the thermopile (center). 8. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 9. Replace the BCU. 10. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC544-02	A	Non-contact Thermistor (Center) high temperature detection (hardware)
		In the event of an error
		• Fusing sleeve belt defective • Paper setting misdetection • Improper paper position in the paper feed tray • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Pressure roller HP sensor disconnected • Harness disconnection inside the main machine • Triac defective (short-circuit)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• BCU failure • AC controller board failure
		1. Inspect the fusing sleeve belt unit, and replace if damaged. 2. Check the paper settings. 3. Check the paper position in the paper feed tray. 4. Reconnect the connectors (between the fusing unit and the BCU). 5. Remove the jammed paper between the thermopile and fusing unit. 6. Clean or replace the thermopile (center). 7. Replace the fusing unit. 8. Inspect the pressure roller HP sensor with SP5-803-047. 9. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 10. Replace the BCU. 11. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC545-01	A	Fusing Central Lamp Continuously Heat
SC545-05	D	Fusing Central Lamp Continuously Heat (Low Power)
		After waiting for full power for more than 5 sec. continuously. • Definition of fusing lamp full power Continuously heating rate set point (maximum heating rate) • Measurement start point After reload (after fusing lamp extinguished, after rotation complete) below the standby temperature (target temperature), measurement starts after a fusing lamp heat-up request is issued. • Measurement stop condition Rotation started due to a print signal during measurement or other. • Maximum heat-up Duty (SP interlinked value) 0% is excluded.
		• Outside input voltage guarantee • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • BCU defective • AC controller board defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Remove the jammed paper between the thermopile and fusing unit. 3. Clean or replace the thermopile (center). 4. Replace the fusing sleeve thermostat. 5. Replace the fusing sleeve belt unit. 6. Reconnect or replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC547-01	D	Zero cross error (relay-contact soldering)
		Zero-cross signal is detected while the fusing relay is OFF.
		• Fusing relay defective (contact soldering) • Fusing relay drive circuit error
		1. Reconnect the connectors between PSU (AC Controller Board) and Paper Transport IOB. 2. Replace the PSU (AC Controller Board). 3. Replace the Paper Transport IOB.
SC547-02	D	Zero cross error (relay contact error)
		Zero-cross signal is not detected while the fusing relay is ON.
		• Fusing relay damage (contact open) • Fusing relay drive circuit error • PSU fuse (24VS) blowout
		1. Reconnect the connectors between PSU (AC Controller Board) and Paper Transport IOB. 2. Replace the PSU (AC Controller Board). 3. Replace the Paper Transport IOB. 4. Replace the harness between PSU (AC Controller Board) and Paper Transport IOB.
SC547-03	D	Zero cross error (low-frequency error)
		Mains power supply frequency is determined to be 44 Hz or lower.
		Frequency instability of mains power supply
		1. Check that the mains power supply frequency is higher than 44 Hz. If it is equal to or lower than 44 Hz, the mains power supply infrastructure may have defects to be dealt

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		with. 2. Replace the PSU (AC Controller Board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC549-02	D	Fusing Shield Operation Error
		In normal fusing shield operation, the fusing shield motor does not stop even if 2 sec. elapsed from rotation start.
SC549-03	D	Fusing Shield Operation Error
		In normal fusing shield operation, the fusing shield motor does not stop even if 2 sec. elapsed from rotation start.
SC549-04	D	Fusing Shield Operation Error
		During HP detection operation, the shield sensors detect "High" for 2 sec. continuously.
SC549-05	C	Fusing Shield Operation Error
		When the fusing shield motor has stopped, if the feeler is at "High", it is reported by an SC code. However, this excludes cases whereby the fusing shield plate is HP or the pulse at the stop position is less than 100.
		• Fusing shield position sensor unfastened • Fusing shield position sensor disconnected • Fusing shield drive motor disconnected • Fusing unit defective
		Inspect the fusing shield position sensor with SP5-803-097. If there is no response from the sensor, perform steps 1 and 2. 1. Reattach the fusing shield position sensor. 2. Check the connection of the fusing shield position sensor. 3. Check the connection of the fusing shield driver motor. 4. Replace the fusing unit. Also, refer to When SC549 (Shield Operation Error Detection) is Displayed

Fusing Sleeve (Edge) Error (SC55*-**)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC551-01	A	Thermopile (Edge) Disconnection
		Below -50 degrees C (or below CB) is detected for 0.1sec. continuously.
		• Thermopile disconnection

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Connector disconnected • Harness disconnection inside the main machine • BCU defective
		1. Reconnect the connectors (main machine side, BCU side). 2. Replace the thermopile (edge). 3. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 4. Replace the BCU.
SC551-02	A	Non-contact Thermistor (Edge) Disconnection
		Above 3F6B is detected for 1 sec. continuously (NC sensor center: detection & compensation NC sensor edge: detection & compensation). Detection period: 100 ms, detection frequency: 10 times or more.
		• Non-contact thermistor disconnection • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective
		1. Reconnect the connectors (between the fusing unit and the BCU). 2. Replace the non-contact thermistor with the harness. 3. Replace the fusing unit. 4. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 5. Replace the BCU.
SC551-03	A	Non-contact Thermistor (Edge) Short-circuit
		AD value: Below 8 is detected for 1 sec. continuously. Detection period: 100 ms, detection frequency: 10 times or more.
		• Non-contact thermistor disconnection • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective
		1. Reconnect the connectors (between the fusing unit and the BCU). 2. Replace the non-contact thermistor with the harness. 3. Replace the fusing unit. 4. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC552-02	A	Thermopile (Edge) Does Not Reload
		65 degrees C not reached after fusing lamp 1 ON for 14 sec..
SC552-03	A	Thermopile (Edge) Does Not Reload
		Heating edge reload permission temperature not reached after fusing lamp 1 ON for 28 sec..
SC552-05	D	Thermopile (Edge) Does Not Reload (Low Power)
		65 degrees C not reached after fusing lamp 1 ON for 14 sec..
SC552-06	D	Thermopile (Edge) Does Not Reload (Low Power)
		Heating edge reload permission temperature not reached after fusing lamp 1 ON for 28 sec..
		• Outside input voltage guarantee • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • Harness disconnection inside the main machine • BCU defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Remove the jammed paper between the thermopile and fusing unit. 3. Clean or replace the thermopile (edge). 4. Replace the fusing sleeve thermostat 5. Replace the fusing sleeve belt unit. 6. Reconnect or replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC553-00	A	Thermopile (Edge) High Temperature Detection (software)
		240 degrees C detected for 1 sec. continuously. Detection period: 100ms, detection count: 10 times or more.
		• Fusing sleeve belt defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Gear abrasion • Thermopile failure • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Inspect the fusing sleeve belt unit, and replace if damaged. 2. Check the paper settings. 3. Check the paper position in the paper feed tray. 4. Reconnect the connectors (between the fusing unit and the BCU). 5. Inspect or replace the gears inside the main machine or fusing unit. 6. Replace the thermopile (edge). 7. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 8. Replace the BCU. 9. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC554-01	A	Thermopile (Edge) high temperature detection (hardware)
		In the event of an error
		• Fusing sleeve belt defective • Paper setting misdetection • Incorrect paper position in the paper feed tray • Gear abrasion • Pressure roller HP sensor disconnected • Thermopile failure • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Inspect the fusing sleeve belt unit, and replace if damaged. 2. Check the paper settings. 3. Check the paper position in the paper feed tray. 4. Reconnect the connectors (between the fusing unit and the BCU).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		5. Inspect or replace the gears inside the main machine or fusing unit. 6. Inspect the pressure roller HP sensor with SP5-803-047. 7. Replace the thermopile (edge). 8. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 9. Replace the BCU. 10. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC554-02	A	Non-contact Thermistor (Edge) high temperature detection (hardware)
		In the event of an error
		• Fusing sleeve belt defective • Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Pressure roller HP sensor disconnected • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Inspect the fusing sleeve belt unit, and replace if damaged. 2. Check the paper settings. 3. Check the paper position in the paper feed tray. 4. Reconnect the connectors (between the fusing unit and the BCU). 5. Remove the jammed paper between the thermopile and fusing unit. 6. Clean or replace the thermopile (edge). 7. Replace the fusing unit. 8. Inspect the pressure roller HP sensor with SP5-803-047. 9. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 10. Replace the BCU. 11. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC555-01	A	Fusing Edge Lamp Continuously Heat
SC555-05	D	Fusing Edge Lamp Continuously Heat (Low Power)
		After waiting for full power for more than 5 sec. continuously. • Definition of fusing lamp full power Continuously heating rate set point (maximum heating rate) • Measurement start point After reload (after fusing lamp extinguished, after rotation complete) below the standby temperature (target temperature), measurement starts after a fusing lamp heat-up request is issued. • Measurement stop condition Rotation started due to a print signal during measurement or other • Maximum heat-up Duty (SP interlinked value) 0% is excluded
		• Outside input voltage guarantee • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • BCU defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Remove the jammed paper between the thermopile and fusing unit. 3. Clean or replace the thermopile (edge). 4. Replace the fusing sleeve thermostat. 5. Replace the fusing sleeve belt unit. 6. Reconnect or replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC557-00	C	Zero Cross Frequency Exceeded
		In the event of an error
		Frequency instability of mains power supply /Noise
		-

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC558-01	C	Low Input Voltage
		Input voltage below the specification is detected on the mains power supply
		Low input of mains power supply
		-

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC559-00	A	Fusing Jam Detected for 3 Times Consecutively
		Fusing jam (does not reach fusing exit sensor) is detected for 3 times consecutively. • Detection conditions Displays the SC559-00 at the time of integrating the counter each time fusing jam occurs, became fusing jam counter value = 3. The counter value is retained without fusing jam also reset by OFF/ON the power supply. • Control ON/OFF And enables ON / OFF is this SC, the default is set to OFF, then ON at the time of customer requirements. SP1-142-001 0: OFF (default), 1: ON (Set at the time of customer requirements) • Counter reset condition occurs fusing jam 1. Normal paper exit has been done during this continuous fusing jam, fusing jam counter is reset. 2. When "1" is changed to "0" SP1-142-001, to reset the (SP9-912-001) fusing jam counter. 3. When after displaying SC559, SC release is made, reset the (SP9912-001) fusing jam counter.
		• Stripper plate not mounted properly • Gear abrasion • Fusing motor failure
		1. Inspect or replace the stripper plate. 2. Replace the gears inside the main machine or fusing unit. 3. Replace the fusing motor. 4. Replace the fusing unit.

Pressure Roller Thermistor (Center) Error (SC56*-**)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC561-01	A	Pressure Roller Thermistor (Center) Disconnection
SC561-	D	Pressure Roller Thermistor (Center) Disconnection (Low Power)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
05		
		Below 0 degree C is detected for 20 sec. continuously. Detection period: 100 ms, detection frequency: 10 times or more.
		• Non-contact thermistor disconnection • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective • Fusing lamp defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. (-05 only) 2. Reconnect the connectors (between the fusing unit and the BCU). 3. Replace the thermistor. 4. Replace the fusing unit. 5. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board).. 6. Replace the BCU. 7. Replace the fusing sleeve belt unit. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC562-02	A	Pressure Roller Thermistor (Center) Does Not Reload
		Does not reach 40 degree C after fusing lamp 1ON for 12 sec.
SC562-05	D	Pressure Roller Thermistor (Center) Does Not Reload (Low Power)
		-
		• Outside input voltage guarantee • Thermistor dirt • Thermistor deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • Harness disconnection inside the main machine • Thermopile defective • BCU defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Clean or replace the thermistor.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		3. Replace the fusing sleeve thermostat. 4. Replace the fusing sleeve belt unit. 5. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 6. Replace the thermopile (center). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC563-00	A	Pressure Roller Thermistor (Center) High Temperature Detection (software)
		Above 230 degrees C detected for 1sec. continuously. Detection period: 100ms, detection count: 10 times or more.
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the center thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Check the paper settings. 2. Check the paper position in the paper feed tray. 3. Reconnect the connectors (between the fusing unit and the BCU). 4. Remove the jammed paper between the center thermopile and fusing unit. 5. Clean or replace the thermopile (center). 6. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC564-00	A	Pressure Roller Thermistor (Center) High Temperature Detection (hardware)
		Above 240 degrees C detected

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the center thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Pressure roller HP sensor disconnected • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Check the paper settings. 2. Check the paper position in the paper feed tray. 3. Reconnect the connectors (between the fusing unit and the BCU). 4. Remove the jammed paper between the center thermopile and fusing unit. 5. Clean or replace the thermopile (center). 6. Inspect the pressure roller HP sensor with SP5-803-047. 7. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 8. Replace the BCU. 9. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC569-00	D	Paper Exit/ Pressure Release Motor Error Detection
		Retry operation fails 3 times consecutively.
		• Pressure roller HP sensor disconnected • Pressure release encoder deformed • Fusing unit defective • Paper exit/ pressure release motor disconnected
		Inspect the pressure roller HP sensor with SP5-803-047. If there is no response from the sensor, perform steps 1 and 2. 1. Check the connection of the pressure roller HP sensor. 2. Inspect the pressure roller HP sensor. 3. Inspect the pressure release encoder. 4. Replace the fusing unit. 5. Check the connectors of the paper exit/ pressure release motor.

Pressure Roller Thermistor (Edge) Error (SC57*-**)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC571-01	A	Pressure Roller Thermistor (Edge) Disconnection
SC571-05	D	Pressure Roller Thermistor (Edge) Disconnection (Low Power)
		Below 0 degree C detected for 40 sec. continuously. Detection period: 100 ms, detection counts: 10 times or more.
		• Thermistor disconnection • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective • Fusing lamp defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. (-05 only) 2. Reconnect the connectors (between the fusing unit and the BCU). 3. Replace the thermistor. 4. Replace the fusing unit. 5. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 6. Replace the BCU. 7. Replace the fusing sleeve belt unit. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC572-04	A	Pressure Roller Thermistor (Edge) Does Not Reload
SC572-05	D	Pressure Roller Thermistor (Edge) Does Not Reload (Low Power)
		After starting continuous job with paper width of 257mm or more, does not reach 0 degrees C after 100 sec.
		• Outside input voltage guarantee • Thermistor dirt • Thermistor deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • Harness disconnection inside the main machine

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Thermopile defective • BCU defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Clean or replace the thermistor. 3. Replace the fusing sleeve thermostat. 4. Replace the fusing sleeve belt unit. 5. Reconnect or replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 6. Replace the thermopile (edge). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC573-00	A	Pressure Roller Thermistor (Edge) High Temperature Detection (software)
		Above 230 degrees C detected for 1 sec. continuously. Detection period: 100ms, detection count: 10 times or more.
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Check the paper settings. 2. Check the paper position in the paper feed tray. 3. Reconnect the connectors (between the fusing unit and the BCU). 4. Remove the jammed paper between the thermopile and fusing unit. 5. Clean or replace the thermopile (edge). 6. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC574-00	A	Pressure Roller Thermistor (edge) High Temperature Detection (hardware)
		Above 240 degrees C detected
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Pressure roller HP sensor disconnected • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Check the paper settings. 2. Check the paper position in the paper feed tray. 3. Reconnect the connector. 4. Remove the jammed paper between the thermopile and fusing unit. 5. Clean or replace the thermopile (edge). 6. Inspect the pressure roller HP sensor with SP5-803-047. 7. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 8. Replace the BCU. 9. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

Pressure Roller Thermistor (Full-Bleed Edge) Error (SC58*-**)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC581-01	A	Pressure Roller Thermistor (Full-Bleed Edge) Thermistor Disconnection
SC581-05	D	Pressure Roller Thermistor (Full-Bleed Edge) Disconnection (Low Power)
		Below 0 degree C detected for 40 sec. continuously. Detection period: 100ms, detection count: 10 times or more.
		• Thermistor disconnection • Connector disconnected • Harness disconnection in the fusing unit • Harness disconnection inside the main machine • BCU defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Fusing lamp defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. (-05 only) 2. Reconnect the connectors (between the fusing unit and the BCU). 3. Replace the thermistor. 4. Replace the fusing unit. 5. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 6. Replace the BCU. 7. Replace the fusing sleeve belt unit. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC582-04	A	Pressure Roller Thermistor (Full-Bleed Edge) Does Not Reload
SC582-05	D	Pressure Roller Thermistor (Full-Bleed Edge) Does Not Reload (Low Power)
		After starting continuous job with paper width of 257mm or more, does not reach 40 degrees C after 100 sec.
		• Outside input voltage guarantee • Thermistor dirt • Thermistor deformed or not installed (or mounted) properly • After excessive temperature rise prevention unit operation • Fusing lamp disconnection • Harness disconnection inside the main machine • Thermopile defective • BCU defective • AC controller board defective
		1. Check the power supply voltage and reconnect the cable to the outlet. 2. Clean or replace the thermistor. 3. Replace the fusing sleeve thermostat. 4. Replace the fusing sleeve belt unit. 5. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 6. Replace the thermopile (edge). 7. Replace the BCU. 8. Replace the PSU (AC controller board).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC583-00	A	Pressure Roller Thermistor (Full-Bleed Edge) High Temperature Detection (software)
		Above 230 degrees C detected for 1 sec. continuously. Detection period: 100ms, detection count: 10 times or more.
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Check the paper settings. 2. Check the paper position in the paper feed tray. 3. Reconnect the connectors (between the fusing unit and the BCU). 4. Remove the jammed paper between the thermopile and fusing unit. 5. Clean or replace the thermopile (edge). 6. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 7. Replace the BCU. 8. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC584-00	A	Pressure Roller Thermistor (Full-Bleed Edge) High Temperature Detection (hardware)
		Above 240 degrees C detected
		• Paper setting misdetection • Incorrect paper position in the paper feed tray • Jammed paper between the thermopile and fusing unit • Thermopile lens dirt • Thermopile deformed or not installed (or mounted) properly • Pressure roller HP sensor disconnected • Harness disconnection inside the main machine • Triac defective (short-circuit) • BCU failure • AC controller board failure
		1. Check the paper settings.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		2. Check the paper position in the paper feed tray. 3. Reconnect the connectors (between the fusing unit and the BCU). 4. Remove the jammed paper between the thermopile and fusing unit. 5. Clean or replace the thermopile (edge). 6. Inspect the pressure roller HP sensor with SP5-803-047. 7. Replace the harness between the fusing unit and the BCU or the PSU (AC controller board). 8. Replace the BCU. 9. Replace the PSU (AC controller board). If the problem cannot be solved after performing the above steps, replace the fusing unit.

Service Call 620-689

SC600 (Engine: Communication and Others)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC621-01	D	Finisher communication error
SC621-02	D	Mailbox communication error
		• When the communication line has opened and the machine is in a normal communication state, it has received a break signal from a connected device. • There is not any response within 100 ms after the data frame transmission, and retries have failed with timeout error for 3 times in a row. • When changing the baud rate after program downloading starts, the machine has failed to detect the break signal of the finisher or has failed to detect that the break has been cleared.
		• Connection error between finisher and main machine. • The finisher-related firmware is not installed properly. • The engine firmware is not installed properly. • Finisher control board defective. • BCU, or IOB defective • Communication error caused by electrostatic noise
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in the finisher/mailbox are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Update the firmware to the latest version. 3. Check all harnesses in the mailbox or finisher. Replace any harness that is damaged. 4. Replace the BCU, or IOB. 5. Replace the controller board of the finisher or the mailbox.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC622-01	D	Paper tray 1 communication error for Paper Feed Unit PB3250
SC622-11	D	Paper tray 1 communication error for Paper Feed Unit PB3240
SC622-12	D	Paper tray 1 communication error for Paper Feed Unit PB3240
SC622-	D	Paper tray 1 communication error for LCIT PB3260

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
31		
		• Detected an error when connecting the communication line. • Received a communication error notification from the URAT.
		• Paper tray control board defective • BCU defective • IOB defective • Paper tray-main machine connection error
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in tray 1, 2, and the optional paper tray are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harnesses in tray 1, 2, and the optional paper tray. Replace any harness that is damaged. 3. Check if there are any signs of a short circuit on the Paper Tray Main Board. If there are any defects, replace the board.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC623-00	D	Paper tray 2 communication error
		During superposition of 1-tray PFU - 2-tray PFU, 2-tray PFU - side LCIT, and LCIT - side LCIT, 1. When the upper tray side recognizes the lower tray, the break of the lower tray is not canceled within the specified time (ms.). 2. After the upper tray side recognizes the lower tray, there is no ACK within the specified time (ms.) after transmission of a data frame to the lower tray, and a timeout error occurs for 3 times consecutively even if retransmission is performed
		• Tray control board error • Connector disconnected
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in the Paper Feed Unit PB3160 or LCIT PB3170/PB3230 are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harnesses in the Paper Feed Unit PB3160 or LCIT PB3170/PB3230. Replace any harness that is damaged. 3. Check if there are any signs of a short circuit on Paper Transport IOB, or side LCIT. If there are any defects, replace the board.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC663-01	D	Reset Detection: Imaging IOB: Software hang-up occurs
SC663-02	D	Reset Detection: Imaging IOB: Power ON reset occurs
SC663-03	D	Reset Detection: Imaging IOB: Software reset occurs
SC663-11	D	Reset Detection: Paper Transport IOB: Software hang-up occurs
SC663-12	D	Reset Detection: Paper Transport IOB: Power ON reset occurs
SC663-13	D	Reset Detection: Paper Transport IOB: Software reset occurs
		SC is displayed when unexpected reset from Imaging IOB/Paper Transport IOB is detected while standby/operation.
		• Unexpected noise from inside the machine gets into Paper Transport IOB. • Parts defect and implementation defect of Imaging IOB/ Paper Transport IOB. • Software ran reset to ASIC when there was a bug in the software or unexpected signal was input (-03/-13 only).
		1. Turn the main power OFF/ON. 2. Replace the Paper Transport IOB (-01 to -03) 3. Replace the Imaging IOB (-11 to -13)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC664-01	D	VODKA1 (Paper Transport Vodka) access permission error to VODKA SRAM
SC664-02	D	VODKA1 (Paper Transport Vodka) write error to VODKA SRAM
SC664-03	D	VODKA1 (Paper Transport Vodka) VODKA program launch error
SC664-11	D	VODKA2 (Imaging Vodka) access permission error to VODKA SRAM
SC664-12	D	VODKA2 (Imaging Vodka) write error to VODKA SRAM
SC664-13	D	VODKA2 (Imaging Vodka) VODKA program launch error
		The machine detects the communication error between VODKA and SRAM when starting up, or recovery from energy saver mode.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		The following board defects (Parts implementation defect, solder scrap, implemented parts defect, etc.): • BCU • Imaging IOB • Paper Transport IOB
		-01 to 03 1. Turn the main power OFF/ON. 2. Replace the Paper Transport IOB. 3. Replace the BCU. 4. Replace the Imaging IOB. **-11 to 13** 1. Turn the main power OFF/ON. 2. Replace the Imaging IOB. 3. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-01	D	Connection Error (BCU - IPU)
		The machine detects the communication error between BCU and IPU (No FFC connection) when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • BCU
		  • IPU

		1. Reconnect the FFC between BCU and IPU. 2. Replace the FFC between BCU and IPU. 3. Replace the BCU. 4. Replace the IPU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-02	D	Connection Error (BCU – Imaging IOB)
		The machine detects the communication error between BCU and Imaging IOB (No connection) when starting up, or recovery from energy saver mode.
		• FFC connection error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution

		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • BCU
		  • Imaging IOB

		1. Reconnect the FFC between BCU and Imaging IOB. 2. Replace the FFC between BCU and Imaging IOB. 3. Replace the BCU. 4. Replace the Imaging IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-03	D	Connection Error (Paper Transport IOB – Imaging IOB)
		The machine detects the communication error between Imaging IOB and Paper Transport IOB (No connection) when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • Paper Transport IOB.
		  • Imaging IOB.

		1. Reconnect the FFC between Paper Transport IOB and Imaging IOB. 2. Replace the FFC between Paper Transport IOB and Imaging IOB. 3. Replace the Imaging IOB. 4. Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-04	D	IOB does not start up
		The IOB does not start up when starting up, or recovery from energy saver mode.

		• Connector disconnected
		• Harness disconnected
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.)
		  • BCU
		  • Imaging IOB
		  • Paper Transport IOB

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		1. Turn the main power OFF/ON. 2. Reconnect the following FFC: • BCU - Imaging IOB • Imaging IOB - Paper Transport IOB 3. Replace the following FFC: • BCU - Imaging IOB • Imaging IOB - Paper Transport IOB 4. Replace the BCU. 5. Replace the Imaging IOB. 6. Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-05	D	Master Device Communication Error
		The machine detects the communication error between CPU and Slave1 when starting up, or recovery from energy saver mode.
		• FFC connection error • FFC defective (disconnected, foreign object, etc.) • One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • IPU • Imaging IOB • Paper Transport IOB.
		1. Turn the main power OFF/ON. 2. Reconnect the following FFC: • BCU - Imaging IOB • Imaging IOB - Paper Transport IOB 3. Replace the following FFC: • BCU - Imaging IOB • Imaging IOB - Paper Transport IOB 4. Replace the BCU. 5. Replace the Imaging IOB. 6. Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-06	D	IPU and IOB signal Communication Error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		The machine detects the communication error between CPU and Slave1 when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • BCU
		  • IPU
		  • Imaging IOB
		  • Paper Transport IOB.

		1. Turn the main power OFF/ON.
		2. Reconnect the following FFC:
		  • BCU - Imaging IOB
		  • Imaging IOB - Paper Transport IOB
		3. Replace the following FFC:
		  • BCU - Imaging IOB
		  • Imaging IOB - Paper Transport IOB
		4. Replace the BCU.
		5. Replace the IPU.
		6. Replace the Imaging IOB.
		7. Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-07	D	IPU signal Communication Error
		The machine detects the communication error between CPU and Slave device when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• The following board defects (Parts implementation defect, solder scrap, implemented parts defect, etc.):
		  • BCU
		  • IPU

		1. Turn the main power OFF/ON.
		2. Reconnect the following FFC:
		  • BCU - Imaging IOB
		  • Imaging IOB - Paper Transport IOB
		3. Replace the following FFC:

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• BCU - Imaging IOB • Imaging IOB - Paper Transport IOB 4. Replace the BCU. 5. Replace the IPU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-08	D	IOB signal Communication Error
		The machine detects the communication error between CPU and Slave1 when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • BCU
		  • Imaging IOB
		  • Paper Transport IOB.

		1. Turn the main power OFF/ON.
		2. Reconnect the following FFC:
		  • BCU - Imaging IOB
		  • Imaging IOB - Paper Transport IOB
		3. Replace the following FFC:
		  • BCU - Imaging IOB
		  • Imaging IOB - Paper Transport IOB
		4. Replace the BCU.
		5. Replace the Imaging IOB.
		6. Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-11	D	Vodka1 Communication Error
		The machine detects the communication error between CPU and Vodka1 when starting up, or recovery from energy saver mode.
		• FFC connection error • FFC defective (disconnected, foreign object, etc.) • One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Paper Transport IOB.
		1. Turn the main power OFF/ON. 2. Reconnect the FFC between Imaging IOB and Paper Transport IOB. 3. Replace the harness between Imaging IOB and Paper Transport IOB. 4. Replace the Imaging IOB. 5. Replace the Paper Transport IOB. 6. Reconnect the FFC between BCU and Imaging IOB. 7. Replace the FFC between BCU and Imaging IOB 8. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-12	D	Vodka2 Communication Error
		The machine detects the communication error between CPU and Vodka2 when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • BCU
		  • Imaging IOB.

		1. Turn the main power OFF/ON. 2. Reconnect the FFC between BCU and Imaging IOB. 3. Replace the FFC between BCU and Imaging IOB 4. Replace the BCU. 5. Replace the Imaging IOB. 6. Pull out all the toner bottles one by one and check if the SC reoccurs or not. If the SC message disappears, replace the defective toner bottle.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-41	D	Macaron1 Communication Error
		The machine detects the communication error between CPU and Macaron1 when starting up, or recovery from energy saver mode.
		• FFC connection error • FFC defective (disconnected, foreign object, etc.) • One or more of the following boards may be defective (incorrect or defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		components, scraps of solder, etc.): • BCU • IPU
		1. Turn the main power OFF/ON. 2. Replace the IPU. 3. Reconnect the FFC between BCU and IPU. 4. Replace the FFC between BCU and IPU. 5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC665-42	D	Macaron2 Communication Error
		The machine detects the communication error between CPU and Macaron2 when starting up, or recovery from energy saver mode.

		• FFC connection error
		• FFC defective (disconnected, foreign object, etc.)
		• One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.):
		  • BCU
		  • IPU

		1. Turn the main power OFF/ON. 2. Replace the IPU. 3. Reconnect the FFC between BCU and IPU. 4. Replace the FFC between BCU and IPU. 5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC667-01	D	Master Device Mode Setting Error
		The machine detects the CPU mode error when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU
		1. Turn the main power OFF/ON. 2. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC667-10	D	Slave1 Device Mode Setting Error
		The machine detects the Slave1 mode error when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • Paper Transport IOB
		1. Turn the main power OFF/ON. 2. Replace the Paper Transport IOB. 3. Reconnect the FFC between Imaging IOB and Paper Transport IOB. 4. Replace the harness between Imaging IOB and Paper Transport IOB. 5. Replace the Imaging IOB. 6. Reconnect the harness between BCU and Imaging IOB. 7. Replace the harness between BCU and Imaging IOB. 8. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC667-11	D	Slave2 Device Mode Setting Error
		The machine detects the Slave2 mode error when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • Paper Transport IOB
		1. Turn the main power OFF/ON. 2. Replace the Imaging IOB. 3. Reconnect the harness between BCU and Imaging IOB. 4. Replace the harness between BCU and Imaging IOB. 5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC667-40	D	Macaron1 Mode Setting Error
		The machine detects the Macaron1 mode error when starting up, or recovery from energy saver mode.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • IPU
		1. Turn the main power OFF/ON. 2. Replace the IPU. 3. Reconnect the harness between BCU and IPU. 4. Replace the harness between BCU and IPU. 5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC667-41	D	Macaron2 Mode Setting Error
		The machine detects the Macaron2 mode error when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • IPU
		1. Turn the main power OFF/ON. 2. Replace the IPU. 3. Reconnect the harness between BCU and IPU. 4. Replace the harness between BCU and IPU. 5. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC668-01	D	Vodka1 Version Setting Error
		The machine detects the version settings error in Vodka1 when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • Paper Transport IOB
		1. Turn the main power OFF/ON. 2. Replace the Paper Transport IOB. 3. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC668-02	D	Vodka2 Version Setting Error
		The machine detects the version settings error in Vodka2 when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • Imaging IOB
		1. Turn the main power OFF/ON. 2. Replace the Imaging IOB. 3. Replace the BCU.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC668-03	D	Vodka1,2 Version Setting Error
		The machine detects the version settings error in both Vodka 1 and Vodka2 when starting up, or recovery from energy saver mode.
		One or more of the following boards may be defective (incorrect or defective components, scraps of solder, etc.): • BCU • Imaging IOB • Paper Transport IOB
		1. Turn the main power OFF/ON. 2. Replace the BCU. 3. Replace the Imaging IOB. 4. Replace the Paper Transport IOB.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC669		EEPROM Communication Error
SC669-01	D	EEPROM OPEN: ID error
SC669-02	D	EEPROM OPEN: Channel error
SC669-03	D	EEPROM OPEN: Device error
SC669-04	D	EEPROM OPEN: Communication abort error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC669-05	D	EEPROM OPEN: Communication timeout error
SC669-06	D	EEPROM OPEN: Operation stopped error
SC669-07	D	EEPROM OPEN: Buffer full
SC669-08	D	EEPROM OPEN: No error code
SC669-09	D	EEPROM CLOSE: ID error
SC669-10	D	EEPROM CLOSE: No error code
SC669-11	D	EEPROM Data write: ID error
SC669-12	D	EEPROM Data write: Channel error
SC669-13	D	EEPROM Data write: Device error
SC669-14	D	EEPROM Data write: Communication abort error
SC669-15	D	EEPROM Data write: Communication timeout error
SC669-16	D	EEPROM Data write: Operation stopped error
SC669-17	D	EEPROM Data write: Buffer full
SC669-18	D	EEPROM Data write: No error code
SC669-19	D	EEPROM Data read: ID error
SC669-20	D	EEPROM Data read: Channel error
SC669-21	D	EEPROM Data read: Device error
SC669-22	D	EEPROM Data read: Communication abort error
SC669-	D	EEPROM Data read: Communication timeout error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
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SC669-24	D	EEPROM Data read: Operation stopped error
SC669-25	D	EEPROM Data read: Buffer full
SC669-26	D	EEPROM Data read: No error code
SC669-36	D	Verification error
SC669-37	D	Error Detection
		The TD sensor cannot be recovered after retrying **N*1** times for EEPROM communication error. (*1 SC669-01 to 26: 3, SC669-36: 2, SC669-37: 1)
		• Electrical noise • EEPROM not connected fully • EEPROM not installed • EEPROM damaged • BCU damaged
		1. Turn the main power OFF/ON. 2. Reconnect the EEPROM. 3. Replace the EEPROM. 4. Replace the BCU.

No.	Type	Error Name/Error Condition/Major Cause/Solution
681-**	D	Toner bottle: ID Chip Communication error
		When error notification was received during communication with the tag and operation is not resumed after **N*1** retries. *1 See the detailed table below.
		• Corrupted ID data • Disconnected ID chip • No ID chip • Noise
		Turn the main power off, and then do the following. 1. Clean ID chip connections inside the toner bottle, and check if any of the ID Chip Contact Board connector pins have snapped. If there are any snapped pins, do step 5.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		2. Replace the toner bottle. 3. Reconnect the connectors between Imaging IOB and ID chip contact board. 4. Reconnect the FFC between Imaging IOB and BCU. 5. Replace the ID chip contact board. 6. Reconnect the harness between Imaging IOB and ID chip contact board. 7. Replace the FFC between Imaging IOB and BCU. 8. Replace the Imaging IOB. 9. Replace the BCU.

SC681 Details

No.	Detail	Causes	Retry
01 - 04	Invalid device ID	Noise, Incorrect connection, Malfunction	3
06 - 09	Channel error	Noise, Incorrect connection, Malfunction	3
11 - 14	Device Error	Noise, Incorrect connection	3
16 - 19	Communication error (interrupted)	Noise, Incorrect connection	3
21 - 24	Communication timeout	Noise, Incorrect connection, Malfunction	3
26 - 29	Device stops (logically)	Noise, Incorrect connection, Malfunction	3
31 - 34	Full of buffer (request)	Noise, Incorrect connection, Malfunction	3
36 - 39	Verification error	Noise, Incorrect connection	2

Note

- **If the last digit of the SC's branch number (-**) is:**

  1 or 6, then do the above steps for K

  2 or 7, then do the above steps for M

  3 or 8, then do the above steps for C

  4 or 9, then do the above steps for Y

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC682-**	D	TD sensor communication error
		TD sensor cannot be recovered after retrying **N*1** times for an ID chip communication error. *1 See the detailed table below.
		• Corrupted ID data • Disconnected ID chip • No ID chip • Noise
		Turn the main power off, and then do the following. 1. Reconnect the connectors between Imaging IOB and TD sensor. 2. Reconnect the FFC between Imaging IOB and BCU.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		3. Replace the PCDU. 4. Reconnect the harness between Imaging IOB and TD sensor. 5. Replace the FFC between Imaging IOB and BCU. 6. Replace the Imaging IOB. 7. Replace the BCU. Note • **If the last digit of the SC's branch number (-**) is:** 1 or 6, then do the above steps for K 2 or 7, then do the above steps for M 3 or 8, then do the above steps for C 4 or 9, then do the above steps for Y

SC682 Details

No.	Description	Cause	Retry
01 - 04	Invalid device ID	Noise, Incorrect connection, Malfunction	3
06 - 09	Channel error	Noise, Incorrect connection, Malfunction	3
11 - 14	Device Error	Noise, Incorrect connection	3
16 - 19	Communication error (interrupted)	Noise, Incorrect connection	3
21 - 24	Communication timeout	Noise, Incorrect connection, Malfunction	3
26 - 29	Device stops (logically)	Noise, Incorrect connection, Malfunction	3
31 - 34	Full of buffer (request)	Noise, Incorrect connection, Malfunction	3
36 - 39	Verification error	Noise, Incorrect connection	2

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC687-00	D	PER Not Received Error
		Unable to receive the PER command from the controller.
		Communication error
		Replace the BCU.

SC600 (Controller)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC632-00	D	Counter device error 1
		After 3 attempts to send a data frame to the optional counter device via the serial communication line, no ACK signal was received within 100 ms.
		Serial line between the optional counter device, the relay board and copier control board is

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		disconnected or damaged.
		• Turn the main power off/on. • Check the serial communication line.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC633-00	D	Counter device error 2
		After communication was established, the controller received the brake signal from the accounting device.
		Serial line between the optional counter device, the relay board and copier control board is disconnected or damaged.
		• Turn the main power off/on. • Check the serial communication line.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC634-00	D	Counter device error 3
		A backup RAM error was returned by the counter device.
		Counter device control board or the backup battery of counter device defective
		• Replace the counter device control board. • Replace the backup battery.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC635-00	D	Counter device error 4
		A backup battery error was returned by the counter device.
		Counter device control board or the backup battery of counter device defective
		• Replace the counter device control board. • Replace the backup battery.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC636-01	D	IC Card Error (Expanded authentication module error)
		Issued when expanded authentication management is set to "ON" but either of the following occur. • There is no expanded authentication module in the machine. • The SD card or the file of the expanded authentication module is broken. • There is no DESS module in the machine.
		• There is no DESS module in the machine (models on which the function is optional).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• There is no expanded authentication module in the machine. • The SD card or the file of the expanded authentication module is broken.
		• Set a working SD card/expanded authentication module file. • Install the DESS module. • In the SSP mode set SP5-401-160 to "0". • In the SSP mode, set SP5-401-161 to "0". • Replace the NVRAM.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC636-02	D	IC Card Error (Version error)
		The version of the expanded authentication module is not correct.
		Incorrect module version
		Install the correct file of the expanded authentication module.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC637-01	D	Tracking Information Notification Error (Tracking application error)
		Tracking information was lost.
		• Tracking SDK application error • Internal notification error
		Turn the main power off/on.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC637-02	D	Tracking Information Notification Error (Management server error)
		Tracking information was lost.
		Communication with tracking management server failed. • Network error • tracking management server error • Tracking SDK application error
		Turn the main power off/on.

SC No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC641-00	D	Communication error between BCU and Controller board.
		Controller board does not respond after BCU tries to communicate three times.
		• Controller board software error • Connect error between BCU and Controller board • Engine board software error
		• Check connections between Controller board and BCU.

SC No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		• Turn the main switch off and on.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC650-01	C	Remote Service Modem Communication Error (Dialup authentication failure)
		• An error related to communication (dialup connection, modem board etc.) using the RC Gate Type M was detected or an error that prevents RC Gate operation was detected at power on. • Displayed only when an error is detected while RC Gate is operating. • SC is not issued if an error occurs during RC Gate installation (because it can be referenced using SP).
		Dialup authentication failure
		Check the following SPs. • SP5-816-156 • SP5-816-157

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC650-04	C	Remote Service Modem Communication Error (dialup failing because of incorrect modem configuration)
		• An error related to communication (dialup connection, modem board etc.) using the RC Gate Type M was detected or an error that prevents RC Gate operation was detected at power on. • Displayed only when an error is detected while RC Gate is operating. • SC is not issued if an error occurs during RC Gate installation (because it can be referenced using SP).
		Dialup failing because of incorrect modem configuration
		Check if the setting of SP5-816-160 is correct. If it is correct, then there is a software bug.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC650-05	C	Remote Service Modem Communication Error (insufficient current or connection error)
		• An error related to communication (dialup connection, modem board etc.) using the RC Gate Type M was detected or an error that prevents RC Gate operation was detected at power on. • Displayed only when an error is detected while RC Gate is operating. • SC is not issued if an error occurs during RC Gate installation (because it can be

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		referenced using SP).
		Insufficient current or connection error
		The line is not supported and nothing can be done.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC650-13	C	Remote Service Modem Communication Error (RC Gate Type M was installed but modem is not present (detected during operation))
		• An error related to communication (dialup connection, modem board etc.) using the RC Gate Type M was detected or an error that prevents RC Gate operation was detected at power on. • Displayed only when an error is detected while RC Gate is operating. • SC is not issued if an error occurs during RC Gate installation (because it can be referenced using SP).
		RC Gate Type M was installed but modem is not present (detected during operation)
		• If a modem board is not installed, install it. • Check again if the modem driver configurations (SP5-816-160, SP5-816-165 to 171) are correct. • If the problem is not solved, replace the modem.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC650-14	C	Remote Service Modem Communication Error (RC Gate Type N was installed but modem is present or wired/wireless LAN is not working correctly)
		• An error related to communication (dialup connection, modem board etc.) using the RC Gate was detected or an error that prevents RC Gate operation was detected at power on. • Displayed only when an error is detected while RC Gate is operating. • SC is not issued if an error occurs during RC Gate installation (because it can be referenced using SP).
		RC Gate Type N was installed but modem is present or wired/wireless LAN is not working correctly
		• If a modem board is attached, remove it. • Check if wired/wireless LAN works.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC651-01	C	Illegal Remote Service Dial-up (Chat program parameter error)
		An unexpected error occurred when RC Gate Type M dialed up the NRS Center.
		Software bug

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Logging only.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC651-02	C	Illegal Remote Service Dial-up (Chat program execution error)
		An unexpected error occurred when RC Gate dialed up the NRS Center.
		Software bug
		Logging only.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC652-00	A	Remote service ID2 mismatching
		There was an authentication mismatch between ID2 for @Remote, the controller board, and NVRAM.
		• Used controller board installed • Used NVRAM installed (such action is not allowed.)
		• If this occurs during RC Gate installation: Check the validity of the certificate and the NVRAM, check the machine serial number, write the common certificate, and then begin installation again. • If this occurs after RC Gate installation: Clear the RC Gate install status, check the validity of the certificate and the NVRAM, check the machine serial number, write the common certificate, and then begin installation again.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC653-00	A	Incorrect remote service ID2
		ID2 stored in the NVRAM has either of the following problems. • Number of characters is not 17. • Includes a character that cannot be printed. • All spaces • NULL
		Replace the NVRAM.
		Clear the RC Gate install status, write the common certificate, and then begin installation again.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC670-	D	Engine start up error when the machine boots up

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
01		
		• /ENGRDY signal was not asserted when the machine was turned on. • PCI I/F is not linked up when the machine returns from energy saver mode. • /IPURDY signal was not asserted when the machine was turned on or returned from energy saver mode. • EC/PC/SC response was not received within specified time from power on. • Writing to Rapi driver failed (the other party not found through PCI). • Connection defect between controller board and IPU. • IPU is down / unstable • BCU is down / unstable
		Engine board does not start up.
		Refer to When SC670 (Engine start up error) is Displayed

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC670-02	D	Engine start up error when the machine is in operation
		• CPU reset by software • CPU reset by anomaly CPU • CPU reset by hardware defect / noise • Hardware defect
		Engine board reset unexpectedly.
		Refer to When SC670 (Engine start up error) is Displayed

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC670-03	D	IPU start up error when the machine boots up
		VDET_EPCI signal was not asserted when the machine was turned on.
		• IPU, PSU, and/or CTL defective • Incorrect connection between CTL and IPU. • Harness of IPU disconnected
		Refer to When SC670 (Engine start up error) is Displayed

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC670-04	D	Communication error between the engine and controller
		Communication could not linked up.
		• IPU and/or CTL defective • Incorrect connection between CTL and IPU.
		Refer to When SC670 (Engine start up error) is Displayed

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SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC672-10	D	Controller start up error
		After the machine was powered on, communication between the controller and the operation panel was not established.
		• Controller stalled • Board installed incorrectly • Controller board defective • Operation panel connector loose, broken, or defective • Controller late
		Refer to When SC672 (Controller start up error) is Displayed.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC672-11	D	Controller start up error
		After the machine was powered on, communication between the controller and the operation panel was not established, or communication with controller was interrupted after a normal startup.
		• Controller stalled • Board installed incorrectly • Controller board defective • Operation panel connector loose, broken, or defective • Controller late
		Refer to When SC672 (Controller start up error) is Displayed.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC672-12	D	Controller start up error
		Communication with controller was interrupted after a normal startup.
		• Controller stalled • Board installed incorrectly • Controller board defective • Operation panel connector loose, broken, or defective • Controller late
		Refer to When SC672 (Controller start up error) is Displayed.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC672-13	D	Controller start up error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		The operation panel detects that the controller is down due to other reason shown in SC672-10, SC672-11, and SC672-12.
		• Controller stalled • Board installed incorrectly • Controller board defective • Operation panel connector loose, broken, or defective • Controller late
		Refer to When SC672 (Controller start up error) is Displayed.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC672-99	D	Controller start up error
		The operation panel software ended abnormally.
		• Controller stalled • Board installed incorrectly • Controller board defective • Operation panel connector loose, broken, or defective • Controller late
		Refer to When SC672 (Controller start up error) is Displayed.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC673-10	D	Operation panel Flair communication error (Smart Operation Panel)
		This SC is issued only for the machine that has the Smart Operation Panel installed. • Communication between Smart Operation Panel and main machine (this is called "Flair communication") is not sent to Smart Operation Panel. • SP setting (SP5-748-201) for Smart Operation Panel is not activated.
		The CATS module (controller) did not see the response to notification of monitoring service module (operation panel).
		• Turn the main power OFF/ON. • Set SP5-748-201 (OpePanel Setting: Cheetah Panel Connect Setting) to "1: Connect" if the value is "0: Not connect".

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC674-01	D	Transfer Error (M2P error)
		The video transfer error has occurred on the controller board. If image data transfer to the engine fails for some reason, an SC occurs.
		Controller Board/software defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Turn the main power OFF/ON.
SC674-02	D	Transfer Error (PCI error)
		The expanded engine ASIC has failed in its attempt to access another PCI device. The PCI error may occur simultaneously with the M2P error (SC674-01).
		Controller Board/software defective
		Turn the main power OFF/ON.

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SC700 (Engine: Peripherals)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC720		**Finisher SR3230 Error**
SC720-03	B	Protection Device Intercept Error 1
		Protection device intercept error state (fuse break) is detected.
SC722-06	C	See the descriptions next table below.
SC720-10	B	Entrance Transport Motor Error
SC720-11	B	Horizontal Transport Motor Error
SC720-13	B	Intermediate Transport Motor Error
SC720-15	B	Prestack Transport Motor Error
SC720-17	B	Paper Exit Motor Error
		Error Condition of -06, -10, -11, -13, -15, -17 Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification)
SC720-20	B	Lower Junction Gate Motor Error
SC720-24	B	Paper Exit Open/Close Guide Plate Motor Error
SC720-25	B	Punching Motor Error
SC720-27	B	Punch Displacement Motor Error
SC720-28	B	Horizontal Registration Detection Displacement Motor Error
SC720-30	B	Jogger Motor Error
SC720-33	B	Positioning Roller Drive Motor Error
		Error Condition of -20, -24, -25, -27, -28, -30, -33

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC720-34	B	Positioning Transport Motor Error
		Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification)
SC720-35	B	Rear End Press Motor Error
		• Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) • During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC720-41	B	Release Motor Error
		• Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) • During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC720-42	B	Edge Stapler Retreat Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC720-44	B	Edge Stapler Motor Error
		• During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC720-50	B	Booklet Jogger Motor Error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC720-51	B	Booklet Adjustment Claw Displacement Motor Error
SC720-52	B	Press Folding Motor Error
SC720-53	B	Booklet Reference Fence Motor Error
		Error Condition of -50, -51, -52, -53 • During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC720-54	B	Folding Transport Motor Error
		Motor driver detects an error (short-circuit and overheating) (1st time is jam notification, 2nd time is SC notification).
SC720-60	B	Booklet Stapler Motor Error
		• During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC720-70	B	Folding Transport Motor Error
		• Motor controller detects an error (overload) (1st time is jam notification, 2nd time is SC notification). • During descent, the paper surface sensor still detects paper even after a predetermined time (t0sec) elapses (1st time is jam notification, 2nd time is SC notification). • During ascent, the paper surface sensor could not detect the paper surface even after a predetermined time (t1sec) elapses (1st time is jam notification, 2nd time is SC notification).
SC720-71	B	Shift Motor Error
SC720-72	B	Shift Jogger Front Motor Error
SC720-73	B	Shift Jogger Rear Motor Error
SC720-	B	Shift Jogger Retreat Motor Error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
74		
		Error Condition of -71, -72, -73, -74 • During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC720-75	B	Reverse Roller Rocking Motor Error
		• Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) • During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC720-80	B	Protection Device Intercept Error 3
		Fuse blowout is detected
SC720-81	B	Transfer Roller Transport Motor Error
		Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification)
SC720-82	B	Edge Guide Motor Error
SC720-83	B	**Paper Guide Motor Error**
		Error Condition of -82, -83 • During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
		• Harness short-circuit -80 only • Overload • Motor defective • Solenoid defective -03, -80 only • Connector disconnected • Encoder defective -10, -25, -34 -81 only • Home position sensor defective

SC720-83
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SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. • **The target parts are the motor and related HP sensor for which the SC occurred.** 1. Check if the connector of the target part is connected securely. Reconnect the connector if it is disconnected, or loose. 2. Check the harness for the target part. Replace the harness if it is damaged. 3. Check if the motor runs, is properly driven, has no overloads, and the sensors turn OFF/ON correctly.Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC720		**Finisher SR3230 Error**
SC720-06	C	Access error to NVRAM
		Error occurs when accessing NVRAM.
		Connection failure or malfunction of NVRAM
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. 1. Pull out and reinsert the NVRAM to check if the NVRAM is correctly inserted into the IC socket. If the SC cannot be recovered, replace the main board.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC721		**Booklet Finisher SR3220 Error**
SC721-03	B	Protection Device Intercept Error 1
		Fuse blowout is detected
SC721-06	C	See the descriptions next table below.
SC721-10	B	Transport Motor 1 Error
		Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification).
SC721-11	B	Transport Motor 2 Error
		Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification).
SC721-17	B	Paper Eject Motor 2 Error
		Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification).
SC721-24	B	Paper Exit Guide Plate Open/Close motor Error
		• During movement to home, the home position could not be detected within a

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC721-25	B	Punch Drive Motor Error
		• During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). • Output from the encoder could not be counted for a predetermined number of times within a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC721-27	B	Punch Movement Motor Error
SC721-28	B	Punch Horizontal Registration Detection Error
SC721-30	B	Jogger Motor 1 Error
SC721-33	B	Positioning Roller Motor Error
SC721-41	B	Release Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification).
SC721-42	B	Stapler Retreat Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). • During movement from home, retreat sensor ON could not be detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). • During initialization, retreat sensor ON was detected simultaneously when the home position is detected (1st time is jam notification, 2nd time is SC notification).
SC721-44	B	Stapler Motor Error
		• During movement to home, the home position could not be detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• During motor drive, the output from the encoder could not be counted for a predetermined number of times within a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC721-52	B	Folding Plate Drive Motor Error
		• Motor driver detects an error (short-circuit and overheating) (1st time is SC). • During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC721-53	B	Rear End Fence Displacement Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC721-58	B	Bundle Transport 1 Release Motor Error
SC721-59	B	Bundle Transport 2 Release Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC721-80	B	Folding Transport Motor Error
		• Motor driver detects an error (short-circuit or overheating) (1st time is SC)
SC721-70	B	Tray 1 Lift Motor Error
		• Motor driver detects an error (short-circuit or overheating) (1st time is SC). • During descent, the paper surface sensor still detects paper even after a predetermined time elapses (1st time is jam notification, 2nd time is SC notification). • During ascent, the paper surface sensor could not detect the paper surface even after a predetermined time elapses (1st time is jam notification, 2nd time is SC notification).
SC721-71	B	Shift Motor 1 Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC721-81	B	Paper Guide Drive Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
		• Overcurrent (-03 only) • Staple jam (-44 only) • Encoder error (-11, -11, -25, -44) • Motor defective • Connecter disconnected, or loose • Motor overload • HP sensor defective • Paper surface sensor defective (-70 only)
		Check if the SC occurs by opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. • **The target parts are the motor and related HP sensor for which the SC occurred.** 1. Check if the connector of the target part is connected securely. Reconnect the connector if it is disconnected, or loose. 2. Check the harness for the target part. Replace the harness if it is damaged. 3. Check if the motor runs, is properly driven, has no overloads, and the sensors turn OFF/ON correctly.Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC721		**Booklet Finisher SR3220 Error**
SC721-06	C	Access error to NVRAM
		Error occurs when accessing NVRAM.
		Connection failure or malfunction of NVRAM
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. 1. Pull out and reinsert the NVRAM to check if the NVRAM is correctly inserted into the IC socket. If the SC cannot be recovered, replace the main board.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC722		**Finisher SR3210 Error**
SC722-03	B	Protection Device Intercept Error 1
		Fuse blowout is detected
SC722-06	C	See the descriptions next table below.
SC722-	B	Transport Motor 1 Error

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
10		Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification).
SC722-11	B	Transport Motor 2 Error
		Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification).
SC722-17	B	Paper Eject Motor 2 Error
		Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification).
SC722-24	B	Paper Exit Guide Plate Open/Close motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC722-25	B	Punch Drive Motor Error
		• During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). • Output from the encoder could not be counted for a predetermined number of times within a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC722-27	B	Punch Movement Motor Error
SC722-28	B	Punch Horizontal Registration Detection Error
SC722-30	B	Jogger Motor 1 Error
SC722-33	B	Positioning Roller Motor Error
SC722-41	B	Release Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification).
SC722-42	B	Stapler Retreat Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). • During movement from home, retreat sensor ON could not be detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). • During initialization, retreat sensor ON was detected simultaneously when the home position is detected (1st time is jam notification, 2nd time is SC notification).
SC722-44	B	Stapler Motor Error
		• Motor driver detects an error (short-circuit or overheating) (1st time is SC). • During movement to home, the home position could not be detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). • During motor drive, the output from the encoder could not be counted for a predetermined number of times within a predetermined time (1st time is jam notification, 2nd time is SC notification).
SC722-45	B	Stapleless Stapler Transfer Motor Error
		• Motor driver detects an error (short-circuit or overheating) (1st time is SC). • During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification).
SC722-46	B	Stapleless Stapler Motor Error
		• Motor driver detects an error (short-circuit or overheating) (1st time is SC). • During movement to home, the home position could not be detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification).
SC722-47	B	Paper Guide Drive Motor Error
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification) • .During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
SC722-70	B	Tray 1 Lift Motor Error
		• Motor driver detects an error (short-circuit or overheating) (1st time is SC). • During descent, the paper surface sensor still detects paper even after a predetermined time (t0sec) elapses (1st time is jam notification, 2nd time is SC notification). • During ascent, the paper surface sensor could not detect the paper surface even after a predetermined time (t0sec) elapses (1st time is jam notification, 2nd time is SC

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		notification).
SC722-71	B	Shift Motor 1 Error
SC722-81	B	Paper Guide Motor
		• During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). • During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification).
		• Overcurrent (-03 only) • Staple jam (-44 only) • Encoder error (-11, -11, -25, -44) • Motor defective • Connecter disconnected, or loose • Motor overload • HP sensor defective • Paper surface sensor defective (-70 only)
		Check if the SC occurs by opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. • **The target parts are the motor and related HP sensor for which the SC occurred.** 1. Check if the connector of the target part is connected securely. Reconnect the connector if it is disconnected, or loose. 2. Check the harness for the target part. Replace the harness if it is damaged. 3. Check if the motor runs, is properly driven, has no overloads, and the sensors turn OFF/ON correctly.Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC722		**Finisher SR3210 Error**
SC722-06	C	Access error to NVRAM
		Error occurs when accessing NVRAM.
		Connection failure or malfunction of NVRAM
		Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. 1. Pull out and reinsert the NVRAM to check if the NVRAM is correctly inserted into the IC socket. If the SC cannot be recovered, replace the main board.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC727		**Internal Multi-fold Unit FD3000 Error**
SC727-01	B	Connection Error to Downstream Unit
		Communication error has occurred with the serial interface of the downstream unit. This is displayed as an SC code from its initial detection.
		• Harness defective • Down stream unit defective • Controller board defective • I/F connector defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Turn the power off, disconnect the interface connector connected to the machine, connect the interface connector of the downstream unit to the machine, and then turn the power on. 2. If the downstream unit does not operate, resulting in connection error, there is a problem with the downstream unit, so repair the downstream unit. 3. Check the harness connections between the controller board and each connector. Replace the harness if it is damaged, or connect it if it is disconnected. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-03	B	Protection Device Intercept Error 1
		• Fuse (FU3) break is detected • 24-V power supply line error This is displayed as an SC code from its initial detection.
		• Fuse (FU3) is blowout • Controller board defective • 24-V harness entrapment (short circuit)
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check that the harness between the circuit board and motor/solenoid is not stripped or entrapped. Replace the harness if there are any defects. 2. Rotate each motor shaft by hand to check for any overload. Replace the motor if there are any defects. 3. Check if there is any unusual odor from the solenoid or any problem with its appearance. Replace the solenoid if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-04	B	Protection Device Intercept Error 2
		• Poly-switch (FU4) break is detected • Limit line disturbances from inrush currents has occurred to the interlock system. • This is displayed as an SC code from its initial detection.
		• Poly-switch (FU4) trip (Trip refers to the phenomenon whereby an overcurrent flows into the poly-switch, resulting in high resistance.) • Controller board defective • 24-V harness entrapment (short circuit)
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-06	C	NVRAM Error 1
		An error has occurred during an access to the NVRAM. This is displayed as an SC code from its initial detection.
		NVRAM is disconnected, or defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. Replace the controller board if the SC reoccurs.
SC727-10	B	Transport Motor Error
		Motor error (Encoder error) This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears.
		• Motor defective • Motor harness entrapped (short circuit or breaking of wire) • Connector disconnected • Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-12	B	Registration Motor Error
		Motor error (Encoder error) This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears.
		• Motor defective • Motor harness entrapped (short circuit or breaking of wire) • Connector disconnected • Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-20	B	JG Crease Motor Error 1
		• Motor error (Encoder error) • The junction gate is not at the HP position. This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears.
		• Motor defective • Motor/sensor harness entrapped (short circuit or breaking of wire) • Connector disconnected • Junction Solenoid HP Sensor defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors/sensors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if the sensor turns OFF/ON. Replace the parts if there are any defects. 5. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-39	B	1st Fold Motor Error
		Motor error (Encoder error) This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears.
		• Motor defective • Motor harness entrapped (short circuit or breaking of wire) • Connector disconnected • Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-41	B	JG Crease Motor Error 2
		• Motor error (Encoder error) • Crease Roller is not at the HP position. This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears.
		• Motor defective

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Motor/sensor harness entrapped (short circuit or breaking of wire) Connector disconnected • Crease HP Sensor defective • Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors/sensors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if the sensor turns OFF/ON. Replace the parts if there are any defects. 5. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-71	B	2nd Fold Motor Error
		Encoder error This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears.
		• Motor defective • Motor harness entrapped (short circuit or breaking of wire) • Connector disconnected • Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.
SC727-72	B	The power supply for the sensor is defective.
		The power supply for the sensor (5V_SN) is defective. This is displayed as an SC code from its initial detection.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Sensor harness entrapped (short circuit or breaking of wire) • Sensor defective • Controller board defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if the harness is connected to the wrong sensor. Reconnect the connector if there are any defects. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the sensor turns OFF/ON. Replace the parts if there are any defects. 4. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 5. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC745-03	D	Protection Device Intercept Error 1
		Protection device intercept error state (fuse1 break) is detected.
		• Harness short-circuit • Motor defective • Solenoid defective
SC745-04	D	Protection Device Intercept Error 2
		Protection device intercept error state (fuse2 break) is detected.
		• Harness short-circuit • Motor defective • Solenoid defective
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors between the controller board and the motors/sensors are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Replace the harness if it is disconnected, or damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if the sensor turns OFF/ON. Replace the parts if there are any defects. 5. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC761		Bridge Unit BU3070 Error
SC761-03	B	Protection Device Intercept Error 5V
SC761-04	B	Protection Device Intercept Error 24V
		Fuse blowout occurs due to over current during power injection (output detected for longer than 2 seconds).
		1. Over current of bridge unit motor 2. Over current due to short-circuit in PCB
		1. Replace the bridge unit or side tray 2. Replace the PCB of bridge unit or side tray

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC780-01	D	Tray 1 (Upper optional paper tray) Protection Device Intercept Error
		When original source of 5V power supply is ON, protection device intercept of 24V power system is detected.
		In 24V power supply system: 1. Motor defective 2. Solenoid defective 3. Harness short- circuit
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in tray 1, 2, and optional upper tray are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harnesses in tray 1, 2, and optional upper tray. Replace any harness that is damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC781-01	D	Tray 2 (Lower optional paper tray) Protection Device Intercept Error
		When original source of 5V power supply is ON, protection device intercept of 24V power

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		system is detected.
		In 24V power supply system: 1. Motor defective 2. Solenoid defective 3. Harness short- circuit
		Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Check if all connectors in tray 1, 2, and optional upper/lower trays are connected securely. Reconnect the connectors if they are disconnected, or loose. 2. Check the harnesses in tray 1, 2, and optional upper/lower trays. Replace any harness that is damaged. 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC791-00	D	No bridge unit when finisher is present
		When power supply is switched on or paper is fed, finisher set is detected but bridge unit set is not detected.
		1. Bridge unit not attached 2. Bridge unit defective
		1. Reset the bridge unit 2. Turn the main power OFF/ON.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC792-00	B	No finisher, bridge unit provided
		When power supply is switched on, it is recognized there is no finisher, and a bridge unit is fitted.
		1. Finisher connector set incorrectly 2. In a machine which has a bridge unit connected, a finisher is not fitted 3. Finisher defective
		Connect finisher or disconnect bridge unit, and turn the main power OFF/ON.

Service Call 816-899

SC800 (Controller)

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC816-**	[0x0000]	Energy save I/O subsystem error
SC816-01	D	Subsystem error
SC816-02	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-03	D	Transition to STR was denied.
SC816-04	D	Interrupt in kernel communication driver
SC816-05, -06	D	Preparation for transition to STR failed.
SC816-07	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-08	D	Sysarch (LPUX_ENGINE_TIMERCTRL) error
SC816-09	D	Sysarch (LPUX_RETURN_FACTOR_STR) error
SC816-10 to 12	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-13	D	open() error
SC816-14	D	Memory address error
SC816-15 to 18	D	open() error
SC816-19	D	Double open() error
SC816-20	D	open() error
SC816-22	D	Parameter error
SC816-23, 24	D	read() error
SC816-25	D	write () error
SC816-26 to 28	D	write() communication retry error
SC816-29, 30	D	read() communication retry error
SC816-35	D	read() error
SC816-36 to 96	D	Subsystem error
SC 816-99		Subsystem error
		Energy save I/O subsystem detected some abnormality.
		• Energy save I/O subsystem defective • Energy save I/O subsystem detected a controller board error (non-response). • Error was detected during preparation for transition to STR.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		• SC816-99 occurs as a subsystem error except any error from -06 to 96.
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. 1. Update the "System" firmware and the other system firmware modules to the latest version. 2. Disable the STR shift function by SP5-191-001 (Power Str Set). 3. Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC817-00	D	Monitor error: File detection / Digital signature error
		• Bootloader cannot read any of diagnostic module, kernel, or root filesystem. • In a bootloader SD card, the digital signature checking for any of diagnostic module, kernel, or root filesystem is failed.
		• Any of the following items does not exist or is broken OS Flash ROM, Diagnostic module in SD card, Kernel, Root filesystem • Any of the following items is revised fraudulently: Diagnostic module in SD card, Kernel, Root filesystem
		• ROM update for controller system • Use another booting SD card having a valid digital signature

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC818-00	D	Watchdog timer error
		The system program fell into a bus-hold state or an endless loop of the program interruption occurred, causing other process to stop.
		• System program defective • Controller board defective • Optional board defective
		• Turn the main power OFF/ON. • Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC819-00	D	Kernel halt error [xxxx]: Detailed error code
		Due to a control error, a RAM overflow occurred during system processing. One of the following messages was displayed on the operation panel.
	[0x5032]	HAIC-P2 error
		HAIC-P2 decompression error (An error occurred in the ASIC

No.	Type	Error Name/Error Condition/Major Cause/Solution
		compression/decompression module.)
		• The code data saved in the HDD was broken for an unexpected reason. (HDD device defective) • The code data saved to memory was broken for an unexpected reason. (Memory device defective) • ASIC defective • Data other than code data was unzipped due to a software malfunction.
		• Turn the main power OFF/ON. • Replace the HDD. • Replace the memory • Replace the controller board. • Fix the software
	[0x5245]	Link up error
		Link up transaction between Engine ASIC and Veena was not completed within 100 ms.
		Either one of following message appears on console if Link up error occurs. RESUME:PCI-Express bus ROOT_DL status error RESUME:PCI-Express bus DETUP status error "0x53554D45" -> Link up error Also, error code "0x5245" and detail code ""0x53554D45" -> Link up error" appears on operation panel.
		• Turn the main power OFF/ON. • Replace the controller board or the engine board (IPU, BCU)
	[0x5355]	L2 status time out
		L2 status register between Engine ASIC and Veena was not reached the target value within 1 sec.
		Engine ASIC during operation was rebooted or shifted to energy saving mode. Machine reboots when SC23x, SC30x occurs. If Engine ASIC is working when rebooting (or shifting to the energy saving mode), L2 status value is not on target. The following message appears on console. SUSPEND:PCI-Express L2 Status Check Error SUSPEND:PCI-Express L2 Status Check Error Also, error code "0x5355" and detail code ""0x5350454E44" -> L2 status time out" appears on operation panel.
		• Turn the main power OFF/ON. • Replace the controller board or the engine board (IPU, BCU)
	[0x6261]	HDD defective

No.	Type	Error Name/Error Condition/Major Cause/Solution
		Received file system data was broken even if the initialization succeeds and there was no error reply from the HDD.
		Power supply disconnection during data writing to the HDD.
		Replace the HDD. This SC may occur when turning on the machine for the first time with a new HDD. In this case, turn the main power off/on.
	[0x696e]	gwinit processing end
		If the SCS process is ended for some reason
		If an unexpected error occurs at SCS processing end, gwint processing also halts (this result is judged a kernel stop error, by gwinit specification) "0x69742064" -> "init died"
		Turn the main power OFF/ON.
	[0x766d]	VM full error
		Occurs when too much RAM is used during system processing
		"vm_pageout: VM is full"
		Turn the main power OFF/ON.
	Console string	Other error (characters on operation panel)
		System detected internal mismatch error
		• Software defective • Insufficient memory • Hardware driver defective (RAM, flash memory)
		• Replace with a larger capacity RAM, or flash memory. • Replace the controller board. • Replace the connected controller option with a new one.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC840-00	D	EEPROM access error
		• During the I/O processing, a reading error occurred. The 3rd reading failure causes this SC code. • During the I/O processing, a writing error occurred.
		• Defective EEPROM
		-

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC841-00	D	EEPROM read data error
		Mirrored data of the EEPROM is different from the original data in EEPROM.
		Data in the EEPROM is overwritten for some reason.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		-

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC842-00	C	Nand-Flash updating verification error
		SCS write error (verify error) occurred at the Nand-Flash module when remote ROM or main ROM was updated.
		Nand-Flash defective
		Turn the main power OFF/ON.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC842-01	C	Insufficient Nand-Flash blocks (threshold exceeded)
		At startup, or when machine returned from low power mode, the Nand-Flash status was read and judged that the number of unusable blocks had exceeded threshold, and then SCS generated the SC code.
		Number of unusable blocks exceeded threshold for Nand-Flash
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC842-02	C	Number of Nand-Flash block deletions exceeded
		At startup, or when the machined returned from low power mode, the Nand-Flash was read and judged that the number of deleted blocks had exceeded threshold, and then SCS generated this SC code.
		Number of blocks deleted exceeded threshold for Nand-Flash
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC845		Hardware Error Detected when the automatic firmware update
SC845-01	D	Engine Board
SC845-02	D	Controller Board
SC845-03	D	Operation Panel (Normal)
SC845-04	D	Operation Panel (Smart Panel)
		When updating the firmware automatically (ARFU), the firmware cannot be read or written normally, and the firmware update cannot be completed even by 3 retries.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		Hardware abnormality of the target board
		Replace the target board For SC845-02, HDD and memory may cause the problem. Replace the HDD or memory if the SC cannot be recovered by replacing the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC853-00	B	Bluetooth device connection error
		The Bluetooth hardware (USB type) was connected after the machine was turned on.
		The Bluetooth hardware (USB type) was connected after the machine was turned on.
		Always connect the Bluetooth device (USB type) before the machine is turned on.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC854-00	B	Bluetooth device disconnected
		The Bluetooth hardware (USB type) was disconnected after the machine was turned on.
		The Bluetooth hardware (USB type) was disconnected after the machine was turned on.
		Never remove Bluetooth (USB type) after machine starts

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC855-01	B	Wireless LAN board error (driver attachment failure)
		Wireless LAN board error (wireless LAN card: 802.11 is covered)
		• Defective wireless LAN board • Loose connection
		• Turn the main power OFF/ON. • Replace wireless LAN board

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC855-02	B	Wireless LAN board error (driver initialization failure)
		Wireless LAN board error (wireless LAN card: 802.11 is covered)
		• Defective wireless LAN board • Loose connection
		• Turn the main power OFF/ON. • Replace wireless LAN board

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC857-00	B	USB I/F Error
		The USB interface is unusable because of a driver error.
		USB driver error (There are three causes of USB error: RX error/CRC error/STALL. SC is

No.	Type	Error Name/Error Condition/Major Cause/Solution
		issued only in the case of STALL.)
		• Check USB connection. • Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC858-00	A	Data encryption conversion error (Key Setting Error)
		A serious error occurred during an attempt to update the encryption key.
		• USB Flash, other data, corrupted • Communication error caused by electrostatic noise • Controller board defective
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC858-01	A	Data encryption conversion error (HDD Key Setting Error)
		A serious error occurred during an attempt to update the encryption key.
		• USB Flash, other data, corrupted • Communication error caused by electrostatic noise • Controller board defective
		• Turn the main power OFF/ON. • If the error persists, replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC858-02	A	Data encryption conversion error (NVRAM Read/Write Error)
		A serious error occurred after data conversion during an attempt to update the encryption key.
		NVRAM defective
		• Replace the NVRAM. • Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC858-30	A	Data encryption conversion error (NVRAM Before Replace Error)
		A serious error occurred after data conversion during an attempt to update the encryption key.
		Software error such as conversion parameters being invalid.
		• Turn the main power OFF/ON. • If the error persists, replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC858-31	A	Data encryption conversion error (Other Error)
		A serious error occurred after data conversion during an attempt to update the encryption key.
		Controller board defective
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC859-00	B	Data encryption conversion HDD conversion error
		When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on.
		• HDD conversion was set with the data encryption key update function, but the HDD was removed. • Machine lost power during data encryption key update • Electrostatic noise, or an HDD error occurred, during data encryption key update, and data was not encrypted.
		• Check HDD connection. • Format the HDD (SP5-832: HDD formatting). • If there is a problem with the HDD, it has to be replaced.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC859-01	B	Data encryption conversion HDD conversion error (HDD check error)
		When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on.
		• HDD conversion was set with the data encryption key update function, but the HDD was removed. • Machine lost power during data encryption key update • Electrostatic noise, or an HDD error occurred, during data encryption key update, and data was not encrypted.
		• Check HDD connection. • Format the HDD (SP5-832: HDD formatting). • If there is a problem with the HDD, it has to be replaced.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC859-02	B	Data encryption conversion HDD conversion error (Power failure during conversion)
		When the data encryption key was updated, HDD data was converted, but not correctly.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on. Details: NVRAM/HDD conversion is incomplete.
		Power failure occurred during encryption key update.
		None The display after restart instructs the user to format the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC859-10	B	Data encryption conversion HDD conversion error (Data read/write command error)
		When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on. Details: Abnormal DMAC return value has been received two or more times (DMAC timeout, serial communication error etc.)
		HDD was not successfully converted during encryption key update due to HDD errors or cable noises.
		• Check HDD connection. • Format the HDD (SP5-832: HDD formatting). • If there is a problem with the HDD, it has to be replaced.

SC860
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No.	Type	Error Name/Error Condition/Major Cause/Solution
SC860-00	B	HDD startup error at main power on (HDD error)
		• The HDD is connected but the driver detected the following errors. • SS_NO.T_READY:/* (-2)HDD does not become READY*/ • SS_BAD_LABEL:/* (-4)Wrong partition type*/ • SS_READ_ERROR:/* (-5)Error occurred while reading or checking the label*/ • SS_WRITE_ERROR:/* (-6)Error occurred while writing or checking the label*/ • SS_FS_ERROR:/* (-7)Failed to repair the filesystem*/ • SS_MOUNT_ERROR:/* (-8)Failed to mount the filesystem*/ • SS_COMMAND_ERROR:/* (-9)Drive not responding to command*/ • SS_KERNEL_ERROR:/* (-10)Internal kernel error*/ • SS_SIZE_ERROR:/* (-11)Drive size too small*/ • SS_NO._PARTITION:/* (-12)The specified partition does not exist*/ • SS_NO._FILE:/* (-13)Device file does not exist*/

No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Attempted to acquire HDD status through the driver but there has been no response for 30 seconds or more.
		• Unformatted HDD • Label data corrupted • HDD defective
		Format the HDD (SP5-832: HDD formatting) through SP mode.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC862-00	D	Number of the defective sector reaches the maximum count
		101 defective sectors are generated at the image storage area in the HDD.
		SC863 occurs during the HDD reading and defective sectors are registered up to 101.
		• Format the HDD with SPSP5-832. • Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC863-01	D	HDD data read failure
		The data written to the HDD cannot be read normally.
		Bad sectors were generated during operation. (An error occurred in an area that does not belong to a partition, such as the disk label area.)
		Guide for when to replace the HDD 1. When SC863 has occurred ten times or more • The interval is short. • Repeatedly occurs in the same situation (At power-on, etc.). • Startup takes a long time when the main power is turned on. 2. It takes a long time after main power on for the operation panel to become ready. HDD access may be consuming time. Normal HDD access time after main power on is about 5 seconds. If the machine is not waiting for the engine to be ready and it still takes 20 to 30 seconds or more, the HDD may be the cause. If there is a problem with the HDD, HDD-related SCs such as SC860 and SC863 will occur frequently. Print the SC log data and check them.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC863-02 to 23	D	HDD data read failure
		The data written to the HDD cannot be read normally.
		Bad sectors were generated during operation. (An error occurred in partition **"a"** (SC863-02) to partition **"v"** (SC863-23)).
		Guide for when to replace the HDD

No.	Type	Error Name/Error Condition/Major Cause/Solution
		1. When SC863 has occurred ten times or more • The interval is short. • Repeatedly occurs in the same situation (At power-on, etc.). • Startup takes a long time when the main power is turned on. 2. It takes a long time after main power on for the operation panel to become ready. HDD access may be consuming time. Normal HDD access time after main power on is about 5 seconds. If the machine is not waiting for the engine to be ready and it still takes 20 to 30 seconds or more, the HDD may be the cause. If there is a problem with the HDD, HDD-related SCs such as SC860 and SC863 will occur frequently. Print the SC log data and check them.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC864-00	D	HD data CRC error
		During HD operation, the HD cannot respond to a CRC error query. Data transfer did not execute normally while data was being written to the HD.
		HD defective
		-

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC864-01	D	HDD data CRC error
		During HDD operation, the HDD cannot respond to a CRC error query. Data transfer did not execute normally while data was being written to the HDD.
		Bad sectors were generated during operation. (An error occurred in an area that does not belong to a partition, such as the disk label area.)
		• Format the HDD. • Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC864-02 to 23	D	HDD data CRC error
		During HDD operation, the HDD cannot respond to a CRC error query. Data transfer did not execute normally while data was being written to the HDD.
		Bad sectors were generated during operation. (An error occurred in partition "a" (SC864-02) to partition "v" (SC864-23)).
		• Format the HDD. • Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC865-00	D	HD access error
		During HDD operation, the HDD returned an error.
		The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC error).
		Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC865-01	D	HDD access error
		During HDD operation, the HDD returned an error.
		The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC error). (An error occurred in an area that does not belong to a partition, such as the disk label area.)
		Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC865-02 to 23	D	HDD access error
		During HDD operation, the HDD returned an error.
		The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC error). (An error occurred in partition "a" (SC865-02) to partition "v" (SC865-23)).
		Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC865-50 to 73	D	HDD time-out error
		The machine does not detect a reply from the HDD during the HDD operation.
		The HDD does not respond to the read/ write command from the machine.
		• Check the harness connections between the controller board and HDD. • Replace the HDD.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC866-00	B	SD card authentication error
		A license error of an application that is started from the SD card was detected.
		Invalid program data is stored on the SD card.
		Store a valid program data on the SD card.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC867-00	C	SD card removed
		The SD card was removed while the machine is on.
		An application SD card has been removed from the slot (mount point of /mnt/sd0).
		Turn the main power OFF/ON.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC867-01	C	SD card removed
		The SD card was removed while the machine is on.
		An application SD card has been removed from the slot (mount point of /mnt/sd1).
		Turn the main power OFF/ON.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC867-02	C	SD card removed
		The SD card was removed while the machine is on.
		An application SD card has been removed from the slot (mount point of /mnt/sd2).
		Turn the main power OFF/ON.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC868-**		SD card access error
SC868-00	D	The SD controller returned an error during operation. (An error occurred at the mount point of /mnt/sd0)
SC868-01	D	The SD controller returned an error during operation. (An error occurred at the mount point of /mnt/sd1)
SC868-02	D	The SD controller returned an error during operation. (An error occurred at the mount point of /mnt/sd2)
		• SD card defective • SD controller defective
		Slot number is displayed on the sub code. Detail code is described in SMC print can confirm the details of the error. • -13 to -3: File system check error • Otherwise (no code, -2) : Device access error
		SD card that starts an application **1.** Turn the main power off and check the SD card insertion status. **2.** If no problem is found, insert the SD card and turn the main power on. **3.** If an error occurs, replace the SD card.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		4. If the error persists even after replacing the SD card, replace the controller board. **SD card for users** **1.** In case of a file system error, reformat the SD card (using the "SD Formatter" made by Panasonic).* **In case of a device access error** **1.** Turn the main power off and check the SD card insertion status. **2.** If no problem is found, insert the SD card and turn the main power on. **3.** If an error occurs, use another SD card. **4.** If the error persists even after replacing the SD card, replace the controller board.

* Do not format an SD card supplied with the main machine or sold as an option. You may only format SD cards used for Firmware Update by a Customer Engineer.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC872-00	B	HDD mail reception error
		An error was detected on the HDD immediately after the machine was turned on.
		• HDD defective • Power was turned off while the machine used the HDD.
		• Format the HDD (SP5-832-007: HDD Formatting: Mail RX Data).). • Replace the HDD. When you do the above, the following information will be initialized. • Partly received partial mail messages. • Already-read statuses of POP3-received messages (All messages on the mail server are handled as new messages).

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC873-00	B	HDD mail reception error
		An error was detected on the HDD immediately after the machine was turned on.
		• HDD defective • Power was turned off while the machine used the HDD.
		• Format the HDD (SP5-832-007 : HDD Formatting: Mail RX Data). • Replace the HDD. When you do the above, the following information will be initialized. • Sender’s mail text • Default sender name/password (SMB/FTP/NCP) • Administrator mail address • Scanner delivery history

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC874-05	D	Delete all error (Delete data area) : Read error
SC874-06	D	Delete all error (Delete data area) : Write error
SC874-09	D	Delete all error (Delete data area) : No response from HDD
SC874-10	D	Delete all error (Delete data area) : Error in Kernel
SC874-12	D	Delete all error (Delete data area) : No designated partition
SC874-13	D	Delete all error (Delete data area) : No device file
SC874-14	D	Delete all error (Delete data area) : Start option error
SC874-15	D	Delete all error (Delete data area) : No designated sector number
SC874-16	D	Delete all error (Delete data area) : failure in performing hdderase
SC874-41	D	Delete all error (Delete data area) : Other fatal errors
SC874-42	D	Delete all error (Delete data area) : End by cancellation
SC874-61 to -65	D	Delete all error (Delete data area) : library error
SC874-66	D	Delete all error (Delete data area) : Unavailable
SC874-67	D	Delete all error (Delete data area) : Erasing not finished
SC874-68	D	Delete all error (Delete data area) : HDD format failure (Normal)
SC874-69	D	Delete all error (Delete data area) : HDD format failure (Abnormal)
SC874-70	D	Delete all error (Delete data area) : Unauthorized library
SC874-99	D	Delete all error (Delete data area) : other errors
		An error occurred while data was being erased on HDD or NVRAM.
		• Error detected in HDD data delete program • Error detected in NVRAM data delete program • The "Delete All" option was not set
		• Turn the main power switch off and back on, and then execute "Erase All Memory" under UP mode again. (However, if there is a defective sector or other problem with the hard disk, the error will persist even after trying the above.) • If the "Delete All" option is not installed when this error occurs, install the option.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC875-01	D	Delete all error (HDD erasure) (hddchack –i error)
SC875-02	D	Delete all error (HDD erasure) (Data deletion failure)
		An error was detected before HDD/data erasure starts. (Failed to erase data/failed to logically format HDD)
		• HDD logical formatting failed.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		• The modules failed to erase data.
		Turn the main power OFF/ON.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC876-01	D	Log Data Error 1
		An error was detected in the handling of the log data at power on or during machine operation.
		Damaged log data file
		Initialize the HDD (SP5-832-004).

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC876-02	D	Log Data Error 2
		An error was detected in the handling of the log data at power on or during machine operation.
		Log encryption is enabled but encryption module is not installed.
		• Replace or set again the encryption module. • Disable the log encryption setting.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC876-03	D	Log Data Error 3
		An error was detected in the handling of the log data at power on or during machine operation.
		Inconsistency of encryption key between NV-RAM and HDD.
		• Disable the log encryption setting. • Initialize LCS memory (SP5801-019). • Initialize the HDD (SP5-832-004).

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC876-04	D	Log Data Error 4
		An error was detected in the handling of the log data at power on or during machine operation.
		• Log encryption key is disabled but the log data file is encrypted. (NVRAM data corruption) • Log encryption key is enabled but the log data file is not encrypted. (NVRAM data corruption)
		Initialize the HDD (SP5-832-004).

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC876-05	D	Log Data Error 5
		An error was detected in the handling of the log data at power on or during machine operation.
		• Only the NV-RAM has been replaced with one previously used in another machine. • Only the HDD has been replaced with one previously used in another machine.
		• Attach the original NV-RAM. • Attach the original HDD. • With the configuration that caused the SC, initialize the HDD (SP5-832-004).

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC876-99	D	Log Data Error 99
		An error was detected in the handling of the log data at power on or during machine operation.
		Other causes
		-

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC877-00	B	Data Overwrite Security card error
		The "Auto Erase Memory" function of the Data Overwrite Security is set to on but it cannot be done.
		• Data Overwrite Security option SD card is broken. • Data Overwrite Security option SD card has been removed.
		• If the SD card is broken, prepare a new Data Overwrite Security option SD card and replace the NVRAM. • If the SD card has been removed, turn the main power off and reinstall a working Data Overwrite Security option SD card.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC878-00	D	TPM authentication error
		TPM electronic recognition failure
		• Update of system module attempted without correct update path • USB flash memory not operating correctly
		Replace the controller board.

Trusted Platform Module

- In computing, Trusted Platform Module (TPM) is both the name of a published specification detailing a secure crypto processor that can store cryptographic keys that protect information, as well as the general name of implementations of that specification often called the "TPM chip" or "TPM Security Device" (as

designated in certain Dell BIOS settings).

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC878-01	D	USB flash error
		There is a problem in the file system of the USB flash memory.
		USB Flash system files corrupted
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC878-02	D	TPM error
		An error occurred in either TPM or the TPM driver
		TPM not operating correctly
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC878-03	D	TCSD error
		An error occurred in the TPM software stack.
		• TPM, TPM software cannot start • A file required by TPM is missing
		Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC878-20	D	Random number test error
		An error was detected when a random number table was generated during a self-test. The random number table is generated by TPM (Trusted Platform Module). The table generated by TPM failed the test. TPM (Trusted Platform Module) is a computer chip that can securely store information used to authenticate the platform. This information can include passwords, certificates, and encryption keys.
		TPM is defective
		• Turn the main power OFF/ON. • Replace the controller board.

No.	Type	Error Name/Error Condition/Major Cause/Solution
SC899-00	D	Software performance error (signal reception end)
		Unknown software error occurred.
		Occurs when an internal program behaves abnormally.
		In the case of a hardware defect • Replace the hardware.

No.	Type	Error Name/Error Condition/Major Cause/Solution
		In the case of a software error • Turn the main power OFF/ON. • Try updating the firmware.

Service Call 900-998

SC900 (Engine: Others)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC995-01	D	CPM setting error 1
		Comparison of machine serial number (11 digits) and machine identification code. Details: • Machine serial number cannot be identified because of BICU replacement or malfunctioning. • Machine serial number cannot be identified because of NV-RAM replacement
		Machine serial number (11 digits) or machine identification code does not match.
		• Enter the machine serial number using SP5-811 (MachineSerial), and then turn the power on/off. • Attach the NV-RAM that was installed previously.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC995-02	D	CPM setting error 2
		Comparison of machine serial number (11 digits) and machine identification code. Details: Machine serial number cannot be identified because of NV-RAM replacement or malfunctioning.
		Machine serial number (11 digits) or machine identification code does not match.
		• Attach the NV-RAM that was installed previously. • Download data on the NV-RAM using SP5-825 (NV-RAM Data Download).

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC995-03	D	CPM setting error 3
		Comparison of machine serial number (11 digits) and machine identification code. Details: Unable to recognize machine identification code because the controller was replaced incorrectly or is malfunctioning.
		Machine serial number (11 digits) or machine identification code does not match.
		Replace it with the correct type of controller.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC995-04	D	CPM setting error 4
		Comparison of machine serial number (11 digits) and machine identification code.
		Machine serial number (11 digits) or machine identification code does not match.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		Return the parts to the original configuration, and then replace them according to the manual.

SC900 (Controller)

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC900-00	A	Electric counter error
		The electric total counter value is out of specification. Error is detected when increasing the total counter.
		• Unexpected NV-RAM is attached. • NV-RAM defective • NV-RAM data corrupted. • Data written to unexpected area because of external factor etc. • The count requested by the SRM on receiving PRT is not completed.
		Replace the NV-RAM.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC920-02	B	Printer application error (WORK memory cannot be acquired)
	B	Printer application error (Filter process ended abnormally)
		An error was detected in the application, and no further operation is possible.
		• There is a bug in the software. • The hardware configuration is not as planned (for example, insufficient memory)
		• Turn the main power OFF/ON. • Increase the memory storage capacity.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC921-00	B	Printer application error (Resident font not found)
		The resident fonts cannot be found at printer startup.
		The resident font file is missing.
		Turn the main power off/on.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC990-00	D	Software operation error
		Software attempted an unexpected operation.
		• Parameter error • Internal parameter error • Insufficient work memory • Operation error caused by abnormalities that are normally undetectable.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Turn the main power off/on. • Reinstall the software of the controller and BCU board.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC991-00	C	Recoverable software operation error
		Software attempted an unexpected operation. SC991 covers recoverable errors as opposed toCS990.
		• Parameter error • Internal parameter error • Insufficient work memory • Operation error caused by abnormalities that are normally undetectable.
		Logging only

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC992-00	D	Undefined SC issued.
		An SC, that is not controlled by the system, occurred.
		• An SC for the previous model was used mistakenly, etc. • Basically a software bug.
		Turn the main power OFF/ON.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC997-00	D	Application function selection error
		The application selected by the operation panel key operated abnormally (No response, abnormal ending).
		Software bug (mainly the application)
		• Check the optional RAM, DIMM, boards required by the application program. • Check if the combination of downloaded programs are correct.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
SC998-00	D	Application start error
		• No application was registered to system within a specified time after the main power was turned on. (No application starts/All applications have been terminated abnormally) • Application started but cannot be drawn now for some reason.
		• Software bug (mainly the application) • The optional RAM, DIMM, boards required by the application program. Are not installed correctly.

SC No.	Type	Error Name/Error Condition/Major Cause/Solution
		• Turn the main power OFF/ON. • Check the optional RAM, DIMM, boards • Check the combination of programs • Replace the controller board.

Troubleshooting for SC Errors

When SC285-02 (MUSIC Error) is Displayed

Cause

- The ID sensor cannot detect the MUSIC pattern
- Color registration error is larger than the specified value

Assumed causes are explained below.

1. **Large drifting**

   "Large drifting" is the state where the color registration error is larger than the specified value.

   In the "Large drifting" state, the MUSIC pattern is shifted a long distance in the main scan direction (side to side), and is moved to the position where the MUSIC Sensor (TM/ID sensor) cannot be detected, or each pattern cannot be detected due to the patterns overlapping.

2. **MUSIC Pattern Density Error**

   Pattern with the lower density

3. **Defective Image Transfer Belt/Image Transfer Unit**
   - Belt scratched
   - Belt corrugation, belt skew
   - Cleaning failure
   - Background stains
   - Filming

     "Filming" is a phenomenon where surface properties change over time.

     Glossiness is one of the surface properties. In the "Filming" state, the whole or part of the Image Transfer Belt surface becomes foggy. "Filming" changes reflected light, and the MUSIC Sensor (TM/ID sensor) may detect the input wrongly, which causes an error.

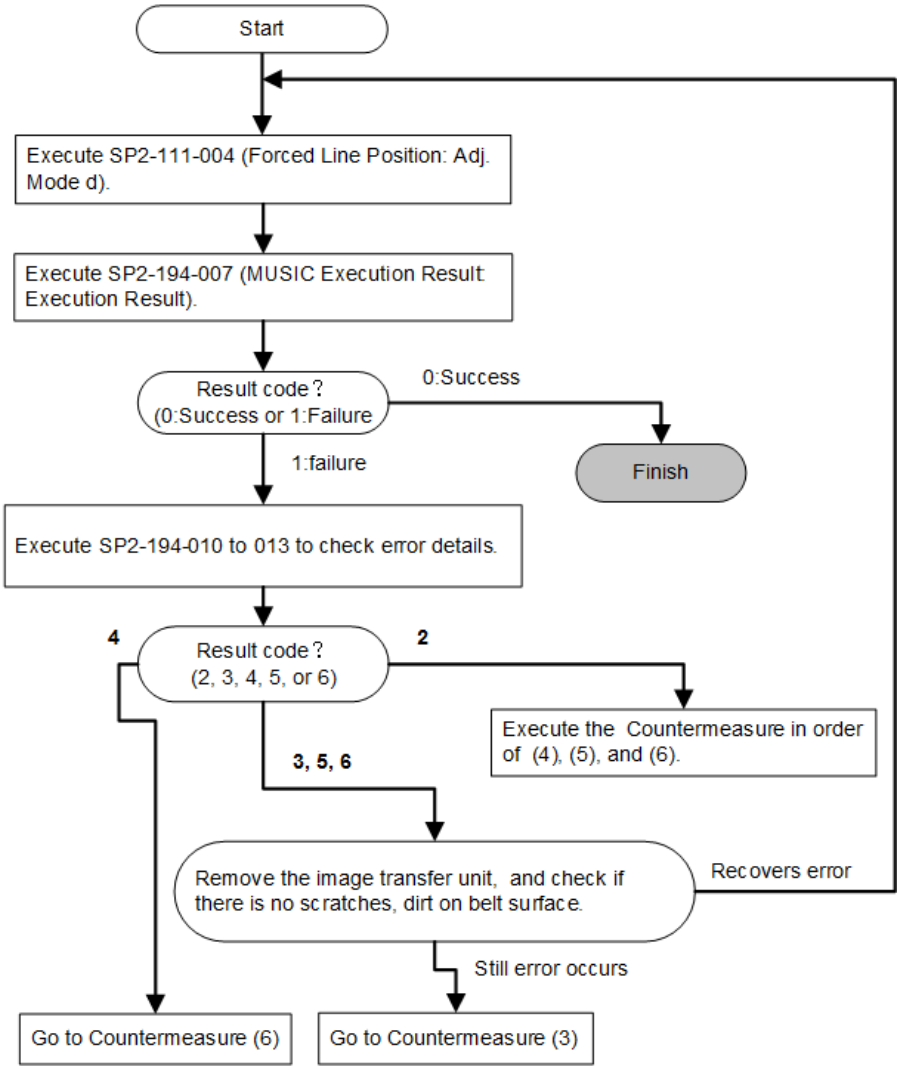
4. **MUSIC Sensor (TM/ID sensor) defective**
   - Connector/harness disconnected
   - Sensor surface dirty
   - Sensor malfunction
   - BCU malfunction

5. **Paper Transfer contact/release mechanismdefective**
   - Connector/harness disconnected
   - Motor/sensor malfunction
   - Imaging IOB malfunction

6. **Skew Motor in Laser Unit defective**
   - Connector/harness disconnected
   - Motor malfunction
   - Imaging IOB malfunction

Solution

As SC285-02 is a logging SC (SC Type C), it is not displayed at once when an error occurs. Though the equipment can be operated, check the SC history and perform a recovery operation if the SC has occurred.



If a MUSIC fail cannot be cleared, perform counter measures from (2) to (6) in this order.
If SC370 occurs when operating MUSIC, refer to the recovery procedure for the SC370.

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Countermeasure (1): Large Drifting

An abnormal value may be contained in the SP where the MUSIC corrected result is saved.

1. Execute SP2-180-001 (Line Pos. Adj.: Clear Color Regist.).
2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
3. Execute SP2-194-007 (MUSIC Execution Result: Execution Result).

Countermeasure (2): MUSIC pattern density Error

Execute MUSIC and check the result.

1. Execute SP3-011-001 (Manual ProCon :Exe : Normal ProCon).
2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
3. Execute SP2-194-007 (MUSIC Execution Result: Execution Result).

Countermeasure (3): Image Transfer Belt/ Image Transfer Unit Defective

1. Execute SP2-112-001 (TM/ID Sensor Check Execute).
2. Check SP2-112-010 (TM/ID Sensor Test General:FCR).
   - Normal If the result is "111"
     -->Execute other countermeasures.
   - Vsg adjustment is failed if the result is "2xx", "x2x", or "xx2"
     -->Execute recovery operation for SC370
   - There is a high probability that contaminants, scars, or irregularities may exist on the belt if the result is "3xx", "x3x", or "xx3"
     -->Execute the following procedure;
     1. Remove the Image Transfer Unit, and check for abnormalities such as contaminants or scars, and set it after cleaning.
     2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
     3. Execute SP2-194-007 (MUSIC Execution Result: Execution Result).
     4. If it fails, replace the Image Transfer Belt/Image Transfer Unit.
   - There is a high probability that contaminants or curls may exist on the belt if the result is "5xx", "6xx", "7xx", "8xx", "x5x", "x6x", "x7x", "x8x", "xx5", "xx6", "xx7", or "xx8".
     --> Execute the following procedure
     1. Remove the Image Transfer Unit, and check for abnormalities such as contaminants or scars, and set it after cleaning.
     2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
     3. Execute SP2-194-007 (MUSIC Execution Result: Execution Result).
     4. If it fails, replace the Image Transfer Belt/Image Transfer Unit.

Countermeasure (4): TM/ID Sensor Defective

Follow the next step if executing SP2-111-004 (Forced Line Position: Adj. Mode d) and SP2-194-007 (MUSIC Execution Result: Execution Result) fails.

1. Clean the TM/ID Sensor.
2. Check the harness and connector for TM/ID sensor.
3. Replace the TM/ID sensor.
4. Replace the BCU.

Countermeasure (5): Paper Transfer contact/release Mechanism Defective

Check if the MUSIC/ProCon Pattern is attached on the Paper Transfer Roller. If it is attached, the contact/release mechanism may be defective.

1. Execute SP5-804-255(OUTPUT Check: Paper Transfer Contact Operation) to operate the Paper Transfer Contact Motor to check the contact/release mechanism of the Paper Transfer Roller.
2. Check for a broken harness or connector disconnection.
3. If the problem cannot be solved, replace the Imaging IOB.

Countermeasure (6): Skew Motor in Laser Unit Error

1. Check the operation of the laser optics positioning motor and check for a broken harness or connector disconnection. If an abnormality is detected, replace the Laser Unit.
2. If the problem cannot be solved, replace the Imaging IOB.

When SC370 (TM (ID) Sensor Calibration Error) is Displayed

Cause

- TM (ID) sensor connector missing/connection error
- TM (ID) sensor detection window dirt
- TM (ID) sensor malfunction
- Undulation in the ITB, or belt slippage

Solution

Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps.

1. Check if all connectors related to TM/ID sensor are connected securely. Reconnect the connectors if they are disconnected, or loose.

2. If TM/ID sensor is contaminated, clean it with a damp cloth (never use a dry cloth or alcohol).
Check if there is an abnormality on the image transfer belt surface.

3. If any abnormalities are found on the image transfer belt surface, replace the image transfer belt.
- Belt scratched
- Belt corrugation, belt skew
- Cleaning failure
- Background stains
- Filming

4. Check the TM/ID sensor for malfunctions, and repair or replace it if there are any defects.

5. Check the harness. Replace the harness if it is damaged; connect it if it is disconnected.

6. If the SC is not cleared even after performing steps 1 to 5, replace the BCU.

Recovery Check Procedure

1. Execute Vsg adjustment with SP3-320-001(Vsg Adj: Execute :P Sensor). .

2. Execute SP3-323-001 (Vsg Adj OK?: Latest) to check the code.
- If the code is "1": Recovered
- If the code is not "1": Not recovered

Adjustment after Recovery

After performing recovery for SC370, execute the following adjustment procedure.

1. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).

2. Execute the following SPs and check the results:

- SP2-194-007 (Execution Result)
- SP2-194-010 (Error Result: C)
- SP2-194-011 (Error Result: M)
- SP2-194-012 (Error Result: Y)

  Execution result examples

  Factory default: 0

  Success: 1

3. Execute SP3-011-001 (Manual ProCon :Exe).

4. Execute the following SPs and check the results.

- SP3-012-001 to 010 (Front)
- SP3-012-011 to 020 (Center)
- SP3-012-021 to 030 (Rear)

  Execution result examples (in order of YMCK from left)

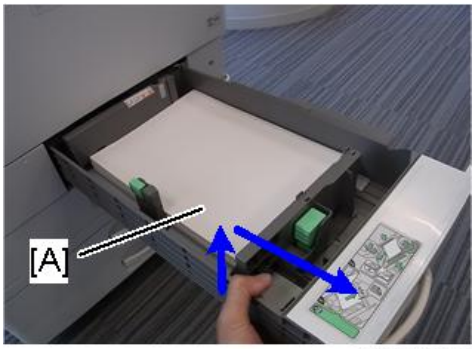
  - Factory default: [00,00,00,00]
  - Starting adjust: [99,99,99,99]
  - Fail Vsg adjust (Y): [21,99,99,99]
  - Error of Development gamma Max (C): [99,99,55,99]
  - Success: [11,11,11,11]

When SC501, SC502, SC503, or SC504 (Paper Tray Error) is Displayed

SC501, SC502, SC503, or SC504 occurs.

Solution

1. Pull out the paper feed tray [A] for which the SC has occurred, and then, lifting the front part of the tray, pull it out all the way through. (The photograph shows Tray 1.)



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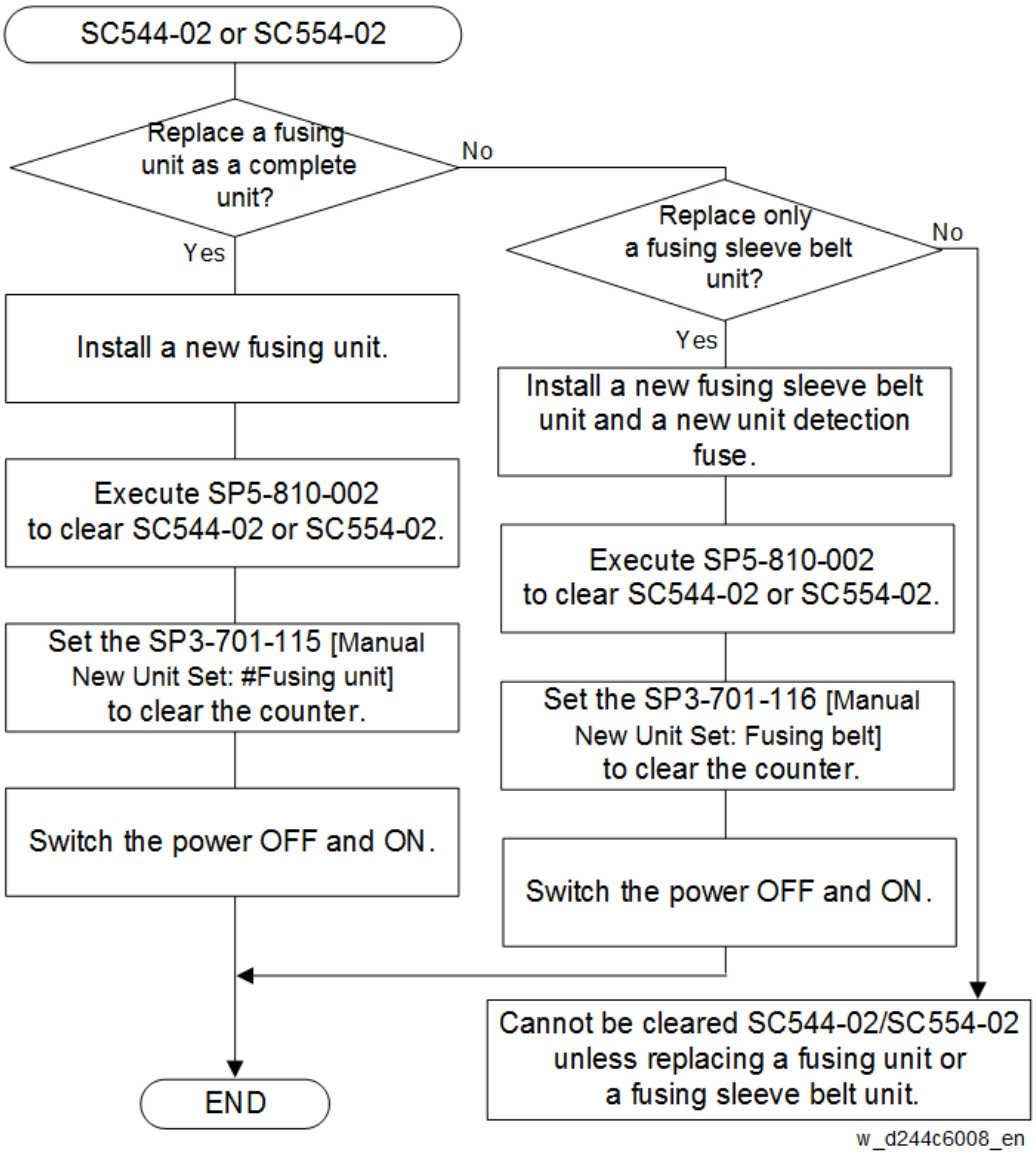
2. Check if there is any paper jammed in the machine, and remove it if there is.

3. If the sheets exceed the stackable limit, reduce the number of sheets.

4. Reattach the tray. Lift the tray slightly when you attach it.

When SC544-02, SC554-02 (Non-contact Thermistor High Temperature Detection) Is Displayed

When SC544-02 or SC554-02 is displayed, the unit is probably damaged. Therefore replace a fusing unit or fusing sleeve belt unit in accordance with the following procedure.



To clear SC544-02 or SC554-02, replacing the fusing unit or installing an intact new unit detection fuse in the fusing unit must be required. The intact new unit detection fuse is provided in the fusing sleeve belt unit.

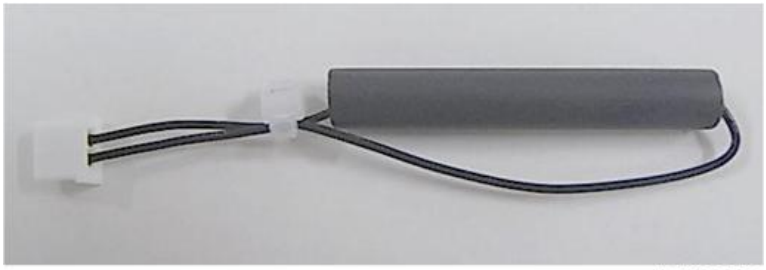
When replacing the fusing sleeve belt unit, follow the procedure How to Clear SC544-02/SC554-02 with a New Unit Detection Fuse.

SP descriptions

- **SP5-810-002 [SC Reset: Hard High Temp. Detection]**
  Clears the fusing hardware SC.
- **SP3-701-115 [Manual New Unit Set: #Fusing Unit]**
  Sets the new unit detection flag ON/OFF.
- **SP3-701-116 [Manual New Unit Set: Fusing Belt]**
  Sets the new unit detection flag ON/OFF.

How to Clear SC544-02/SC554-02 with a New Unit Detection Fuse

1. Install a new fusing sleeve belt unit.
2. There is a new unit detection fuse packed with the new fusing sleeve belt unit.



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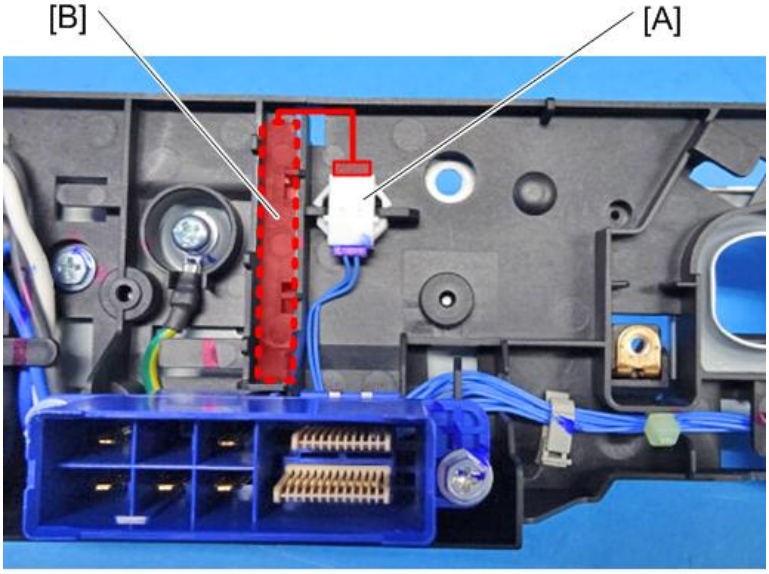
3. Connect the new unit detection fuse to the connector [A], and place the fuse in the empty space [B].



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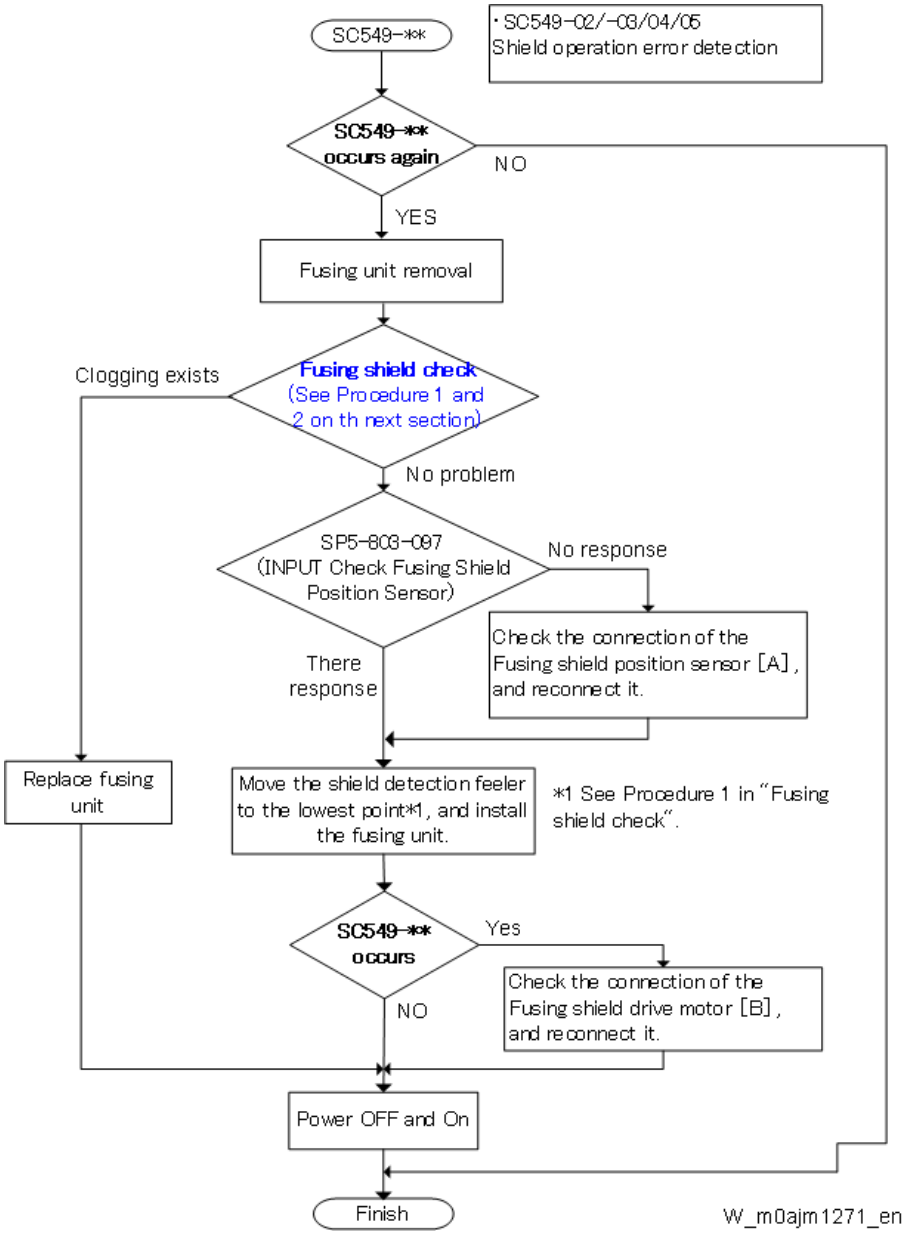
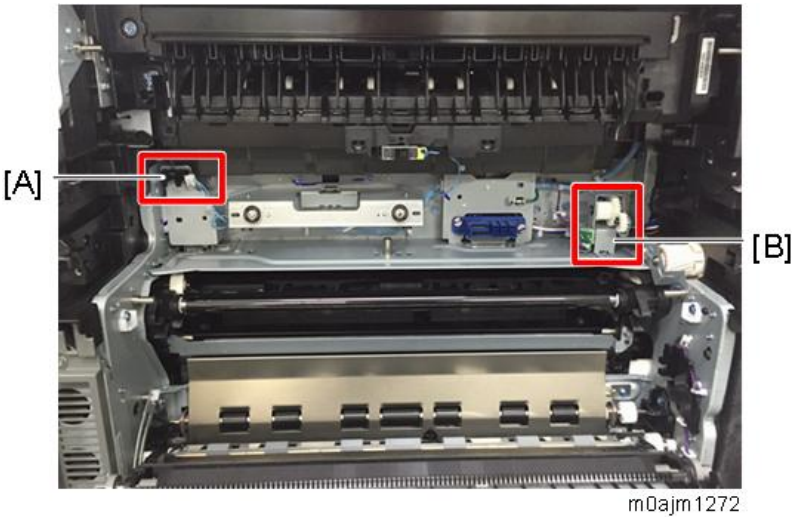
4. Reattach the fusing unit.
5. Switch the power ON.
6. Execute SP5-810-002 [SC Reset: Hard High Temp. Detection].
7. Set SP3-701-116 [Manual New Unit Set: Fusing Belt] to "1".
8. Switch the power OFF and ON.

When SC549 (Shield Operation Error Detection) is Displayed

Troubleshooting Flowchart





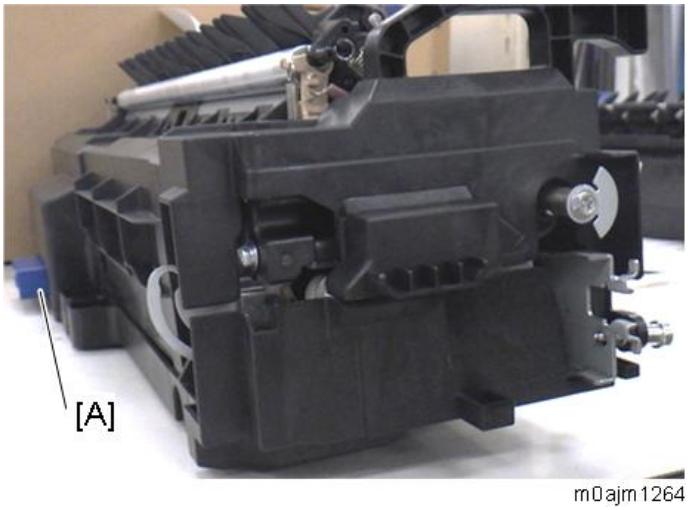
[A] : Fusing shield position sensor

[B] : Fusing shield drive motor

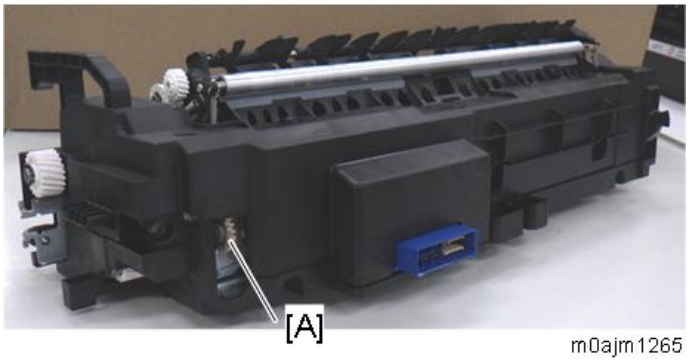
Fusing Shield Check

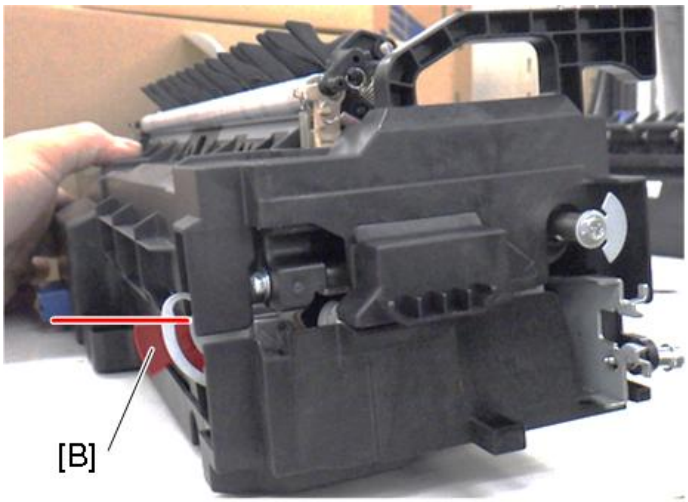
Procedure 1: Operation check for the lower side of the shield detection feeler

1. Place the fusing unit on a flat place and tilt it towards the drawer connector [A].



2. Move the shield drive gear [A] with your hands to put the upper surface of the feeler [B] in a horizontal position.





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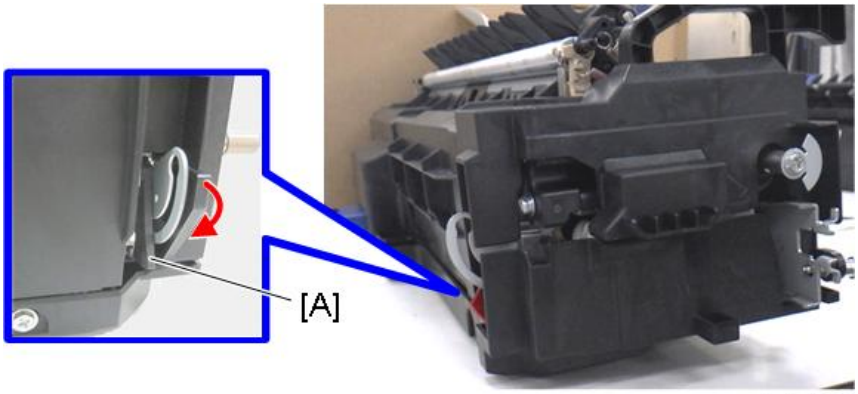
3. Take your hands away from the shield drive gear.
4. Make sure that the shield detection feeler [A] moves down to the lowest point by its own weight.



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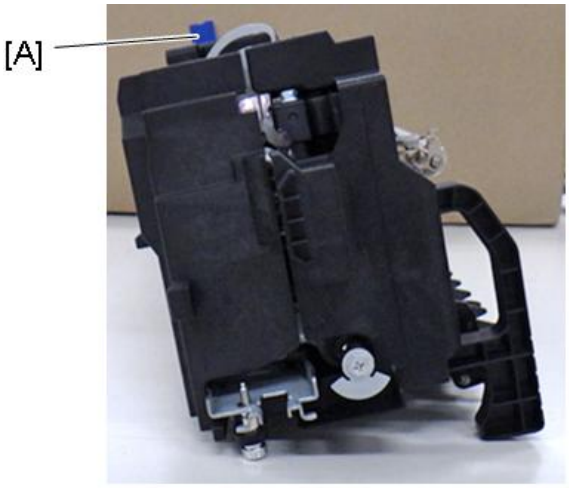
- The feeler moves smoothly: OK
- The feeler does not move, stops during moving, or moves slowly: NG

Procedure 2: Operation check for the upper side of the shield detection feeler

1. Place the fusing unit on a flat place with the drawer connector [A] turned up.



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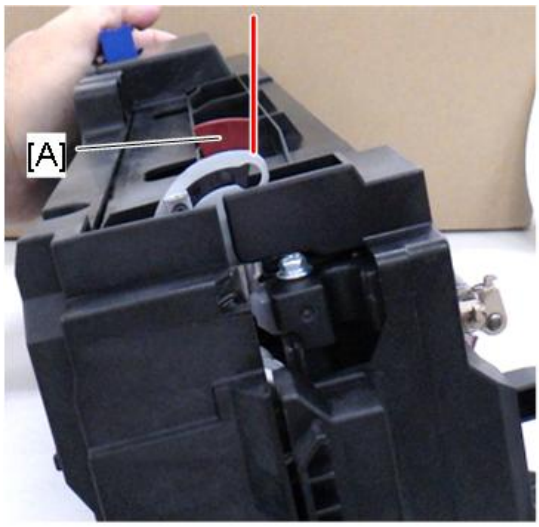
2. Move the shield drive gear with your hands to put the upper surface of the feeler [A] in a vertical position.



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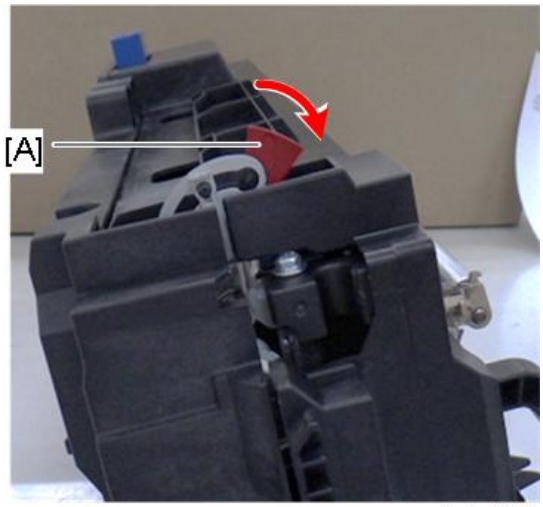
3. Take your hands away from the shield drive gear.
4. Make sure that the shield detection feeler [A] moves up to the highest point by its own weight.



m0ajm1270

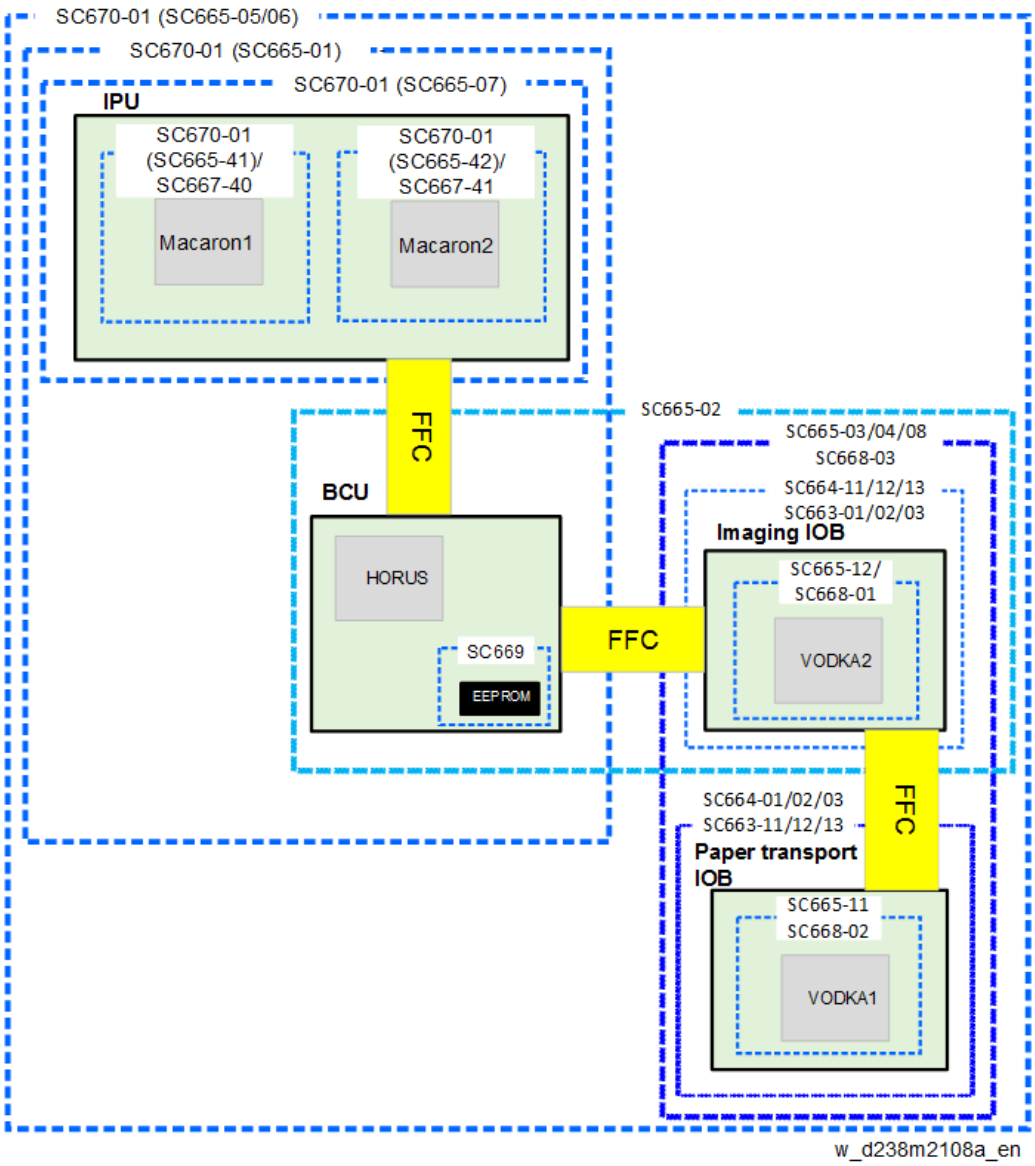
- The feeler moves smoothly: OK
- The feeler does not move, stops during moving, or moves slowly: NG

Results

- Both Procedure 1 and 2 are OK: No problem.
- Either Procedure 1 or 2 is NG: The mechanism is blocked.

Isolation Diagram of SC663, 664, 665, 667, 668, and 670-01

The modules considered to be the cause of SC663, 664, 665, 667, 668 and 670-01 are as follows.



When SC670 (Engine start up error) is Displayed

Cause

The engine board resets at an unexpected time, and does not start up again.

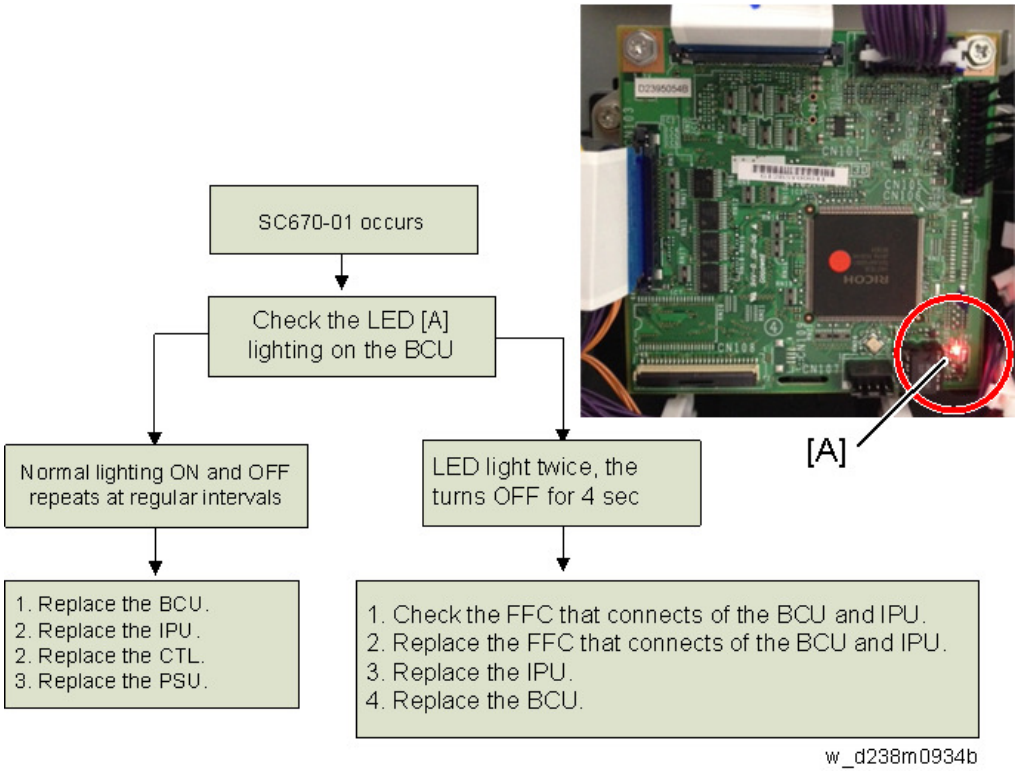
Solution

Note: CTL = Controller

SC670-01

Engine start up error when the machine boots up

If the symptom occurs, use the following chart to decide the best course of action.



SC670-02

Engine start up error when the machine is in operation.

Replace the part in order of precedence stated below (since there is a high possibility that those parts are broken and causing the error).

1. Replace BCU
2. Replace IPU
3. Replace CTL
4. Replace PSU

SC670-03

IPU start up error when the machine boots up.

Replace the part in order of precedence stated below (since there is a high possibility that those parts are broken and causing the error).

1. Replace IPU
2. Replace CTL
3. Replace PSU
4. Replace BCU.

SC670-04

Communication error between the engine and controller.

Replace the part in order of precedence stated below (since there is a high possibility that those parts are broken and causing the error).

1. Replace IPU

2. Replace BCU
3. Replace CTL
4. Replace PSU

When SC672 (Controller start up error) is Displayed

Symptom

Note: CTL = Controller

The following occur:

SC672-00	Communication error between operation panel and CTL after machine is powered on.
SC672-10	Communication error (receive) between operation panel and CTL after machine is powered on.
SC672-11	Communication error (send) between operation panel and CTL after machine is powered on.
SC672-12	Communication error between operation panel and CTL after normal start-up.
SC672-13	Communication error between operation panel and CTL after normal start-up; Operation panel not detected.

Note

- SC672 does not appear on the SMC report, as it is not logged.
- The Smart Operation Panel communicates with the controller via a USB cable and IPU. SC672 is triggered when the panel cannot communicate with the controller.

Cause

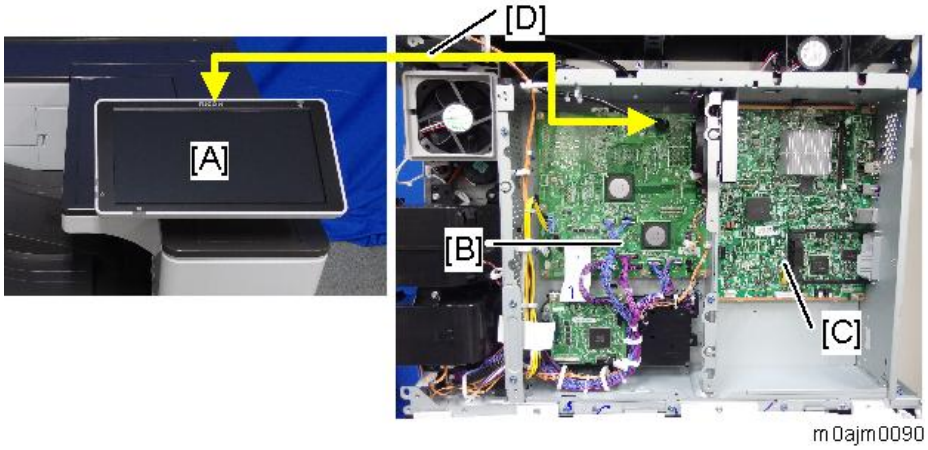
Possible causes of SC672 include:

- USB communication path failure (USB cable, IPU)
- CTL boot up error and/or operation panel boot up error due to abnormal break in operations of CTL.

Possible causes of operation panel cannot light include:

- USB communication path failure (USB cable, IPU)

- Operation panel cannot communicate with CTL due to CTL boot-up error



[A]: Operation Panel

[B]: IPU

[C]: Controller

[D]: USB cable

Solution

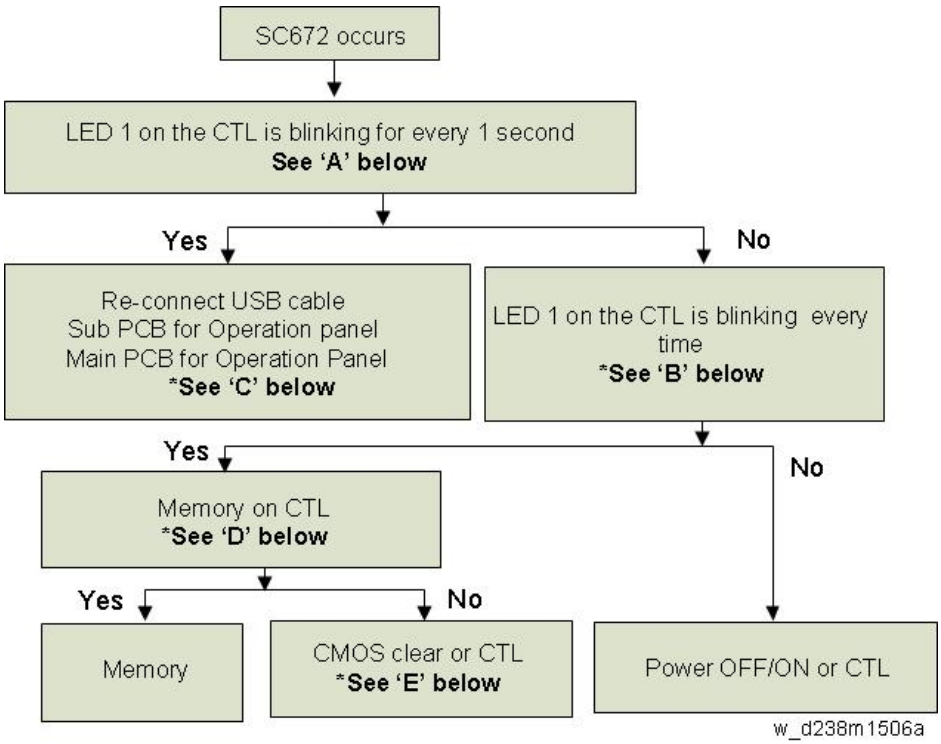
Do the following.

1. Turn the machine power OFF/ON.
2. Do the action in the flowchart below to determine the cause and best course of action when SC672 occurs.

Note

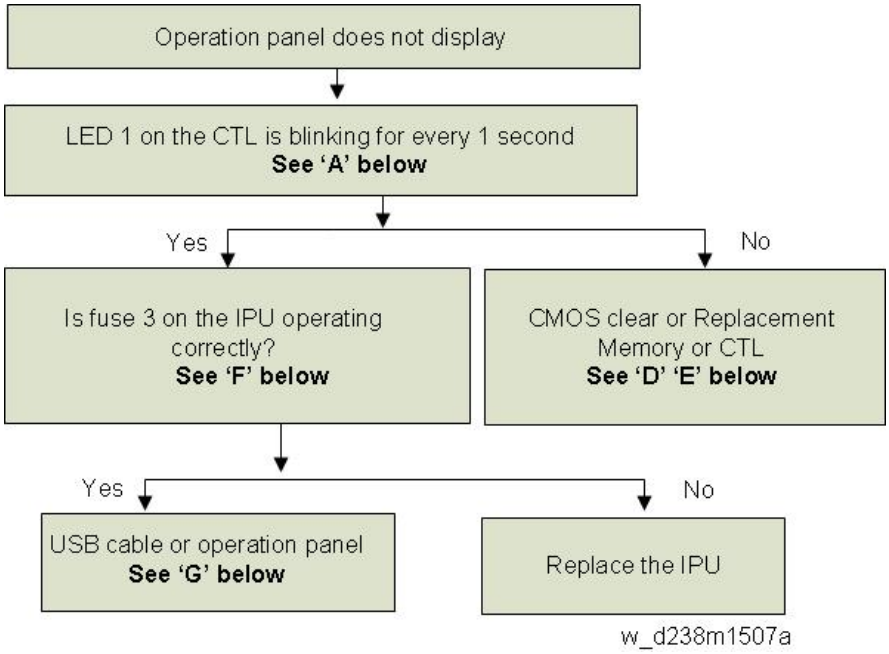
- If the SC recurs after you do the action in this flowchart, do the following.
  - If SC819 (cache error) appears in the SC history, replace the controller board.
  - If SC991 (SCS: scs time count level c') appears in the SC history, replace the controller board and USB cable.

Flowchart to determine parts to replace when SC672 occurs



Parts	How to determine the cause
USB cable	LED on CTL blinks for 1 second
Operation panel	LED on CTL blinks for 1 second
CTL	LEDs on CTL blink constantly
Memory	LEDs on CTL blink constantly

Flowchart to determine parts to replace when no display on operation panel



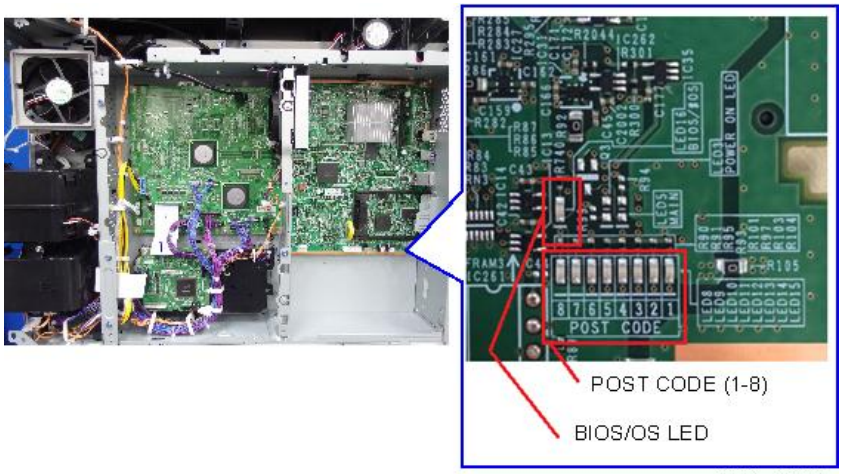
Parts	How to determine the cause
USB cable	LED on CTL blinks for 1 second
Operation panel	LED on CTL blinks for 1 second

Parts	How to determine the cause
IPU	Fuse 3 on the IPU
CTL	LED on CTL does not blink
Memory	LED on CTL does not blink

[A]: LEDs on the controller board

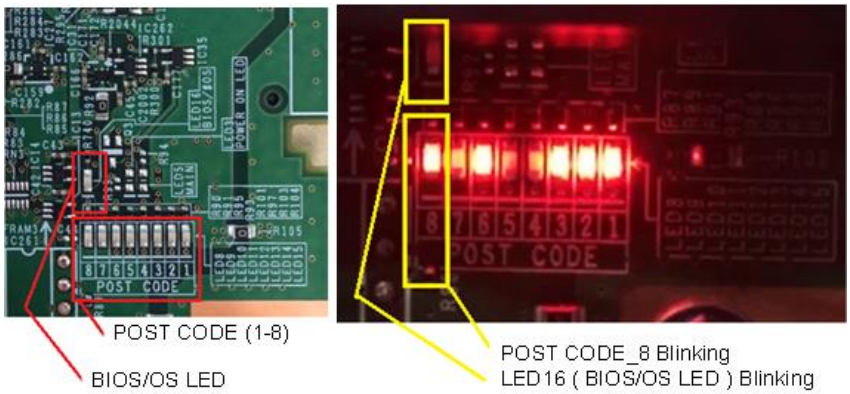
Check the condition (lit, off, blinking) of the LED on the CTL.

LED /POSTCODE AREA on the CTL



w_d238m1508b

Normal situation: POSTCODE LED 8 and BIOS LED blinking for 1 second



w_d238m1509a

No.	Note
LED	For CPU - POSTCODE 8 and LED16 **blink** when the CPU is operating normally. - POSTCODE 8 and LED16 is lit or off when there is a problem with the CPU.

[B]: Abnormal mode: LEDs on the controller board

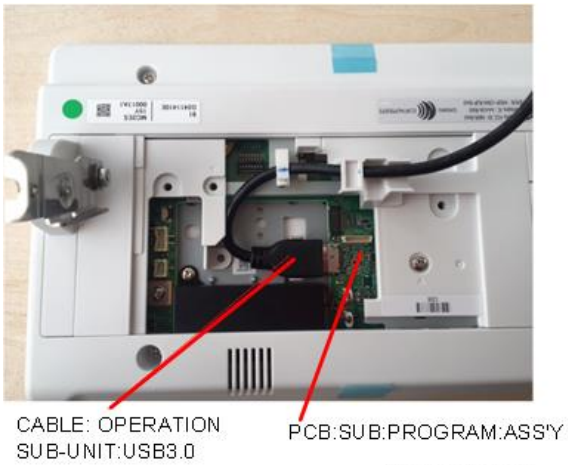
LEDs 1 to 8 blink constantly

d238m1510a

No.	Note
POSTCODE 1-8	1. For self-diagnosis code (BIOS). 2. After the BIOS starts up, LEDs 4,5,7 **turn off** and LEDs 1,2,3 ,6 **turn on** and LED 8 **blinks.** LED 8 is **lit or off** when there is a problem with the CPU.
LED 16	- LED is **lit** when the BIOS is running. - LED **blinks** when the OS is running.

[C]: Reconnecting and replacing the USB cable

1. Reconnect the USB cable between IPU board and operation panel.



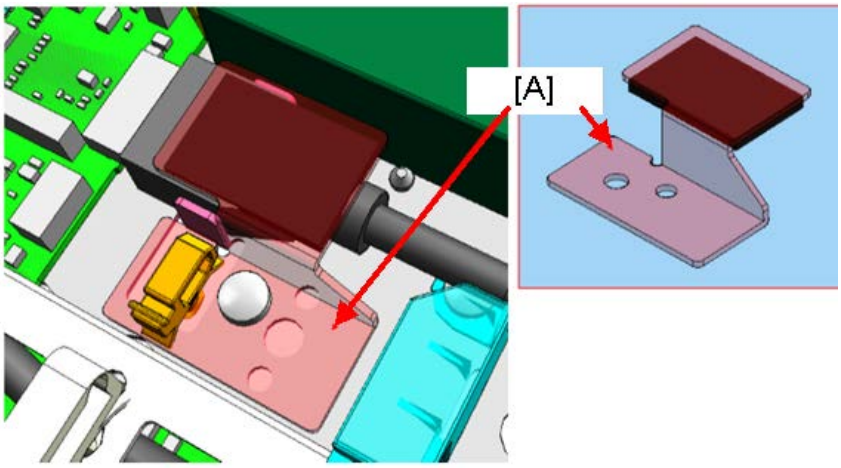
w_d238m1511a

When connecting the cable, hold the molded part of the cable as shown below so as not to apply excessive force on the connector part. Applying excessive force toward the upper direction on the connector may cause connection failure.

d238m0927a

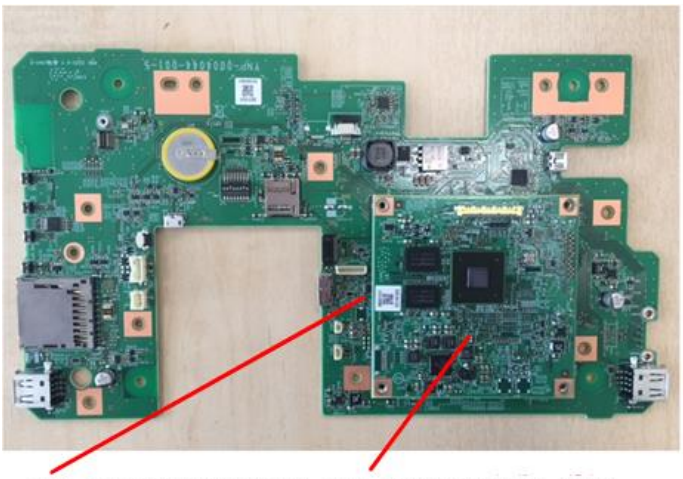
Applied to machines built in October 2016 and later:

A bracket [A] which covers the upper part of the cable will be added.



d238m0928a

PCB for the operation panel



w_d238m1512a

USB connector [B] (IPU)

d238m0879

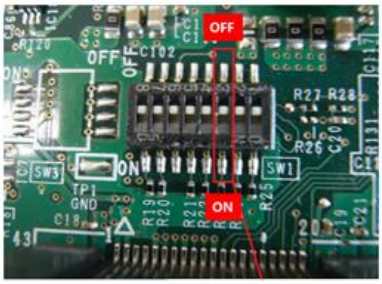
[D]: Replacing the Memory

For details about replacing the memory DIMM, refer to Controller Board

[E]: CMOS clear

1. Turn the machine power OFF.
2. Turn Dip switch 1-3 ON for 10 seconds
3. Turn Dip switch 1-3 OFF
4. Turn the machine power ON.

DipSW1



DipSW1-3 for
CMOS CLEAR

w_d238m1516a

[F]: Fuse on the IPU

Fuse on the IPU

d238m1517a

[G]: Replacing the USB cable and the operation panel

For details about replacing the USB cable, refer to USB Cable.

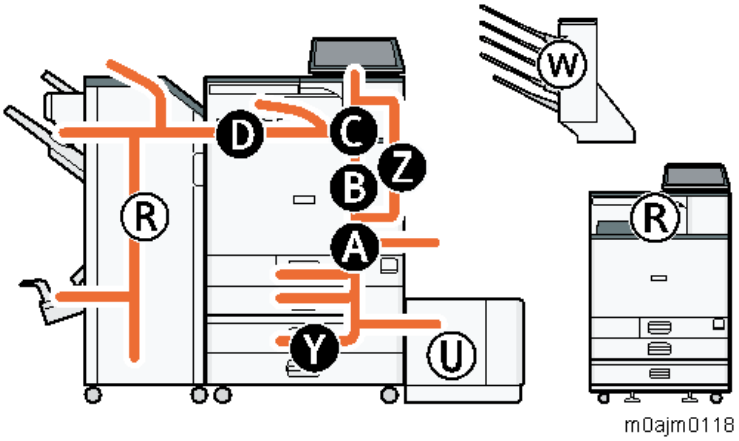
If the symptom is not resolved, escalate the issue using the normal process, together with the following information for further investigation.

- SC sub code (SC672-10 or 99)
- Date/time of problem occurrence
- Factor(s) that trigger the problem (example: SC672-11 occurred 3 minutes after tuning ON the main power switch.)
- Occurrence frequency (example: one out of ten times when turning ON the main power switch)
- Parts replaced
- Date/time when parts were replaced

Jam Detection

Jam Display

When a jam occurs, the operation panel will show a jam location diagram. An indicator on this diagram will blink to show where the jam was detected.



Clearing a Paper Jam

⚠CAUTION

- Do not touch any components except the specified parts for removing jammed paper. Some parts can burn you because they become hot during operation.

Note

- Do not turn the power off during removal of jammed paper. If you turned the power off, functions or values that were previously set will be deleted.
- Be sure not to tear paper up, and that you remove all pieces. Remaining scraps of paper in the machine could cause another paper jam or machine failure.
- If there are multiple jam locations, check all the locations that are displayed at the same time.

See the decals on the machine for how to remove jammed paper.

Paper Jam History

How to Check a Paper Jam

Plotter (print engine) jam history can be displayed using SP7-507.

- SP7-507-001 "Plotter Jam: History Latest"
- SP7-507-002 "Plotter Jam: History Latest1"
- SP7-507-003 "Plotter Jam: History Latest2"
- SP7-507-004 "Plotter Jam: History Latest3"
- SP7-507-005 "Plotter Jam: History Latest4"
- SP7-507-006 "Plotter Jam: History Latest5"

- SP7-507-007 "Plotter Jam: History Latest6"
- SP7-507-008 "Plotter Jam: History Latest7"
- SP7-507-009 "Plotter Jam: History Latest8"
- SP7-507-010 "Plotter Jam: History Latest9"

Paper Jam Display

```
CODE  :  011
SIZE  :  005
TOTAL :  0000334
DATE  :  Mon Jan 21 11:44:50 2008
```

- CODE: Indicates the jam code.
- SIZE: Indicates the paper size code.
- TOTAL: Indicates the total counter (SP7-502-001).
- DATE: Indicates the date when the jam occurred.

Note

- The jam history of the 10 latest jams is displayed.
- The first jam is not included in the history record.

Jam Codes and Display Codes

Note

- Cause code: Jam cause code displayed by log data
- Display code: Jam position displayed on control panel

Late jam

The paper has failed to arrive within the prescribed time due to a jam that has occurred upstream of the referenced sensor.

Lag jam

The paper has failed to leave the location of the referenced sensor within the prescribed time due to a jam downstream of the referenced sensor.

Stay jam

The paper is within the location of the referenced sensor.

Main Machine

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
001	Transport Sensor 1			✓	A
001	Transport Sensor 2			✓	A
001	Registration Sensor			✓	B

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
001	Fusing Entrance Sensor			✓	C
001	Fusing Exit Sensor			✓	C
001	Paper Exit Sensor			✓	C
001	Reverse Sensor			✓	C
001	Duplex Exit Sensor			✓	Z
001	Duplex Entrance Sensor			✓	Z
003	Paper not fed from tray 1	✓			A1
004	Paper not fed from tray 2	✓			A2
008	Paper not fed from bypass tray	✓			A
009	Paper not fed to duplex unit	✓			Z
096	Disappearance of the detection timing Only remaining paper position information displayed				
011	Transport Sensor 1	✓			A
012	Transport Sensor 2	✓			A
017	Registration Sensor	✓			A
018	Fusing Entrance Sensor	✓			B
019	Fusing Exit Sensor	✓			C
020	Paper Exit Sensor	✓			C
051	Transport Sensor 1 (when paper not fed from Tray 1)		✓		A
052	Transport Sensor 2		✓		A
048	Transport Sensor 1 (when paper not fed from Bypass Tray)		✓		A
057	Registration Sensor		✓		B
060	Paper Exit Sensor		✓		C
024	Reverse Sensor	✓			C
064	Reverse Sensor		✓		C
025	Duplex Exit Sensor	✓			Z
025	Duplex Exit Sensor & No Paper at Duplex Entrance Sensor	✓			Z
065	Duplex Exit Sensor		✓		Z
027	Duplex Entrance Sensor	✓			C
027	Duplex Entrance Sensor & No Paper at Reverse Sensor	✓			Z
067	Duplex Entrance Sensor		✓		A

Paper Feed Unit PB3250

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
005	Paper not fed from tray 3	✓			Y1
013	Vertical Transport Sensor (Tray 3)	✓			Y
053	Vertical Transport Sensor (Tray 3)		✓		Y
001	Vertical Transport Sensor (Tray 3)			✓	Y

Paper Feed Unit PB3240

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
005	Paper not fed from tray 3	✓			Y1
013	Vertical Transport Sensor (Tray 3)	✓			Y
053	Vertical Transport Sensor (Tray 3)		✓		Y
001	Vertical Transport Sensor (Tray 3)			✓	Y
006	Paper not fed from tray 4	✓			Y2
014	Vertical Transport Sensor (Tray 4)	✓			Y
054	Vertical Transport Sensor (Tray 4)		✓		Y
001	Vertical Transport Sensor (Tray 4)			✓	Y

Paper Feed Unit PB3240 and Paper Feed Unit PB3250 configuration (Five-tier paper tray)

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
006	Paper not fed from tray 4	✓			Y2
014	Vertical Transport Sensor (Tray 4)	✓			Y
054	Vertical Transport Sensor (Tray 4)		✓		Y
001	Vertical Transport Sensor (Tray 4)			✓	Y
007	Paper not fed from tray 5	✓			Y3
015	Vertical Transport Sensor (Tray 5)	✓			Y
058	Vertical Transport Sensor (Tray 5)		✓		Y
001	Vertical Transport Sensor (Tray 5)			✓	Y

LCIT PB3260

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
005	Paper not fed from tray 3	✓			Y1
013	Vertical Transport Sensor (Tray 3)	✓			Y
053	Vertical Transport Sensor (Tray 3)		✓		Y
001	Vertical Transport Sensor (Tray 3)			✓	Y

LCIT PB3260 and LCIT RT3030 configuration

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
005	Paper not fed from tray 3	✓			Y1
006	Paper not fed from tray 4	✓			Y2
013	Vertical Transport Sensor (Tray 3)	✓			Y
014	Vertical Transport Sensor (Tray 4	✓			Y
053	Vertical Transport Sensor (Tray 3)	✓			Y
054	Vertical Transport Sensor (Tray 4)		✓		Y
001	Vertical Transport Sensor (Tray 3)			✓	Y
001	Vertical Transport Sensor (Tray 4)			✓	Y

LCIT RT3030

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
007	Paper not fed from side LCT	✓			U1
015	Transport Sensor (Side LCT)	✓			U
058	Transport Sensor (Side LCT)		✓		U
001	Transport Sensor (Side LCT)			✓	U

Bridge Unit BU3070

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
021	Paper Exit Sensor (Bridge Unit)	✓			D
022	Relay Transport Sensor (Bridge Unit)	✓			D
061	Paper Exit Sensor (Bridge Unit)		✓		D
062	Relay Transport Sensor (Bridge Unit)		✓		D

021: RTB 38

Finisher SR3230

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
001	Entrance Sensor			✓	R1-R5
001	Horizontal Transport Sensor			✓	R1-R5
001	Switchback Transport Sensor			✓	R1-R5
001	Proof Exit Sensor			✓	R1-R5
001	Shift Exit Sensor			✓	R1-R5
001	Middle Transport Paper Sensor			✓	R1-R5
150	Entrance Sensor	✓			R1-R5
151	Entrance Sensor		✓		R1-R5

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
152	Horizontal Transport Sensor	✓			R1-R5
153	Horizontal Transport Sensor		✓		R1-R5
154	Switchback Transport Sensor	✓			R1-R5
155	Switchback Transport Sensor		✓		R1-R5
156	Proof Exit Sensor	✓			R1-R5
157	Proof Exit Sensor		✓		R1-R5
158	Shift Tray Exit Sensor	✓			R1-R5
159	Shift Tray Exit Sensor		✓		R1-R5
162	Jam in mechanisms driven by Entrance Transport Motor	✓	✓		R1-R5
163	Jam in mechanisms driven by Horizontal Transport Motor	✓	✓		R1-R5
164	Jam in mechanisms driven by Pre-stack Transport Motor	✓	✓		R1-R5
165	Jam in mechanisms driven by Transport Motor	✓	✓		R1-R5
166	Jam in mechanisms driven by Exit Motor	✓	✓		R1-R5
167	Jam in mechanisms driven by Trailing Edge Press Motor	✓	✓		R1-R5
168	Jam in mechanisms driven by Paper Exit Guide Plate Motor	✓	✓		R1-R5
169	Jam in mechanisms driven by Punch Drive Motor	✓	✓		R1-R5
170	Jam in mechanisms driven by Punch Unit Movement Motor	✓	✓		R1-R5
171	Jam in mechanisms driven by Punch Registration Motor	✓	✓		R1-R5
172	Jam in mechanisms driven by Lower Junction Gate Motor	✓	✓		R1-R5
173	Jam in mechanisms driven by Jogger Motor	✓	✓		R1-R5
174	Jam in mechanisms driven by Positioning Roller Motor	✓	✓		R1-R5
175	Jam in mechanisms driven by Feed-out Belt Motor	✓	✓		R1-R5
176	Jam in mechanisms driven by Corner Stapler Movement Motor	✓	✓		R1-R5
177	Jam in mechanisms driven by Corner Stapler Motor	✓	✓		R1-R5
185	Jam in mechanisms driven by Tray Lift Motor	✓	✓		R1-R5
186	Jam in mechanisms driven by Shift Motor	✓	✓		R1-R5
187	Jam in mechanisms driven by Front Fence Motor (mounted on Output Jogger Unit Type M25)	✓	✓		R1-R5
188	Jam in mechanisms driven by Rear Fence Motor (mounted on Output Jogger Unit Type M25)	✓	✓		R1-R5
189	Jam in mechanisms driven by Fence Lift Motor (mounted on Output Jogger Unit Type M25)	✓	✓		R1-R5
190	Jam in mechanisms driven by Return Roller Motor	✓	✓		R1-R5
191	Jam in mechanisms driven by Edge Guide Motor	✓	✓		R1-R5
192	Jam in mechanisms driven by Positioning Roller Motor	✓	✓		R1-R5
193	Jam in mechanisms driven by Paper Guide Motor	✓	✓		R1-R5

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
194	Main instruction data defect	✓	✓		R1-R5

Booklet Finisher SR3220/ Finisher SR3210

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
200	Jam in Paper Entrance	✓			R1-R4
201	Jam in Paper Entrance		✓		R1-R4
202	Jam in Proof Exit	✓			R1-R4
203	Jam in Proof Exit		✓		R1-R4
204	Jam in Intermediate transport (right)	✓			R1-R4
205	Jam in Intermediate transport (left)	✓			R1-R4
206	Jam in Intermediate transport (left)		✓		R1-R4
207	Jam in Shift Exit	✓			R1-R4
208	Jam in Shift Exit		✓		R1-R4
209	Jam in Stack Transport	✓			R5-R10
210	Jam in Rear Edge Stopper Transport	✓			R5-R10
211	Jam in Rear Edge Stopper Transport		✓		R5-R10
212	Jam in Paper did not reach middle folding exit	✓			R5-R10
213	Jam in Middle Folding exit		✓		R5-R10
220	Jam in mechanisms driven by Entrance Transport Motor	✓	✓	✓	R1-R4
221	Jam in mechanisms driven by Proof Transport Motor	✓	✓	✓	R1-R4
222	Jam in mechanisms driven by Paper Exit Transport Motor, Positioning Roller Motor, and Approach Roller Motor	✓	✓	✓	R1-R4
223	Jam in mechanisms driven by Shift Motor	✓	✓	✓	R1-R4
224	Jam in mechanisms driven by Jogger Motor	✓	✓	✓	R1-R4
225	Jam in mechanisms driven by Paper Exit Guide Plate Open/Closed Motor	✓	✓	✓	R1-R4
226	Jam in mechanisms driven by Feed-out Belt Motor	✓	✓	✓	R1-R4
227	Jam in mechanisms driven by Tray Lift Motor	✓	✓	✓	R1-R4
228	Jam in mechanisms driven by Positioning Roller Motor	✓	✓	✓	R1-R4
229	Jam in mechanisms driven by Stapler Transfer Motor (Staple)	✓	✓	✓	R1-R4
230	Jam in mechanisms driven by Stapler Unit Displacement	✓	✓	✓	R1-R4

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
	Motor				
231	Jam in Punch Unit	✓	✓	✓	R1-R4
232	Jam in Paper Folding Unit	✓	✓	✓	R5-R10
233	Jam in mechanisms driven by Edge Stopper Motor	✓	✓	✓	R5-R10
234	Jam in mechanisms driven by Folding Blade Motor	✓	✓	✓	R5-R10
235	Jam in mechanisms driven by Paper Exit Guide Drive Motor	✓	✓	✓	R1-R4
236	Jam in mechanisms driven by Stapler Transfer Motor (Stapleless)	✓	✓	✓	R1-R4
237	Jam in mechanisms driven by Stapleless Stapler Drive Motor	✓	✓	✓	R1-R4
238	Jam in mechanisms driven by Paper Guide Motor	✓	✓	✓	R1-R4
248	Paper exit end is not responding	✓	✓	✓	R1-R4
249	Main instruction data defect	✓	✓	✓	R1-R4

Internal Multi-fold Unit FD3000

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
350	Registration sensor	✓			N1
351	Registration sensor		✓		N1
352	1st Fold sensor	✓			N1
353	1st Fold sensor		✓		N4-N5
354	2nd Fold Sensor	✓			N2-N3
355	2nd Fold Sensor		✓		N2-N3
356	Crease Sensor	✓			N2-N3
357	Crease Sensor		✓		N2-N3
358	Folder Tray Exit Sensor	✓			N4-N5
359	Folder Tray Exit Sensor		✓		N4-N5
360	Horizontal Path Exit Sensor	✓			N4-N5
361	Horizontal Path Exit Sensor		✓		N4-N5
370	Jam in mechanisms driven by Registration Motor	✓	✓	✓	N1
371	Jam in mechanisms driven by JG Crease Motor	✓	✓	✓	N4-N5
372	Jam in mechanisms driven by Transport Motor	✓	✓	✓	N4-N5
373	Jam in mechanisms driven by 1st Fold Motor	✓	✓	✓	N2-N3
374	Jam in mechanisms driven by 2nd Fold Motor	✓	✓	✓	N2-N3
375	Jam in mechanisms driven by JG Crease Motor	✓	✓	✓	N2-N3
398	Paper exit end is not responding	✓	✓		N1
399	Main instruction data defect	✓	✓		N1

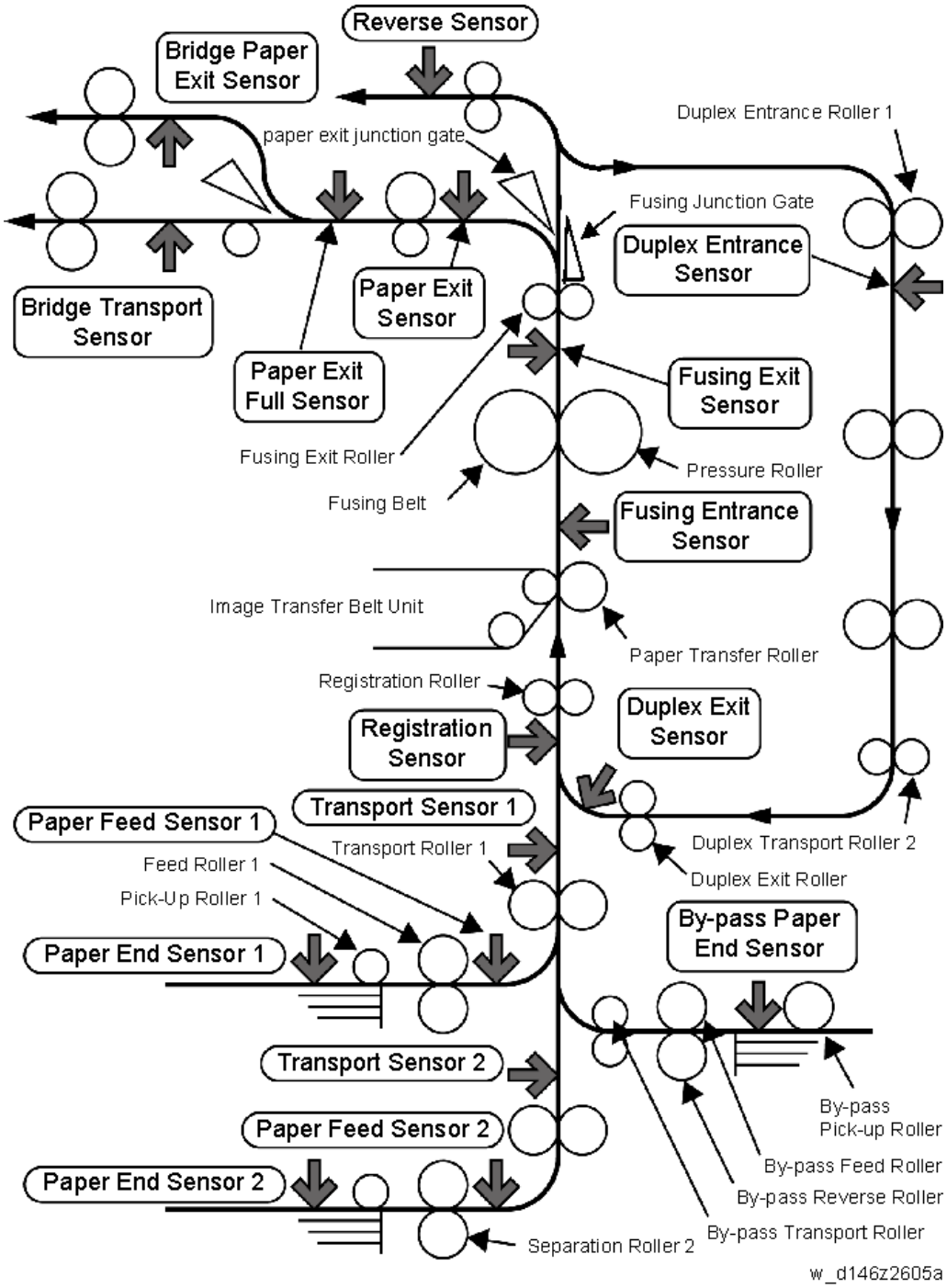
Mail Box CS3010

Cause code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Display code
001	Paper Entrance Sensor			✓	W1-W2
001	Paper Transport Sensor 1			✓	W2
001	Paper Transport Sensor 2			✓	W2
400	Paper Entrance Sensor	✓			W1-W2
401	Paper Entrance Sensor		✓		W1-W2
402	Paper Transport Sensor 1	✓			W2
403	Paper Transport Sensor 1		✓		W2
404	Paper Transport Sensor 2	✓			W2
405	Paper Transport Sensor 2		✓		W2
408	Paper exit end is not responding			✓	W2
409	Main instruction data defect			✓	W2

Paper Size Code

Size Code	Paper Size
005	A4 LEF
006	A5 LEF
014	B5 LEF
038	LT LEF
044	HLT LEF
132	A3 SEF
133	A4 SEF
134	A5 SEF
141	B4 SEF
142	B5 SEF
160	DLT SEF
164	LG SEF
166	LT SEF
172	HLT SEF
255	Others

Sensor Locations



Troubleshooting for Transport/Paper Feeding of the Machine

Curled Paper

Make sure that the following SPs are set to their default values, and keep them at these values at all times.

- **SP1-113-001 (Curl Correction): Keep at default value of 0 (OFF)**
  This is because printing productivity drops to about 65 to 80% when this SP is ON. It is not effective in reducing curl on these models.
- **SP1-115-xxx (Print Target Temp): Keep at default value.**
  This is because fusing offset may occur when the fusing temperature is reduced. This SP is not effective for improving image quality on these models.

Solution:

Install the tray heaters for the mainframe paper tray and optional paper trays. (Anti-Condensation Heater for Paper Feed Trays)

Initial Jam

If the error occurs periodically, do the following steps. If the result is as shown in the "Problem Judgement" column, follow the solutions.

Initial Jam: Cause Code 001 / Location Code A

Target Part/SP No.: Transport Sensor (1st Feed Tray) / SP5-803-003 (Transport Sensor 1)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Transport Sensor (2nd Feed Tray) / SP5-803-005 (Transport Sensor 2)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Initial Jam: Cause Code 001 / Location Code B

Target Part/SP No.: Registration Sensor / SP5-803-001

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Initial Jam: Cause Code 001 / Location Code C

Target Part/SP No.: Fusing Entrance Sensor / SP5-803-006

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Fusing Exit Sensor / SP5-803-007

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected

Cause verification	Problem Judgement
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Exit Sensor / SP5-803-008

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Reverse Sensor / SP5-803-009 (Inverter Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Initial Jam: Cause Code 001 / Location Code Z

Target Part/SP No.: Duplex Entrance Sensor / SP5-803-011

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Duplex Exit Sensor / SP5-803-010

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Jam

If the error occurs periodically, do the following steps. If the result is as shown in the "Problem Judgement" column, follow the solutions.

Tray 1 No Feeding: Late Jam: Cause Code 003

Target Part/SP No.: Upper Limit Sensor (1st Feed Tray) / SP5-803-014 (Tray 1: Upper Limit Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Limit
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Not limit

Solution:

- Clean the sensor.

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper End Sensor (1st Feed Tray) / SP5-803-015 (Tray 1: Paper End Detection)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Feeler for 1st paper end sensor

Cause verification	**Solution**
Check if the feeler for 1st paper end sensor is unfastened.	Feeler is unfastened.

Solution:

- Reinstall the feeler.
- Check if there are any defects in the 1st paper feed unit.

Target Part/SP No.: Tray Set Switch (1st Feed Tray) / SP 5-803-016 (Tray 1: Set Sensor)

Cause verification	Problem Judgement
Manually press the referenced switch (Done after removing paper feed tray 1 from the machine.)	1: Not set
Pull out paper feed tray 1 from the machine	0: Set

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Sensor (1st Feed Tray) / SP5-803-002 (Paper Feed Sensor 1)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Motor / SP5-804-016 (Feed Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper status, pick-up roller, feed roller, and friction roller for the 1st feed tray

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned according to the manual.)	• Check the paper orientation. • Turn the paper in the feed tray upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if the sheets are stuck to each other due to edge roughness, coating, stain, or temperature.	Fan the paper.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use supported paper types.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if the paper feed tray is not stained with paper dust.	Clean the paper feed tray.
Check if the paper roller is not stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for the 1st feed tray.

Tray 2 No Feeding: Late Jam: Cause Code 004

Target Part/SP No.: Upper Limit Sensor (2nd Feed Tray) / SP5-803-018 (Tray 2: Upper Limit Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Limit
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Not limit

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper End Sensor (2nd Feed Tray) / SP5-803-019 (Tray 2: Paper End Detection)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Feeler for 2nd paper end sensor

Cause verification	**Solution**
Check if the feeler for 2nd paper end sensor is unfastened.	Feeler is unfastened.

Solution:

- Reinstall the feeler.
- Check if there are any defects in the 2nd paper feed unit.

Target Part/SP No.: Tray Set Switch (2nd Feed Tray) / SP 5-803-020 (Tray 2: Set Sensor)

Cause verification	Problem Judgement
Manually press the referenced switch (Done after removing paper feed tray 2 from the machine.)	1: Not set
Pull out the paper feed tray 2 from the machine.	0: Set

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Sensor (2nd Feed Tray) / SP5-803-004 (Paper Feed Sensor 2)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Motor / SP5-804-016 (Feed Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper status, pick-up roller, feed roller, and friction roller for the 2nd feed tray

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned according to the manual.)	• Check the paper orientation. • Turn the paper in the feed tray upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if the sheets are stuck to each other due to edge roughness, coating, stain, or temperature.	Fan the paper
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use supported paper types.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the

	correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if the paper roller is not stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for the 2nd feed tray.

Bypass No Feeding: Cause Code 008

Target Part/SP No.: Bypass/Duplex motor / SP5-804-071 (Duplex Bypass Motor: CW: Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT	Drive sound heard
Turn the referenced motor ON with OUTPUT	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper status, pick-up roller, feed roller, and friction roller for the bypass tray

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned according to the manual.)	• Check the paper orientation. • Turn the paper in the feed tray upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if the sheets are stuck to each other due to edge roughness, coating, stain, or temperature.	Fan the paper
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if the paper roller is stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for bypass tray.

Tray 1 Transport Sensor: Late Jam: Cause Code 011

Target Part/SP No.: Transport Sensor (1st Feed Tray) / SP5-803-003 (Transport Sensor 1)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not

Cause verification	Problem Judgement
	detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Sensor (1st Feed Tray) / SP5-803-002 (Paper Feed Sensor 1)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Bypass pick-up Solenoid / SP5-803-016 (Bypass Pickup Solenoid)

Cause verification	Problem Judgement
Turn the referenced solenoid OFF with OUTPUT check	Drive sound heard
Turn the referenced solenoid ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the solenoid.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper status, pick-up roller, feed roller, and friction roller for the 1st feed tray

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned according to the manual.)	• Check the paper orientation. • Turn the paper in the feed tray upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if the sheets are stuck to each other due to edge roughness,	Fan the paper

coating, stain, or temperature.	
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if the paper roller is not stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for 1st feed tray.

Tray 2 Transport Sensor: Late Jam: Cause Code 012

Target Part/SP No.: Transport Sensor (2nd Feed Tray) / SP5-803-005 (Transport Sensor 2)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Sensor (2nd Feed Tray) / SP5-803-004 (Paper Feed Sensor 2)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper status, pick-up roller, feed roller, and friction roller for the 2nd feed tray

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned	• Check the paper orientation. • Turn the paper in the feed tray

according to the manual.)	upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if the sheets are stuck to each other due to edge roughness, coating, stain, or temperature.	Fan the paper.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if the paper roller is not stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for the 2nd feed tray.

Registration Sensor: Late Jam: Cause Code 017

Target Part/SP No.: Registration Sensor / SP5-803-001

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper status, or 1st paper transport roller.

Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper feed tray is not stained with a lot of paper dust.	Clean the 1st transport roller.

Fusing Entrance Sensor: Late Jam: Cause Code 018

Target Part/SP No.: Fusing Entrance Sensor / SP5-803-011

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced	0: Paper detected

Cause verification	Problem Judgement
sensor.	
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: PCU: Black/ITB Drive Motor / SP5-804-136 (Transfer Drum Motor K: Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Imaging IOB.
- Replace the harness.

Checking paper jam, or fusing unit status

Check if there is no double feeding.	Fan the paper.
Check the edges of the discharge plate to see if it is deformed or broken.	Reattach or replace the discharge plate.

Fusing Exit Sensor: Late Jam: Cause Code 019

Target Part/SP No.: Fusing Exit Sensor / SP5-803-011 (Duplex Entrance Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.

- Replace the harness.

Target Part/SP No.: Fusing Motor / SP5-804-092 (Fusing Motor: CW: Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Imaging IOB.
- Replace the harness.

Checking paper jam, or fusing unit status

Check if there is no double feeding.	Fan the paper.
Check if the margin of the leading edge of paper is too narrow.	Adjust the margin at the leading edge of paper with SPs.
Check if the paper is a non-recommended type, e.g., inkjet paper.	Replace the paper.
Check if the gap between the fusing stripper plate and fusing sleeve belt is too wide, caused by deformation of the plate.	Replace the fusing stripper plate.
Check if there is toner and/or paper dust on the surfaces of the fusing sleeve belt and pressure roller.	Clean the fusing belt.
Check if the setting values, e.g. fusing temperature, are higher than the initial values.	Reset the SP values to the initial values.

Paper Exit Sensor: Late Jam: Cause Code 020

Target Part/SP No.: Paper Exit Sensor / SP5-803-008

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness

Target Part/SP No.: Paper Exit Solenoid / SP5-804-004 (Exit Junction Solenoid)

Cause verification	Problem Judgement
Turn the referenced solenoid OFF with OUTPUT check	Drive sound heard
Turn the referenced solenoid ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the solenoid.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if the leading edge of the paper and the paper feed guide are wet.	If condensation has occurred inside the machine, leave the machine idle for a few minutes to remove condensation.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Tray 1 Transport Sensor: Lag Jam: Cause Code 051

Target Part/SP No.: Transport Sensor (1st Feed Tray) / SP5-803-003 (Transport Sensor 1)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Motor / SP5-804-016 (Feed Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Transport Motor / SP5-804-028

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Reverse Motor / SP5-804-047 (Inverter Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Bypass Length Sensor / SP5-803-024 (By-pass: Sub Scan Length Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned according to the manual.)	• Check the paper orientation. • Turn the paper in the feed tray upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if there is no double feeding.	Fan the paper.
Check if the paper feed tray is not stained with a lot of paper dust.	Clean the paper feed tray.
Check if the paper roller is not stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for 1st feed tray.

Tray 2 Transport Sensor: Lag Jam: Cause Code 052

Target Part/SP No.: Transport Sensor (2nd Feed Tray) / SP5-803-005 (Transport Sensor 2)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Feed Motor / SP5-804-016 (Feed Motor:CW:Standard Speed)

Cause Verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.

- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Transport Motor / SP5-804-028

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check the paper position (Check whether or not the leading edge of the paper, side paper guide, and end paper guide are positioned according to the manual.)	• Check the paper orientation. • Turn the paper in the feed tray upside down.
Check if the paper has reached the maximum stackable limit of the side paper guide.	Reduce the paper to below the stackable limit.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.
Check if the paper being used produces a lot of paper dust.	Change the paper type (if possible).
Check if there is no double feeding.	Fan the paper.
Check if the paper feed tray is not stained with a lot of paper dust.	Clean the paper feed tray.
Check if the paper roller is not stained with paper dust.	Clean the pick-up roller, feed roller, and friction roller for 2nd feed tray.

Registration Sensor: Lag Jam: Cause Code 057

Target Part/SP No.: Registration Sensor / SP5-803-001

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.

- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Bypass/Duplex Motor / SP5-804-071 (Duplex Bypass Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Reverse Motor / SP5-804-047 (Inverter Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if there is no double feeding.	Fan the paper.

Paper Exit Sensor: Lag Jam: Cause Code 060

Target Part/SP No.: Paper Exit Sensor / SP5-803-008

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if the leading edge of the paper and the paper feed guide are wet.	If condensation has occurred inside the machine, leave the machine idle for a few minutes to remove condensation.
Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Reverse Sensor: Late Jam: Cause Code 024

Target Part/SP No.:Reverse Sensor / SP5-803-009 (Inverter Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Reverse Motor / SP5-804-047 (Inverter Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Exit Solenoid / SP5-804-004 (Exit Junction Solenoid)

Cause verification	Problem Judgement
Turn the referenced solenoid OFF with OUTPUT check	Drive sound heard

Cause verification	Problem Judgement
Turn the referenced solenoid ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the solenoid.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if the leading edge of the paper and the paper feed guide are wet.	If condensation has occurred inside the machine, leave the machine idle for a few minutes to remove condensation.
Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Reverse Sensor: Lag Jam : Cause Code 064

Target Part/SP No.: Reverse Sensor / SP5-803-009 (Inverter Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Duplex Entrance Motor / SP5-804-065 (Duplex Entrance Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if the leading edge of the paper and the paper feed guide are wet.	If condensation has occurred inside the machine, leave the machine idle for a few minutes to remove condensation.
Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Duplex Exit Sensor: Late Jam: Cause Code 025

Target Part/SP No.: Duplex Exit Sensor / SP5-803-010

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Bypass/Duplex Motor / SP5-804-071 (Duplex Bypass Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.

- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Duplex Exit Sensor: Lag Jam: Cause Code 065

Target Part/SP No.: Duplex Exit Sensor / SP5-803-010

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Duplex Entrance Sensor: Late Jam: Cause Code 027

Target Part/SP No.: Duplex Entrance Sensor / SP5-803-011

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Duplex Entrance Motor / SP5-804-065 (Duplex Entrance Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Exit Solenoid / SP5-804-004 (Exit Junction Solenoid)

Cause verification	Problem Judgement
Turn the referenced solenoid OFF with OUTPUT check	Drive sound heard

Solution:

- Reconnect the connector.
- Replace the solenoid.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.

Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Duplex Entrance Sensor: Lag Jam: Cause Code 067

Target Part/SP No.: Duplex Entrance Sensor / SP5-803-011

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Duplex Entrance Motor/ SP5-804-065 (Duplex Entrance Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Duplex/ Bypass Motor / SP5-804-071 (Duplex Bypass Motor:CW:Standard Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Duplex Not Feeding: Cause Code 009

Target Part/SP No.: Registration Sensor / SP5-803-001 (Registration Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	0: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	1: Paper not detected

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Checking paper jam, or paper status

Check if there is no double feeding.	Fan the paper.
Check if the paper is curled too much.	If the paper is curled too much, switch on the anti-condensation heater for paper tray.
Check if extra thin paper or thick paper exceeding the supported paper thickness is being used.	Use a supported paper type.
Check if the paper thickness and size are detected correctly.	Set the paper thickness and size to the correct value.

Bypass Transport Sensor 1: Lag Jam: Cause Code 048

Target Part/SP No.: Transport Sensor (1st Feed Tray) / SP5-803-003 (Transport Sensor 1)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Transport Motor / SP5-804-028 (Bypass V-Transport Motor: CW: Std Speed)

Cause verification	Problem Judgement
Turn the referenced motor OFF with OUTPUT check	Drive sound heard
Turn the referenced motor ON with OUTPUT check	Drive sound not heard

Solution:

- Reconnect the connector.
- Replace the motor.
- Replace the Paper Transport IOB.
- Replace the harness.

Display Error

"No paper in Tray 1" is displayed even when there is paper

Target Part/SP No.: Paper End Sensor (1st Feed Tray) / SP5-803-015 (Tray 1: Paper End Detection)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Feeler for 1st paper end sensor

Cause verification	Problem Judgement
Check if the feeler for 1st paper end sensor is unfastened.	Feeler is unfastened.

Solution:

- Reinstall the feeler.
- Check if there are any defects in the 1st paper feed unit.

"No paper in Tray 2" is displayed even when there is paper

Target Part/SP No.: Paper End Sensor (2nd Feed Tray) / SP5-803-019 (Tray 2: Paper End Detection)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Paper detected
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Paper not detected

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Feeler for 2nd paper end sensor

Cause verification	Problem Judgement
Check if the feeler for 2nd paper end sensor is unfastened.	Feeler is unfastened.

Solution:

- Reinstall the feeler.
- Check if there are any defects in the 2nd paper feed unit.

"Tray 1 not set" is displayed even when the tray is set

Target Part/SP No.: Tray Set Switch (1st Feed Tray) / SP5-803-016 (Tray 1: Set Sensor)

Cause verification	Problem Judgement
Manually press the referenced switch (Done after detaching paper feeding tray 1 from the machine.)	1: Not set
Pull out paper feed tray 1 from the machine.	0: Set

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

1st Paper Feed Tray

Cause verification	Solution
Check the 1st tray set sensor to see if there are any defects.	Replace the 1st paper feed tray.

"Tray 2 not set" is displayed even when the tray is set

Target Part/SP No.: Tray Set Switch (2nd Feed Tray) / SP5-803-020 (Tray 2: Set Sensor)

Cause verification	Problem Judgement
Manually press the referenced switch (Done after detaching paper feeding tray 2 from the machine.)	1: Not set
Pull out paper feed tray 2 from the machine.	0: Set

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

2nd Paper Feed Tray

Cause verification	Solution
Check the 2nd tray set sensor to see if there are any defects.	Replace the 2nd paper feed tray.

Wrong paper size displayed on the operation panel

Target Part/SP No.: Size Switch (2nd Feed Tray) / SP5-803-021 (Tray 2: Size Sensor)

Cause verification	Problem Judgement
Press the 1st switch from the right on the size switch of paper feed tray 2 when seen from the front of the machine (Done after detaching paper feed tray 2)	Parameter other than 00000111
Press the 2nd switch from the right on the size switch of paper feed tray 2 when seen from the front of the machine (Done after detaching paper feed tray 2)	Parameter other than 00001011
Press the 3rd switch from the right on the size switch of paper feed tray 2 when seen from the front of the machine (Done after detaching paper feed tray 2)	Parameter other than 00001101
Press the 4th switch from the right on the size switch of paper feed tray 2 when seen from the front of the machine (Done after detaching paper feed tray 2)	Parameter other than 00001110
Pull out paper feed tray 2 from the machine.	Parameter other than 00001111

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

2nd Paper Feed Tray

Cause verification	Solution
Check the 2nd tray size switch to see if there are any defects.	Replace the 2nd paper feed tray.

Does not shift to right door open status

Target Part/SP No.: Right Door Open/Closed Switch / SP5-803-026 (Right Door Open/Close Sensor)

Cause verification	Problem Judgement
Manually press the referenced switch (Done after opening the right door)	1: Open
Open the right door	0: Closed

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Duplex Unit Open/Closed Sensor / SP5-803-027 (Tray Full Exit Sensor)

Cause verification	Problem Judgement
Manually press the referenced switch (Done after opening the duplex guide plate)	1: Open
Open the duplex guide plate.	0: Closed

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Pick-up Arm

Cause verification	Solution
Check the switch for the pick-up arm to see if there are any defects.	Replace the 2nd paper feed tray (the pick-up arm).

Cannot detect paper exit full

Target Part/SP No.: Paper Exit Full Sensor / SP5-803-012 (Tray Full Exit Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Full
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Not full

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.

- Replace the harness.

Feeler for Paper Exit Full Sensor

Cause verification	Problem Judgement	Solution
Check if the feeler for paper exit full detection is unfolded at the operating position. (Check that it is not folded.)	The feeler is not in the operating position.	Unfold the feeler.
Check if the feeler for paper exit full detection is unfastened.	Feeler is unfastened.	Reattach the feeler.

Cannot print as paper exit full alert cannot be turned off

Target Part/SP No.: Paper Exit Full Sensor / SP5-803-012 (Tray Full Exit Sensor)

Cause verification	Problem Judgement
Execute an INPUT check when there is no paper at the position of the referenced sensor.	1: Full
Execute an INPUT check when there is paper at the position of the referenced sensor.	0: Not full

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Feeler for Paper Exit Full Sensor

Cause verification	Solution
Check if the operation of the feeler for the paper exit full sensor is prevented due to the presence of foreign material.	Remove the cause of the malfunction.

Others

If the error occurs periodically, do the following steps. If the result is as shown in the "Problem Judgement" column, follow the solutions.

"Replace the waste toner bottle" is displayed even when it is clear that the waste toner bottle is not full

Target Part/SP No.: Waste Toner Bottle Full Sensor / SP5-803-032 (Toner Collection Full Sensor)

Cause verification	Problem Judgement
Execute an INPUT check with no feeler in the sensor detection range (Done after detaching the waste toner bottle)	1: Full

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.

- Replace the Imaging IOB.
- Replace the harness.

Waste toner bottle is never full

Target Part/SP No.: Waste Toner Bottle Full Sensor / SP5-803-032 (Toner Collection Full Sensor)

Cause verification	Problem Judgement
Execute an INPUT check with feeler within the sensor detection range (Done after removing the waste toner bottle)	0: Not full

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Imaging IOB.
- Replace the harness.

No waste toner bottle set is displayed on controller board even when it is clear that is set

Target Part/SP No.: Waste Toner Bottle Set Sensor / SP5-803-033 (Toner Collection Bottle Set Sensor)

Cause verification	Problem Judgement
Execute an INPUT check with the feeler within the sensor detection range (Done after removing the waste toner bottle)	1: Not set

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Imaging IOB.
- Replace the harness.

Waste toner bottle is not detected even when it is set

Target Part/SP No.: Waste Toner Bottle Set Sensor / SP5-803-033 (Toner Collection Bottle Set Sensor)

Cause verification	Problem Judgement
Detach the waste toner bottle from the machine.	0: Set

Solution:

- Reconnect the connector.
- Replace the sensor.
- Replace the Imaging IOB.
- Replace the harness.

Paper Transfer Unit Open/Closed LED not lit & Paper Transfer Unit Open

Target Part/SP No.: PTR Open/Closed Sensor / SP5-803-028

Cause verification	Problem Judgement
Execute an INPUT check with an object (e.g. paper) placed within the sensor detection range.	1: Closed
Execute an INPUT check without an object (e.g. paper) placed within the sensor detection range.	0: Open

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Paper Transfer Unit Open/Closed LED not lit

Target Part/SP No.: Paper Transfer Unit Open/Closed LED / SP5-804-206 (PTR Open/Close LED)

Cause verification	Problem Judgement
Turn ON the paper transfer unit open/closed LED with OUTPUT check	1: Closed
Execute an OUTPUT check without an object (e.g. paper) placed within the sensor detection range.	0: Open

Solution:

- Clean the LED.
- Reconnect the connector.
- Replace the LED.
- Replace the Paper Transport IOB.
- Replace the harness.

Paper Transfer Unit Open/Closed LED always lit

Target Part/SP No.: PTR Open/Closed Sensor / SP5-803-028

Cause verification	Problem Judgement
Execute an INPUT check with an object (e.g. paper) placed within the sensor detection range	1: Closed
Execute an INPUT check without an object (e.g. paper) placed within the sensor detection range	0: Open

Solution:

- Clean the sensor.
- Reconnect the connector.
- Replace the sensor.
- Replace the Paper Transport IOB.
- Replace the harness.

Target Part/SP No.: Paper Transfer Unit Open/Closed LED / SP5-804-206 (PTR Open/Close LED)

Cause verification	Problem Judgement
Turn OFF the paper transfer unit open/closed LED with OUTPUT check	LED lit

Solution:

- Clean the LED.
- Reconnect the connector.
- Replace the LED.
- Replace the Paper Transport IOB.
- Replace the harness.

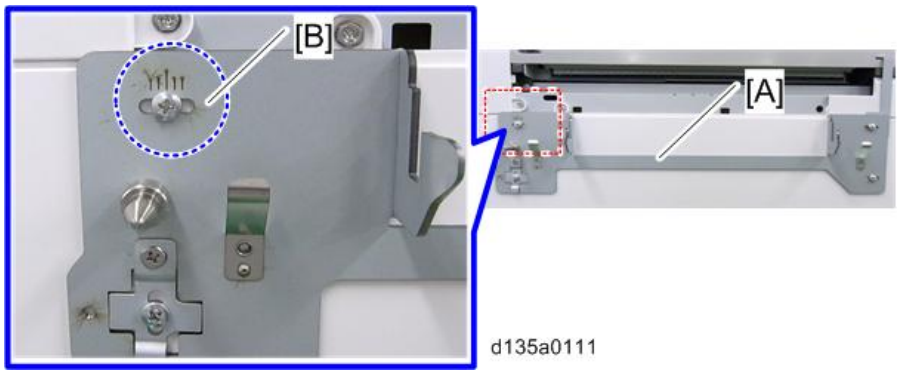
Troubleshooting for Finishing Options

Finisher Registration Adjustment

A side-to-side registration error can be produced when the paper is being fed from the mainframe to the finisher.

For Finisher SR3230

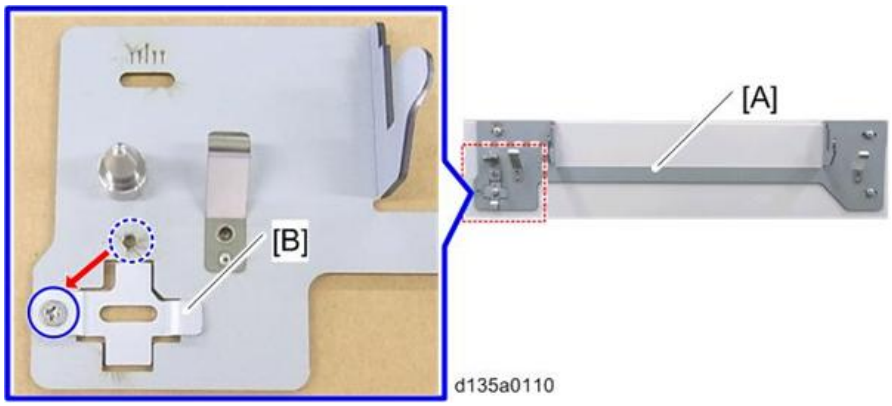
The docking bracket for SR3230 [A] (and its screw [B]) can adjust the side-to-side registration.



To adjust the side-to-side registration:

Change the position of the standard bracket [B] by rotating it 90 degrees as shown by the arrow. This makes the docking bracket [A] easier to slide horizontally.

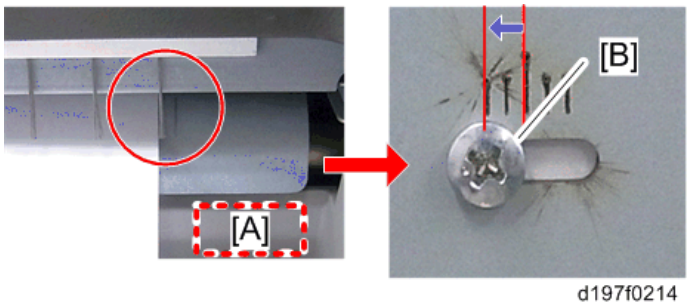
Then reattach the docking bracket [A] to the mainframe.



If the paper shifts towards the front

Slide the docking bracket towards the front side by the amount of shift, to move the finisher in the same direction.

e.g.: When the paper has shifted by 4 mm towards the front from the center mark (2 mm/division of the scale), move the docking bracket towards the front by 4 mm (2 divisions). The divisions move towards the rear.



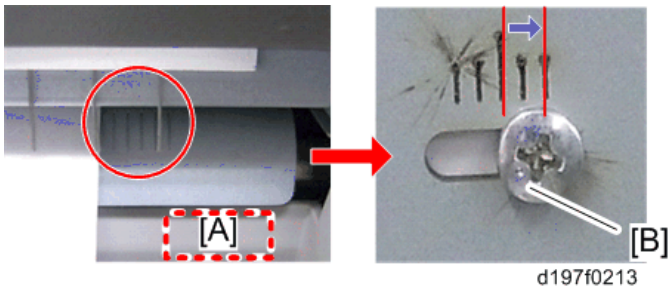
[A]: Proof tray

[B]: Docking Bracket Screw

If the paper shifts towards the rear

Slide the docking bracket towards the rear by the amount of shift, to move the finisher in the same direction.

e.g.: When the paper has shifted by 4 mm towards the rear from the center mark (2 mm/division of the scale), move the docking bracket towards the rear by 4 mm (2 divisions). The divisions move towards the front.



[A]: Proof tray

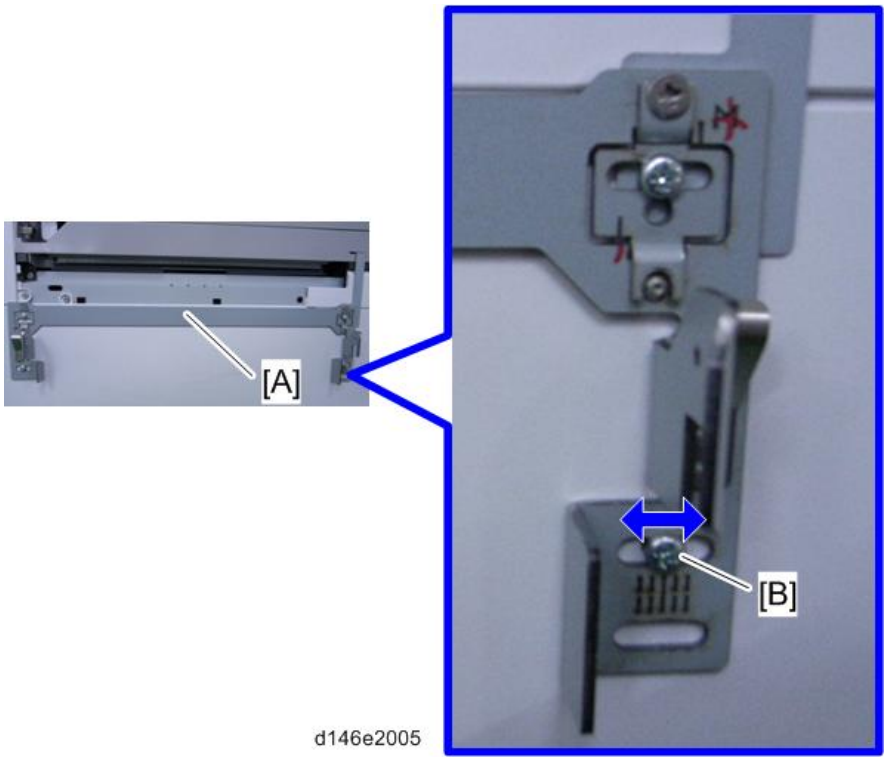
[B]: Docking Bracket Screw

Note

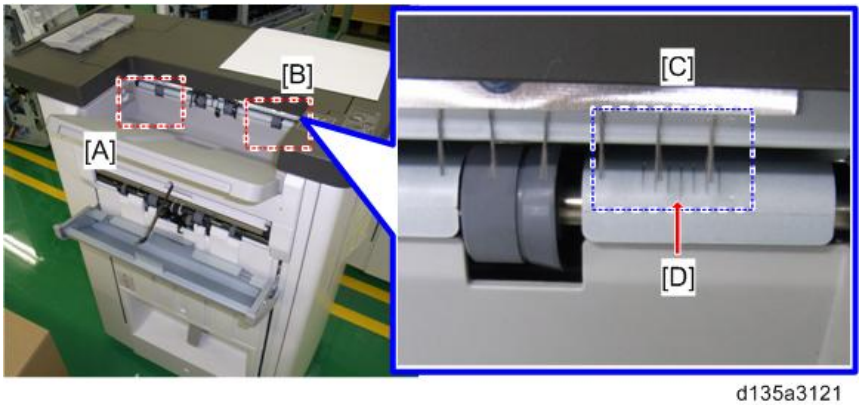
- After the adjustment, check the side-to-side registration by feeding paper out to the proof tray. If the shift has not been solved, adjust the docking bracket (screw for the docking bracket) slightly again.

For Booklet Finisher SR3220 or Finisher SR3210

Side-to-side registration can be adjusted by the docking bracket for SR3220 or SR3210 [A] (and the docking bracket screw [B]).



1. Eject a sheet of A4 (LEF) or A3 paper to the proof tray and check for how many divisions of the scale the edge of the paper has shifted from the center.



[A]: Scale marks for DLT

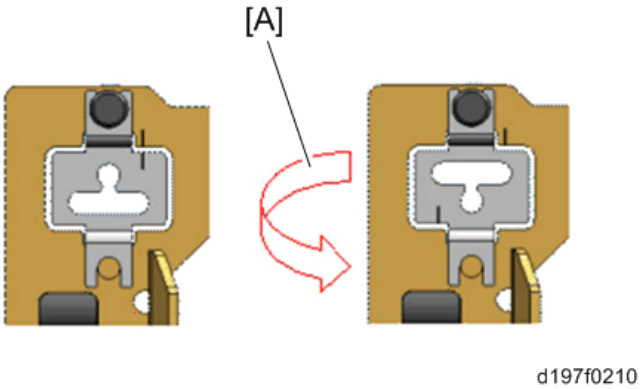
[B]: Scale marks for A3

[C]: 7 scale marks in 2mm intervals

[D]: Center mark

2. Change the position of the standard bracket by rotating it 180 degrees as shown below. This makes the

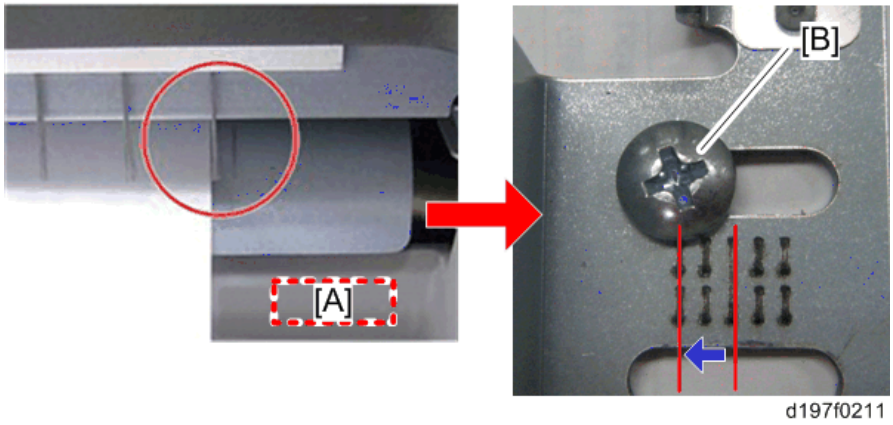
docking bracket easier to slide horizontally. Then reattach the docking bracket to the mainframe.



[A]: Reverse

If the paper shifts towards the front

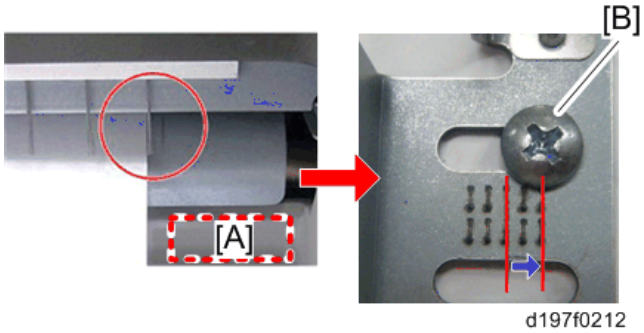
Slide the docking bracket towards the front side by the amount of shift, to move the finisher in the same direction.
e.g.: When the paper has shifted by 2 mm towards the front from the center mark (2 mm/division of the scale), move the docking bracket towards the front by 2 mm (2 divisions). The divisions move towards the rear.



[A]: Proof Tray
[B]: Docking Bracket Screw

If the paper shifts towards the rear

Slide the docking bracket towards the rear by the amount of shift, to move the finisher in the same direction.
e.g.: When the paper has shifted by 2 mm towards the rear from the center mark (2 mm/division of the scale), move the docking bracket towards the rear by 2 mm (2 divisions). The divisions move towards the front.



[A]: Proof Tray

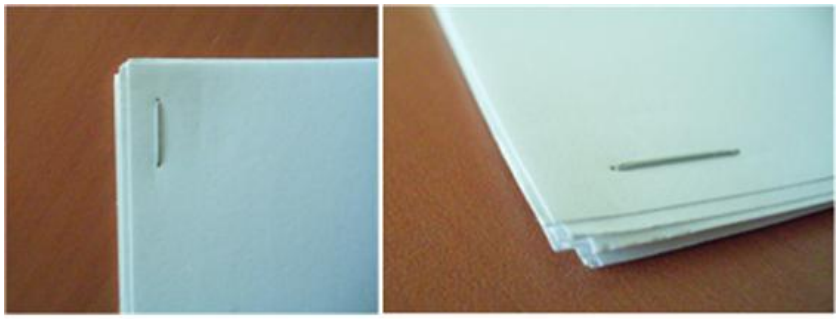
[B]: Docking Bracket Screw

Note

- After the adjustment, check the side-to-side registration by feeding paper out to the proof tray. If the shift has not been solved, adjust the docking bracket (screw for the docking bracket) slightly again.

Finisher Jogger Problem for Booklet Finisher SR3220 or Finisher SR3210

If a paper alignment problem occurs as shown below, do the following procedure to adjust the jogger width.



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Cause

Depending on the type of paper or the manufacturer, the paper may not be the correct size. In this case, the paper may not align properly even when the jogger is used.

Solution

Adjust the jogger width with SP6-143 (adjustable threshold: -1.5 to +1.5 mm for each paper size).

- SP6-143 (Jogger Pos Adj:1K FIN)

Note

- Adjust the jogger width to be slightly narrower (approximately -0.5 mm) than the paper width.

Maximum number of sheets for stapling and what happens when the job has too many pages

Specifications: Maximum Sheet Capability for Staple Jobs

Model	Corner Staple	Booklet Staple	Stapleless Staple
Finisher SR3210	50 sheets	-	5 sheets
Booklet Finisher SR3220	50 sheets	15 sheets	-
Finisher SR3230	50 sheets	-	-

Behavior: When the number of sheets exceeds the maximum staple capability

When corner stapling

Sheets are fed out without being stapled. First, the maximum number of sheets (50) is stacked in the staple tray and fed out. Following this, any remaining sheets that exceed this maximum are also stacked and fed out without

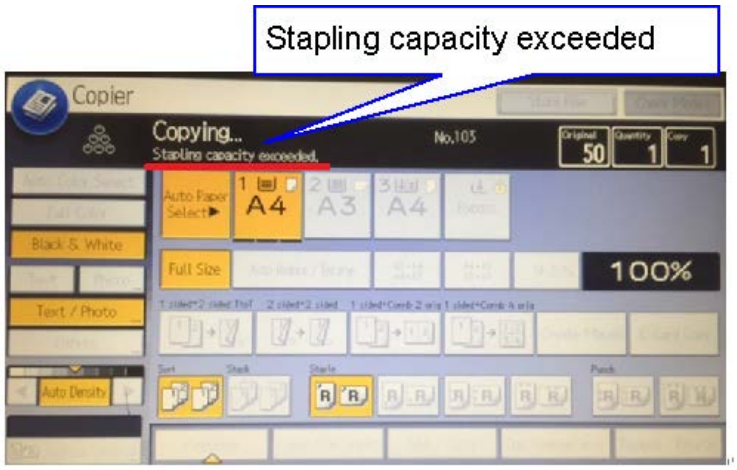
being stapled, in the same way.

Example:

If 60 sheets are set to be stapled, the first 50 are stacked in the staple tray and then fed out without being stapled.

The remaining 10 are then stacked in the tray and fed out without being stapled.

When the maximum number of originals for a stapled set has been scanned, "Stapling capacity exceeded" is displayed on the LCD.



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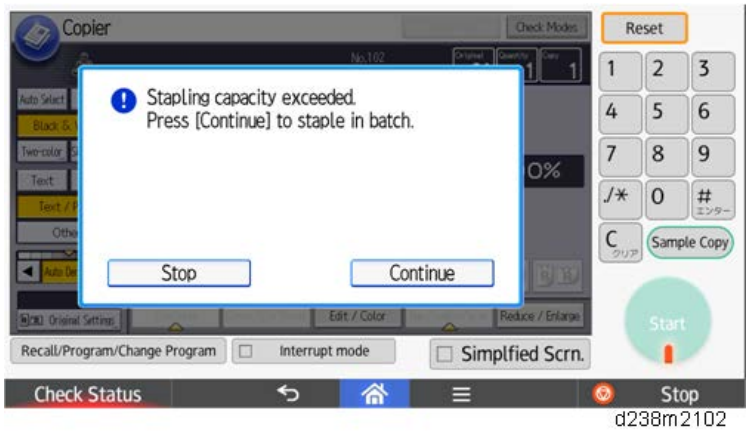
There is no message displayed prompting the user to cancel or continue with the 51st original.

When booklet stapling

The following dialog is displayed when the maximum number of sheets in a stapled set is reached during the scanning of the originals. The user is prompted before printing begins.



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[Stop] The job is canceled (no further scanning, no printing)

[Continue] Sets are stapled at maximum capacity in batch and fed out.

Example:

The machine stops scanning after 20 out of 30 originals are scanned.

The message shown above is displayed.

If [Continue] is selected, printing starts and sheets are stapled in batches of 20 sheets and 10 sheets.

Select the behavior when the job has more than the maximum of staple capability with SP5199

SP5-199 sets whether to staple sheets stacked in the staple tray or finisher before feeding out.

0 (default): Behavior depends on the finisher attached.

1: Sheets are fed out without being stapled.

2: Sheets are stapled and fed out.

Electrical Component Defects

Fuses

Name	Output connector	Capacity	Market exchange possible
		Voltage	Remarks
FU101	CN985 (Fusing center lamp/Fusing edge lamp)	15A (NA) 8A (EU / AA / CHN)	Yes (NA) **NO (EU / AA / CHN)**
		AC	Installed on AC control board
FU102	CN988 (DC power supply)	15A (NA) 8A (EU / AA / CHN)	Yes (NA) **NO (EU / AA / CHN)**
		AC	Installed on AC control board
FU110	CN921 (Heater for Tray 1, 2, and optional trays) CN922 (Heater for PCU)	2A	**NO**
		AC	Installed on DHB (service part)
FU105	None	2A	**NO**
		AC	Installed on AC control board
FU1	CN911 (IOB)	5A	**NO**
		5V	Installed on DC power supply
FU2	CN911 (IPU)	5A	**NO**
		5V	Installed on DC power supply
FU3	CN912 (IOB)	10A	Yes
		24V	Installed on DC power supply
FU4	CN917 (Interlock switch [IOB])	8A	Yes
		24V	Installed on DC power supply
FU5	CN917 (Interlock switch [IOB])	8A	Yes
		24V	Installed on DC power supply
FU7	CN913 (Finisher) CN914 (Paper Tray)	8A	Yes
		24V	Installed on DC power supply

Fuse position

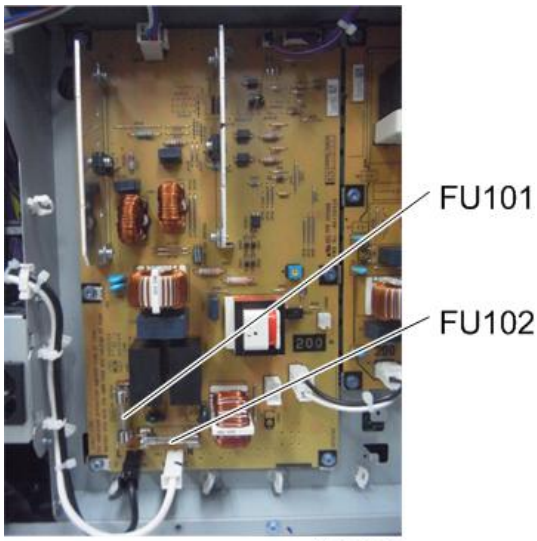

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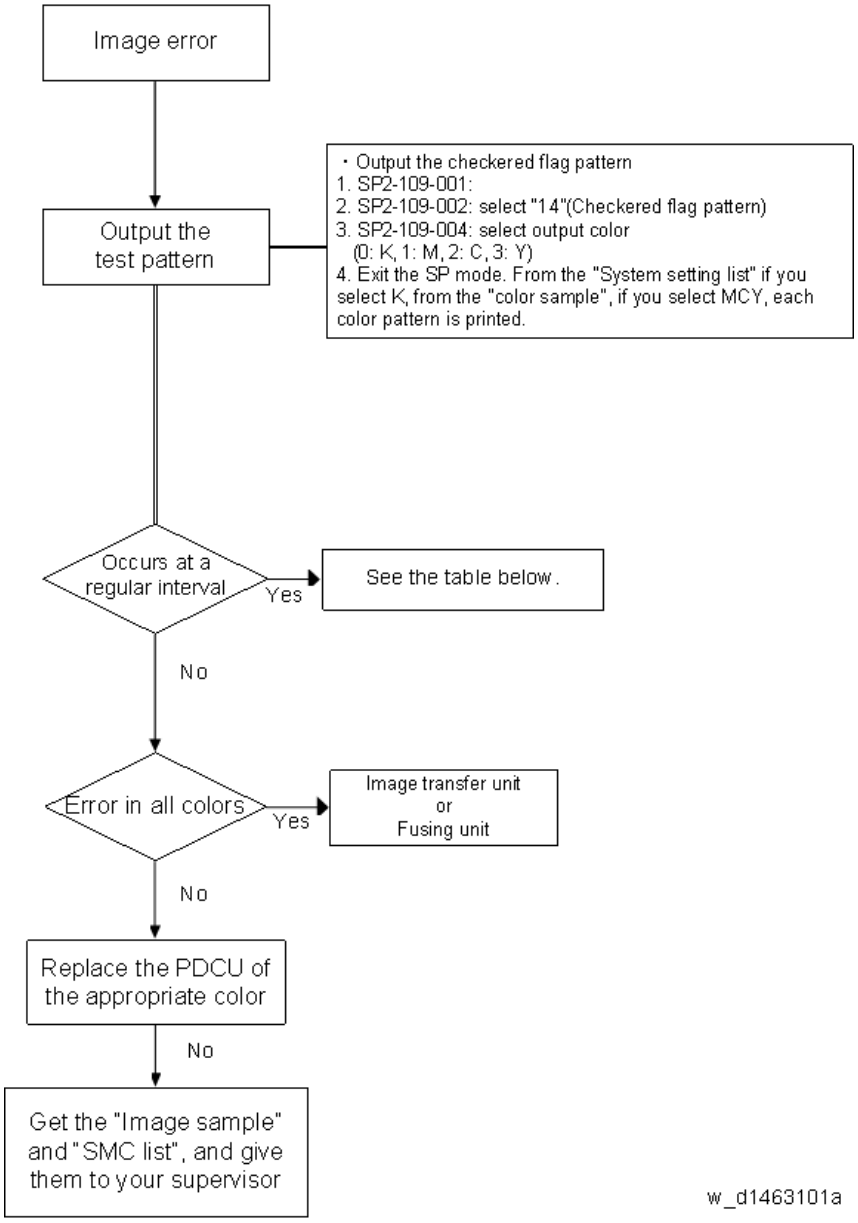
Image Quality Problems

When an Abnormal Image is Generated



Interval	Target part	Replacement part
31.4mm	Charge roller cleaner	PCDU
36.1mm	Lubricant roller	PCDU
39.8mm	Charge roller	PCDU
44.0mm	Image transfer roller	Image transfer unit
61.2mm	Paper transfer roller	Paper transfer roller unit
54.8mm	ITB drive roller (bias roller for paper transfer)	Image transfer unit
54.8mm	Development roller	PCDU
94.2mm	Drum	PCDU

Interval	Target part	Replacement part
94.2mm	Fusing sleeve roller	Fusing sleeve belt unit, Fusing unit
100.5mm	Pressure roller	Pressure roller, Fusing unit
963.8mm	Image transfer belt	Image transfer belt, Image transfer unit

Other Troubleshooting

When Abnormal Noise Occurs

When abnormal noise occurs while the machine is operating, identify where the noise comes from by using various output checks. However, for the following two parts of the machine, work through the check procedures given below.

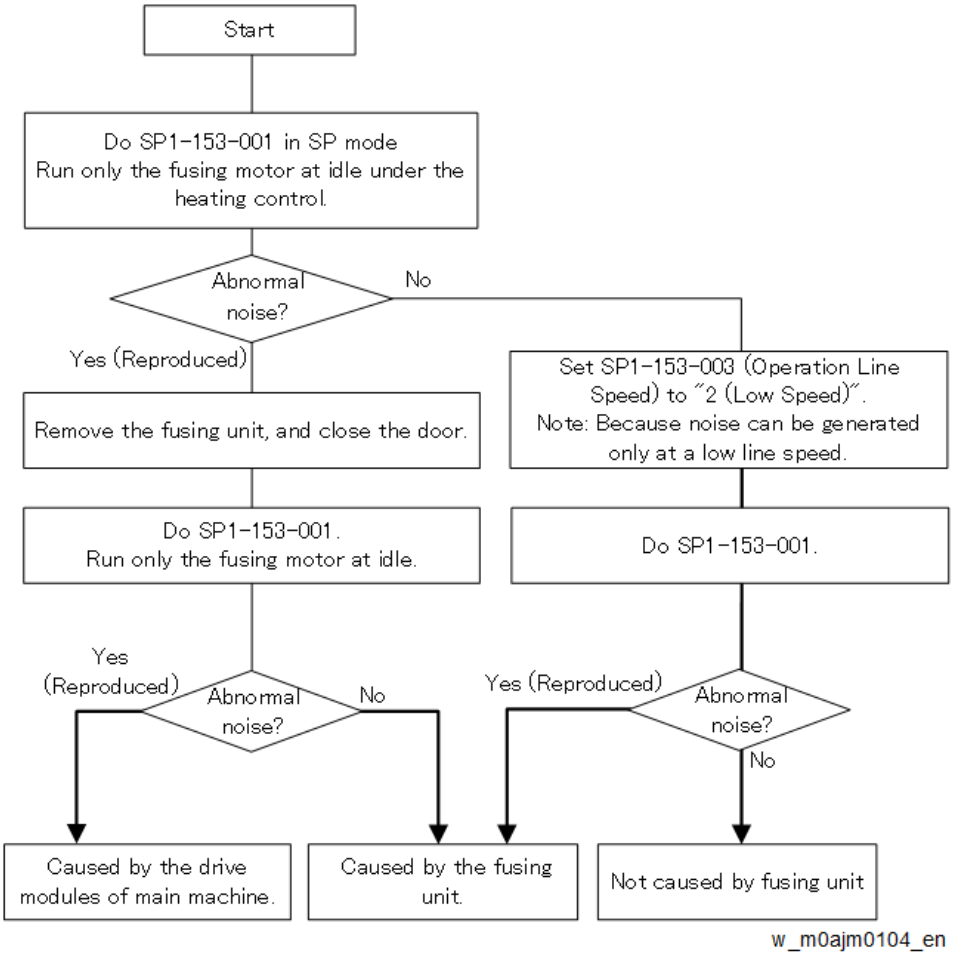
- Fusing unit drive
- Toner supply mechanism

⚠CAUTION

Because damaged or dirty parts can lead to secondary failure, always follow the procedure.
Take particular care not to be caught in the rotating parts of the motors and/or gears.

Checking Abnormal Noise from the Fusing Unit

When the abnormal noise is coming from the fusing unit, work through the following flow chart, and check whether the fusing unit is the cause, by using SP1-153 (Abnormal Noise Confirmation).
If the fusing unit is the cause, replace the fusing unit. If the drive module is the cause, in addition perform the operation check of various motors by using output checks, to identify which motor is the cause.



Which value to set for SP1-153-003?

During warming-up or using the operation panel, the motors rotate at low line speeds. At the time, if noise occurs, start checking from [2: Low Speed]. Middle speed is for only printing on thick paper 1, so use middle speed if abnormal noise occurs when thick paper 1 is fed.

Related SPs

SP No.	SP Name	Function	Description
SP1-153-001	Abnormal Noise Confirmation: Unit: Execute	The fusing motor rotates with the heating control.	Fails if the fusing unit is not installed or the cover is open
SP1-153-002	Abnormal Noise Confirmation: No Unit: Execute	The fusing motor rotates without the fusing unit.	Fails if the fusing unit is installed or the cover is open
SP1-153-003	Abnormal Noise Confirmation: Operation Line Speed	Line speed at the time of rotation 0: Standard speed 1: Middle speed 2: Low speed	
SP1-153-004	Abnormal Noise Confirmation: Operation Time	Rotates during this time. Initial value: 60 sec.	
SP1-	Abnormal Noise Confirmation:	Temperature setting for SP1-	Do not change

SP No.	SP Name	Function	Description
153-005	Heat Center Target Temp	153-001 (Unit: Execute)	
SP1-153-006	Abnormal Noise Confirmation: Heat End Target Temp	Temperature setting for SP1-153-001 (Unit: Execute)	
SP1-153-007	Abnormal Noise Confirmation: Press Target Temp	Temperature setting for SP1-153-001 (Unit: Execute)	

Operation Check Procedure for the Toner Supply Motor and Toner Bottle Drive Motor

To check the operation of the toner supply motor and/or toner bottle drive motor, do a forced toner supply, not an output check.

⚠CAUTION

Doing anything other than the following steps may cause abnormal density, toner scattering, dirty background, and cleaning failure at the image transfer unit.

1. Do [Force Tnr Supply :Exe (SP3-050-003 to 006)] for the applicable color twice. If there is enough toner in the toner supply unit, the toner bottle drive motor will not work.

SP No.	SP Name
SP3-050-003	Force Tnr Supply :Exe Execute: K
SP3-050-004	Force Tnr Supply :Exe Execute: C
SP3-050-005	Force Tnr Supply :Exe Execute: M
SP3-050-006	Force Tnr Supply :Exe Execute: Y

2. Do [Manual ProCon :Exe Density Adjustment (SP3-011-002)] once.

   Note

   If the operation of the toner bottle drive motor could not be checked, do step 1 again after the manual density adjustment.

When Fluorescent/LED Lamps Flicker

Problem

Fluorescent and/or LED lamps flicker at the location of installation.

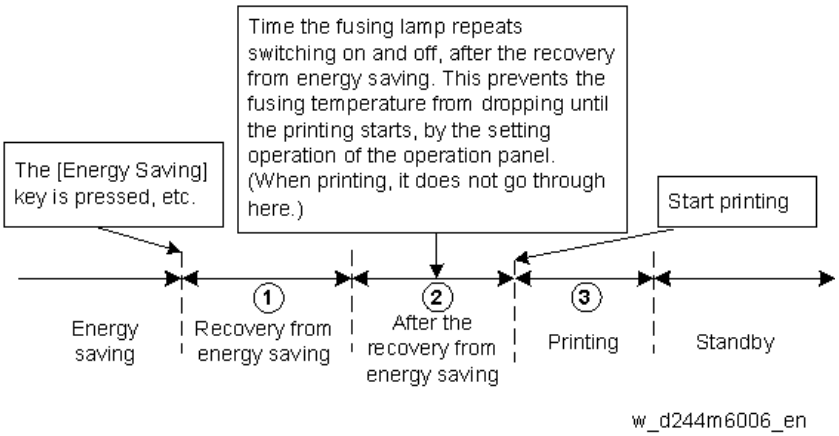
Cause

It is a result of the voltage drop that occurs when current is supplied to the fusing lamps. It depends on the electrical power environment at the customer's location.

Solution

The procedure depends on when the flickering occurs. So check the occurrence timing, and do the procedure that matches the timing.

Occurrence Timing



①Recovery from energy saving

Set SP1-135-001 (Inrush Control) to "1 (ON)".

Side effect:

Recovery time from energy saving becomes slower by about 0.4 seconds.

②After recovery from energy saving

Set SP1-135-001 (Inrush Control) to "1 (ON)".

Set SP1-135-002 (Flicker Control) to "1 (ON)".

Side effect:

- Recovery time from energy saving becomes slower by about 0.4 seconds.
- If there is a lot of toner in the image, offset may occur.
- If fusing offset occurs, values in the SPs related to fusing offset must be changed.

If it has not been improved by the above, do the following in addition:

Stop the fusing lamps after warm-up. Set SP1-121-001 (Switch:Rotation Start/Stop:Time:After Reload) to "0 sec".

Side effect:

The fusing temperature drops during operation. After printing starts, the fusing temperature is raised to the printing temperature. Because of that, printing completion time becomes slower (by about 1-2 seconds).

③Printing

Set SP1-135-002 (Flicker Control) to "1 (ON)".

Side effect:

- If there is a lot of toner in the image, offset may occur.
- If fusing offset occurs, values in the SPs related to fusing offset must be changed.

SPs to Related Fusing Offset

Print Target Temp.:Plain1:FC:Center	SP1-105-001	Value
Print Target Temp.:Plain1:BW:Center	SP1-105-003	As initial values + 10 °C are the upper limits, change values to improve offset.
Print Target Temp.:Plain2:FC:Center	SP1-105-005	
Print Target Temp.:Plain2:BW:Center	SP1-105-007	

Print Target Temp.:Plain1:FC:Center	SP1-105-001	Value
Print Target Temp.: Thin:FC:Center	SP1-105-009	
Print Target Temp.: Thin:BW:Center	SP1-105-011	
Print Target Temp.: M-thick:FC:Center	SP1-105-013	
Print Target Temp.: M-thick:BW:Center	SP1-105-015	

7. Detailed Descriptions

Guidance for Those Who are Familiar with Predecessor Products

The difference between this model and the previous (Aficio SP C830DN/C831DN) and similar (MP C4504/C6004) models are as follows:

Process Control

Processes upon execution of SP2-111-004 (Forced Line Position Adj.: mode d) and [Color Registration] in the User Tools have been changed.

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
MUSIC	There is no SP2-111-004 in this model. [Color Registration] in User Tools executes "fine adjustment -> fine adjustment".	• Normal Operation: rough adjustment -> fine adjustment -> contact MUSIC (new process) • With Imageable Area Extension Unit: rough adjustment -> fine adjustment	

Laser Exposure

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
Beam system	Two-beam system	Four-beam system	

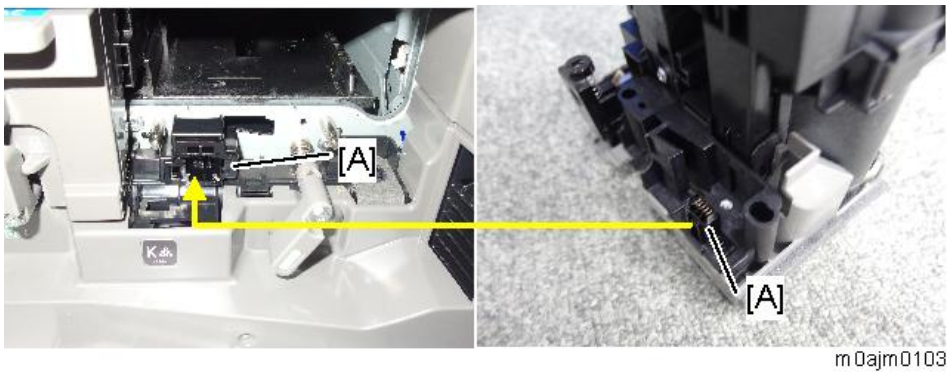
PCDU (Photo Conductor and Development Unit)

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
Removal of PCDU seal	All colors: pulled out by hand	All colors: wound manually using a lever	All colors: wound automatically when turning on the power

Note

Harness at the front part of the PCDU

The harness at the front part of the PCDU has been replaced with a drawer-type connector [A], so there is no need to disconnect a connector when removing the PCDU.



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The cap of the development unit

The toner supply port cap has been replaced by the shutter [A], thus reducing the risk of toner scattering when replacing the unit.

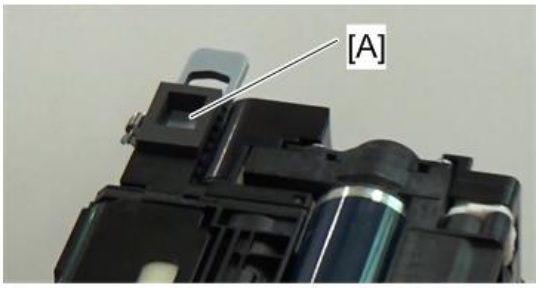

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Image Transfer and Paper Transfer

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
ID Sensor Shutter	Available	Not Available	Not Available

Feed, Transport

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
Bypass tray, Main machine jam code	-	The following codes are used to isolate the cause: • JAM048: Transport Sensor Lag Jam from Bypass Tray • JAM051: Transport Sensor Lag Jam from 1st Feed Tray	
Main tray paper exit	-	• Improved stacking performance after feedout by adding stiffness to the paper with the paper exit driven roller (drum shaped). • To prevent paper jams when the paper is delivered from the machine's paper exit to the internal exit peripherals, attach the paper support guide (supplied	

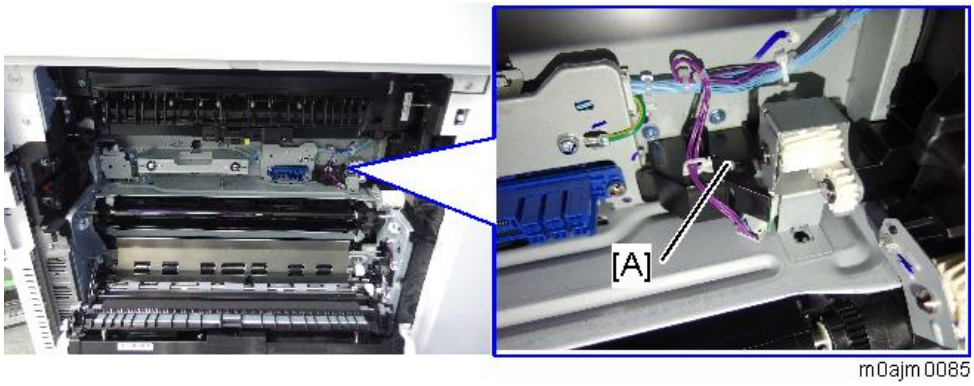
Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
		with the peripherals). • Replaced the paper exit driven roller to a flat type roller to prevent jamming when paper is fed to the internal exit peripherals.	
Removing wrinkles in tray	(No mechanism is required for removing wrinkles because the maximum width is A3.)	Support components and decals are provided. User installable	

Fusing

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
Curl Correction	Not Available (No Mechanism)	Equipped with a curl correction mechanism at the fusing exit.	
Fusing System	Direct Heating (DH)	New Color QSU-DH (Quick Start Up-Direct Heat) fusing	
Heating Width Control	Heating width control depending on the paper width by 3 lamps, each with a different heating position.	Heating width control by 2 lamps with the center/end heating positions and the variable end shield plate with the heat conduction plate	
Fusing Shield Plate	Not Available	Heat conduction plate added to the shield plate	
Fusing Shield Plate Position Sensor	Not Available (No Mechanism)	1 sensor	

Note

To prevent coming in contact with the AC harness, the drive mechanism of the fusing unit's shield plate has a cover [A] over it.



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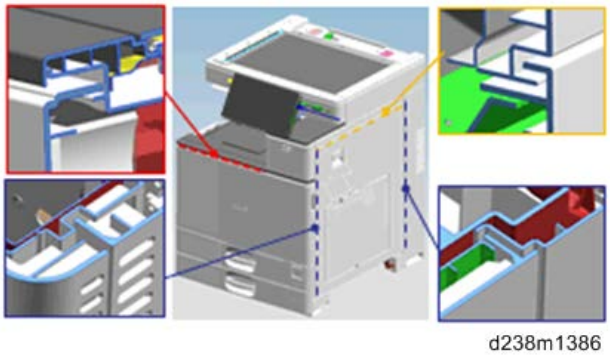
Electrical parts

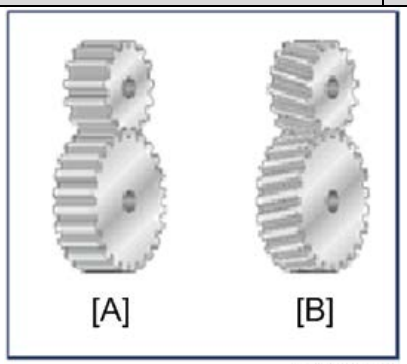
Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
OPU	4.3-inch color LCD	2nd generation Smart Operation Panel (10.1-inch WSVGA)	

Exterior Cover, Air Flows (Fan Control)

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
Proximity Sensor	No	Equipped	No
Noise control	-	• Equipped with a Helmholtz silencer • Labyrinth Structure of the Exterior*1 *1 Exterior parts engage with each other to reduce the leaking of noise from the drive mechanism.  	
Controller box cover	Interior type (metal cover)	Serves also as the exterior cover (Plastic-metal assembly)	
Power switch location	Left of the waste toner cover	Right of Tray 1	

Drive part

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
Noise control	Not Available	From the usual non-helical gears [A], we increased the use of helical gears [B] to increase the efficiency of engagement. This has also reduced the rattling noise due to the increased gear engagement.	

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/ SP C842DN
			
Silencing Grease for the Drive Parts	-	Grease is applied to over 100 parts, including gears, shafts, and bearings, to reduce the driving noise.	

Options and Peripherals

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/SP C842DN
Stapleless stapler	-	Equipped	Equipped
Finisher paper exit guide mechanism	-	Equipped	Equipped
Attention light	-	-	Equipped
Internal multi-fold unit	-	-	Equipped
4-bin mailbox	Equipped	-	Equipped
Clone PS*	-	-	Equipped as a standard feature

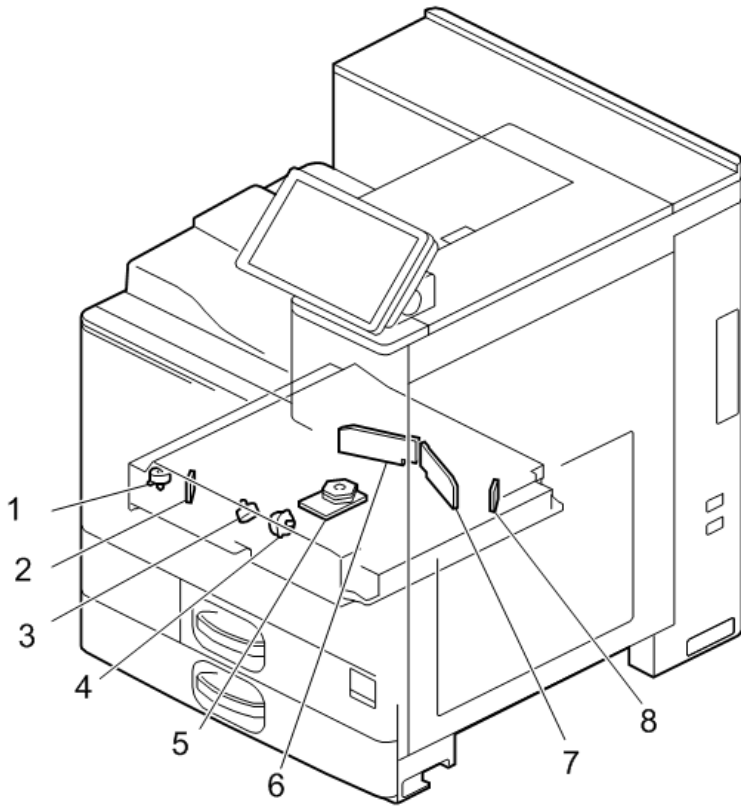
*For details of the functions of Clone PS, refer to Adobe PS vs. Clone PS.

Security

Items	SP C830DN/C831DN	MP C4504/C6004	SP C840DN/SP C842DN
Program/Change Administrator screen at the first power-up	-	Yes	No

Component Layout

Laser Exposure Unit



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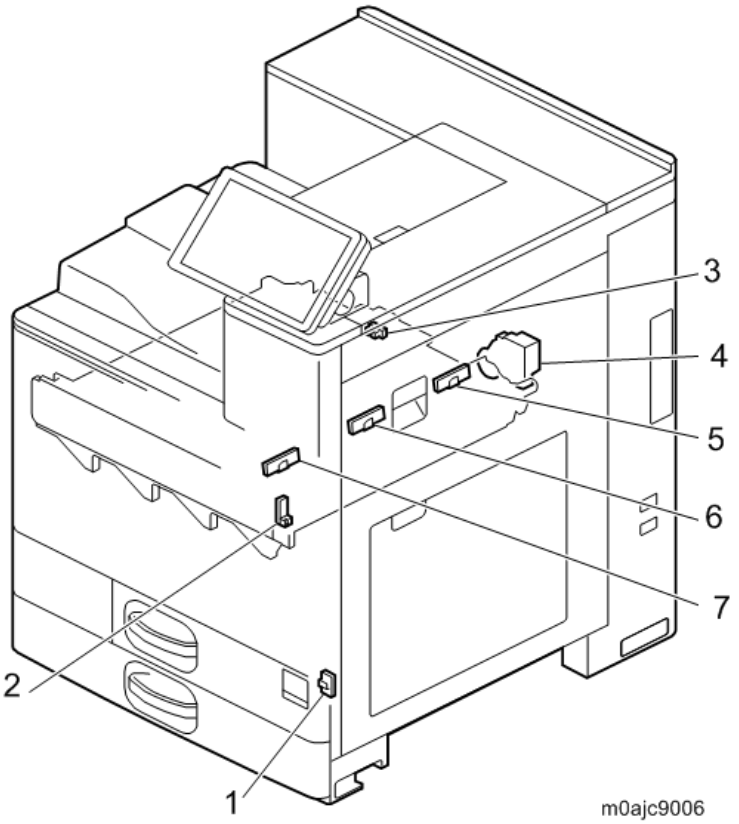
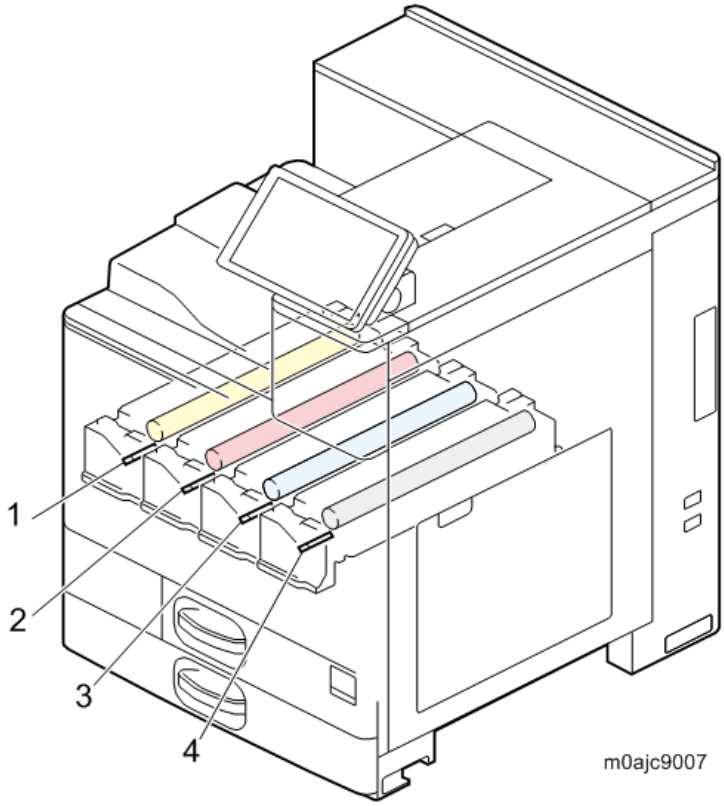
No.	Description	No.	Description
1	Laser optics positioning motor	5	Polygon mirror motor
2	Synchronization detector board: M/Y-S	6	LD Drive board (M/Y)
3	Laser optics positioning motor	7	LD Drive board (Bk/C)
4	Laser optics positioning motor	8	Synchronization detector board: Bk/C-S

Image Transfer Unit



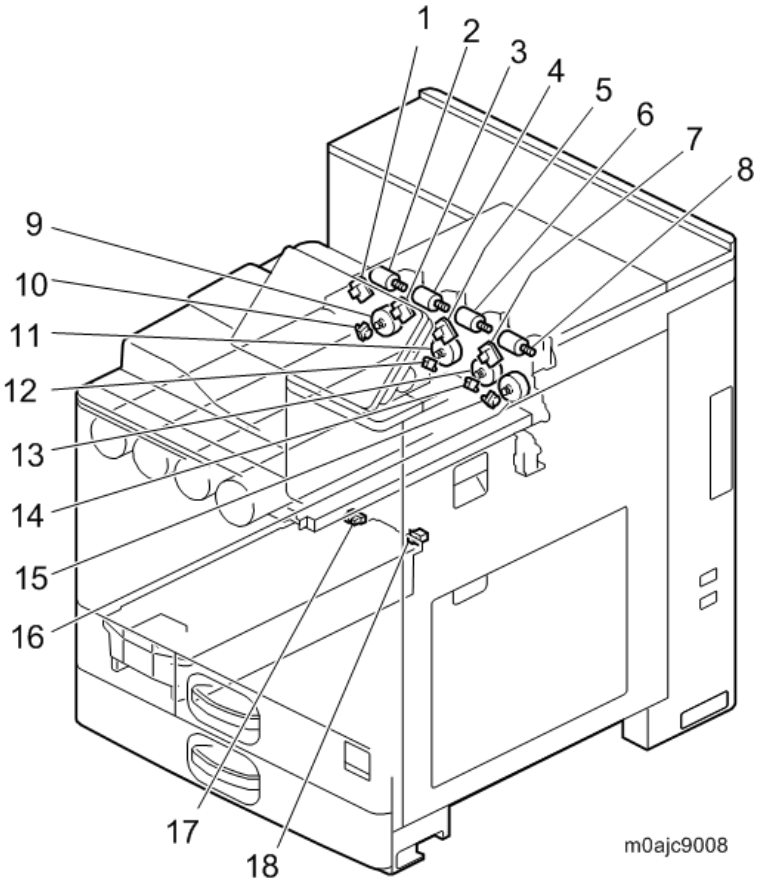
No.	Description
1	Temperature and humidity sensor
2	Interlock switch: Right door (LD Safety Switch)
3	ITB contact and release sensor
4	Paper transfer contact and release motor
5	TM/ID sensor (rear)
6	TM/ID sensor (center)
7	TM/ID sensor (front)

PCDU



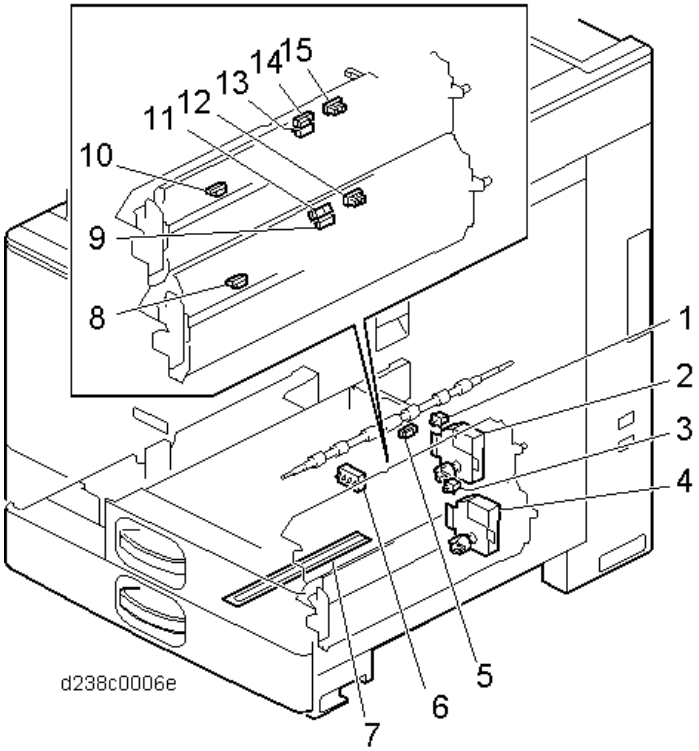
No.	Description	No.	Description
1	PCDU (Y)	3	PCDU (C)
2	PCDU (M)	4	PCDU (Bk)

Toner Supply, Waste Toner Bottle



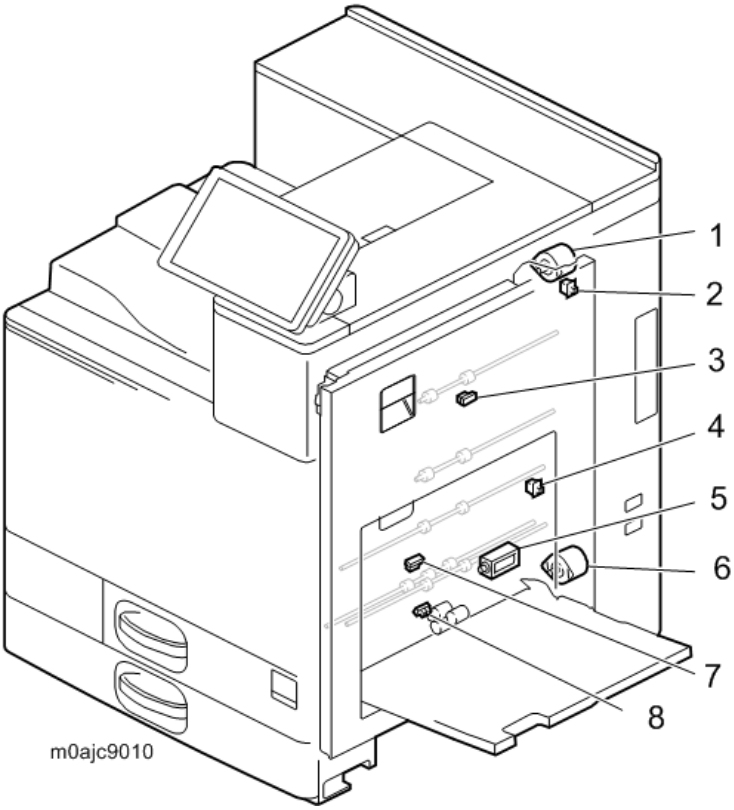
No.	Description	No.	Description
1	ID chip contact board (Y)	10	Toner end sensor (Y)
2	Toner bottle drive motor (Y)	11	Toner supply motor (M)
3	ID chip contact board (M)	12	Toner end sensor (M)
4	Toner bottle drive motor (M)	13	Toner supply motor (C)
5	ID chip contact board (C)	14	Toner end sensor (C)
6	Toner bottle drive motor (C)	15	Toner end sensor (Bk)
7	ID chip contact board(Bk)	16	Toner supply motor (Bk)
8	Toner bottle drive motor (Bk)	17	Waste toner bottle full sensor
9	Toner supply motor (Y)	18	Waste toner bottle set switch

Paper Feed Unit



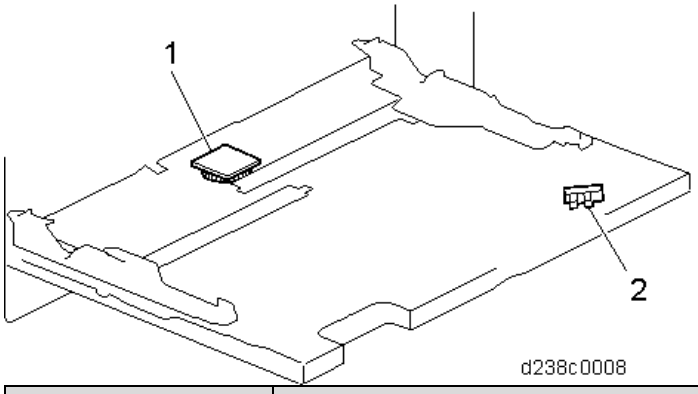
No.	Description	No.	Description
1	Tray set switch (1st feed tray)	10	Paper feed sensor (1st feed tray)
2	Lift motor (1st feed tray)	11	Paper end sensor (2nd feed tray)
3	Tray set switch (2nd feed tray)	12	Upper limit sensor (2nd feed tray)
4	Lift motor (2nd feed tray)	13	Transport sensor (1st feed tray)
5	Registration sensor	14	Paper end sensor (1st feed tray)
6	Size switch (2nd Feed Tray)	15	Upper limit sensor (1st feed tray)
7	Anti-condensation heater		
8	Paper feed sensor (2nd Feed Tray)		
9	Transport sensor (2nd Feed Tray)		

Duplex Unit



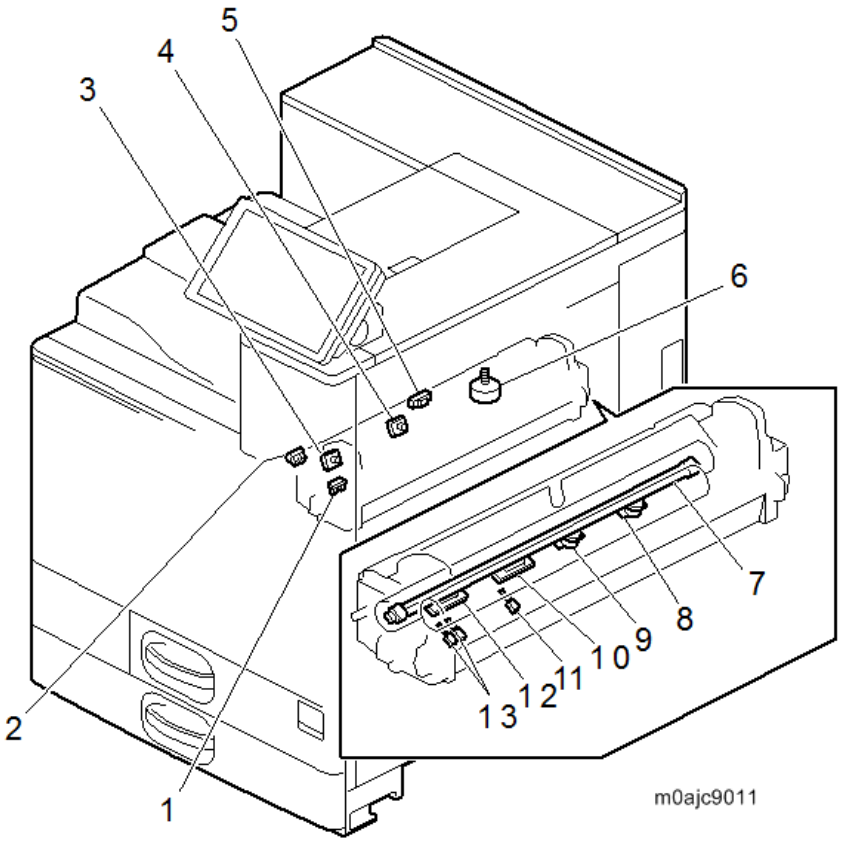
No.	Description	No.	Description
1	Duplex entrance motor	6	By-pass/Duplex motor
2	Right door open/closed sensor	7	Duplex exit sensor
3	Duplex entrance sensor	8	By-pass paper end sensor
4	Duplex guide plate open/closed sensor		
5	By-pass pick-up solenoid		

Bypass Unit



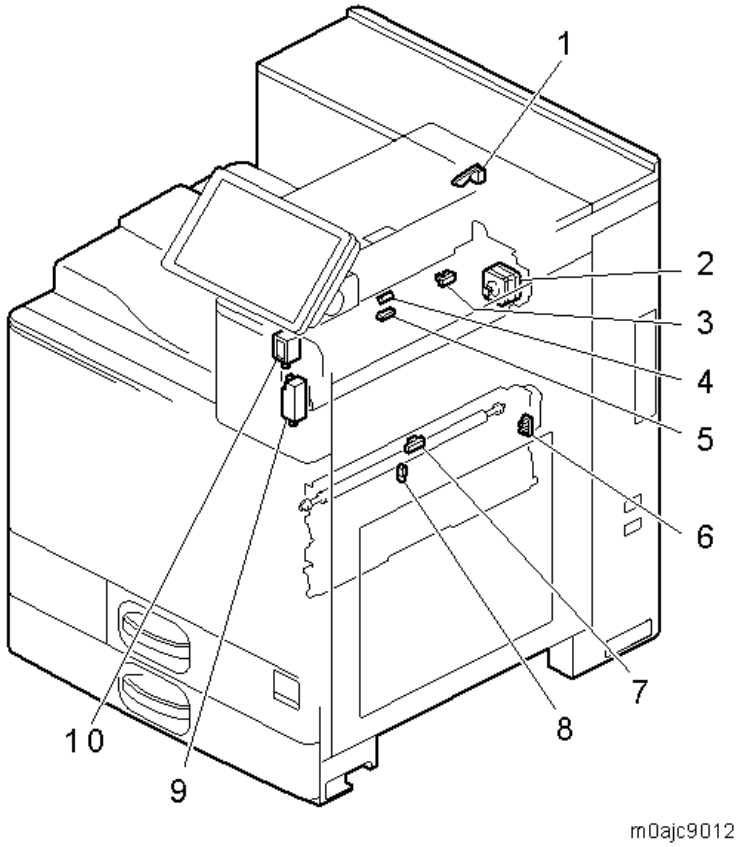
No.	Description
1	Bypass width sensor
2	Bypass length sensor

Fusing Unit



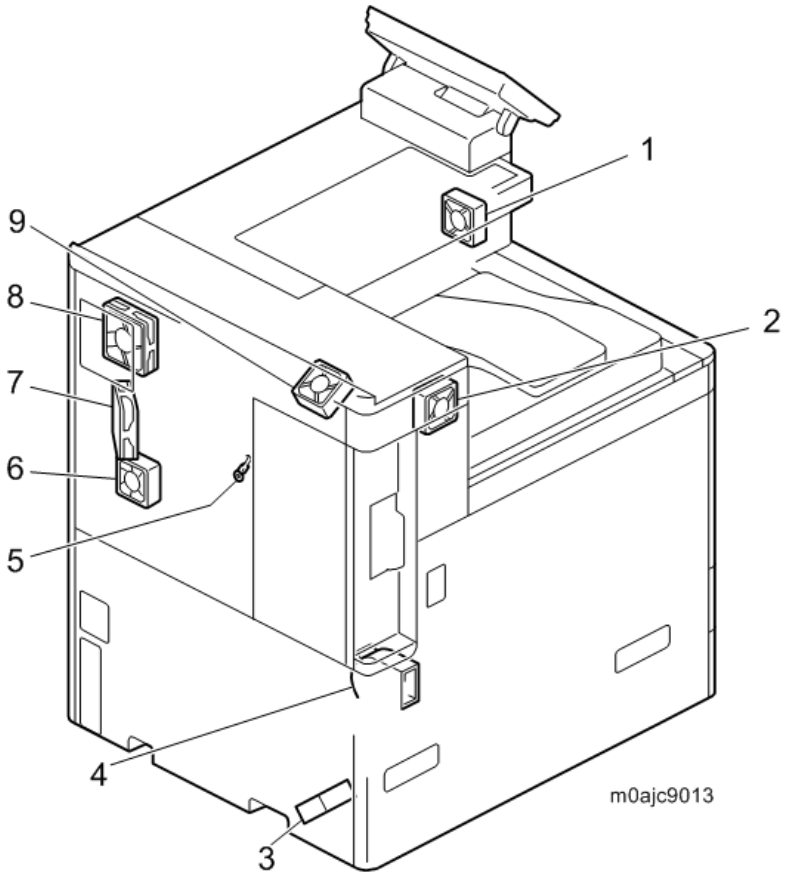
No.	Description	No.	Description
1	Fusing pressure release sensor	8	Fusing sleeve thermostat (edge)
2	Shield position sensor	9	Fusing sleeve thermostat (center)
3	Thermopile (edge)	10	Non-contact thermistor (center)
4	Thermopile (center)	11	Pressure roller thermistor (center)
5	Fusing exit sensor	12	Non-contact thermistor (edge)
6	Shield drive motor	13	Pressure roller thermistors (edge, full-bleed edge)
7	Fusing lamp		

Paper Transfer, Paper Exit



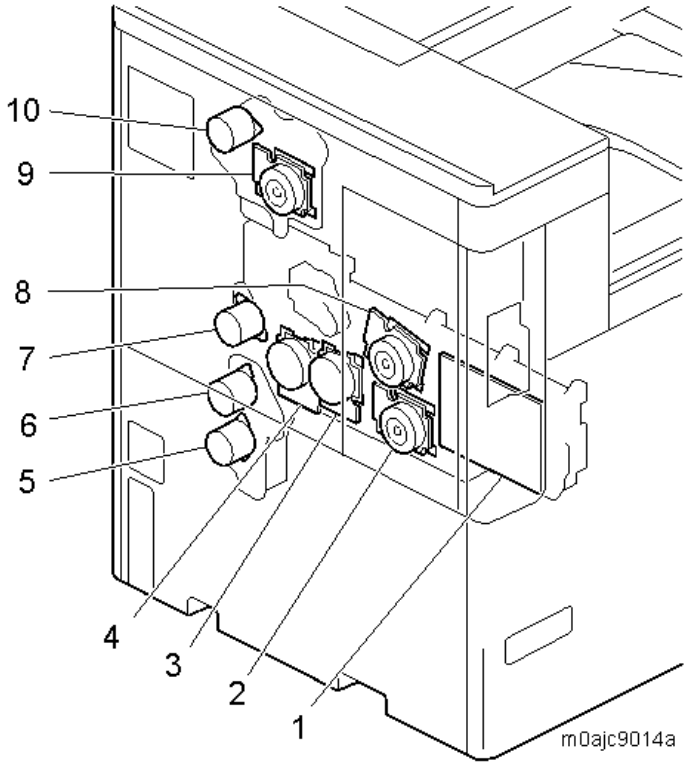
No.	Description	No.	Description
1	Inverter guide cover sensor	6	PTR open/closed sensor
2	Reverse motor	7	Fusing entrance sensor
3	Paper exit full sensor	8	Fusing exit sensor
4	Reverse sensor	9	Fusing exit drive solenoid (installed on the main machine)
5	Paper exit sensor	10	Paper exit solenoid

Air Flow



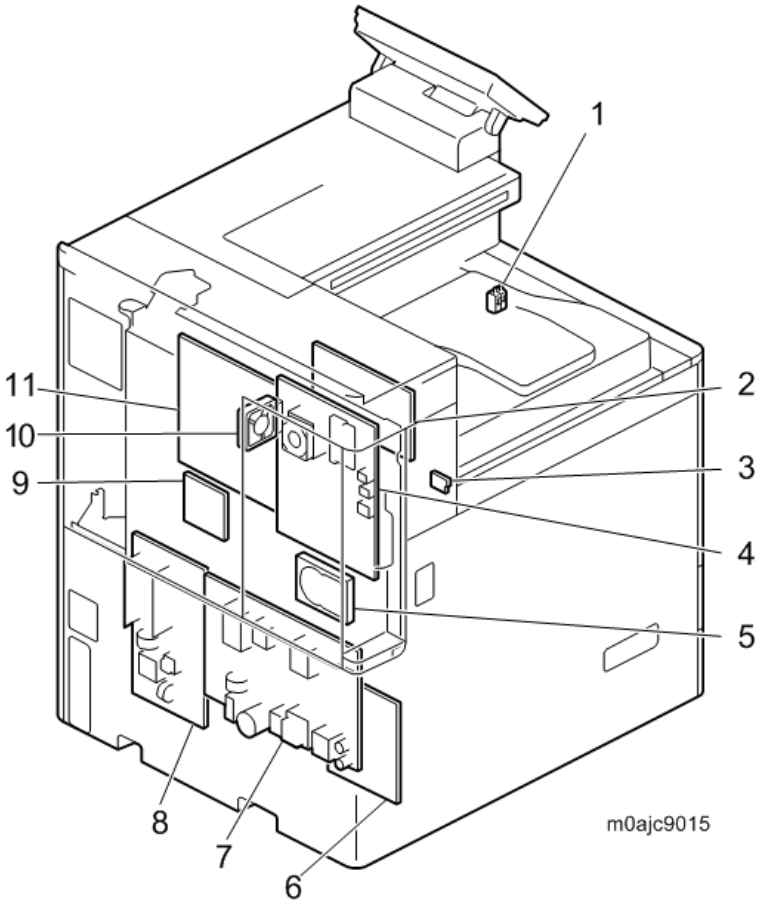
No.	Description	No.	Description
1	Paper exit cooling fan	6	Drive cooling fan
2	Development intake fan/right	7	Toner supply cooling fan
3	PSU cooling fan	8	Fusing exhaust fan
4	Ozone exhaust fan	9	Main exhaust fan
5	Imaging temperature sensor (thermistor)		

Drive Unit



No.	Description	No.	Description
1	Imaging IOB	7	Registration motor
2	Development motor: CMY	8	PCU motor: CMY
3	Development motor: Black	9	Fusing motor
4	PCU: black / ITB drive motor	10	Paper exit / pressure release motor
5	Paper feed motor		
6	Transport motor		

Boards, Switches

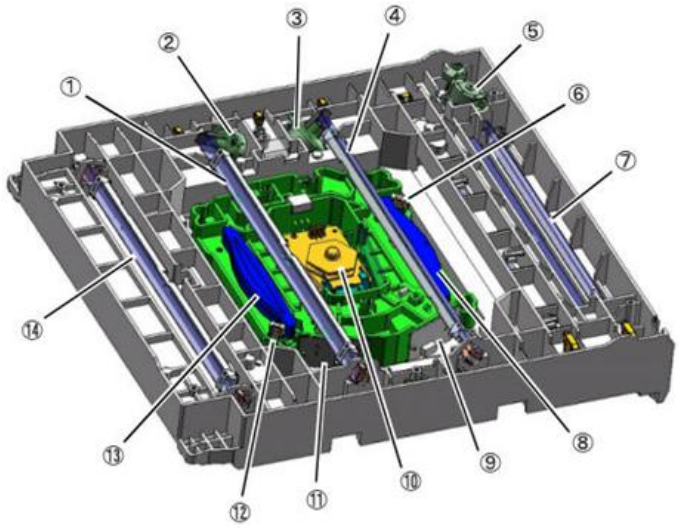


No.	Description	No.	Description
1	Interlock switch: front cover	8	PSU (AC controller board)
2	HVP_TTS	9	BCU
3	Main power switch	10	Controller box cooling fan
4	Control board	11	IPU
5	HDD		
6	Paper Transport IOB		
7	PSU (DC Power)		

Laser Exposure

Overview

Four stations (one for each color).

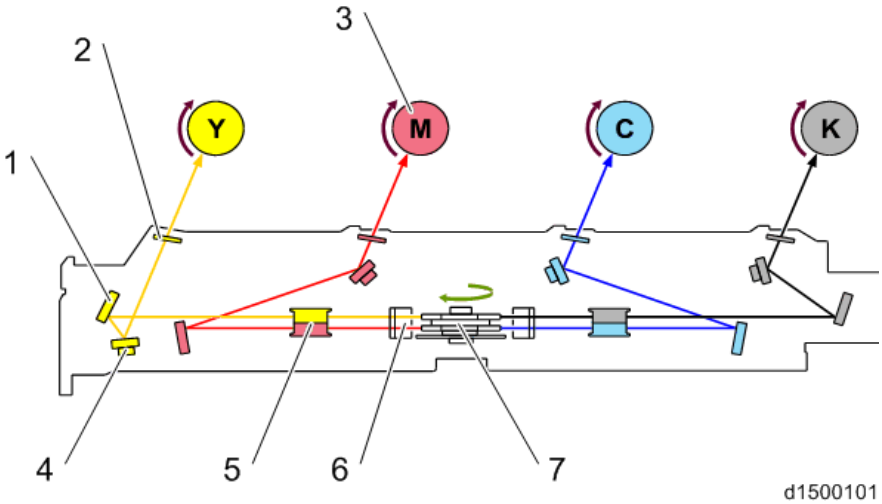


d1462690

No.	Description	No.	Description
1	2nd Mirror	8	F-theta lens-M/Y
2	Laser Optics Positioning Motor	9	LD Drive Board
3	Laser Optics Positioning Motor	10	Polygon mirror motor
4	2nd Mirror	11	LD Drive Board
5	Laser Optics Positioning Motor	12	Cylinder Lens
6	Cylinder Lens	13	F-theta lens-Bk/C
7	1st Mirror	14	2nd Mirror

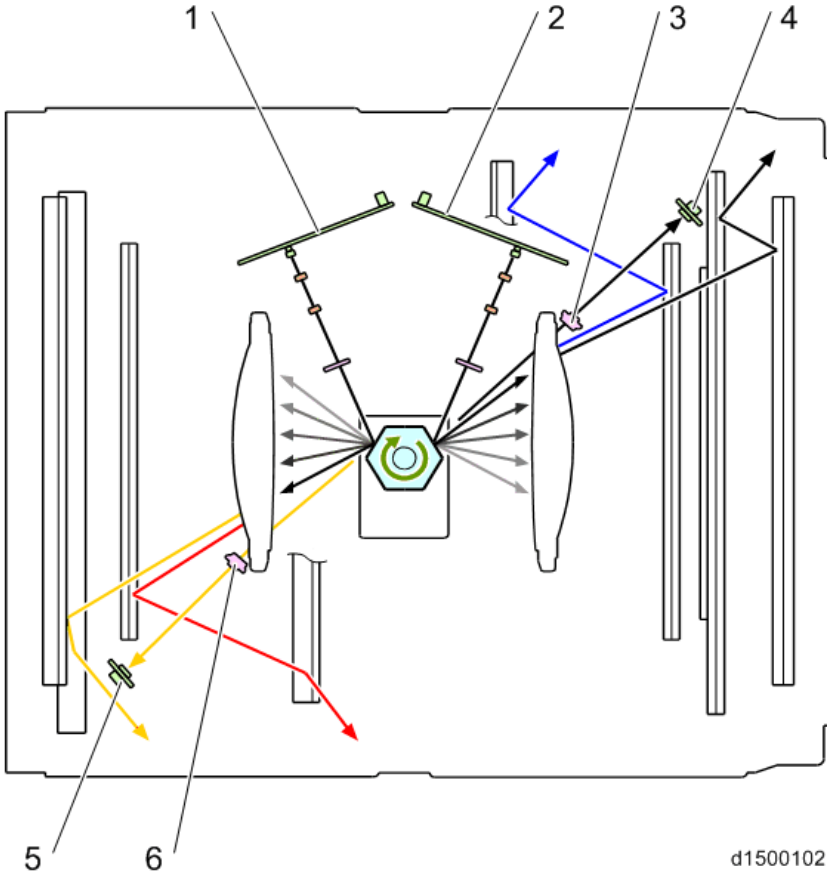
Parts Construction

The write unit contains a housing and the following main parts:



d1500101

No.	Description	No.	Description
1	1st Mirror	5	F-theta lens
2	Dust Shield Glass	6	Soundproof Glass
3	PCU (Y,M, C, K)	7	Polygon mirror motor
4	2nd Mirror		



No.	Description	No.	Description
1	LD Drive Board (M/Y)	4	Synchronization detector board: Bk/C-S
2	LD Drive Board (Bk/C)	5	Synchronization detector board: M/Y-S
3	Cylinder Lens (Bk/C)	6	Cylinder Lens (M/Y)

Mechanism

LD Drive Board

The LD unit contains two LD drive boards, and the beam system is a four-beam type.

The LD drive board contains an LD (laser diode), PD (photodiode), and LD control unit.

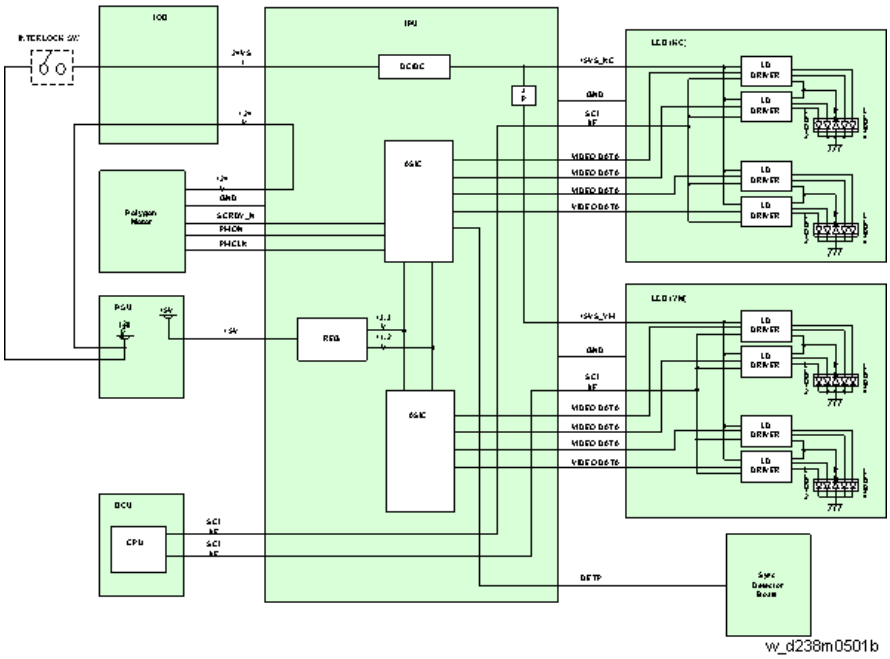
- The LD outputs the laser light to the PCU.
- The PD continuously detects laser light from the LD, and feeds a signal based on the intensity back to the LD control unit.
- The LD control unit adjusts the intensity of the LD output based on the output signal from the PD.

LD control board adjustment is not required in the field.

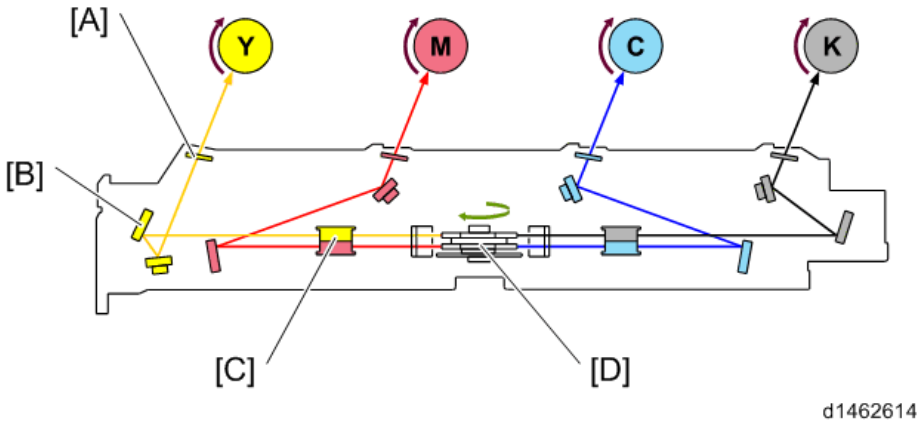
LD Safety Switch

To prevent the laser beam from turning on when the front cover or right door is open, the 5V supply to the LD drive board is interrupted when the front cover interlock switch and/or the right door interlock switch is open.

Circuit Diagram



Line Scanning Mechanism



[A]: Dust Shield Glass

[B]: 1st Mirror

[C]: F-theta lens

[D]: Polygon mirror motor

1. Mirror, lens

   Laser diodes of each color emit light to match the paper feed timing. After passing through the cylinder lens (laser beam width correction), Polygon mirror motor (main scanning line scan), F-theta lens (dot position correction and optical face tangle error correction), it reaches the drums of each color.

   The F-theta lens has a two-stage integrated construction, and 2 color beams are corrected with one lens.

2. Polygon mirror motor

   The Polygon mirror motor contains two (upper and lower) 6-faced mirrors formed in an integral construction (these are combined in one unit).

   In this machine, four colors are written simultaneously by the LD irradiating a polygon mirror.

   The rotation speed of the Polygon mirror motor is controlled by LD/ Polygon mirror motor.

3. Synchronization sensor

   There are two synchronization sensors, i.e., one on the K-C side, and one on the M-Y side. Each sensor detects light from one color, and synchronization for two colors is calculated from this.

   There is only one sensor for each color. The sensor at the leading edge of the main scan line has been removed.

4. Scan line inclination and automatic adjustment mechanism

   The skew adjustment motor installed on the 2nd mirror adjusts the scan line inclination.

   This is done during automatic image position correction.

Process Control

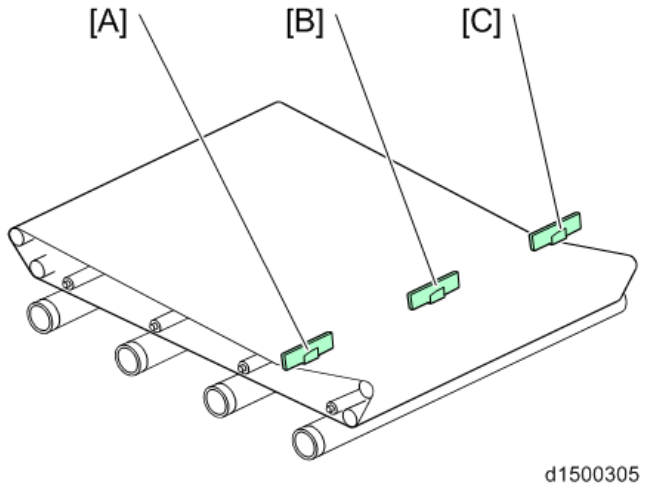
Mechanism

Sensor Construction

The ID Sensors (also called the TM/ID sensors) are used to measure the amount of toner on the transfer belt and to correct any errors in color registration.
The TD sensor (also called the μ sensor) is used to measure the toner density in the developer.

Outline of the ID Sensors

The ID sensors are fixed onto the main frame, against the surface of the transfer belt. Color registration is checked by all three sensors; the front [A], center [B], and rear [C].
The center sensor [B] acts as an ID sensor and a MUSIC sensor.



Outline of the TD sensor

In this model, a non-contact toner density (TD) sensor, which we also call a mu (μ) sensor, is used for toner density control.
The TD sensor is attached on the lower side of the development unit. Unlike a HST sensor, the board of the TD sensor is exposed. So there is a cover around the sensor to protect it and to maintain a good contact between the sensor and development unit.
The TD sensor measures the permeability of the developer without contacting it, from the outside of the case, and converts the measured value to the toner density.
According to the toner density measured by this sensor, the proper amount of toner is supplied to the developer.
A counter corresponding to the frequency is used as the unit of TD sensor output. Thus, unlike a HST sensor which directly detects Vt, the TD sensor output is converted into Vt for toner supply control.
In the TD sensor, there is an ID chip storing the machine identification information, the running distance information of the development unit and the PCU, and other information used by image density control.

Process Control

Outline

Process control adjusts the condition of the imaging hardware to maintain a constant image density. Process control is executed at the following times.

	Process Control	Operative Condition	Related SPs
1	PowerON ProCon :Set	When a certain time has passed after the previous job end (Except when recovering from an SC or jam)	SP3-530-001 SP3-530-002 SP3-530-003 SP3-530-004 SP3-530-005 SP3-530-006 SP3-530-007 SP3-530-008
2	JobEnd ProCon :Set	When the value of the job end counter becomes more than the threshold (At job end)	SP3-534-001 to 004 SP3-534-011 to 014
3	Interrupt ProCon :Set	When the value of the job interrupt counter becomes more than the threshold	SP3-533-001 to 004 SP3-533-011 to 014
4	Non-useTime Procon :Set	When the value of the non-use time counter becomes more than the threshold	SP3-531-001 to 004
5	Manual ProCon :Exe	When SP 3-011 is used	SP3-011-001 to 005
6	Toner End Recovery	After the Toner End Status is cleared (Recovery is NOT done in the near end status)	-
7	Initial Developer Setting Process Control	When the machine detects a new PCDU.	-

Result Code for Executing Process Control

The result is presented in 8 digit numbers. Using 2 digits for each color, the result appears in the order of Y, M, C, and K from the left.

The detection results of each sensor are saved (The latest 10 detection results)

- SP3-012-001 to 010 (Front)
- SP3-012-011 to 020 (Center)
- SP3-012-021 to 030 (Rear)

Category	Code	Result name	Description
00 and larger	00	Not executed	Factory default setting(SP default)
10and larger Result (Normal)	11	Succeeded	-
40 and larger ID Sensor	41	ID Sensor Output error (Max)	Vt>Max
	42	ID Sensor Output error (Min)	Vt<Min
	43	ID Sensor error (Max)	Development gamma is in target, but Vt value is less than upper limit.
	44	ID Sensor error (Min)	Development gamma is in target, but Vt value is less than lower limit.
45 and larger ID Pattern detection	45	ID Pattern extract error	Cannot detect ID Pattern
	50	Vmin_Bk/K2 error(Max)	K:Vmin_Bk / CMY:K2>Max
	51	Vmin_Bk/K2 error(Min)	K:Vmin_Bk / CMY:K2<Min
	52	K5 error (Max)	K5>Max
	53	K5 error (Min)	K5<Min
	54	K5 calculated approximate point error	K5 calculated approximate point <Min
	55	Development gamma error (Max)	Development gamma >Max
	56	Development gamma error (Min)	Development gamma <Min
	57	Start developing voltage: Vk error(Max)	Start developing voltage: Vk>Max
	58	Start developing voltage: Vk error(Min)	Start developing voltage: Vk<Min
	59	Not enough valid data	Adhesion amount data for development gamma calculation point is under 2
90 and larger Result(End)	90	Potential not adjusted	Potential control method is set as [0:FIX]
	99	Stopped	Stopped by door open, power off, error. (Set when execute.)

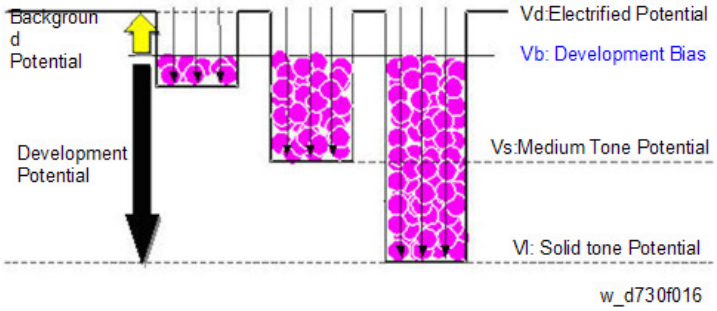
Note

- Execution result example (In order of YMCK from left)
- Factory default (SP default): [00,00,00,00]
- Starting adjust: [99,99,99,99]
- Fail Vsg adjust(Y): [21,99,99,99]
- Error of Development gamma Max(C): [99,99,55,99]
- Succeeded: [11,11,11,11]

Process Control Procedure

The potential of the unexposed drum is called the electrified potential (Vd), whereas the potential when toner starts to adhere to the drum is called the development bias (Vb).

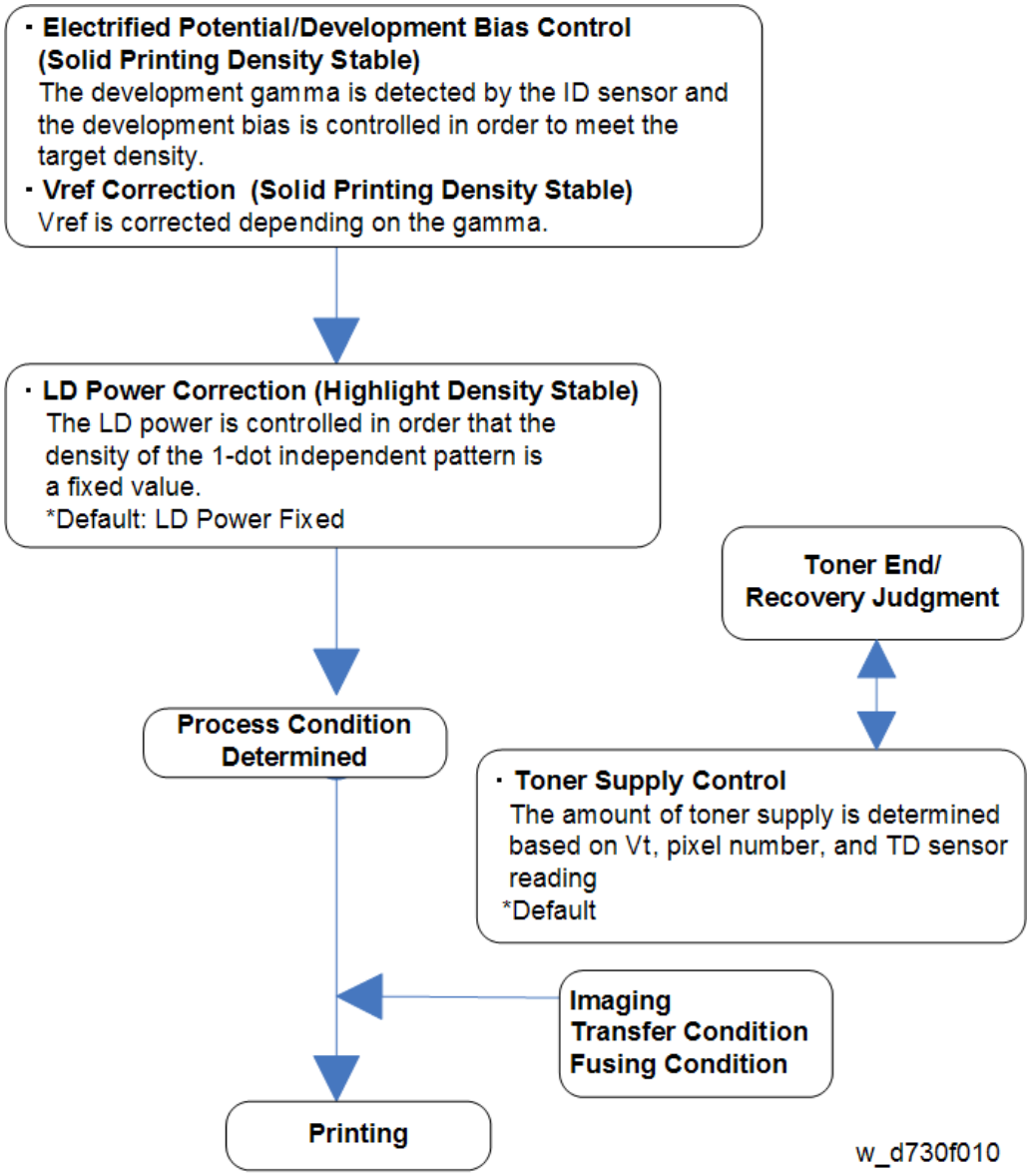
Toner starts to adhere to the drum in proportion to the potential when the value of potential becomes more than Vb. The value (coefficient) which shows the relation between the potential and the amount of adhesion is called development gamma.



In addition to the development gamma and the potential, the toner density in the developer needs to be controlled. This is done to maintain the proper toner density (the amount of toner adhesion).

The target figure for the toner density in the developer is called Vref.

Process Control is done as shown in the following chart, which includes development gamma determination, Vref correction, and LD power control.



Electrified Potential / Development Bias, Vref Correction

Electrified Potential/ Development Bias and Vref Correction are done with the following method.

The operation time differs depending on the line speed.

1. **Adjusting the ID sensor Vsg**

   The machine adjusts the LED strength of the ID sensor so that the value of Vsg (the charge which is detected from the background on the transfer belt) will be in the range of 4.0V ±0.5V. When Vsg is detected as not within the target range three times, SC370 (ID sensor error) will be detected.

   Note

   - SP3-320-031/032/033 (Vsg Error Counter)
   - SP3-320-013 (Vsg Upper Threshold)
   - SP3-320-014 (Vsg Lower Threshold)

2. **Agitating the Developer (10 seconds)**

   The machine agitates the developer and reads the TD sensor output.

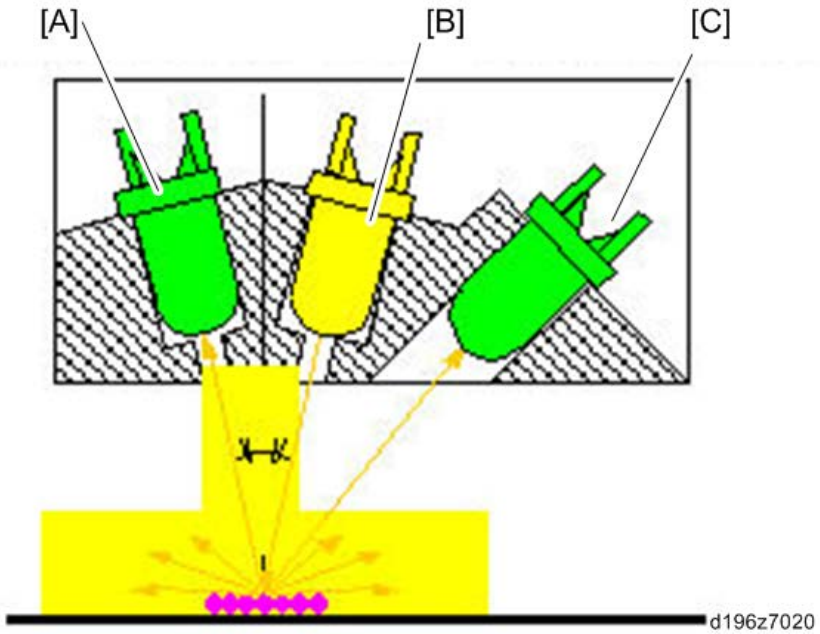
Note

- SP3-539-001 (Dev Agitating Time :Set)

3. **Creating patterns, detecting the density**

   5 patterns are created on the transfer belt and detected by each ID sensor, with the charge and development bias adjusted to create each pattern.

   The ID sensor contains an LED [B] and two types of photo detector. The sensor detects the reflection from the LED with the positive reflection detector (REG) [A] and the diffused reflection detector (DIF) [C].



4. **Determining Vref from the Development Gamma**

   This decides the charge voltage and development bias

LD Power Control

LD Control is set with SP3-600-002 (Process Control/ Select ProCon: LD Control).

- **To use a fixed LD Power**

  Change the SP setting to [Fixed]. LD strength is fixed with SP2-221-001 to 004.

- **To control LD Power by Process Control (Default)**
  - The LD power is determined by process control.
  - The LD strength is adjusted based on a table which is determined by the Development Bias Control and Vref Correction.

Toner Supply Control

The Toner Supply Type can be selected with SP3-400-001 to 004 (Toner Supply Type).

- **0: Fixed (Fixed Amount Supply)**

  The toner supply time is calculated based on the supply rate of SP3-440-001 to 004 (DrvTime: Setting).

- **2: PID (Proportion Integral Differential)**

  The amount of toner supply is calculated based on the pixel information and TD sensor information.

- **4: DANC (Divided Active Noise Control) (Default)**
  Conventional PID method + active noise control. It controls the timing to supply the developer to minimize uneven developer density in the development unit.
- **1, and 3 : Not used**

Developer Initialization

When a new PCDU is set in the machine, the machine automatically detects it and enters the developer initialization mode. The machine then detects the μ count which is an output from the TD sensor. The developer initial setting is done as follows.

1. Starting the developer initialization
The new unit detection mechanism triggers the developer initialization.

2. Agitating the developer
The machine rotates the development roller and transport coil to agitate the developer for 30 seconds.

3. Detecting the μ count (initial value)
While agitating the developer, the machine detects the output from the TD sensor, and stores this output as the initial μ count.

4. Calculating Vt
The machine calculates Vt using the difference of the current μ count while referring to the initial μ count through SP.

5. Forced toner supply (only when installing a new machine)
This step is required only when a new machine has just been installed, because there is no toner in the toner supply route.

When the developer initialization is successfully completed, the machine stores the calculated Vt as Vref. Then Vref is used as a reference the next time the machine performs developer initialization.

SC360-01 through -04 appears if the results of step 3 are as follows:

- The μ count is equal or exceeds the threshold (6480 [counts]).
- The μ count does not match the target threshold (5800 – 6380 [counts]) three times consecutively.

Process Control and MUSIC are forcibly done after developer initialization when a PCDU has been replaced.

MUSIC (Automatic Color Registration Correction)

Correction Timing

The machine creates correction patterns, measures the image position by reading the correction patterns, and corrects the laser writing position.

	Operative Condition	Notes
1	Power switch just turned on, or recovering from the energy save mode	Mode **b** or Mode **a** is done See notes *1 and *2 below.

	Operative Condition	Notes
2	When printing (when the temperature has changed by a certain amount since the previous job ended, or when the number of pages printed becomes more than a set number)	Mode **b** is done
3	End of printing (when the temperature has changed by a certain amount since the previous job ended, or when the number of pages printed becomes more than a set number)	Mode **b** is done
4	Front cover opening/closing (when the temperature has changed by a certain amount since the previous job ended)	Mode **b** is done
5	Waiting (when the temperature has changed by a certain amount since the previous job ended, and when the number of pages printed becomes more than a set number)	Mode **b** is done
6	When the machine detects a new PCDU, and image transfer belt	Mode **a** is done

*1 Mode a: Fine adjustment twice

*2 Mode b: Fine adjustment once

Executing MUSIC Manually

To operate modes a, b, and c manually, use the following SPs.

- SP2-111-001 (Mode a)
  Fine adjustment twice.
- SP2-111-002 (Mode b)
  Fine adjustment once.
- SP2-111-003 (Mode c)
  Rough adjustment once. Do this SP after the laser unit is changed.
- SP2-111-004 (Mode d)
  When the standard paper transfer roller is installed: Rough adjustment -> fine adjustment -> contact MUSIC (new process)
  When the imageable area extension unit is installed: Rough adjustment -> fine adjustment
  Normally in the field, we should only use mode d.
  SP2-111-004 is the same process as the "Color Registration" on "Maintenance: Image" settings in User Tools menu.

Note

- Color registration errors can be corrected only by mode d when the error is large.

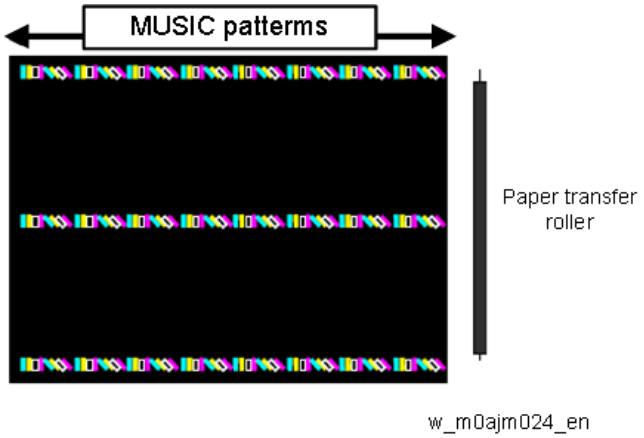
Contact MUSIC (SP2-111-004)

Correction with higher accuracy can be performed by contacting the image transfer roller and executing MUSIC in a condition that is almost the same as during actual printing. This process is called ‘contact MUSIC’.

Contact MUSIC can be done manually by executing HOME screen -> User Tools icon -> Maintenance: Image -> Color Registration (SP2-111-004).

Contact MUSIC's process is composed of the following three steps.

1. Normal (No-contact) MUSIC with 3 points (left, center, and right points in the picture below) on the ITB.
2. Paper transfer roller moves into contact with the ITB.
3. Contact MUSIC with 2 points (left and right points in the picture below).



Because the left and right points are outside the paper transfer roller, the paper transfer roller does not get dirty. When the imageable area extension unit is installed, the left and right points (where the ID sensors are located) is in the printing area. Therefore, the image transfer roller cannot be contacted and execution of MUSIC becomes the same as the previous machine.

To execute Contact MUSIC, replace the imageable area extension unit to a normal roller, and set SP2-400-001 (Paper Transfer Roller Settings) to "0: Default roller".

Items	Similar Machine (MP C4503/C6003)	SP C840DN SP C842DN
Normal Operation	rough adjustment -> fine adjustment only	rough adjustment -> fine adjustment -> contact MUSIC
With Imageable Area Extension Unit	rough adjustment -> fine adjustment only	rough adjustment -> fine Same as the similar machine

Execution time varies from model to model.

Similar Machine		This Machine	
MP C4503	About 20 sec.	SP C840DN	About 25 sec.
MP C5503/C6003	About 17 sec.	SP C842DN	About 21 sec.

MUSIC Error Judgment

When MUSIC is done, the results must be checked for each color. SP2-194-007 shows whether MUSIC was OK or NG, and SP2-194-010 to 012 show the details of the result.

- SP2-194-007 (Execution Result)

Detection Result	**Meaning**
0	Success
1	Failure

- SP2-194-010 (Error Result: C)
- SP2-194-011 (Error Result: M)

- SP2-194-012 (Error Result: Y)

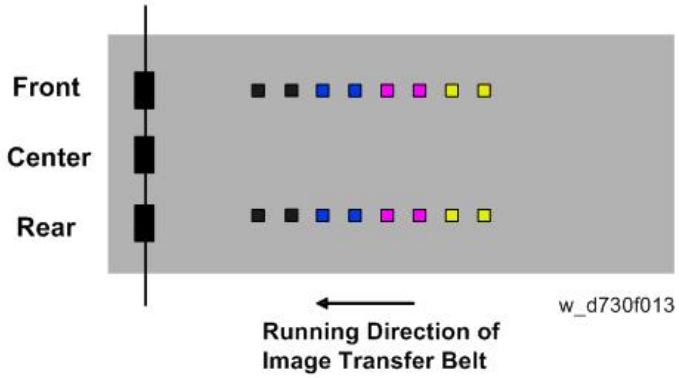
Detection Result	Meaning
0	MUSIC not executed
1	Correction Succeeded: Sampling is conducted correctly and the correction is completed
2	Sampling Failed (When the MUSIC pattern failed to be detected)
3	Detection Patterns Lack (When the number of lines detected is smaller than the fixed number)
4	The sampled data is beyond the correction range. (Calculated correction value is just out of rage)
5	The sampled data is falsely detected.

Correction Operation Outline

1. The machine corrects the ID sensor output by Vsg adjustment
2. The machine creates the MUSIC pattern on the transfer belt with toner of each color.
3. The machine reads the MUSIC pattern on the transfer belt and detects the positions of the line patterns.
4. The machine calculates the amount of color registration or skew from the detected positions.
5. The machine determines the correction for the color registration, by calculating the required main scan magnification shift, main scan magnification deviation, main scan registration shift, skew correction value, and sub scan registration shift from the detected positions.

Real Time Process Control

During printing, 5 mm patterns are created outside the normal imaging area on the transfer belt, and the image density is corrected in real time, to improve printing of solid areas. However, note that if the optional Imageable Area Extension Unit is installed, this process is disabled.



Normally, the real time control is done once every 10 sheets, but it could be done once every 5 sheets depending on the density detection level.

The frequency depends on the following SPs.

- SP3-301-001: RTP Pattern:Set:Create Intrvl:BW
- SP3-301-002: RTP Pattern:Set:Create Intrvl:FC

To see the latest result, check the following SPs. If there is an error, the result will not be updated.

- SP3-300-001 to 004 RTP Pattern:Disp:M/A(Latest):Each Color
- SP3-300-001 to 004 RTP Pattern:Disp:M/A(Target):Each Color

IBACC

Outline

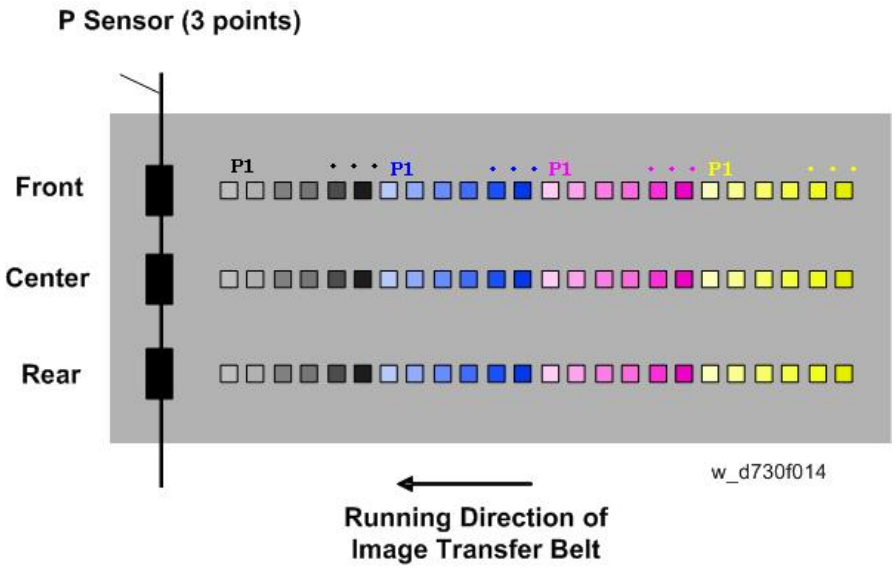
IBACC (Image transfer belt type of inner ACC) maintains the quality of gradation in the images. To do this, the machine makes a gradation pattern on the transfer belt, and measures variations in density between the middle to the highlight tone, which solid printing control cannot correct perfectly. The machine feeds back variations in the density to the image-processing parameters (the digital gamma correction table).

Operation Timing

IBACC must be done in the shortest time possible, in cooperation with process control. This is because the process requires time to adjust. If the ON/OFF setting of IBACC operation (SP3-600-030) is ON, IBACC is done at the time of normal process control. If the setting is OFF, the IBACC is not done.
Before the IBACC procedure, the machine determines whether IBACC can be done, based on the engine condition. If there is an error in the latest process control, the following IBACC is considered to be unnecessary.

Patch Pattern

16x16 patterns are created. The order of the tones depends on the image processing layout. There are patterns for 600 dpi and 1200 dpi.



SP Descriptions

- **SP2-111-001 (Forced Line Position Adj.: Mode a)**
  Executes MUSIC mode a (fine-tune x 2)
- **SP2-111-002 (Forced Line Position Adj.: Mode b)**

Executes MUSIC mode b (fine-tune x 1)

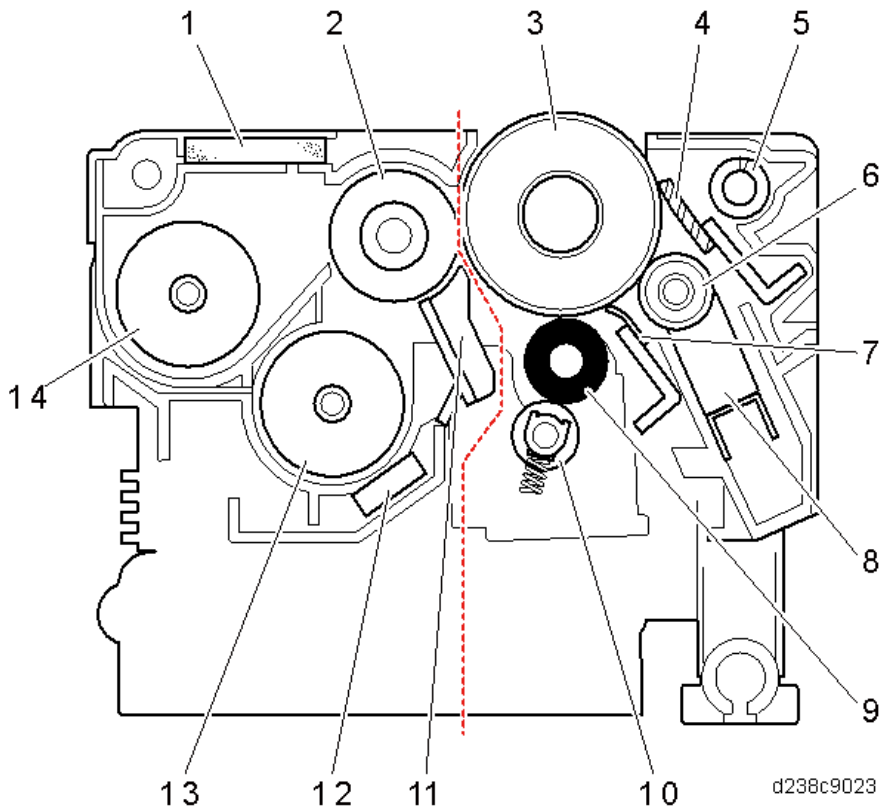
- **SP2-111-003 (Forced Line Position Adj.: Mode c)**
  Executes MUSIC mode c (rough-tune x 1)
- **SP2-111-004 (Forced Line Position Adj.: Mode d)**
  Executes MUSIC mode d (rough-tune then fine-tune)
- **SP2-194-007 (MUSIC Execution Result: Execution Result)**
  Displays the execution results of MUSIC.
  0: Completed successfully, 1: Failed
- **SP2-194-010,-011, and -012 (MUSIC Execution Result:Error Result: C, M, Y)**
  Displays the details of MUSIC results for each color.
- **SP3-011-001 (Manual ProCon :Exe: Normal ProCon)**
  Executes Process Control.
- **SP3-011-002 (Manual ProCon :Exe: Density Adjustment)**
  Executes toner density adjusting Process Control.
- **SP3-011-003 (Manual ProCon :Exe: ACC RunTime ProCon)**
  Executes pre-ACC Process Control.
- **SP3-011-004 (Manual ProCon :Exe: Full MUSIC)**
  Executes Process Control and full MUSIC.
- **SP3-011-005 (Manual ProCon :Exe: Normal MUSIC)**
  Executes Process Control and normal MUSIC.
- **SP3-012-001 to 010 (ProCon OK?: Front)**
  Displays the past 10 Process Control result codes detected by the front TM/ID sensor. The code is 2 digits per color from left, in the order of YMCK.
- **SP3-012-011 to 020 (ProCon OK?: Center)**
  Displays the past 10 Process Control result codes detected by the center TM/ID sensor. The code is 2 digits per color from left, in the order of YMCK.
- **SP3-012-021 to 030 (ProCon OK?: Rear)**
  Displays the past 10 Process Control result codes detected by the rear TM/ID sensor. The code is 2 digits per color from left, in the order of YMCK.
- **SP3-400-001 to 004 (Toner Supply Type: Select; Bk, C, M, Y)**
  Selects the toner supply mode.
  0: FIXED, 2: PID, 4: DANK
- **SP3-530-001 to 008 (PowerON ProCon :Set)**
  Specifies the non-use time setting, temperature, relative humidity, absolute humidity or page interval as the threshold of process control execution determination at power on.
- **SP3-531-001 to 004 (Non-useTime Procon :Set)**
  Specifies the non-use time setting, temperature, relative humidity, absolute humidity or page interval as the threshold of process control execution determination for during the stanby-mode.
- **SP3-533-001 (Interrupt ProCon :Set: Interval:Set:BW)**

Specifies the number of sheets interval for Interrupt Process Control (BW).

- **SP3-533-002 (Interrupt ProCon :Set: Interval:Disp:BW)**
  Displays the number of sheets interval for Interrupt Process Control (BW).
- **SP3-533-003 (Interrupt ProCon :Set: Corr(Short):BW)**
  Specifies the correcting coefficient (Short) of number of sheets interval for Interrupt Process Control (BW).
- **SP3-533-004 (Interrupt ProCon :Set: Corr(Mid):BW)**
  Specifies the correcting coefficient (Mid) of number of sheets interval for Interrupt Process Control (BW).
- **SP3-533-011 (Interrupt ProCon :Set: Interval:Set:FC)**
  Specifies the number of sheets interval for Interrupt Process Control (FC).
- **SP3-533-012 (Interrupt ProCon :Set: nterval:Disp:FC)**
  Displays the number of sheets interval for Interrupt Process Control (FC).
- **SP3-533-013 (Interrupt ProCon :Set: Corr(Short):FC)**
  Specifies the correcting coefficient (Short) of number of sheets interval for Interrupt Process Control (FC).
- **SP3-533-014 (Interrupt ProCon :Set: Corr(Mid):FC)**
  Specifies the correcting coefficient (Mid) of number of sheets interval for Interrupt Process Control (FC).
- **SP3-534-001 (JobEnd ProCon :Set: Interval:Set:BW)**
  Specifies the number of sheets interval for Job end Process Control (BW).
- **SP3-534-002 (JobEnd ProCon :Set: Interval:Disp:BW)**
  Displays the number of sheets interval for Job end Process Control (BW).
- **SP3-534-003 (JobEnd ProCon :Set: Corr(Short):BW)**
  Specifies the correcting coefficient (Short) of number of sheets interval for Job end Process Control (BW).
- **SP3-534-004 (JobEnd ProCon :Set: Corr(Mid):BW)**
  Specifies the correcting coefficient (Mid) of number of sheets interval for Job end Process Control (BW).
- **SP3-534-011 (JobEnd ProCon :Set: Interval:Set:FC)**
  Specifies the number of sheets interval for Job end Process Control (FC).
- **SP3-534-012 (JobEnd ProCon :Set: Interval:Disp:FC)**
  Displays the number of sheets interval for Job end Process Control (FC).
- **SP3-534-013 (JobEnd ProCon :Set: Corr(Short):FC)**
  Specifies the correcting coefficient (Short) of number of sheets interval for Job end Process Control (FC).
- **SP3-534-014 (JobEnd ProCon :Set: Corr(Mid):FC)**
  Specifies the correcting coefficient (Mid) of number of sheets interval for Job end Process Control (BW).
- **SP3-539-001 (Dev Agitating Time :Set: Time**)
  Specifies the developer agitation time.
- **SP3-600-002 (Select ProCon: LD Control)**
  Specifies the LD control mode.
  0:OFF, 1:ON
- **SP3-600-030 (Select ProCon: IBACC:ON/OFF)**
  Specifies ON/OFF for IBACC.
  0: OFF, 1: ON

PCDU (Photo Conductor and Development Unit)

Overview



No.	Description	No.	Description
1	Inner pressure adjustment filter	8	Lubricant bar
2	Development roller	9	Charge roller (non-contact)
3	OPC drum	10	Cleaning roller (charge roller)
4	Cleaning blade	11	Doctor blade
5	Toner collection coil	12	TD sensor
6	Lubricant roller	13	Developer supply coil
7	Lubricant blade	14	Developer collection coil

Mechanism (PCU)

Drum Drive

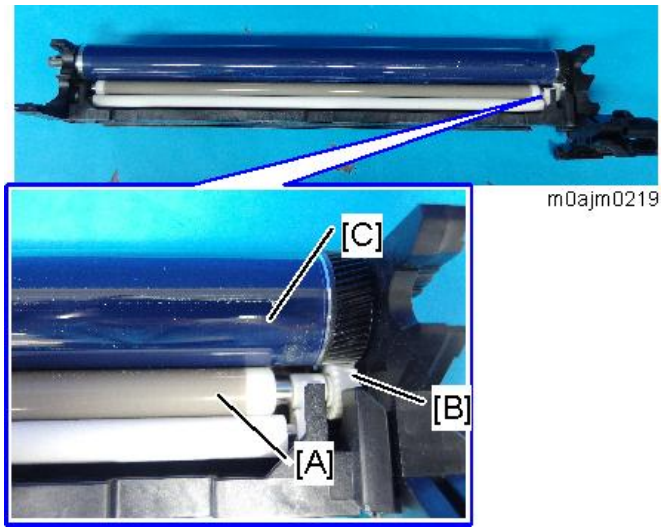
Bk and CMY are both driven by motor.

PCU	Drive source
Bk	PCU: Black / ITB Drive Motor*
CMY	Color PCU motor

* The PCU: Black / ITB Drive Motor is used to drive both the image transfer unit and the waste toner bottle.

Charge

This machine uses a charge roller for each of the four colors to reduce generation of ozone.
The charge roller [A], which is a rubber-covered roller that has a metal shaft, rotates via the gear [B] with the drum [C], and applies a uniform charge to the drum surface.



The life of the PCU is extended by separating the charge roller from the drum by about 60 μ.
When the charge roller is dirty, an uneven charge is generated, so a cleaning roller always contacts the charge roller.

Drum Cleaning

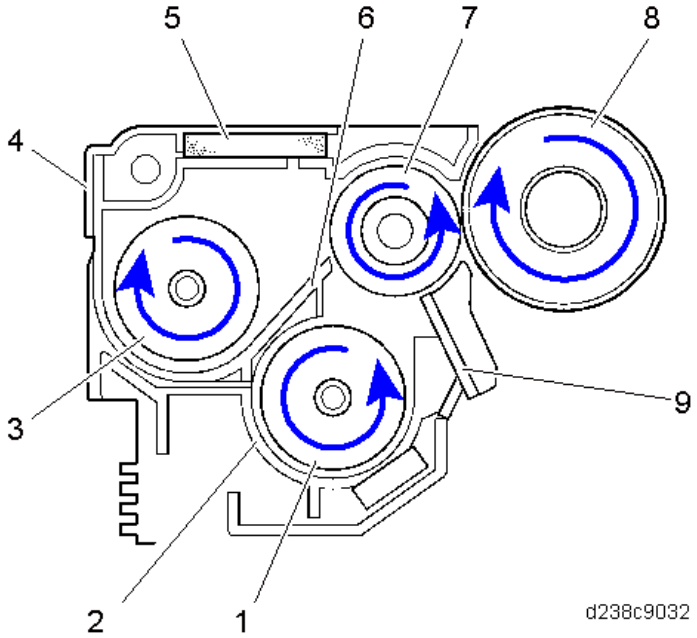
Residual toner on the drums is removed by a cleaning blade. The cleaning blade is installed counter to the drum rotation and in contact with the drum, and scrapes toner off.
The lubricant roller rotates in the opposite direction to the drum, and coats the drum with a solid lubricant to enhance cleaning. Also, by installing the lubricant blade in the trailing direction instead of as a conventional counter blade, and by replacing the lubricant brush with a lubricant roller, the lifetime of the device is extended.
In addition to cleaning, the solid lubricant reduces wear of the drum that is due to the blade.

Mechanism (Development)

Development System

A dry two-component magnetic brush development system is used.
The dry two-component magnetic brush development system gives a suitable electrostatic charge to the toner using magnetic particles called carriers which form a magnetic brush due to their magnetism, and cause toner to adhere electrostatically to the drum surface.

Agitation System



No.	Description	No.	Description
1	Developer supply coil	6	Separation plate
2	Lower case	7	Development roller
3	Developer collection coil	8	OPC drum
4	Upper case	9	Doctor blade
5	Inner pressure adjustment filter		

TD (Mu) Sensor

In the TD sensor (also called the μ sensor), there is an ID chip storing the machine identification information, the running distance information of development unit and PCU, and other information used by image density control.

ID chip

PCDU replacement information and toner density information are stored.

In the ID chip, the following data is stored.

- Model series ID
- New PCDU information
- Color information
- Developer replacement information
- PCU replacement information
- TD sensor serial no., date of manufacture
- Date of unit installation
- Unit total counter at installation (no. of sheets, travel distance)
- Date of unit operation

- Unit total counter during operation (no. of sheets, travel distance)
- Unit parts information
- Total counter
- Total color counter

Pressure Release Filter

To prevent scattering of toner, the air pressure in the development unit is released via a filter.

Development Drive

A gear for developer coil rotation is provided on the front side of the unit (downstream side).

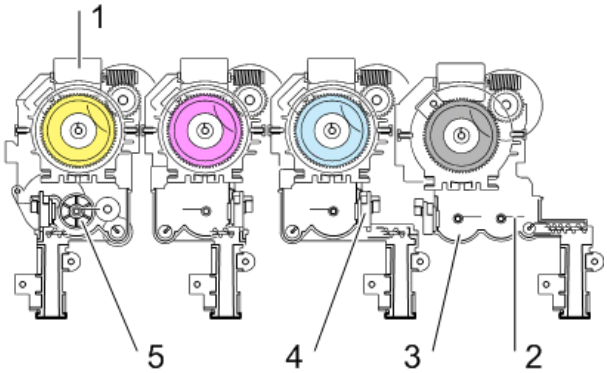
Drive source for Bk	Drive source for C, M, Y
Development Motor: Black	Development Motor: CMY

Development Bias

Applied from the development power pack via a plate spring on the front cover of the PCDU.

Toner Supply

Overview



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No.	Description	No.	Description
1	Toner bottle drive motor	4	Toner end sensor
2	Agitator	5	Toner supply motor
3	Sub-hopper		

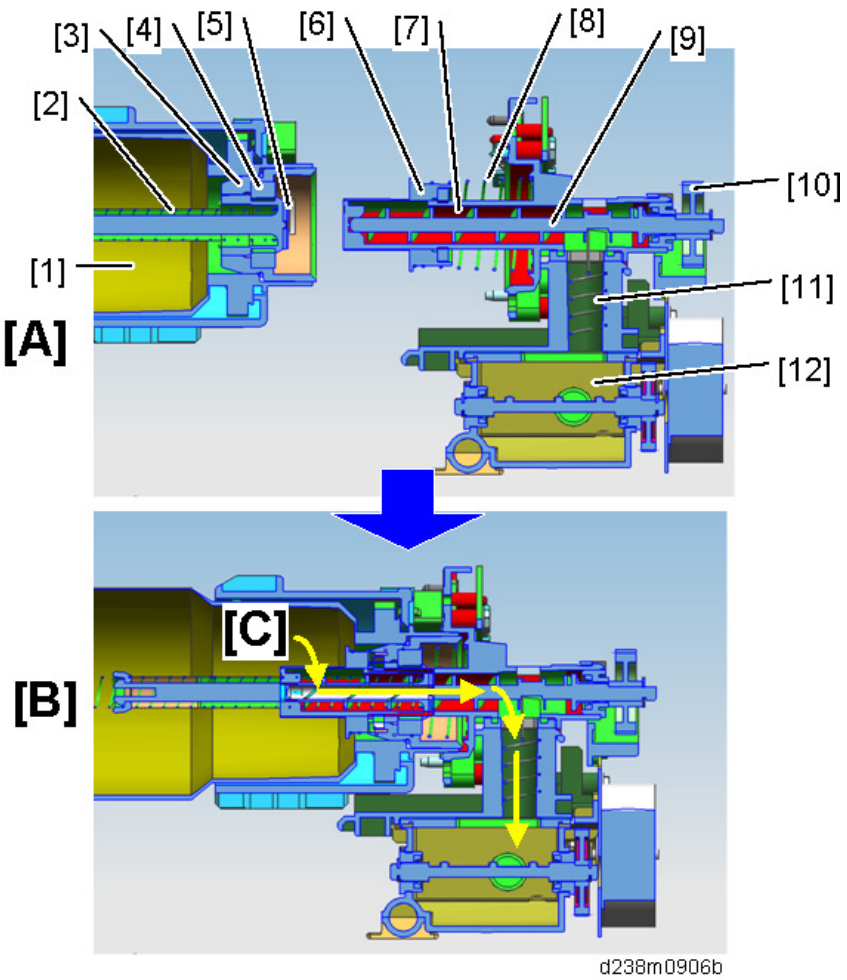
Toner is supplied by a Hi-Act (High Accuracy and Clean Toner) cartridge + sub-hopper.

Mechanism

Toner supply (Toner Bottle - Sub-hopper)

When the toner bottle is set, the transport nozzle on the side of the unit is inserted into the bottle (Hi-Act system). If the piezoelectric sensor in the sub-hopper detects there is no toner when the toner supply motor starts, the toner bottle drive motor rotates *1. The rotation of the toner bottle drive motor is transmitted to a transport coil via a drive gear, and toner in the bottle is transported horizontally. Due to the coil transport, stable toner supply/enhanced supply precision/reduction of residual toner are achieved.

*1 As the default, the period of rotation is set to 0.9 sec in SP3-161-001 to 004 (Bottle Drive: Set Drive ON Time).



[A]: Before setting

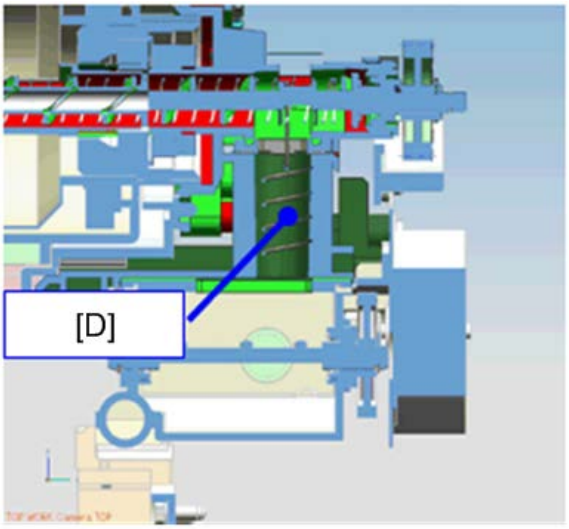
[B]: After setting

[C]: Toner path

No.	Description	No.	Description
1	Toner bottle	7	Transport nozzle
2	Coil spring	8	Coil spring
3	Shutter holder	9	Toner transport coil
4	Seal	10	Drive gear
5	Shutter	11	Rocking spring
6	Shutter	12	Sub-hopper

Toner transported by the coil falls directly into the sub-hopper via the transport pipe.

To prevent toner from remaining, the rocking spring in the transport pipe moves up and down together with the coil.



m0ajm0334

[D]: Rocking spring

Toner bottle ID chip

A contact type ID chip is provided in each toner bottle which stores residual toner and various toner counters, toner end history, and model serial number.

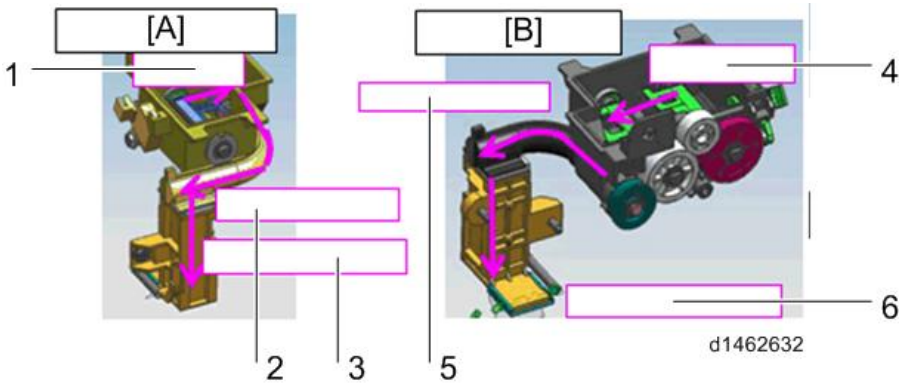
Data read and write to the ID chip contact board on the machine is performed by its contact with the toner bottle ID chip.

Toner supply (Sub-hopper - Development Unit)

The sub-hopper can hold Bk: 24.7 cc (equivalent to 230 sheets of 5% chart), or Color: 19.3 cc (equivalent to 150 sheets of 5% chart) of toner.

Toner which has fallen into the sub-hopper is homogenized by an agitator (Mylar sheet: 2 for BK, 1 for each color).

After being horizontally transported by the coil, toner in the sub-hopper falls directly into the development unit.



[A]: Sub-hopper: CMY

[B]: Sub-hopper: Bk

1. Agitated by the mylar sheet
2. Transported horizontally by the coil

3. Vertically dropped into the development unit
4. Agitated by the mylar sheet
5. Transported horizontally by the coil
6. Vertically dropped into the development unit

Drive

To shorten the recovery time after bottle replacement, the toner cartridge and sub-hopper are driven separately. The sub-hopper is driven by a stepping motor to reduce supply variations.

Toner Near End/End Detection

In this device, there are two types of toner near end status.
The detection conditions and detection operation for each status are shown in the following table.

Control overview

Status	Control panel message	Detection conditions
Estimated toner end SP3-101-001 to 004="2"	Control panel banner display: 'Toner Cartridge is almost empty. Prepare toner cartridge replacement(s).'	If the residual amount in the toner cartridge falls below SP3-110-001 to 004 (Near End Thresh) (Default: K 65g, CMY 45g) The lesser of the "toner residual amount computed from the toner supply motor drive time" and the "toner residual amount computed from the pixel count" is taken as the toner residual amount.
Definite toner near end SP3-101-001 to 004="1"	Control panel banner display: 'Toner Cartridge is empty. Printing will be suspended soon. Replace the cartridge.'	If "the toner cartridge residual amount falls below specification" and "the toner end sensor in the sub-hopper has detected toner end" Remarks: When toner end is detected, to use up all the toner in the cartridge, the toner cartridge is rotated for 5 seconds (full use control). After no toner is detected again, the status becomes definite toner near end.
Toner end	Control panel pop-up display (alert screen): 'Toner has been depleted. Replace Toner Cartridge.'	Toner end is defined by the following conditions (1) or (2): (1) Determination by number of sheets and pixel count (After definite toner near end, count is begun). (2) Determination by Vt output (not related to definite toner near end)

Control details

Estimated toner near end

- The toner residual amount Z (SP3-102-021 to 024) is taken as the lesser of the toner residual amount Z1 computed from the toner supply motor drive time (SP3-102-001 to 004) and the toner residual amount Z2

computed from the pixel count (SP3-102-011 to 014).

- If the condition, toner residual amount Z (SP3-102-021 to 024) < near end residual amount threshold value (SP3-110-001 to 004) is satisfied, this is taken as the estimated toner near end.

Definite toner near end

Preconditions

- The toner residual amount Z (SP3-102-021 to 024) is taken as the lesser of the toner residual amount Z1 computed from the toner supply motor drive time (SP3-102-001 to 004) and the toner residual amount Z2 computed from the pixel count (SP3-102-011 to 014).
- If the condition, toner residual amount Z (SP3-102-021 to 024) < sensor near end residual amount threshold value (SP3-120-001 to 004) is satisfied, toner end sensor detection is begun to determine the definite end. (When the toner residual amount is more than the threshold value, determination by the toner end sensor is not performed).

Sensor detection

- The toner end sensor detects the sensor output every 200 ms while the polygon motor is ON, and determines whether toner is present or not from the latest 10 counts.
- The determination result is stored in the "no toner counter (SP3-121-001 to 004)".
  To prevent clearing due to erroneous detection, the counter is reset if the toner end sensor detects "toner remaining" 4 times in a row.
- If the condition "no toner counter (SP3-121-001 to 004) > sensor near end determination threshold value (SP3-122-001 to 004) is satisfied, full use control which rotates the toner bottle for a certain time (SP3-163-001) is performed, and toner presence/absence determination by the toner end sensor is performed again.
- If no toner is detected after full use control determination, it is taken as definite toner near end.

Operation after changing status to definite toner near end

- After changing the status to definite toner near end, sheet counter and pixel counter increment is begun to detect toner end.
  SP3-133-011 to 014 (TE Detect :Set Page Cnt:K, C, M, Y)
  SP3-133-031 to 034 (TE Detect :Set Pxl Cnt:K, C, M, Y)

Operation during definite toner near end

- When the toner supply motor drives and the toner end sensor detects no toner, the toner bottle drive motor drives for 2 seconds.
- If "toner remaining" is detected 4 times in a row, according to the ID chip data on the toner bottle SP3-101-001 to 004 (Toner Status :Disp) display "10" or "2" (estimated toner end).
- When it comes under the condition of Toner End Pattern (1) and (2) (mentioned below), the status becomes toner end.
- After the toner bottle is replaced during definite toner near end, the judgement of toner end is not done until the toner bottle motor drives for 40 or more seconds totally.

Toner end

Toner End Pattern (1): Determination by paper sheet counter/pixel counter

- The total sheet counter and pixel counter values after definite toner near end are compared with the threshold values.
- If the following "(evaluation method A=TRUE) and (evaluation method B=TRUE) or (evaluation method C=TRUE)" is satisfied, it is determined as toner end.

Determination method A: Sheet counter (SP3-133-011 to 014) > Sheet counter threshold value (min)

Determination method B: Sheet counter (SP3-133-011 to 014) > Sheet counter threshold value (max)

Determination method C: Pixel counter (SP3-133-031 to 034) > Pixel counter threshold value

Toner End Pattern (2): Determination by Vt output

- When the deviation between the TD sensor output value and TD sensor target value has become large, it is taken as toner end.
- After definite toner end has been determined

The difference between the output of the TD sensor (Vt: SP3-210-001 to 004) and the target value of the TD sensor (Vtref: SP3-230-001 to 004) is computed as the delta Vt, and values of the delta Vt larger than the threshold value (SP3-131-001) are integrated as "sigma delta Vt" (SP3-132-001 to 004).

If the integration value of "sigma delta Vt" is larger than the threshold value (SP3-132-002), it is determined to be toner end.

- Before definite toner near end is determined (bottle full or estimated toner near end)

The computation is done in the same way as for definite toner near end, but separate values for the delta Vt threshold value and "sigma delta Vt" threshold value are used.

The delta Vt threshold value before NE: SP3-131-011

The "sigma delta Vt" threshold value before NE: SP3-131-012

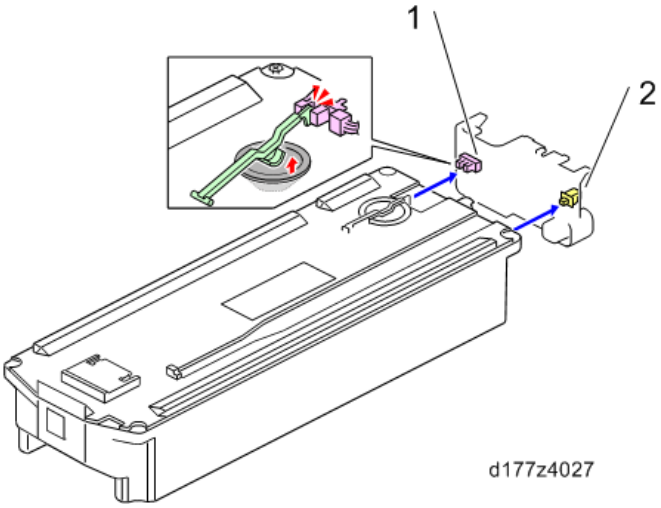
SP Descriptions

- **SP3-101-001 to 004 (Toner Status :Disp)**
  Displays the amount of toner remaining for each color. Uses a descending 10-step scale: 10: Full, 2: Estimated toner near end, 1: Definite toner end, 0: Toner end
- **SP3-110-001 to 004 (Near End Thresh)**
  Sets the threshold amount for detecting near-toner end.
- **SP3-102-001 to 004 (Toner Remain:Disp: Bottle Motor Bk, C, M, Y)**
  Displays the remaining toner calculated from the motor running time.
- **SP3-102-011 to 014 (Toner Remain:Disp: Pixel Bk, C, M, Y)**
  Displays the remaining toner calculated from image coverage.
- **SP3-102-021 to 024 (Toner Remaining: Display: Fill Amount Bk, C, M, Y)**
  Displays the full amount of toner in a new toner bottle.
  The amount is different for different bottle types (such as pre-installed toner bottles and replacement toner bottles).
  When a new toner bottle is installed, the data of the toner amount in the ID chip is saved in this SP.
  The value in this SP is then used to calculate how much toner is left in the toner bottle and for Toner Near End detection.

- **SP3-120-001 to 004 (TE Sn Detect Thresh: Bk, C, M, Y)**
  Sets the starting threshold for toner near-end detection by the toner end sensor.
- **SP3-121-001 to 004 (TE Counter: Disp: Bk, C, M, Y)**
  Displays the number of times the toner end sensor detected toner end.
- **SP3-122-001 to 004 (TE Sn NE Thresh: Bk, C, M, Y)**
  Sets the number of toner end detections to start toner near-end detection.
- **SP3-163-001 (Bottle Drive: Set Rotation Time at Toner End)**
  Sets the empty rotation time [ms] at almost toner-end.
- **SP3-133-011 to 014 (TE Detect :Set Page Cnt:K, C, M, Y)**
  Displays the number of sheets printed after toner near-end is fixed.
- **SP3-133-031 to 034 (TE Detect :Set Pxl Cnt:K, C, M, Y)**
  Displays the amount of toner used in cm2 after toner near-end is fixed.
- **SP3-210-001 to 004 (TD.Sens:Vt :Disp: Current: K, C, M, Y)**
  Displays the latest TD sensor output.
- **SP3-131-001 (Vt TE Thresh: Delta Vt Thresh)**
  Specifies the threshold to start adding the delta Vt after toner near-end.
- **SP3-132-001 to 004 (Delta Vt Sum: Bk, C, M, Y)**
  Displays the integrated value of delta Vt.
- **SP3-131-011 (Delta Vt Thresh BF NE)**
  Specifies the threshold to start integrating delta Vt before toner near-end.
- **SP3-131-012 (Delta Vt Sum Thresh BF NE)**
  Specifies the threshold of delta Vt to check toner end before toner near-end.

Waste Toner

Overview



No.	Description	No.	Description
1	Waste toner bottle full sensor	2	Waste toner bottle set sensor

Mechanism

Waste Toner Bottle Set Detection

The waste toner bottle set sensor is at the rear of the waste toner bottle.
If the waste toner bottle is not set, this switch is OFF, so imaging is prohibited, and "Waste toner bottle is not set. Please contact service department." is displayed on the control panel.

Waste Toner Drive

Driven by the "PCU: Black / ITB Drive Motor".

Waste Toner Recovery Path (PCU/Image Transfer Unit)

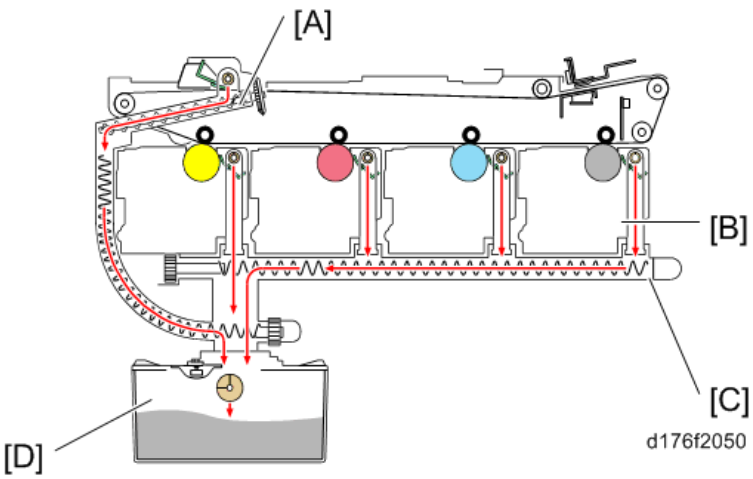
Waste toner from the PCU and image transfer unit is collected in the transport path at the front of the machine, and arrives at the entrance to the waste toner tank.

PCU waste toner transport path

Waste toner recovered by the cleaning blade is transported from the rear of the PCU to the transport path at the front of the machine by the waste toner transport coil.

Image transfer unit waste toner transport path

Waste toner recovered by the image transfer cleaning unit is transported from the rear of the image transfer cleaning unit to the transport path at the front of the machine by the waste toner transport coil.



[A]: Image transfer unit waste toner transport path

[B]: PCDU

[C]: PCU waste toner transport path

[D]: Waste toner bottle

Waste Toner Bottle Full Detection

The waste toner bottle full sensor is at the top of the waste toner bottle. When the waste toner in the bottle has reached approximately 90%, the sensor lifts up a feeler, and an actuator blocks the waste toner bottle full sensor. After sensor detection, the remaining number of days of use is decremented from 18 by the pixel counter.

Full detection flow

1. When waste toner reaches approximately 90% of the bottle capacity, the full sensor switches ON.
2. When the waste toner bottle full sensor switches ON, the days remaining counter is decremented from 18 (days).
3. Days remaining counter: At 15 days to go, a Supply Call is given.
4. Days remaining counter: At 5 days to go, a control panel message (Waste toner bottle is nearly full. Please contact service department.) is displayed. (Nearly full)
5. Days remaining counter: At 0 days to go, a control panel warning is displayed, and the machine stops.

Note

- The days remaining counter starts counting when a new bottle is detected, and displays the days remaining, whose upper limit is 255 and lower limit is 18, until the waste toner bottle full sensor is first switched ON.
  After the full sensor is first switched ON, the days remaining is counted (upper limit is 18)
- When the bottle is replaced before the machine detects a full waste toner bottle and stops printing, it is necessary to reset PM counters manually (SP3-701-142).
- When the bottle is replaced after the machine stopped due to detecting a full waste toner bottle, it is not necessary to reset PM counters. If the counters are reset, the replace counter will count up twice.
- When the days remaining counter reaches 18 days before the bottle full sensor first switches ON: The

days remaining counter stops counting when the counter reaches 18 (days). Then, after the waste toner bottle full sensor detects ON, it restarts counting from 18 (days).

- When the bottle full sensor switches ON before the days remaining counter reaches 18 days:
  When the waste toner bottle full sensor detects ON, the days remaining counter is reset to 18 (days) and starts counting from there.

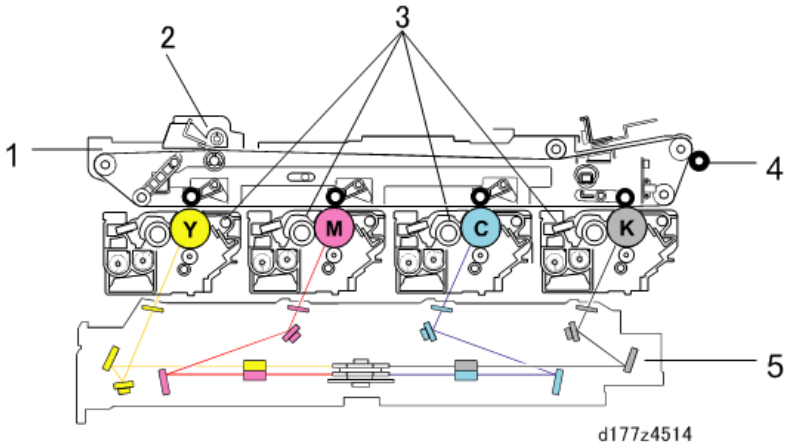
SP descriptions

- SP3-701-142 (Manual New Unit Set: Waste Toner Bottle)
  Enables/disables the new unit detection function. When this function is ON, the machine automatically resets the PM counter when a new unit is detected.

Image Transfer and Paper Transfer

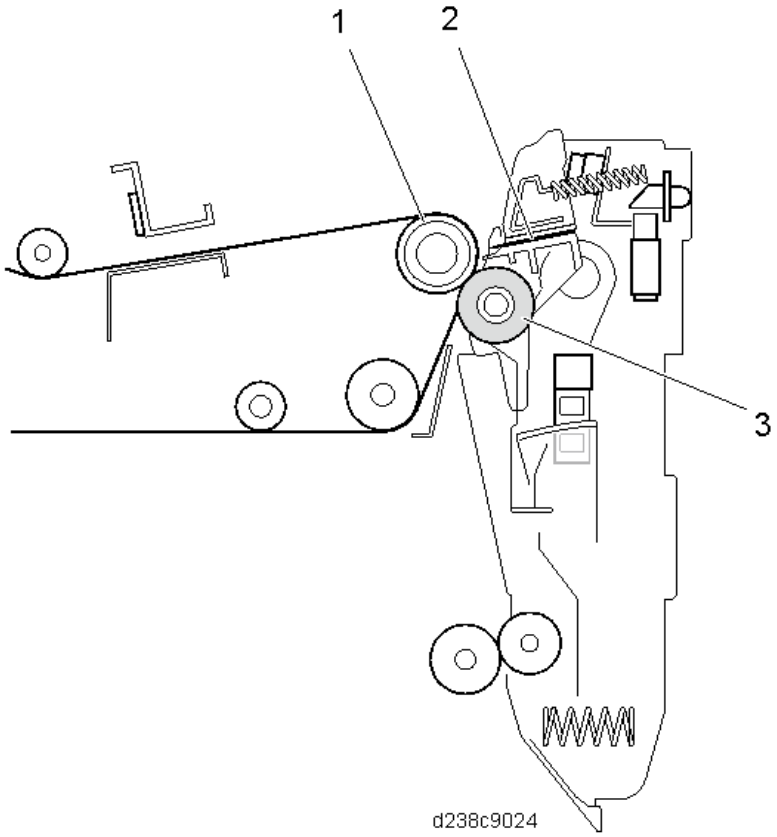
Overview

Image Transfer Unit



No.	Description	No.	Description
1	Image Transfer Unit	4	Paper Transfer Roller
2	Image Transfer Belt Cleaning Unit	5	Laser Exposure Unit
3	PCDU		

Paper Transfer Unit

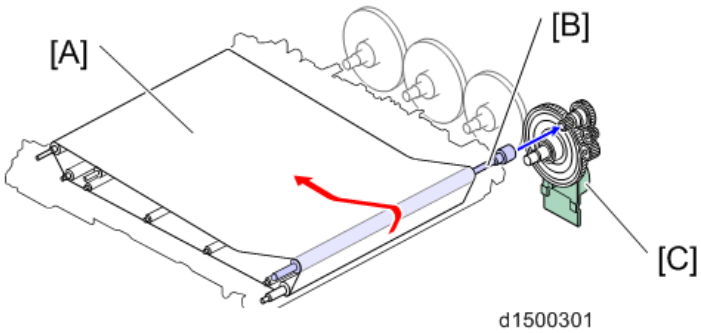


No.	Description	No.	Description
1	ITB Drive Roller	3	Paper Transfer Roller
2	Discharge Plate		

Image Transfer Unit Mechanism

Drive Mechanism

The Image transfer belt is driven by the PCU: black / ITB drive motor via the gear and the ITB drive roller.



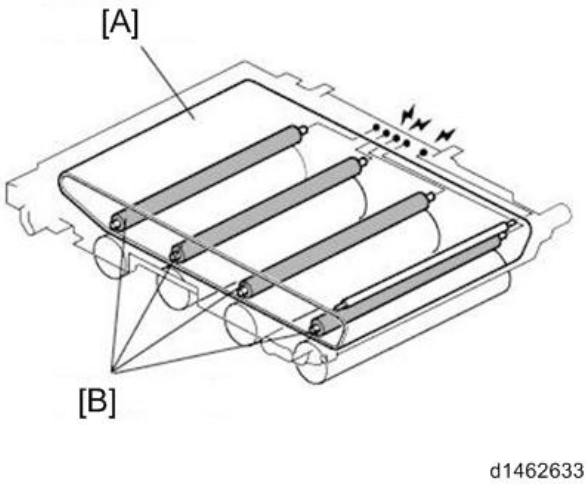
[A]: Image Transfer Belt

[B]: ITB Drive Roller

[C]: PCU: Black / ITB Drive Motor

Transfer Bias

The bias to the image transfer belt is applied to the image transfer roller of each color from the transfer power pack.



[A]: Image transfer belt

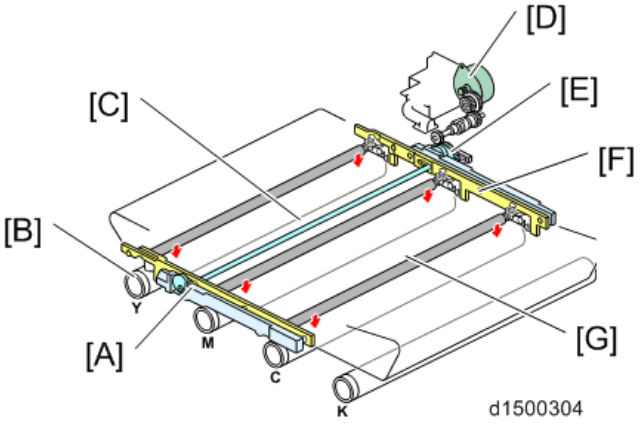
[B]: Image transfer roller

The 5 terminal springs, in order from the right, consist of "ITB Drive Roller, BK (black), C (cyan), M (magenta), and Y (yellow)" transfer bias terminals.

ITB Contact and Release

To prevent early deterioration of the color drums, the image transfer belt unit has a contact/separation mechanism

and, during monochrome printing, the image transfer belt separates from the color drums. Contact/separation of the image transfer belt unit is performed via a gear from the ITB contact and release motor (also used as the magenta toner supply motor). Separation or contact is detected by the ITB contact and release sensor.



[A]: Slider

[B]: Drum

[C]: Contact and release cam

[D]: ITB contact and release motor (also used as the magenta toner supply motor)

[E]: ITB contact and release sensor

[F]: Guide

[G]: Image Transfer Roller

Image Transfer Belt Drive Control

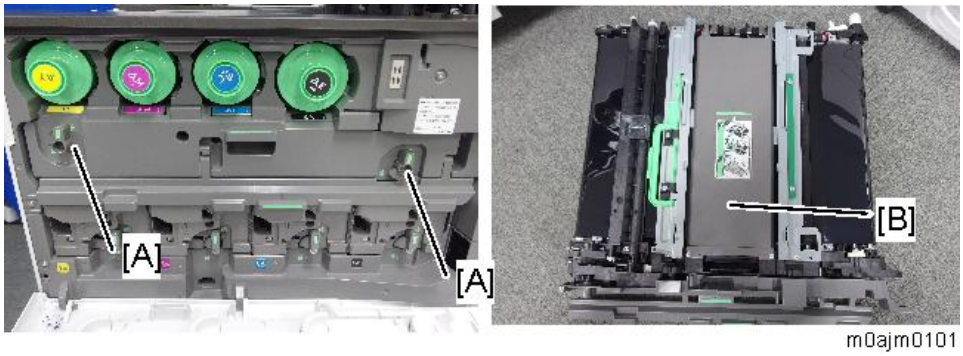
FG Control is performed (Frequency Generator control: ensures precision of motor operation)

Image Transfer Sequence

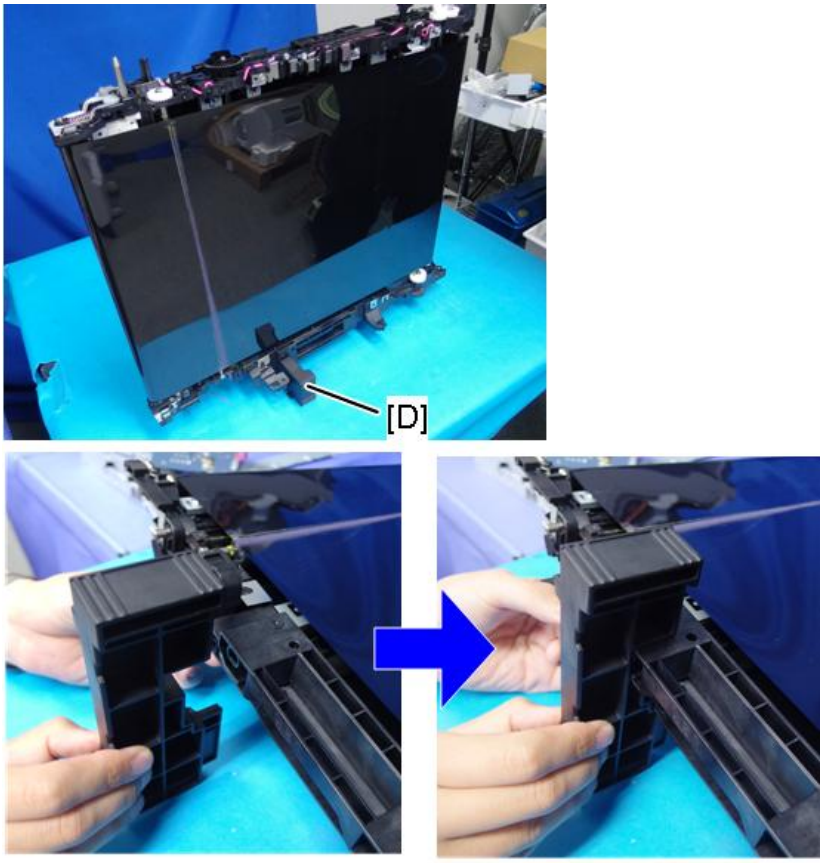
By arranging the imaging sequence in the order Y > M > C > Bk, cyan is laid on top of magenta, which increases tolerance to image blurring and image reddening when dark blue is output, and improves image quality.

Unit Configuration: Changes from Met-C2

Compared to a similar model (Met-C2), this model has 2 lock levers [A] for attaching the image transfer belt unit. The image transfer belt has an upper cover [B] to prevent it from being touched.



When replacing the image transfer belt, the shaft hinders placing the unit vertically, so attach the stand [D] to place it vertically. The stand is stored in the back of the front cover.



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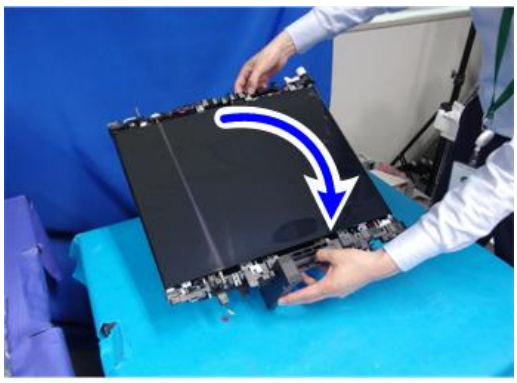
Hold the front and back plastic parts of the image transfer unit, and stand the unit slowly.



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Because of the difference in the level of the grip frame [E], the image transfer belt unit of the similar model (Met-C2) cannot be installed in this machine. The unit with "P2" marked at the front part of the frame is the image transfer belt unit for this machine.

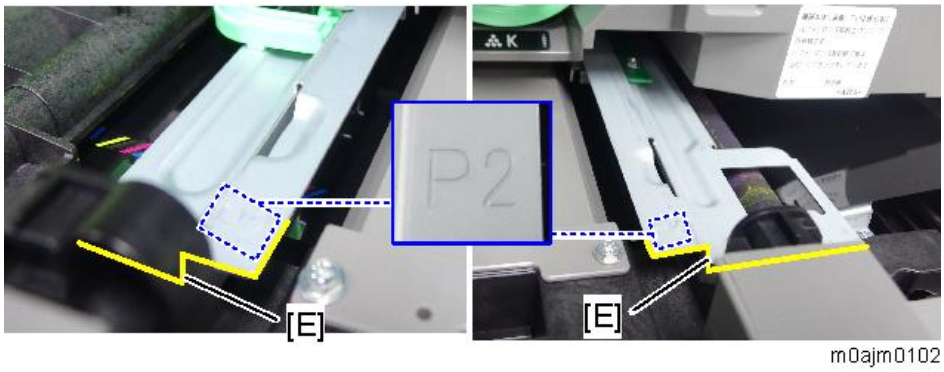
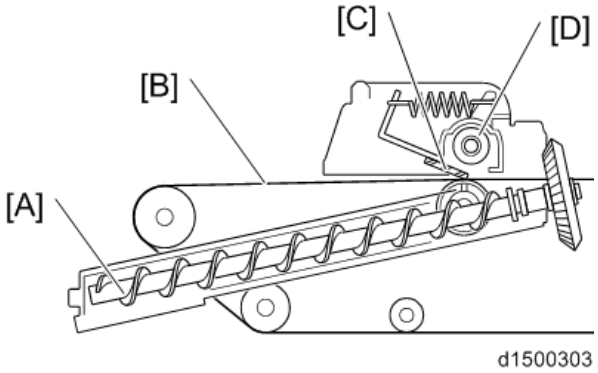


Image Transfer Belt Cleaning Mechanism

Image transfer cleaning is performed by a cleaning blade (counter method).
Due to downsizing of machine width, the cleaning unit is installed on top of the image transfer unit. Therefore, to replace the cleaning unit, first take out the image transfer unit and invert it.



[A]: Toner Collection Coil
[B]: Image Transfer Belt
[C]: Image Transfer Cleaning Blade
[D]: Toner Collection Coil

Paper Transfer Unit Mechanism

Paper Transfer Mechanism

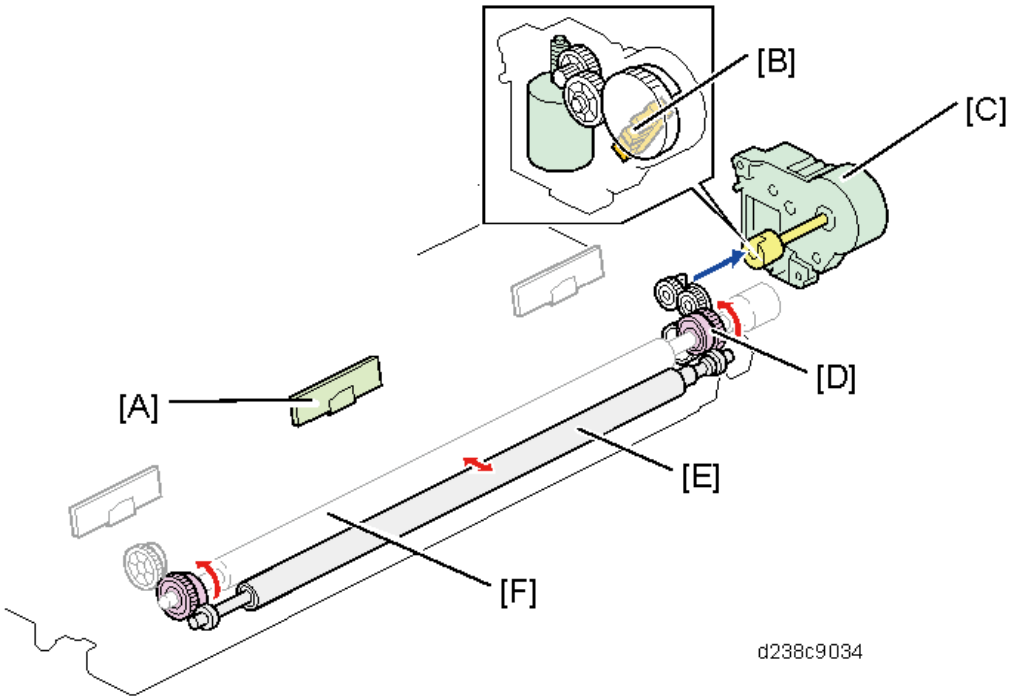
A bias is applied to the ITB drive roller to transfer the image on the image transfer belt to the paper (repulsion transfer). As there is no paper between the ITB drive roller and the toner image, this method is not easily affected by paper condition.
Also, toner adsorption on the paper is facilitated by the static charge eliminator of the paper transfer unit (no charge is applied).

PTR (Paper Transfer Roller) Drive

The rotation of the paper transfer roller follows that of the ITB drive roller.

PTR (Paper Transfer Roller) Contact and Separation

If the paper transfer roller is permanently in contact with the image transfer belt, toner on the image transfer belt moves to the roller and gets onto the underside of the paper. Because of this, the paper transfer roller is separated during Process Control or MUSIC control (it is not separated during real-time process control).
Separation of the paper transfer roller is achieved by transmitting the drive of the paper transfer contact motor via the ITB unit joint.



[A]: TM/ID sensor (center)

[B]: Paper transfer roller home position sensor

[C]: Paper transfer contact and release motor

[D]: Cam

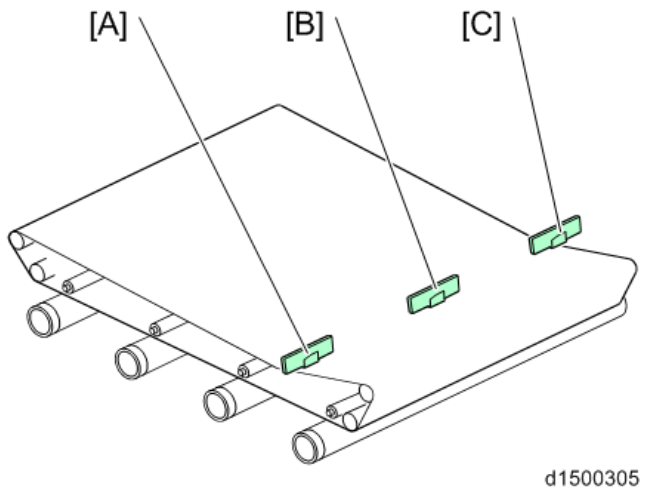
[E]: Paper transfer roller

[F]: ITB drive roller

Separation

Paper separates from the belt as a result of the curvature of the belt after it passes the paper transfer roller.

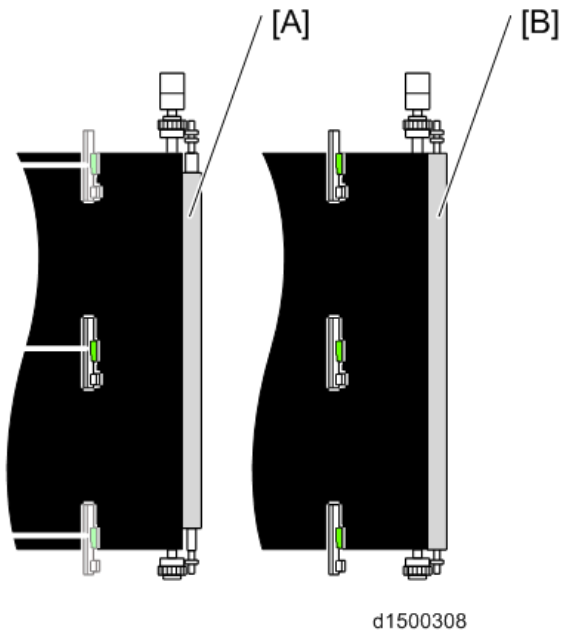
TM/ID Sensor



[A]: TM/ID sensor (front)

[B]: TM/ID sensor (center)

[C]: TM/ID sensor (rear)



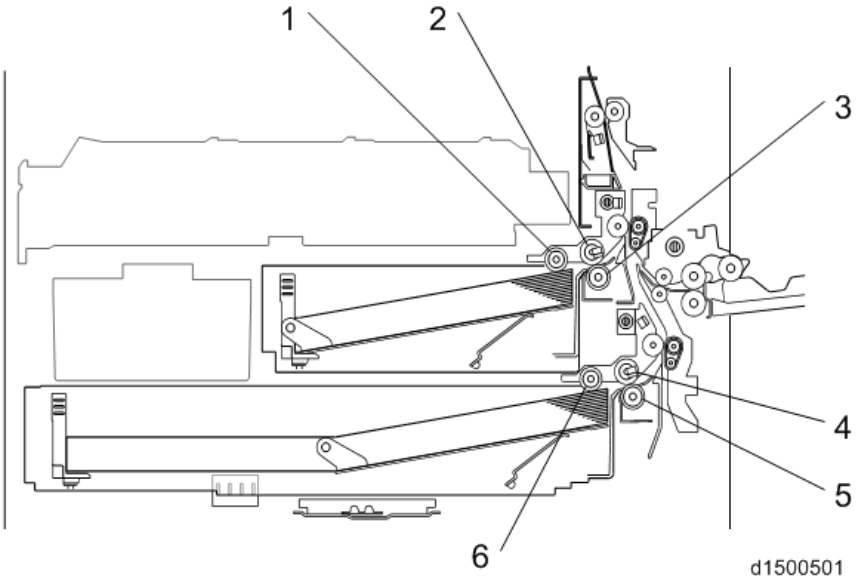
[A]: Paper transfer roller (standard roller)

[B]: Paper transfer roller (Imageable Area Extension Unit Type M19)

When Imageable Area Extension Unit (316mm) is installed, 316 mm width printing is done and Real Time Process Control at the margin is disabled.

Paper Feed / Transport

Overview



No.	Description	No.	Description
1	Pick-up roller (1st paper tray)	4	Feed roller (2nd paper tray)
2	Feed roller (1st paper tray)	5	Friction roller (2nd paper tray)
3	Friction roller (1st paper tray)	6	Pick-up roller (2nd paper tray)

In this machine, an RF paper feed system is employed, and the Feed roller, Friction roller and Pick-up roller are high durability rollers.

Feed /Transport Mechanisms

The base machine has 2 units, i.e., two main trays and a by-pass feed tray. By using the 1st tray as a fixed tray, and the 2nd tray as a universal tray, a space-saving two-tray feed system is provided.

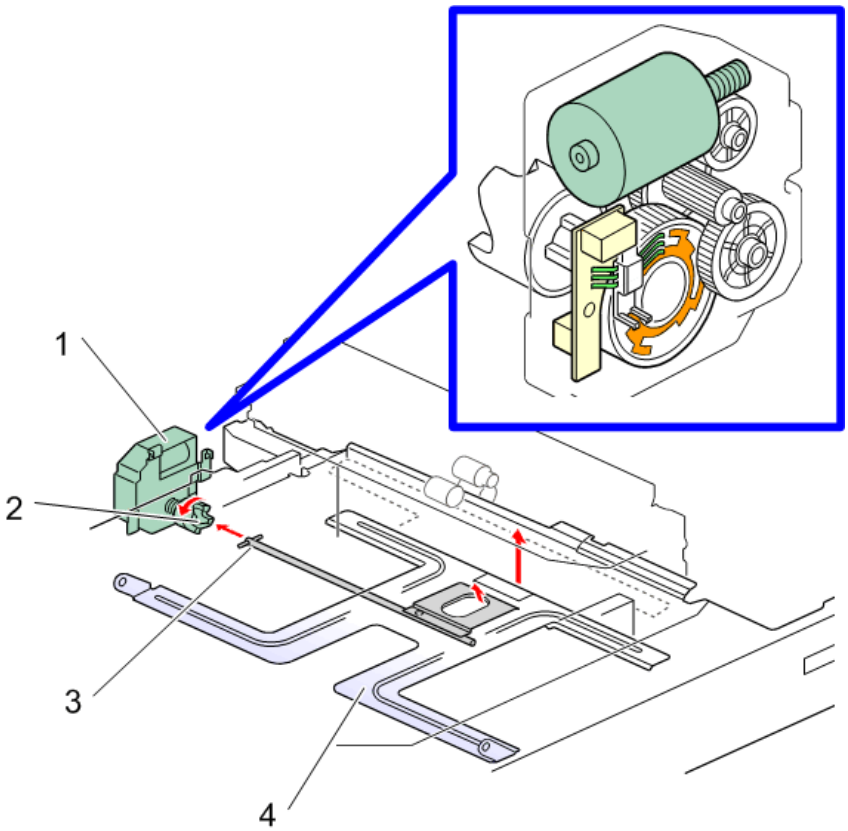
Tray	Paper size	Max. number of sheets	Corresponding paper thickness
1st paper tray	A4 landscape - A5 landscape	550 sheets	60 to 300g/m^2
2nd paper tray	SRA3 - postcard	550 sheets	60 to 300g/m^2
Bypass feed tray	SRA3 - postcard	100 sheets	60 to 300g/m^2
Duplex unit	SRA3 - A6 portrait	Interleaved	60 to 256g/m^2

Tray Base Plate Lift

When the paper feed tray is set in the machine, the set switch at the rear of the tray switches ON, and it is detected that the tray is set.

The coupling between the shaft at the rear of the tray and the lift motor then engages, the motor rotates, and the tray base plate is lifted. The tray base plate lifts until the paper surface pushes the pick-up roller up, the upper limit sensor switches OFF (interrupt), and the machine enters paper feed standby mode.

When the tray is removed, the coupling is released, and the base plate moves down. The lift motor then rotates until the coupling returns to the home position.



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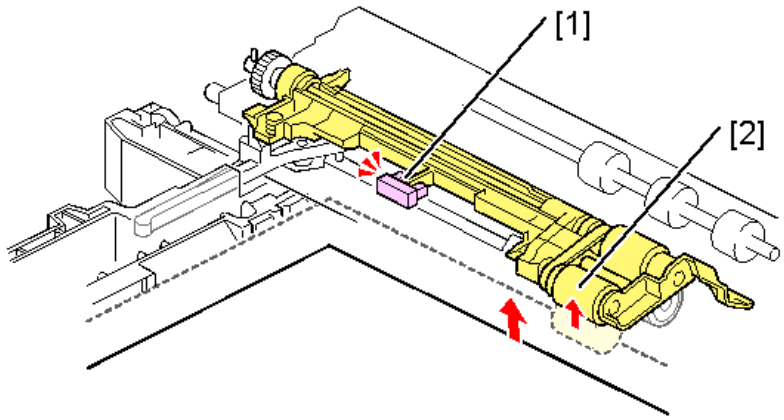
No.	Description	No.	Description
1	Lifting motor	3	Tray rear shaft
2	Coupling	4	Tray bottom plate



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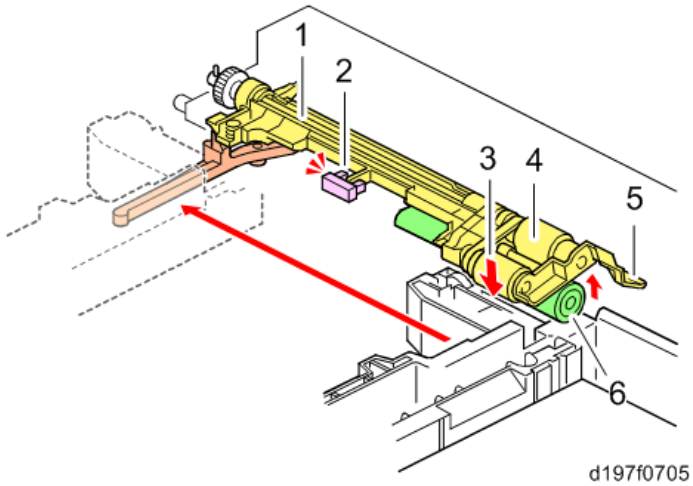
No.	Description	No.	Description
1	Upper limit sensor	2	Pick-up roller

Paper Feed Mechanism

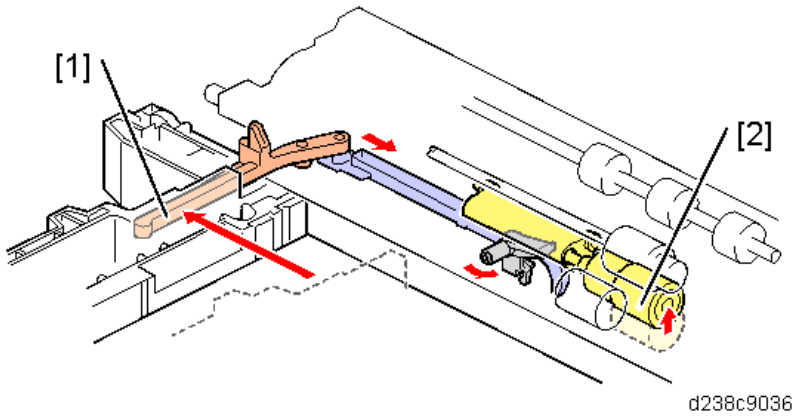


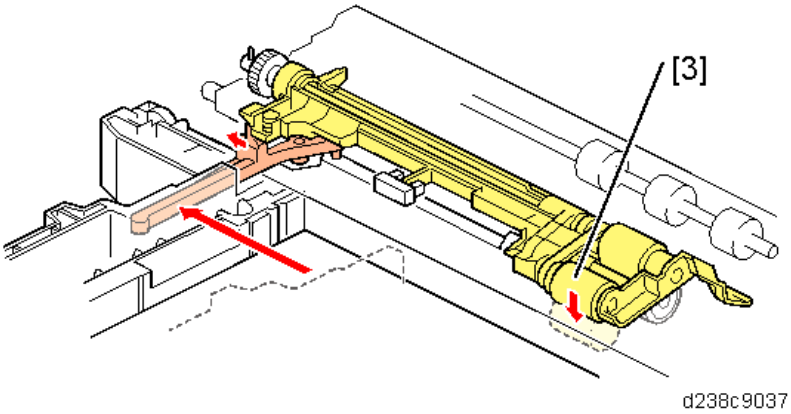
No.	Description	No.	Description
1	Pickup arm	4	Feed roller
2	Upper limit sensor	5	Feed guide
3	Pick-up roller	6	Friction roller

The paper feed unit employs an RF system.

In a conventional FRR system, transport of 2 sheets at a time is prevented by reverse rotation of the separating roller, but in the RF system, paper separation is assisted by the resistance of a separating roller with a torque limiter (reverse drive is not performed).

When the paper feed tray is set in the machine, the pressure release lever [1] is pressed, the friction roller [2] comes in contact with the feed roller, and the pick-up roller [3] contacts the top of the paper (to prevent paper remaining, when the paper feed tray is withdrawn, the the pressure release lever returns and contact with the rollers is released).





The machine enters paper supply standby mode when the tray bottom plate moves up. When the paper feed motor is switched ON, the rollers rotate and paper is supplied.

The roller holder functions as a paper guide and roller clip ring. The roller holder prevents the paper from winding up.

No.	Description	No.	Description
1	Pressure release lever	3	Pick-up roller
2	Friction roller		

Paper Feed Transport Mechanism

In this machine, to maintain the paper gap constant, the paper feed sensor near the paper feed roller adjusts the paper feed timing.

1. The paper feed motor is switched ON, and the first sheet is supplied.

2. Just before the rear edge of the first sheet leaves the paper feed roller, the paper feed motor switches OFF. At this time, if the paper feed sensor detects "Paper Out" (if a second sheet has not been fed to the paper feed sensor position), the paper feed motor does not switch OFF, and pre-feed is performed. Pre-feed is as follows:

1. The second sheet is fed to the paper feed sensor position.
2. When the rear edge of the second sheet passes the paper feed roller, the paper feed motor switches OFF.

3. When the first sheet has been fed a predetermined distance by the downstream transport roller, the paper feed motor switches ON to supply the second sheet of paper.

Paper Size Detection (1st Paper Feed Tray)

There is no automatic paper detection system in Tray 1.

Tray 1 is set up in the factory for A4 LEF (EU, AA) or LT LEF (NA).

However, if requested by the user, the service technician can change the paper size of Tray 1 with SP5-181 (Size Adjust).

0: A4 LEF

1: LT LEF

2: B5 LEF

3: A5 LEF

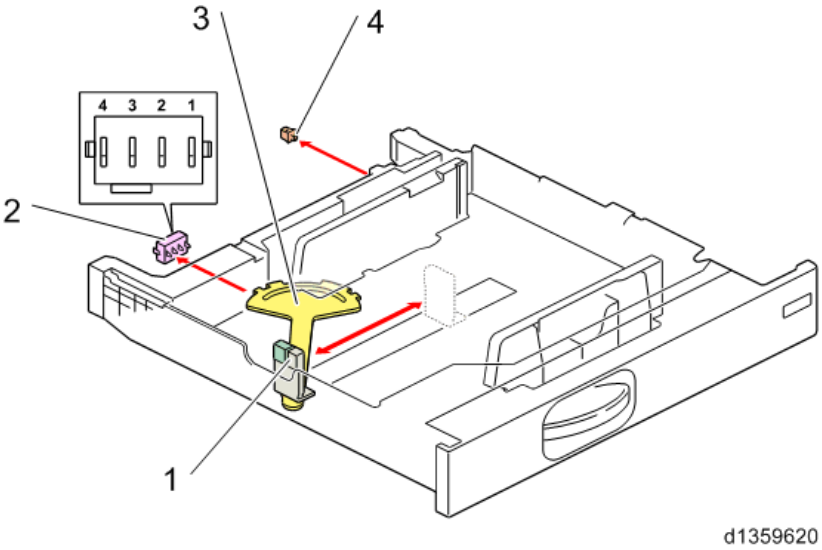
Paper Size Detection (2nd Paper Feed Tray)

The end fence is interlocked with a rotating actuator plate in an automatic detection system which recognizes patterns using a 4-position push switch.

Size is detected by the detection patterns of switches 1, 2, 3, and 4. Tray set is detected by another switch.

If the machine detects a change in the outputs from the switches, the machine detects the paper size again from the new outputs.

If the paper size is selected manually by a user setting, the automatic size detection is overridden.



No.	Description	No.	Description
1	End fence	3	Size detection actuator
2	Paper size switch	4	Tray set switch

- 2nd tray detection sizes:

SRA3, A3, B4, A4 SEF, LT SEF, B5 SEF, A4 LEF, B5 LEF, and A5 LEF

- 2nd tray size detection patterns

Size	Knob			
	4	3	2	1
SRA3 (12"×18")	1	0	1	0
A3 (DLT)	0	1	0	0
B4 (LG)	0	0	1	1
	0	1	1	1
A4 portrait	1	1	1	0
LT portrait	1	1	0	0
B5 portrait	1	0	0	0
A4 landscape (LT landscape)	0	0	0	1
B5 landscape (Exe landscape)	0	0	1	0

Size	Knob			
	4	3	2	1
A5 landscape	0	1	0	1

Notes

"0" is switch ON (pushed), "1" is switch OFF.

The figures in parentheses are automatic paper size which can be switched over in SP mode (for SP settings, see "SP mode (paper supply transport)": SP5-181-002 to 006).

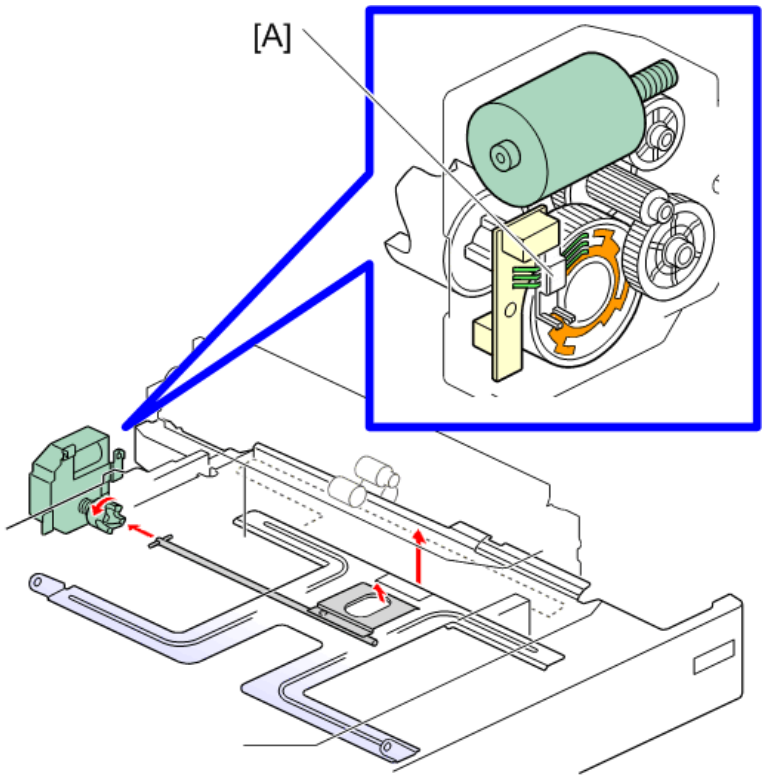
SRA3 = 320×450mm (12.6"×17.7")

Exe LEF = 10.5"×7.25"

If a pattern other than the above is detected, a blank is displayed on the control panel.

Remaining Paper Detection

When the lift motor rotates, the remaining paper sensors 1, 2 [A] built into the motor switch ON (unblocked) or OFF (blocked). Paper remaining in the paper feed tray is detected by the combination of ON/OFF for the two sensors.



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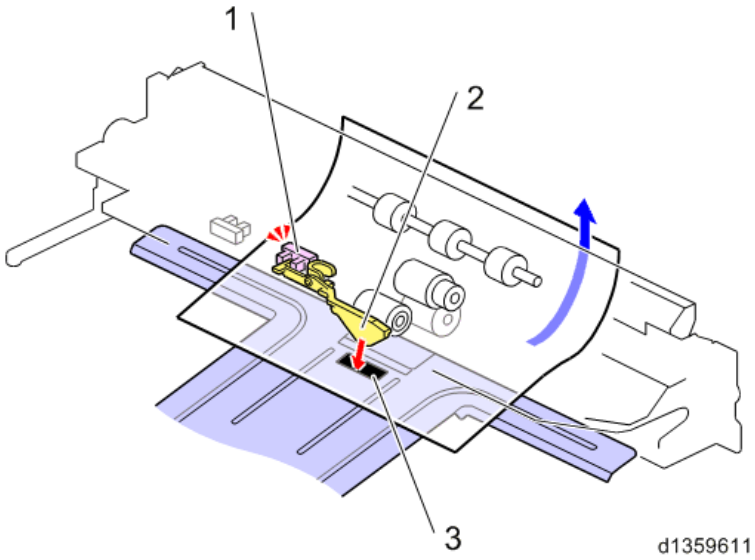
There are the following 4 remaining paper detection levels:

Remaining paper status	100%	70%	30%	10%
Remaining paper status sensor 1	ON	OFF	OFF	ON
Remaining paper status sensor 2	ON	ON	OFF	OFF
Control panel remaining paper display	4 bars	3 bars	2 bars	1 bar

Paper End Detection

When there is no more paper in the paper feed tray, the leading edge of the paper end feeler falls into a notch in the base plate, and the paper end sensor at the rear end of the feeler switches ON (unblocked).

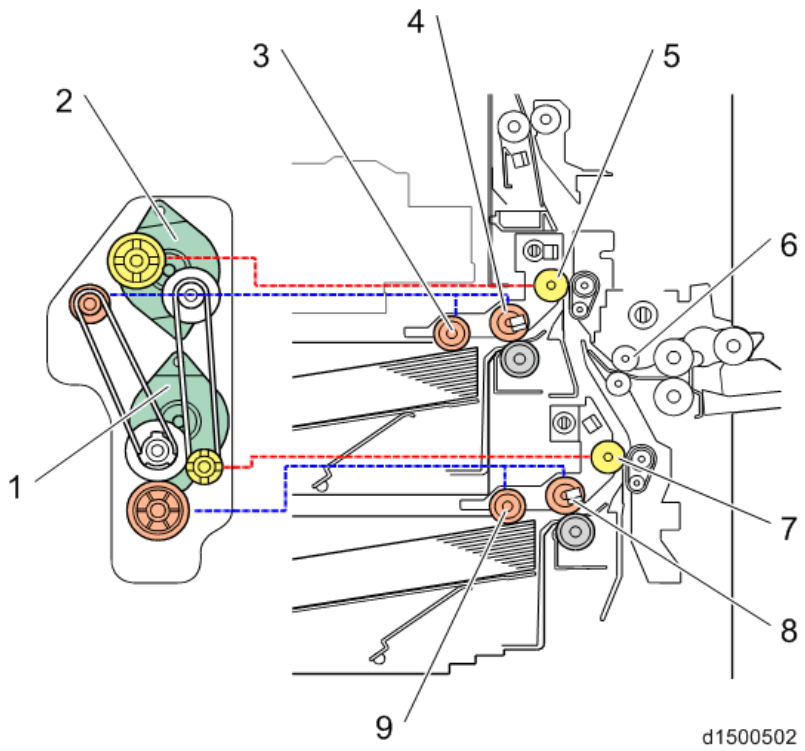


No.	Description	No.	Description
1	Paper end sensor	3	Notch
2	End feeler		

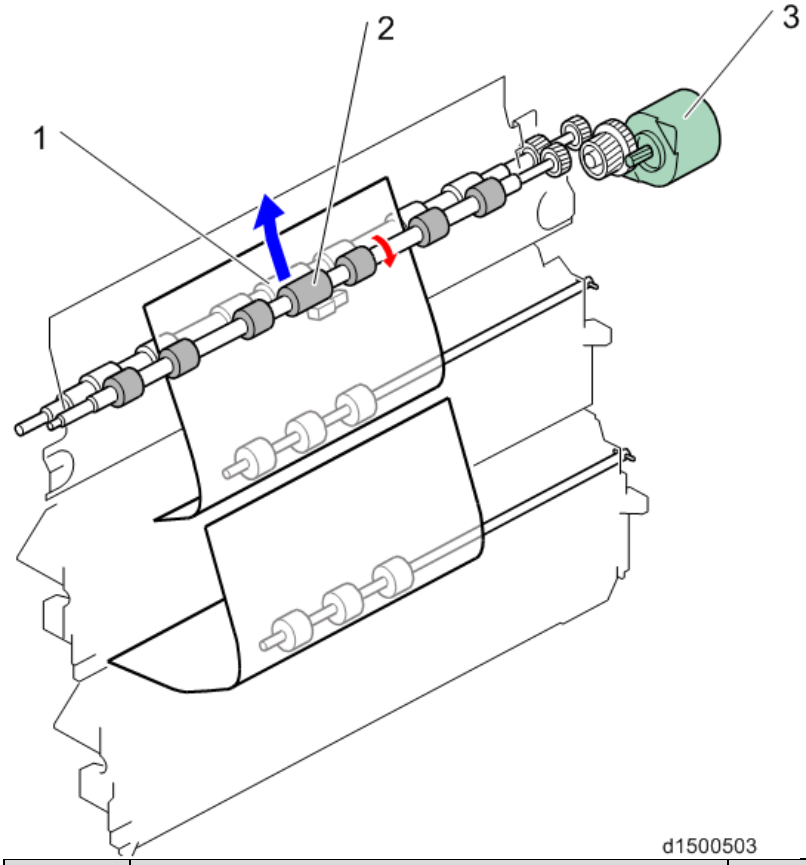
Paper Feed Drive

The 1st/2nd pick-up rollers and 1st/2nd paper feed rollers are driven by the paper feed motor. The 1st/2nd transport rollers are driven by the transport motor.

The bypass transport roller is driven by the by-pass/duplex motor, and the registration roller is driven by the registration motor.



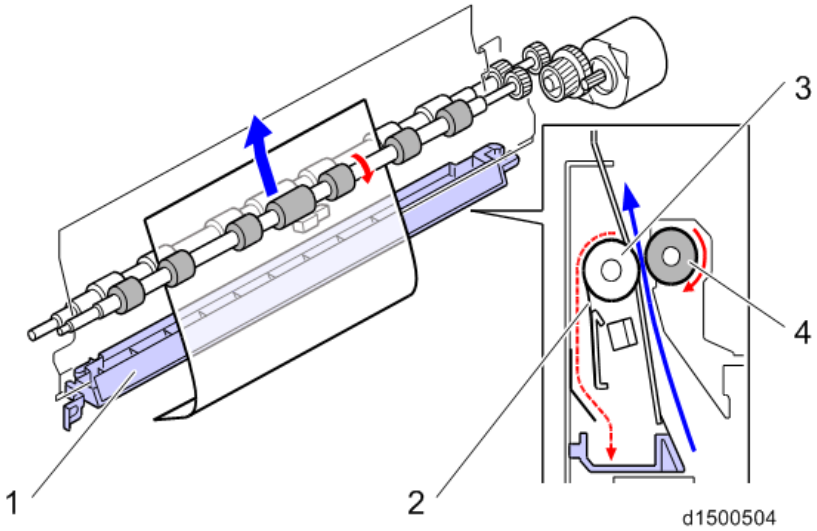
No.	Description	No.	Description
1	Paper feed motor	6	Bypass transport roller
2	Transport motor	7	Transport roller (2nd tray)
3	Pick-up roller (1st tray)	8	Paper feed roller (2nd tray)
4	Paper feed roller (1st tray)	9	Pick-up roller (2nd tray)
5	Transport roller (1st tray)		



No.	Description	No.	Description
1	Registration roller (driven)	3	Registration motor
2	Registration roller (drive)		

Paper Dust Removal Mechanism

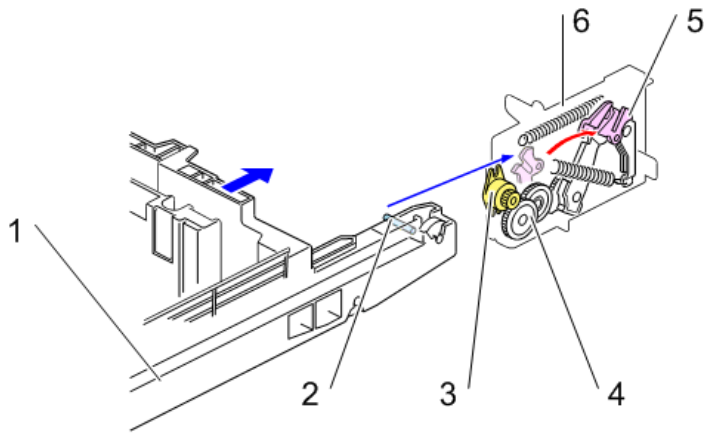
The registration mechanism removes paper scraps using the paper removal mylar sheet in contact with the driven roller (resin). Paper scraps removed by the paper removal mylar sheet are collected in the paper dust container.



No.	Description	No.	Description
1	Paper dust container	3	Registration roller (driven)

No.	Description	No.	Description
2	Paper dust removal mylar sheet	4	Registration roller (drive)

Tray Draw-in Mechanism



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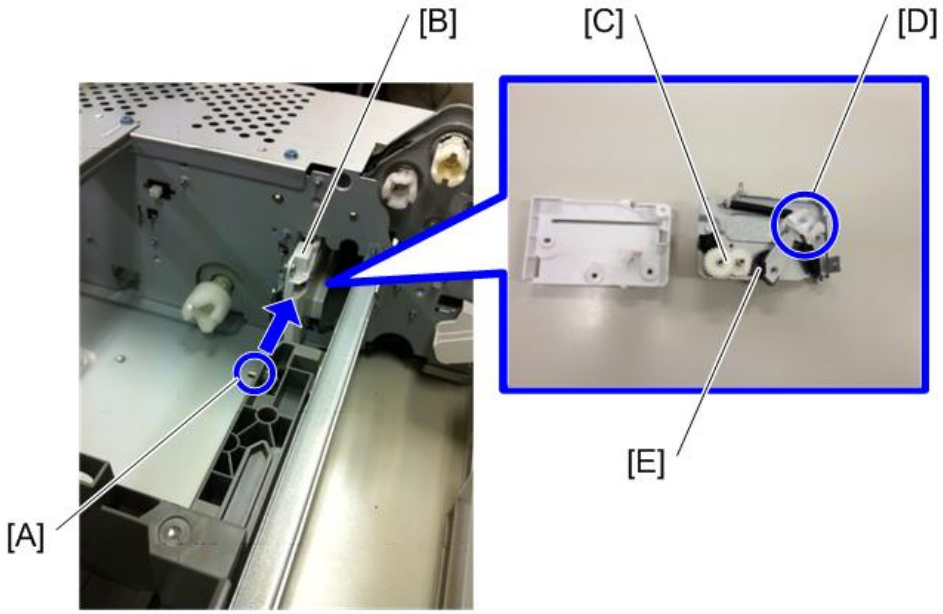
No.	Part name	No.	Part name
1	Paper Feed Tray	4	One-way Clutch
2	Draw-in Pin	5	Draw-in Lever
3	Oil Damper	6	Tray Draw-in Unit

To enhance operability, a tray draw-in mechanism is used.

The tray is drawn in by a one-way clutch in the draw-in unit. To draw the tray out, an oil damper is released.



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The pin [A] of the paper supply tray is drawn in by the tray draw-in unit [B].

[A]: Paper supply tray pin

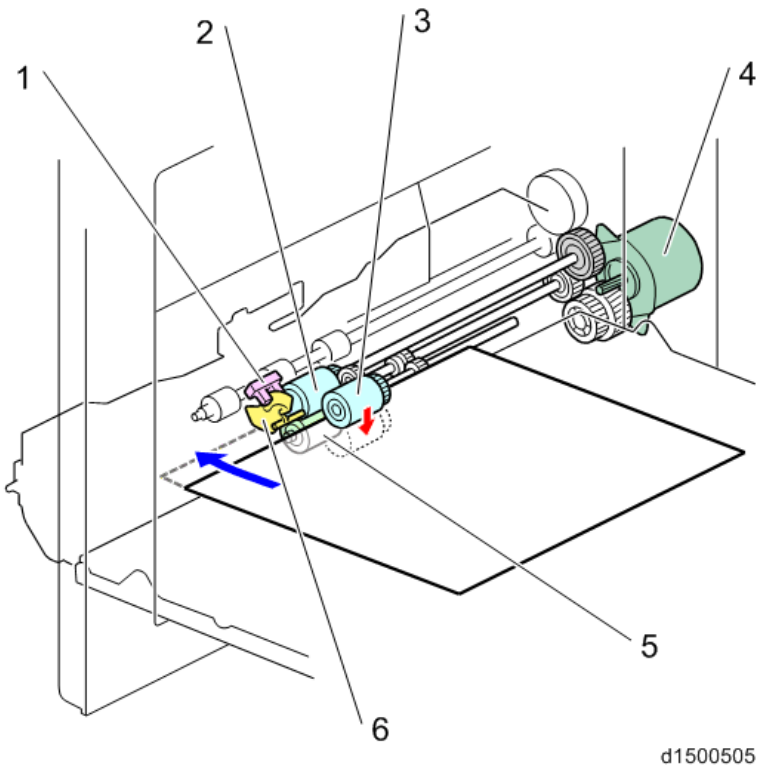
[B]: Tray draw-in unit

[C]: One-way clutch

[D]: Tray draw-in mechanism

[E]: Oil damper

Bypass Feed Section



No.	Description	No.	Description
1	Bypass paper end sensor	4	Bypass/duplex motor
2	Bypass paper feed roller	5	Bypass/reverse roller
3	Bypass pick-up roller	6	Paper detection feeler

Bypass Feed Paper/Separation Mechanism

The bypass paper feed mechanism employs an FRR system. The bypass paper feed unit contains a paper feed roller, reverse roller and pick-up roller.

When the paper feed tray is selected and the machine is started, the bypass pick-up solenoid is switched OFF, and paper is supplied by the bypass/duplex motor (counterclockwise rotation).

In standby mode, the bypass pick-up roller is not in contact with the paper surface. This is opposite to the paper feed tray.

Bypass Feed Paper Size Detection

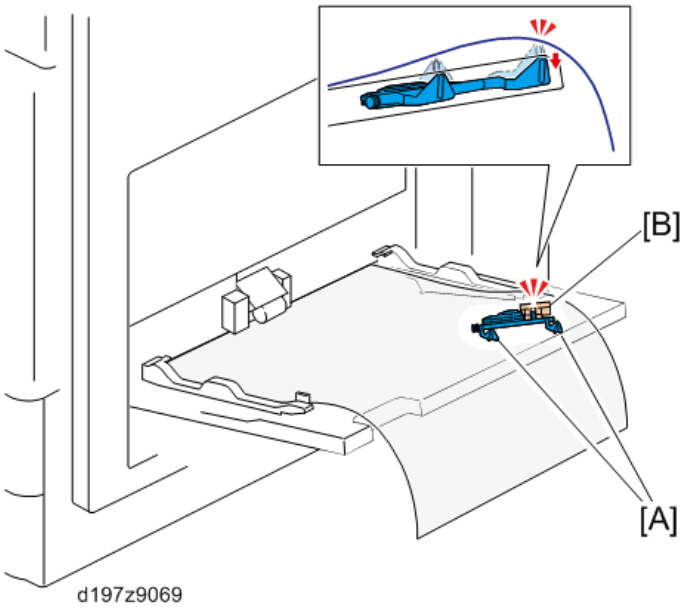
Paper size width detection is performed by the bypass width sensor (rotary switch).

The bypass width sensor contains a plate which rotates together with the side fences of the bypass feed table.

Paper portrait/landscape is determined by the length sensor.

Two feelers [A] for the bypass length sensor [B] are added to the rear of the tray to prevent false detection of paper length caused by floating at the trailing edge of the paper when long paper is set without pulling out the

bypass tray extension.



Bypass Feed Paper End Detection

A paper detection feeler and by-pass feed paper end sensor detect bypass feed paper end.

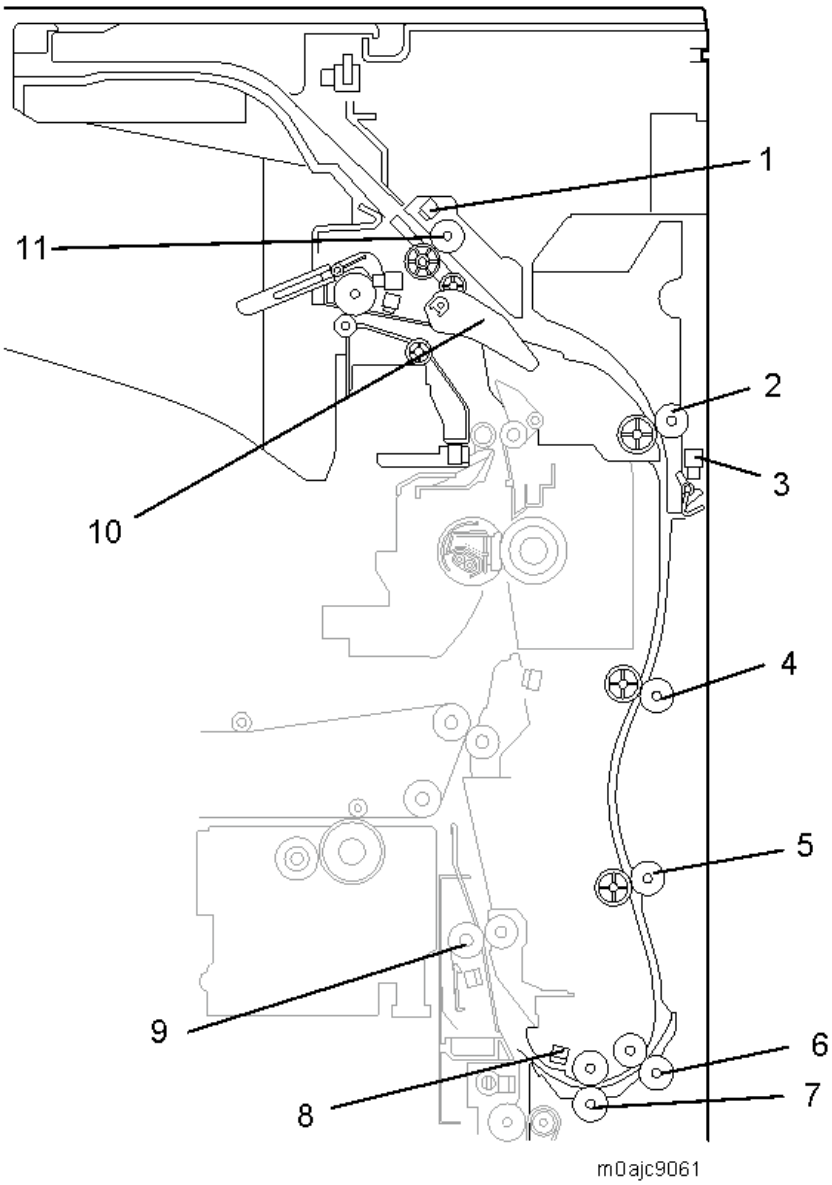
When the paper is set, the bypass feed paper end sensor switches ON (interrupted), and paper is detected.

When there is no more paper, the detection feeler falls into a hole in the by-pass feed table, the bypass feed paper end sensor switches OFF (unblocked), and paper end is detected.

Bypass Paper Feeder Drive

The paper feed roller, reverse roller and pick-up roller are driven by the bypass/duplex motor.

Duplex Section



No.	Description	No.	Description
1	Reverse sensor	7	Duplex exit roller
2	Duplex entrance roller 1	8	Duplex exit sensor
3	Duplex entrance sensor	9	Registration roller
4	Duplex entrance roller 2	10	Paper exit junction gate
5	Duplex transport roller 1	11	Reverse roller
6	Duplex transport roller 2		

Transport Inversion Mechanism

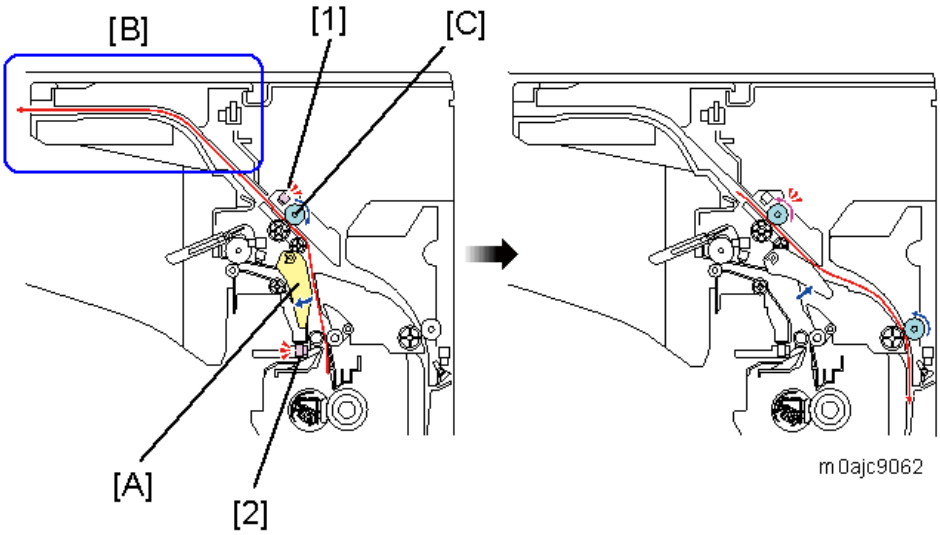
With this machine, the paper is first fed to the inverter guide and then pulled back to be fed in reverse.

The paper is fed until its trailing edge passes through the junction gate [A] during which the paper is temporarily

stored in the inverter guide [B].

Then, the reverse roller [C] feeds the paper back to the machine's interior and then to the duplex unit. The reverse roller is driven by the reverse motor.

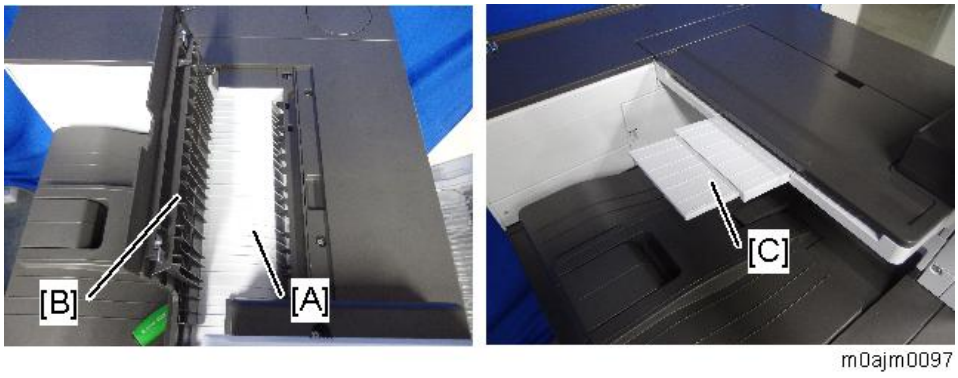
The presence of the paper and whether or not it is jammed is detected by the fusing exit sensor [2] and reverse sensor [1].



Inverter Guide Outline

To prevent the paper from diverting when fed in reverse, there is the inverter guide [A] to guide the paper, and inverter guide cover [B] to remove the jammed paper. The inverter guide supports the paper size up to A4 LEF. When handling A3 SEF or larger paper, the paper protrudes from the inverter guide edge. In such a case, pull out the extension tray [C] to prevent the paper from drooping.

The inverter guide temporarily supports paper, but it does not have the function to stack paper like the output tray.



Duplex Drive

The rollers are driven by the following motors:

Rollers	Drive sources
Reverse roller	Reverse motor

Rollers	Drive sources
Duplex entrance roller 1	Duplex entrance motor
Duplex entrance roller 2	Duplex entrance motor
Duplex transport roller 1	By-pass feed/duplex motor
Duplex transport roller 2	By-pass feed/duplex motor
Duplex exit roller	By-pass feed/duplex motor

Interleave Mechanism

The duplex unit, in order to reduce the overall duplex printing time, performs interleaving.

Paper exit from main machine

Length	No. of interleaved sheets
Less than 215.9 mm	3
216.0 - 431.8 mm	2
431.8 -457.2 mm	1

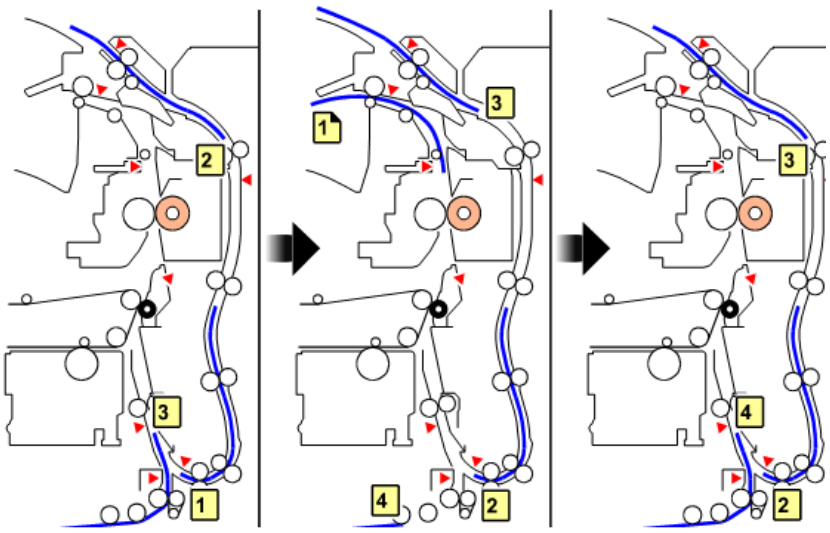
- 3-sheet interleaving

Sheet 1 undersurface -> Sheet 2 undersurface -> Sheet 3 undersurface -> Sheet 1 top surface -> Sheet 4 undersurface -> Sheet 2 top surface

- 2-sheet interleaving

Sheet 1 undersurface -> Sheet 2 undersurface -> Sheet 1 top surface -> Sheet 3 undersurface -> Sheet 2 top surface -> Sheet 4 undersurface

3-sheet interleaving



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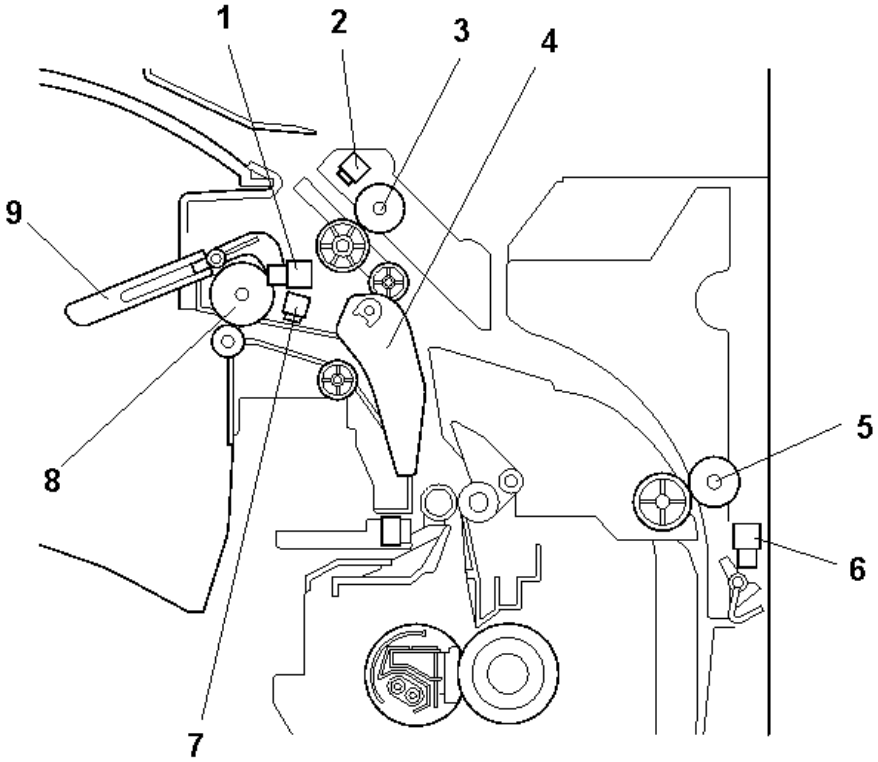
Paper Exit Unit



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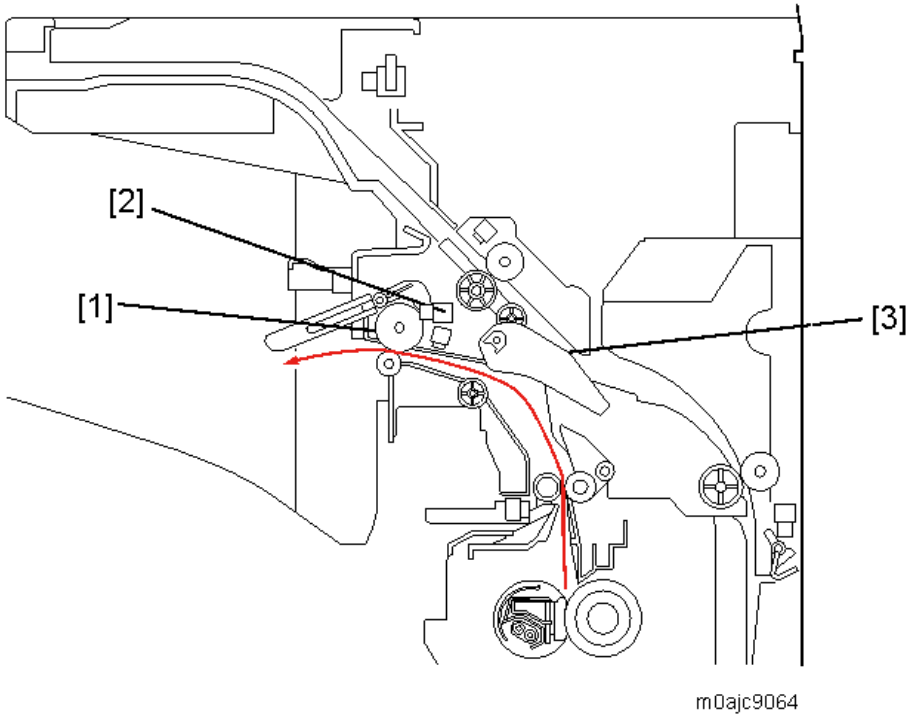
No.	Description	No.	Description
1	Paper Exit Full Sensor	6	Duplex Entrance Sensor
2	Reverse Sensor	7	Paper Exit Sensor
3	Reverse Roller	8	Paper Exit Roller
4	Paper Exit Junction Gate	9	Feeler
5	Duplex Entrance Roller 1		

Delivery Location Change-over

The paper fed from the fusing unit is changed over by the junction gate in the "Machine paper exit/bridge unit" direction or the "duplex unit/4bin mailbox" direction.

Machine paper exit/bridge unit direction

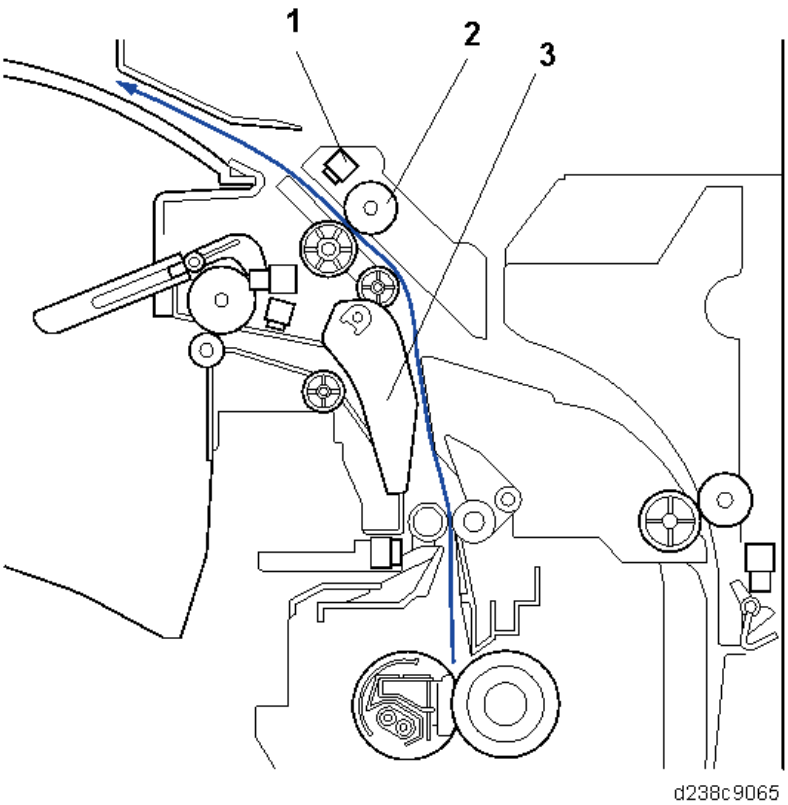
1. The registration sensor switches ON.
2. The paper exit/pressure release motor switches ON (rotates counterclockwise).
3. When the rear edge of the paper leaves the paper exit roller, the paper exit/pressure release motor switches OFF.



No.	Description
1	Paper exit roller
2	Paper exit sensor
3	Paper exit junction gate

Duplex unit/4-bin mailbox direction

1. Registration sensor switches ON.
2. The reverse motor switches ON (rotates counterclockwise).
3. Before the leading edge of the paper reaches the paper exit junction gate, the junction gate moves to the duplex unit/4-bin mailbox direction.
   If the gate is in the duplex unit/4-bin mailbox direction, the gate is not changed over.
4. Before reversing the paper, the junction gate solenoid switches OFF.
5. When the rear edge of the paper leaves the reverse roller, the reverse motor switches OFF.



No.	Description
1	Reverse sensor
2	Reverse roller
3	Paper exit junction gate

Paper Exit Full Detection/Paper Exit Jam Detection

Paper exit full detection

This machine has a paper exit full sensor.

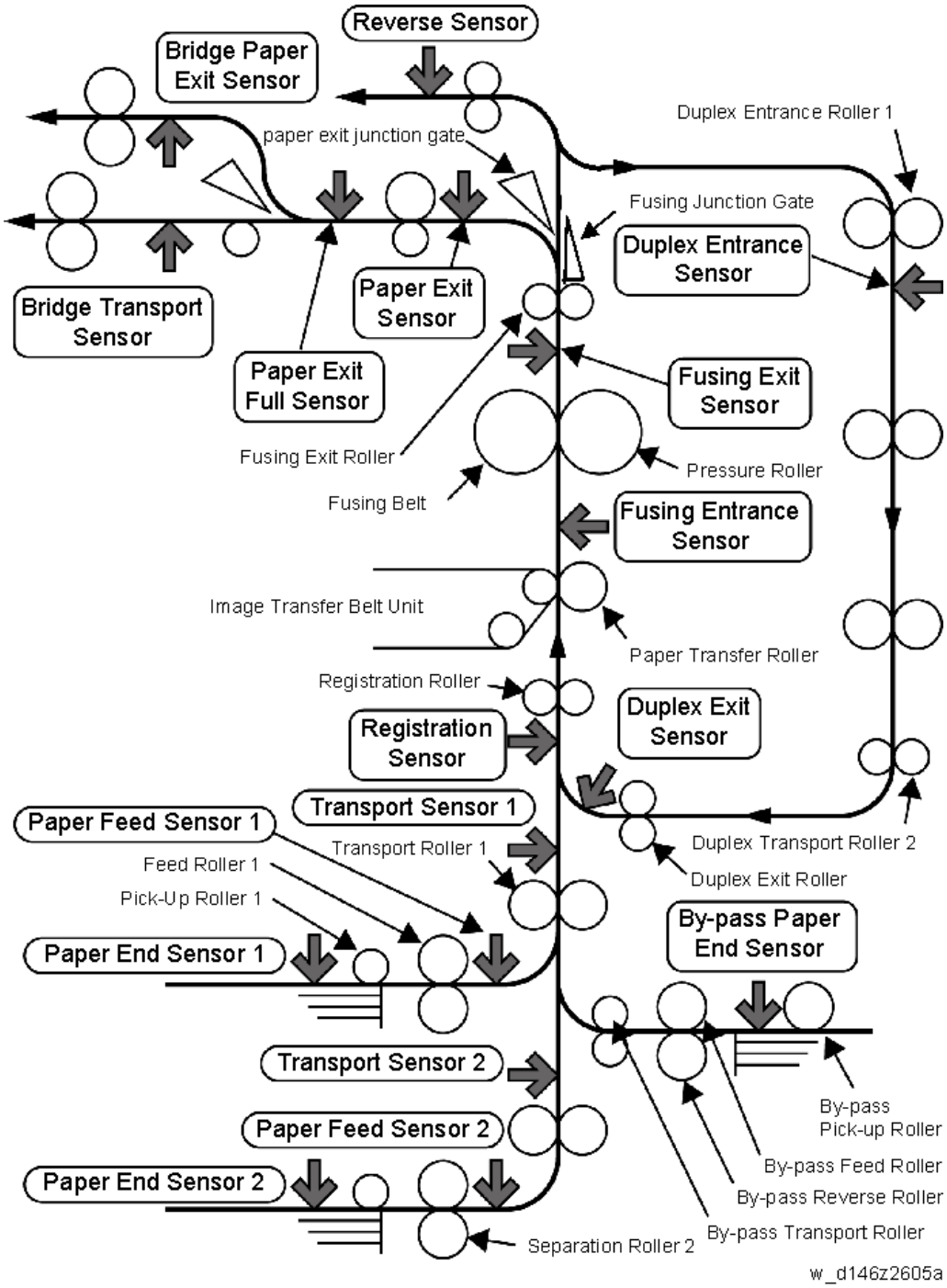
When the paper exit is full, the sensor switches OFF (blocked) due to a feeler.

When the paper exit full sensor detects paper full and a job is stopped, the message "Please remove paper from the machine tray" is displayed on the control panel.

Paper exit jam detection

Paper exit jam is detected by the paper exit sensor.

Drive/Sensor Layout



Transport Roller Drive Source

Output	Drive source
Pick-up roller 1	Paper feed motor
Paper feed roller 1	

Output	Drive source
Pick-up roller 2	
Paper feed roller 2	
First transport roller	Transport motor
Second transport roller	
Registration roller	Registration motor
Paper exit roller	Paper exit/pressure release motor
Reverse roller	Reverse motor
Duplex entrance roller 1	Duplex entrance motor
Duplex entrance roller 2	
Duplex transport roller 1	Bypass feed/duplex motor
Duplex transport roller 2	
Duplex exit roller	
By-pass feed transport roller	
By-pass pick-up roller	
By-pass feed roller	
By-pass Reverse roller	
ITB drive roller (belt)	ITB drive motor
Paper transfer roller	ITB drive roller (Follows rotation of the image transfer belt)
Fusing drive roller	Fusing motor

Gate/Pickup Arm Drive Source

Output	Drive source	Default position	Application
Pick-up roller (1st paper tray)	Paper feed motor	Pressure contact when OFF	Loaded paper contact/separation change-over
Pick-up roller (2nd paper tray)	Paper feed motor	Pressure contact when OFF	Loaded paper contact/separation change-over
Paper exit junction gate	Junction gate solenoid	Paper exit path open when OFF	Machine paper exit/bridge unit, or 4-bin mailbox/duplex printing path change-over
By-pass pick-up roller	By-pass feed solenoid	Clearance when OFF	Loaded paper contact/separation change-over

Transport Paths Between Rollers

Distance units: mm

Module	From	To	Distance
First paper feed	First pick-up roller	First paper feed roller	30.0
	First paper feed roller	First transport roller	43.0
Second paper feed	Second pick-up roller	Second paper feed roller	30.0

Module	From	To	Distance
	Second paper feed roller	Second transport roller	43.0
	Second transport roller	First transport roller	96.9
Registration	First transport roller	Registration roller	86.8
	Registration roller	Paper transfer roller (image transfer position)	95.5
Fusing	Paper transfer roller (nip)	Fusing roller (nip)	85.0
	Fusing roller (nip)	Fusing exit roller	55.7
Paper exit	Fusing roller (nip)	Paper exit roller	143.6
Two-way distribution	Fusing roller (nip)	Reverse roller	143.6
	Reverse roller	Duplex entrance roller 1	131.3
Duplex re-supply	Duplex entrance roller 1	Duplex entrance roller 2	120.4
	Duplex entrance roller 2	Duplex transport roller 1	90.9
	Duplex transport roller 1	Duplex transport roller 2	83.0
	Duplex transport roller 2	Duplex exit roller	27.2
	Duplex exit roller	Registration roller	94.7
By-pass feed	Bypass pick-up roller	Bypass paper feed roller	30.0
	Bypass paper feed roller	Bypass transport roller	24.5
	Bypass transport roller	First transport roller	56.0

Sensor Position

Md	From	To	Distance
1st paper feed	First paper feed roller	First paper feed sensor	5.0
	First transport roller	First transport sensor	16.8
2nd paper feed	Second paper feed roller	Second paper feed sensor	5.0
	Second transport roller	Second transport sensor	24.3
	Second transport sensor	First transport sensor	88.7
Registration	Registration sensor	Registration roller	17.2
Paper exit	Paper exit sensor	Paper exit roller	17.0
Two-way distribution	Reverse roller	Reverse sensor	14.0
Duplex	Duplex entrance roller 1	Duplex entrance sensor	25.0
	Duplex exit roller	Duplex exit sensor	15.0
4-bin mailbox	Reverse sensor	4-bin mailbox paper entrance sensor	-

Paper Exit Driven Roller and Paper Support Guide

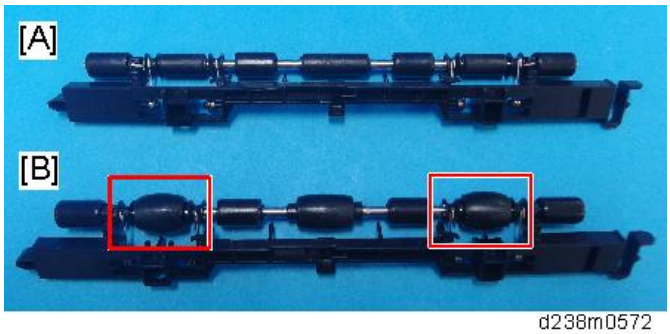
Paper Exit Driven Roller

The standard paper exit driven roller [B] is drum-shaped and improves the stacking performance of the main machine exit tray by adding stiffness to the paper. However, if the paper has too much stiffness, it may jam as it enters the optional paper path when the internal peripheral is connected. Therefore, a flat type driven roller [A] is

used to reduce the stiffness when transporting the paper.

The following options use the flat type driven roller:

- Internal Multi-fold Unit FD3000
- Bridge Unit BU3070



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Paper Support Guide

To prevent paper jam when the paper is delivered from the machine's paper exit to the internal exit peripherals, attach the paper support guide [C] (supplied with the peripherals).

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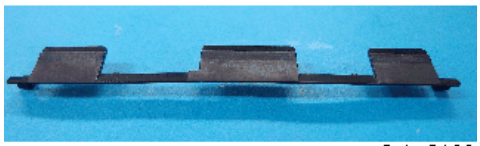
The paper support guide of the internal multi-fold unit FD3000 is shaped differently as shown;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Removing Wrinkling in the Tray

When paper larger than A3 is set, wrinkles may appear at the end of the paper. As a countermeasure, the previous machine used an L-shaped sheet metal [B].

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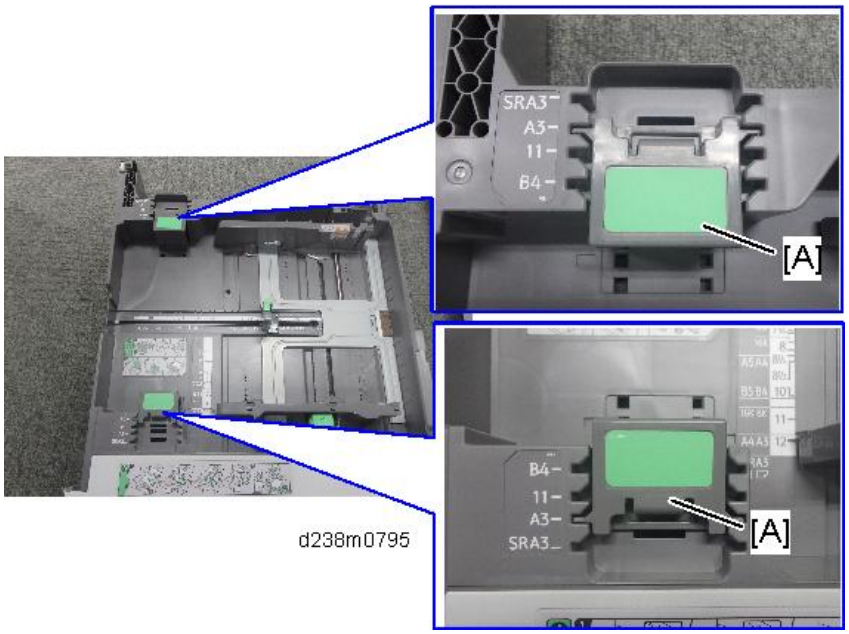
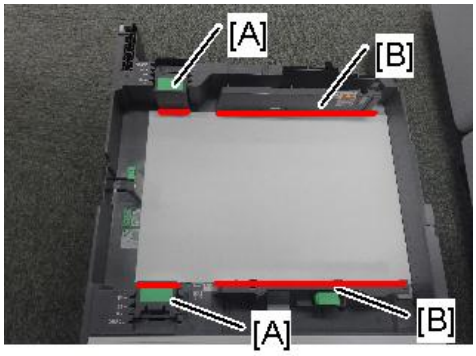
In this machine, the support components [A] and a decal are attached, which are also available to the end-user.



For small size paper, the side fences [B] are sufficient because the paper is light, but paper larger than A3 must be set at the position indicated by the decal.



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Tray 2, Paper Feed Unit PB3240, and Paper Feed Unit PB3250 are also changed from L-shaped sheet metal to support component.

Factory Default:

- Tray 2: A3 (11 inches for NA only)
- Optional Paper Tray: A3 for all regions

Fusing

Overview

This machine adopts the new color QSU-DH (Quick Start Up-Direct Heat) fusing method.

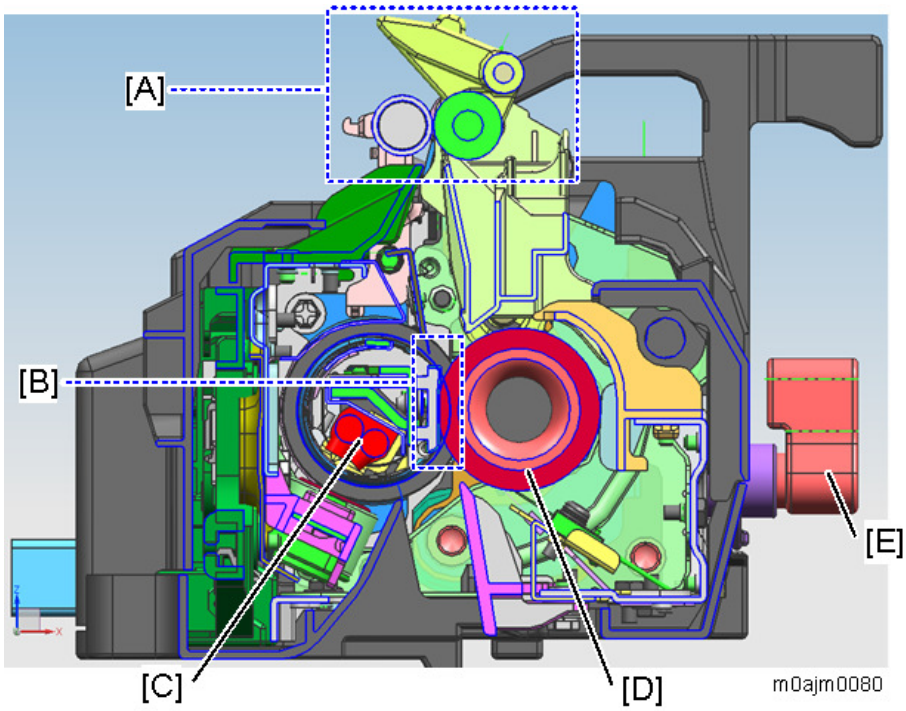
- The fusing lamp heats the fusing sleeve belt.
- The heat source is a halogen lamp.
- Sliding nip system*

*In the sliding nip system, the fusing sleeve belt is driven by the pressure roller and presses the pressure pad against the pressure roller.

Fusing Unit Configuration

The main parts are the same as those of similar models (MP C6004/5504/4504).

The differences between this model and MP C6004/5504/4504 are only those related to usability, such as the addition the lock lever and operational instruction decal.



[A]: Curl correction mechanism (same as MP C6004/5504/4504)

[B]: Flat nip (same as MP C6004/5504/4504)

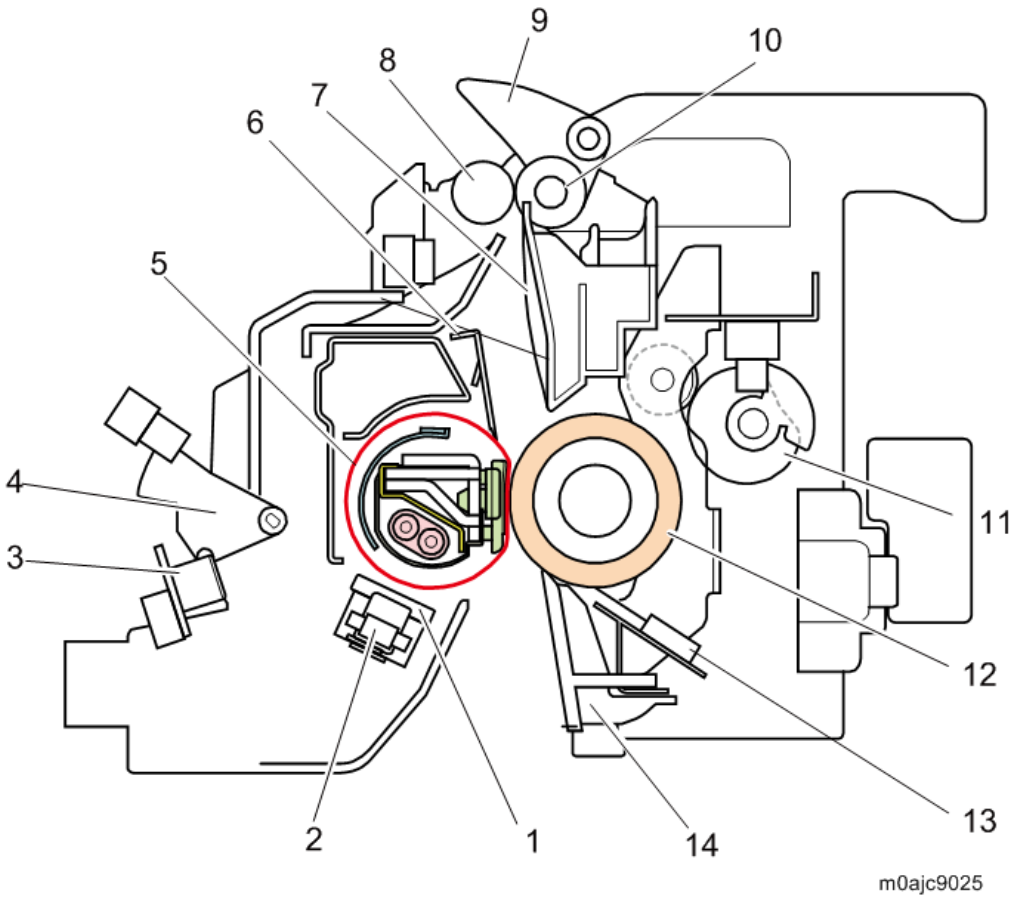
[C]: Halogen lamp (same as MP C6004/5504/4504)

[D]: Pressure roller (same as MP C6004/5504/4504)

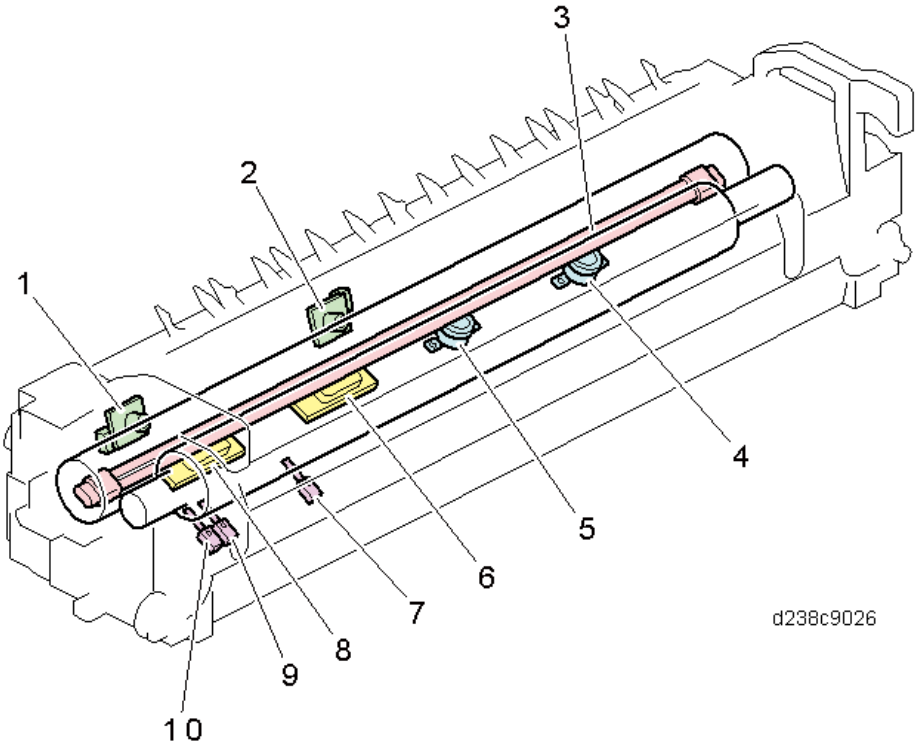
[E]: Lock lever (provided only with this model)

Parts Layout

This machine uses a QSU-DH fusing system in which a fusing lamp emits light to heat a fusing sleeve belt.



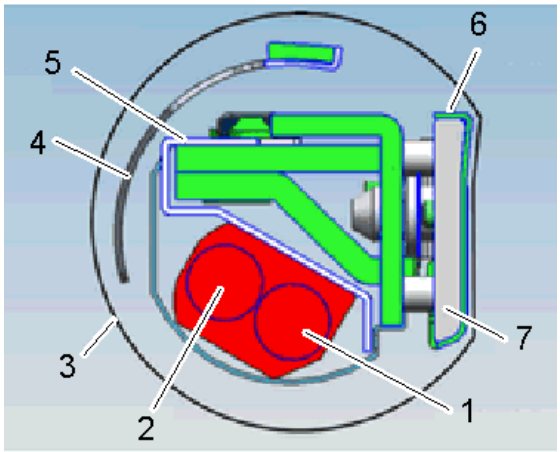
No.	Description	No.	Description
1	Heating roller thermostats	8	Fusing exit roller (driven)
2	Non-contact thermistor	9	Fusing junction gate
3	Thermopile	10	Fusing exit roller (drive)
4	Shield HP sensor actuator	11	Pressure roller drive cam
5	Fusing sleeve belt	12	Pressure roller
6	Stripper plate	13	Pressure roller thermistors: Center, Edge, and Full-bleed edge
7	Fusing exit guide plate	14	Fusing entrance guide plate



No.	Description	No.	Description
1	Thermopile (edge)	6	Non-contact thermistor (center)
2	Thermopile (center)	7	Pressure roller thermistor (center)
3	Fusing lamp	8	Non-contact thermistor (edge)
4	Fusing sleeve thermostat (edge)	9	Pressure roller thermistor (edge)
5	Fusing sleeve thermostat (center)	10	Pressure roller thermistor (full-bleed edge)

Mechanism

Fusing System



No.	Description	No.	Description
1	Fusing lamp (center)	5	Reflector
2	Fusing lamp (edge)	6	Heat conduction plate
3	Fusing sleeve belt	7	Nip pad
4	Shield		

New Color QSU-DH (Quick Start Up-Direct Heat) fusing

This is a fusing unit with a heat conduction plate added to the pressure pad on the fusing nip.
The mechanism efficiently heats the paper according to its width by rotating the shield plate, and a heat conduction plate evens out the temperature of the fusing sleeve belt across its width.
The shield moves to one of nine shading positions by adjusting the rotating time according to the paper width. This is done after turning on the main power switch and after starting/finishing printing. The number of the shield plate's position sensors has changed from 2 to 1.
The heat conduction plate on the nip (on the surface of the pressure pad) disperses the temperature deviation between the front and rear parts of the fusing sleeve belt, so as to even out the temperature.
The fusing sleeve belt is driven by drag rotation following a pressure roller, and presses a nip pad against the pressure roller to fix toner on the paper.
The fusing lamp emits light, and the area of the fusing sleeve belt which is heated moves in an anticlockwise direction so that heat is transmitted up to the contact point with the pressure roller.

Fusing lamps

There are two lamps.
Lamp power:

	NA/TWN	EU/AA/CHN
Center	809W	816W
Edge	430W	679W

Nip pad

Presses against the pressure roller to form a fusing nip. The top surface is covered with a slippery sheet.

Reflector

Transmits heat efficiently to the fusing sleeve belt.

Shield

Shield width changes by rotating the shield according to the paper width. Ensures that light from the fusing lamp is not transmitted to the fusing sleeve belt edge (prevents excessive edge temperature rise when printing small size paper).

Flanges

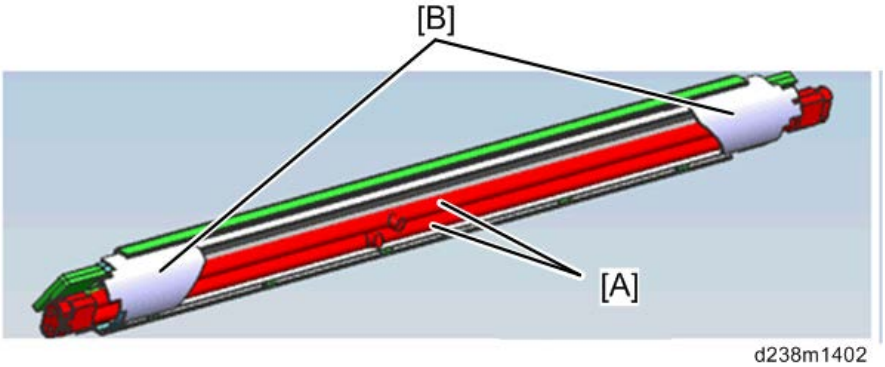
Situated on both ends of the fusing sleeve belt. They maintain the shape of the belt.

Heat conduction plate

Disperses the temperature deviation between the front and rear edges of the fusing sleeve belt to make the temperature uniform.

Temperature Control

To prevent excessive edge temperature rise when printing on paper with a small width, the light-up pattern of the center/edge fusing lamps and shield plate position are changed depending on the paper size.



[A]: Fusing lamp (center/edge)

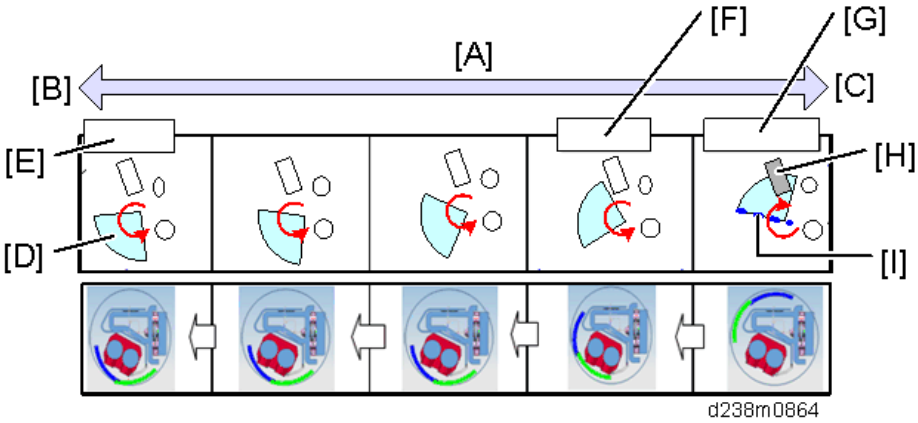
[B]: Shield

Basic operation

After paper feed begins, depending on the rise of edge temperature (Pressure roller thermistor (Full-bleed edge/Edge)), the shield is moved to a suitable position. The shield has 9 positions including the home position. Depending on the unit temperature and continuous paper feed time, the edge fusing lamp is switched ON/OFF, and the shielding is adjusted.

Shield drive

The shield is driven by the fusing shield drive motor.



[A]: Shield operating range

[B]: Shield width (large), motor cw

[C]: No shield, motor ccw

[D]: Home position sensor actuator

[E]: Position 8

[F]: Position 1

[G]: Home position

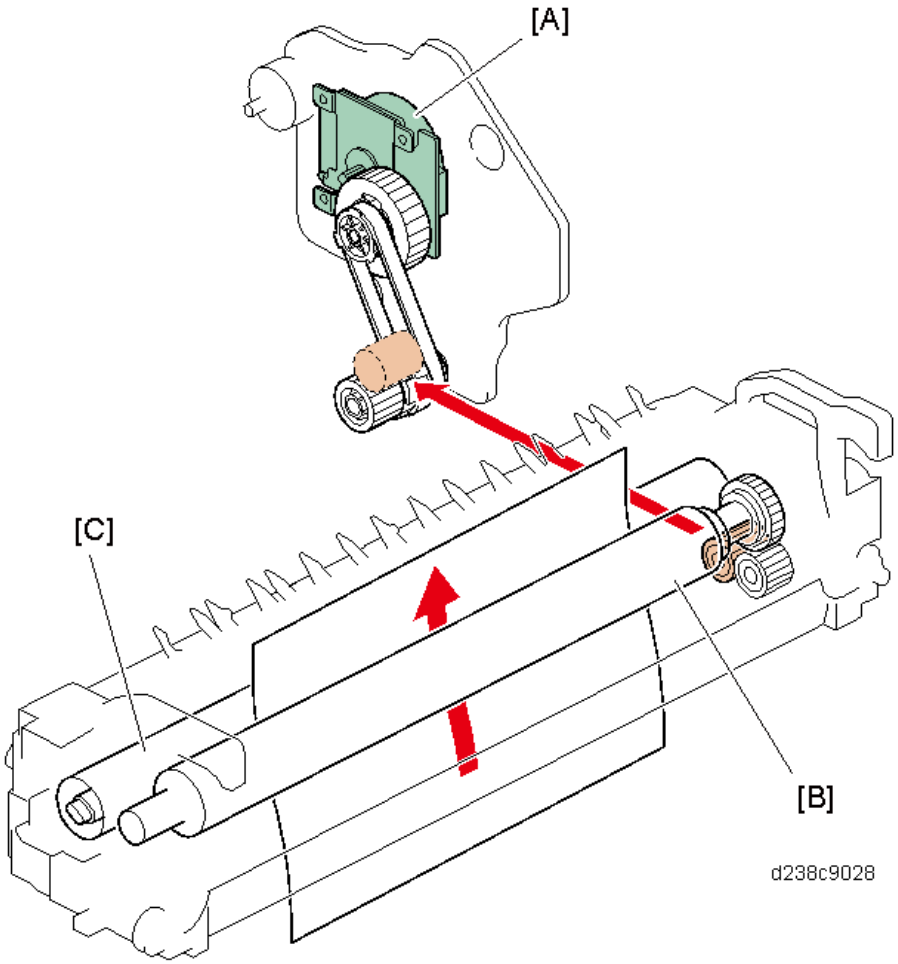
[H]: Shield sensor (to detect HP)

[I]: Reference edge (Reference edge is detected just after the main power supply is turned on, when printing is started, and when printing is finished.)

Fusing Drive

The pressure roller [B] is driven by the fusing motor [A].

The fusing sleeve belt [C] is driven by the pressure roller (drag rotation).



Pressure Release Mechanism

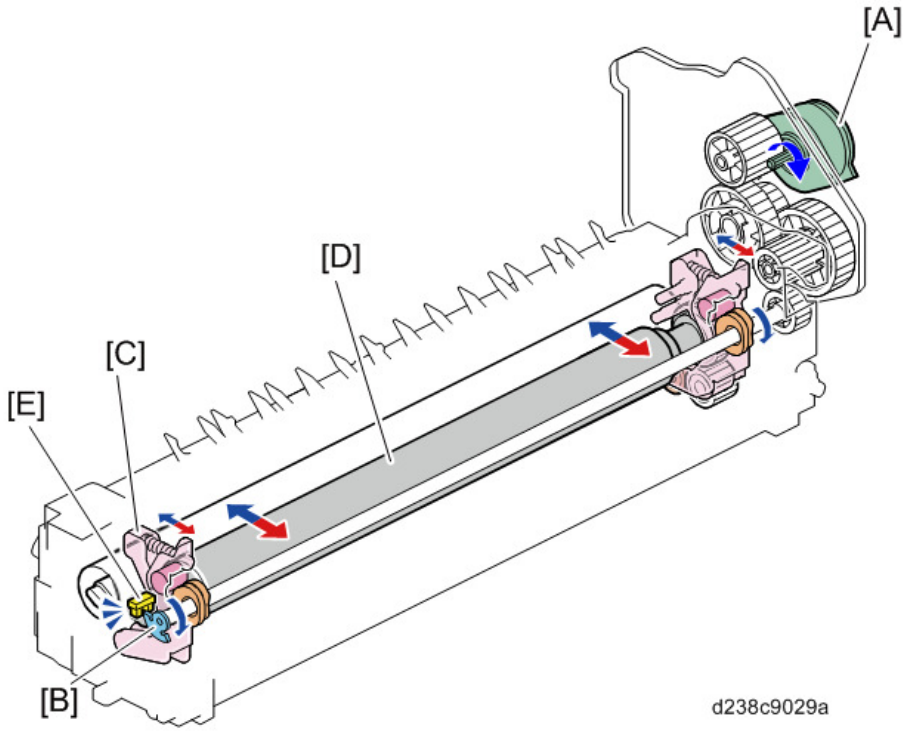
The pressure release mechanism helps the user to remove paper jams from the fusing unit more easily.

The pressure lever [C] is released by the paper exit/pressure release motor [A], and the pressure roller [D] separates from the fusing sleeve.

The pressure roller HP sensor [E] detects the encoder [B], and determines the position of the pressure roller.

After replacing the pressure roller, if the sensor does not detect the encoder 3 times continuously after a job is

completed, SC569-00 (Paper Exit/ Pressure Release Motor Error Detection) is generated.



Fusing Temperature Control

Warm-up mode

After power ON, fusing warm-up begins. The fusing motor is switched ON, the fusing lamp is energized, and the fusing temperature is increased to the "reload target temperature."
When fusing warm-up is completed, the fusing motor stays ON for a certain time, and the fusing temperature is maintained at the "reload target temperature."

Standby mode

After fusing reload, when a certain time has elapsed, power supply to the fusing lamp is switched OFF, and the fusing motor is switched OFF. At the same time, the temperature is maintained at the "standby target temperature (SP1-107-001)" by the fusing lamp.
In standby mode, the fusing motor rotates once every 60 minutes.
The operation interval of the fusing motor can be changed by SP1-122-001 (Standby Rotation Setting Rotation Interval) but the change may cause uneven glossiness on the image.

Printing ready mode

After returning to standby mode, the fusing lamp is re-energized, and the fusing temperature is raised to the "printing ready target temperature." If printing is not required, the machine again enters the standby mode after a certain time has elapsed.
If printing is required during returning to standby mode, the fusing lamp is energized, the fusing temperature is increased to "target temperature after reload/after paper feed," and the print job starts.

In printing ready mode, the shield is at the home position.

PPM Down Control

To maintain image quality and machine quality, this machine has a low-temperature PPM mode and a high-temperature PPM mode, and implements 3 levels of PPM down according to the usage situation and machine state.

Low-temperature PPM mode

In a low-temperature environment, the fusing lamp cannot keep up, and it may be difficult to maintain the fusing target temperature. To handle this, the detection temperature of the fusing center thermopile is checked every few seconds, and if the detected temperature is below a threshold value, the PPM is decreased by 1 level.
This low temperature PPM reduction is performed in the following 3 levels:

Mode	Level
Normal PPM	100%
PPM down 1	80%
PPM down 2	65%
PPM down 3	50%

High-temperature PPM mode

To shorten warm-up time and reduce the TEC value, this machine uses a fusing unit with a low heat capacity. For this reason, the temperature of those parts of the fusing belt where paper does not pass easily increases, and the areas outside of the paper width may get extremely hot. In order to prevent the belt from breaking due to this excessive temperature rise, PPM down is implemented depending on the usage conditions. PPM down can be implemented in the following 3 levels depending on the temperature detected by the temperature sensor, or the time that paper has continuously passed through the fusing unit.

Note

- The down level % is a value for the case where a typical paper type (normal paper: A4) passes through the SEF at normal speed. There may be some differences depending on paper size/paper thickness.

Mode	Level
Normal PPM	100%
PPM down 1	80%
PPM down 2	50%
PPM down 3	30%

PPM down determination using a temperature sensor

The temperature sensor is checked at given intervals, and if the detected temperature is above a threshold value, the PPM is decreased by 1 level.
Since the points at which temperature tends to increase depend on the paper size, the sensor used is changed depending on the paper size.

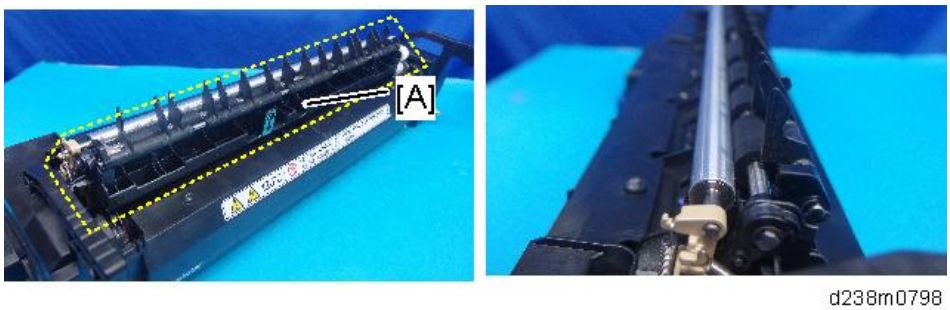
Paper width (length)	Check sensor
A3/DLT/B4	Pressure roller thermistor (edge)
LT/A4	Thermopile (edge)
B5/A5/B6/A6	Pressure roller thermistor (center)

PPM down determination using paper passage time

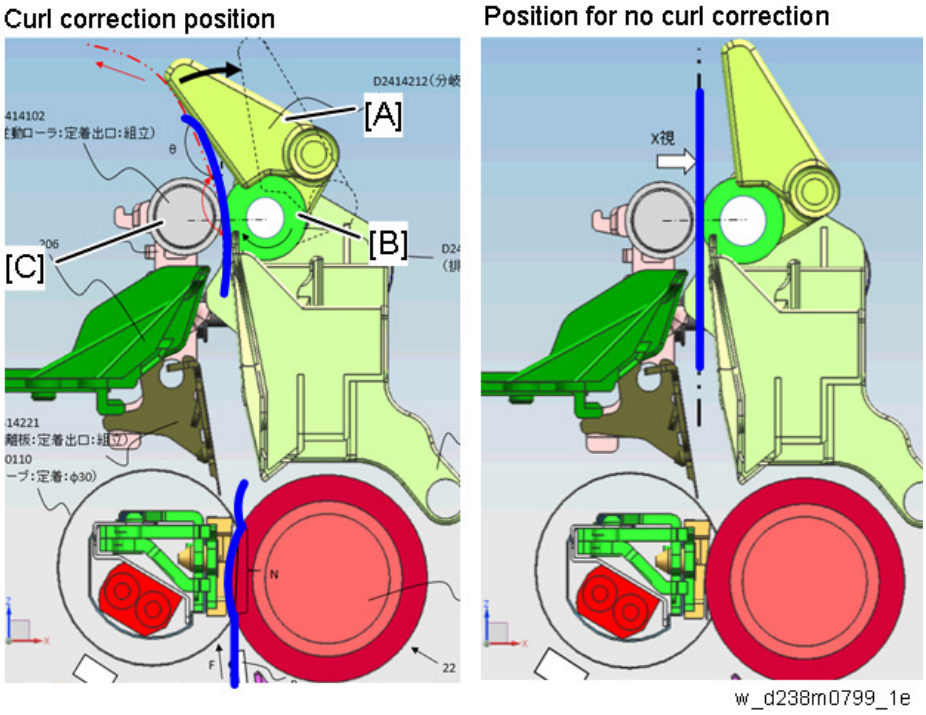
Depending on the paper size, it may not be possible use a sensor to determine the points on the fusing belt which rise in temperature.
Therefore, time conditions are also used to determine PPM down, and if the time that paper continuously passes through above a threshold value, PPM is decreased by 1 level.
When PPM down is performed as a result of time conditions, PPM does not increase after that.

Curl Correction Mechanism

There is a curl reduction mechanism at the fusing exit.



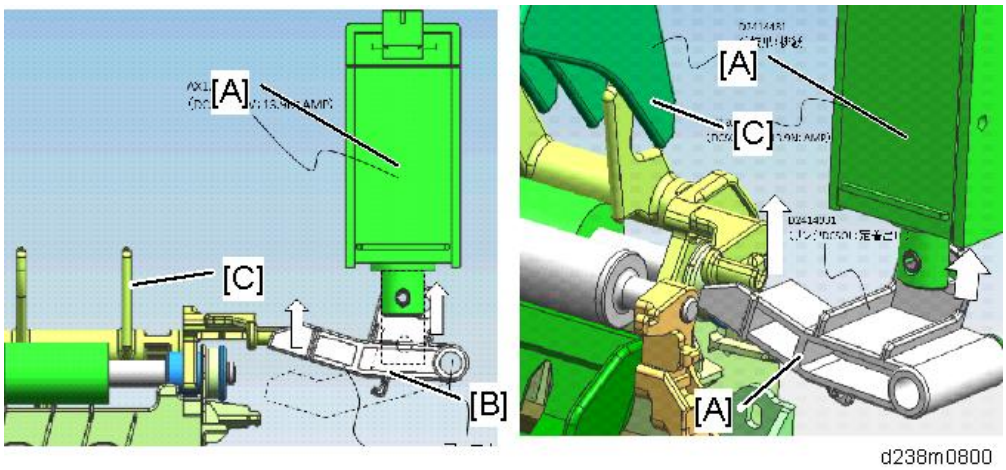
Curling is reduced by bending the paper in the reverse direction of the curl created at the fusing nip and forcibly adding resilience using the fusing exit roller [B], fusing exit driven roller [C], and fusing junction gate [A], located at the fusing nip exit.
The fusing junction gate is retracted for duplex printing/thick paper to prevent image smearing.



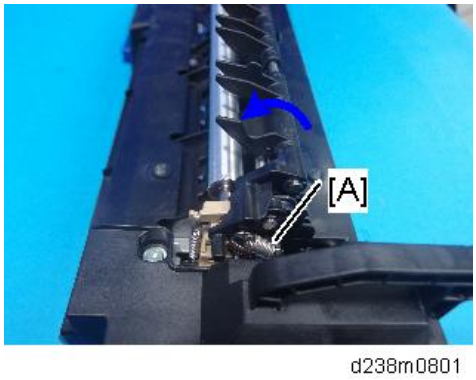
Drive

The fusing junction gate [C] is rotated via the arm [B] by turning ON the fusing exit drive solenoid [A] located on the main machine side.

When the solenoid is ON, the fusing junction gate is at the 'no curl correction' position.



When the solenoid is OFF, it is put in the 'continuous curl correction' position by spring [A].



Availability of curl correction by print mode

For duplex printing, or using thick paper, the fusing junction gate is retracted to prevent image smearing.

✓: Curl corrected (one-side printing only)

-: Curl not corrected

	Thin Paper	Plain Paper 1	Plain Paper 2	Middle Thick	Thick Paper 1	Thick Paper 2	Thick Paper 3	Thick Paper 4
Normal Paper	✓	✓	✓	-	-	-	-	-
Recycled Paper	✓	✓	✓	-	-	-	-	-
Color Paper	✓	✓	✓	-	-	-	-	-
Special Paper 1	✓	✓	✓	-	-	-	-	-
Special Paper 2	✓	✓	✓	-	-	-	-	-
Special Paper 3	✓	✓	✓	-	-	-	-	-
Letterhead	✓	✓	✓	-	-	-	-	-
Preprinted Paper	✓	✓	✓	-	-	-	-	-
Bond Paper	✓	✓	✓	-	-	-	-	-
Cardstock	✓	✓	✓	-	-	-	-	-
OHP (Transparency)	-	-	-	-	-	-	-	-
Label Paper	✓	✓	✓	-	-	-	-	-
Coated: Matte	-	-	-	-	-	-	-	-
Envelopes	-	-	-	-	-	-	-	-
Coated: Glossy	-	-	-	-	-	-	-	-

SP1-907-096 (Operation Setting: Fusing Exit SOL Setting)

By changing SP1-907-096, the curl correction mechanism can be enabled regardless of the paper setting.

If the fusing exit drive solenoid is ON, the curl correction function is OFF.

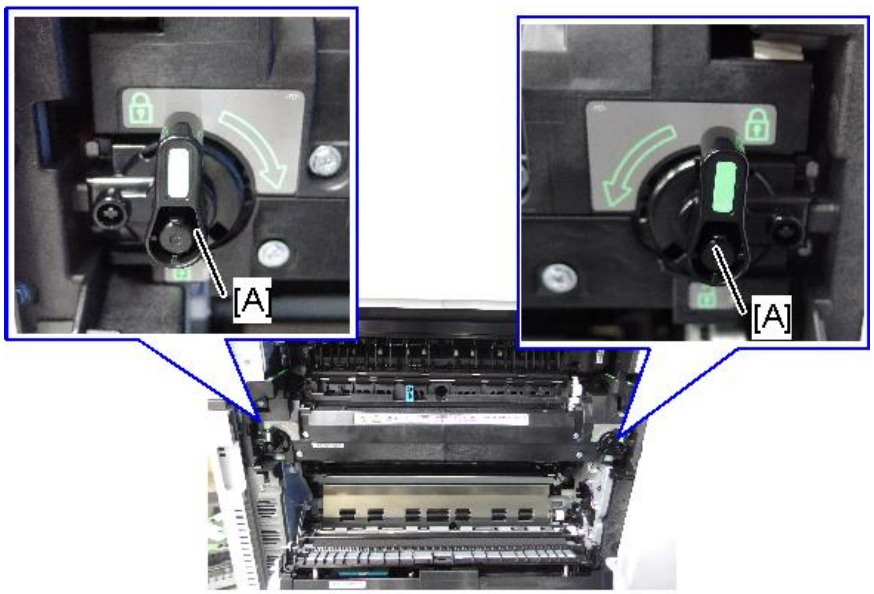
If the fusing exit drive solenoid is OFF, the curl correction function is ON.

SP value	Curl Correction	
	Tray	Bypass
0	Normal Operation	
1	Normal Operation	Always **OFF**
2	Always **OFF**	Normal Operation
3	Always **OFF**	Always **OFF**
4	Normal Operation	Always **ON**
5	Always **ON**	Normal Operation
6	Always **ON**	Always **ON**

For duplex printing, or printing to the 4-bin mailbox, always **no** curl correction regardless of the SP setting, because the fusing junction gate would interfere with the paper feed path.

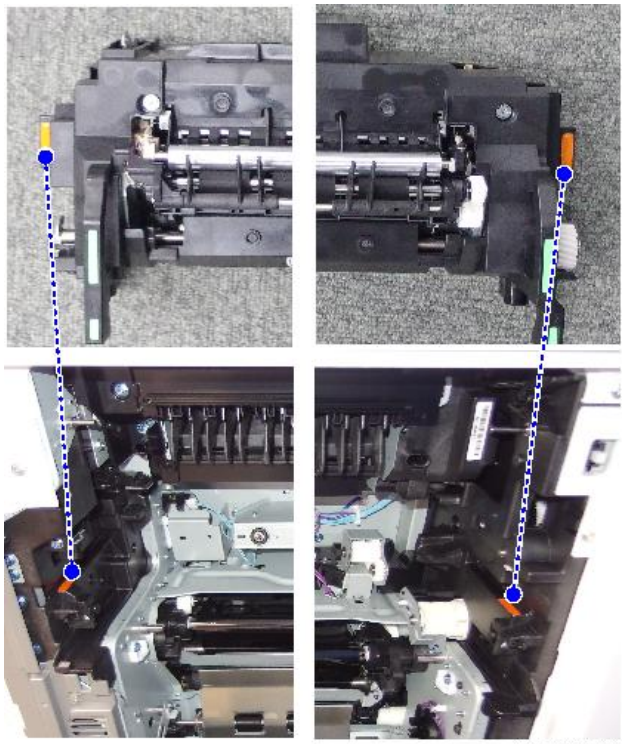
Fusing Unit Lock System

Instead of screws, this model has a lock lever [A] for removing and attaching the fusing unit.



m0ajm0081

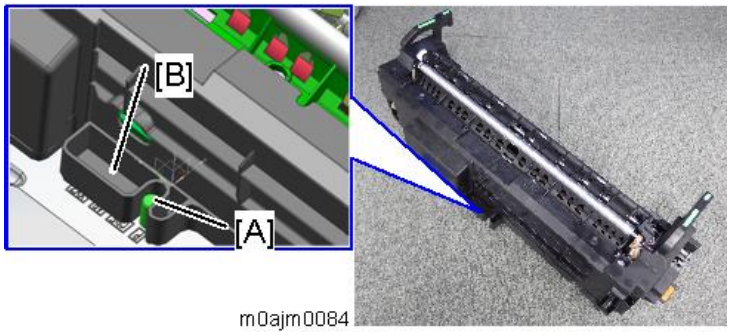
The machine and fusing unit have orange decals on them to instruct and support the procedure to remove and attach the fusing unit.



m0ajm0082

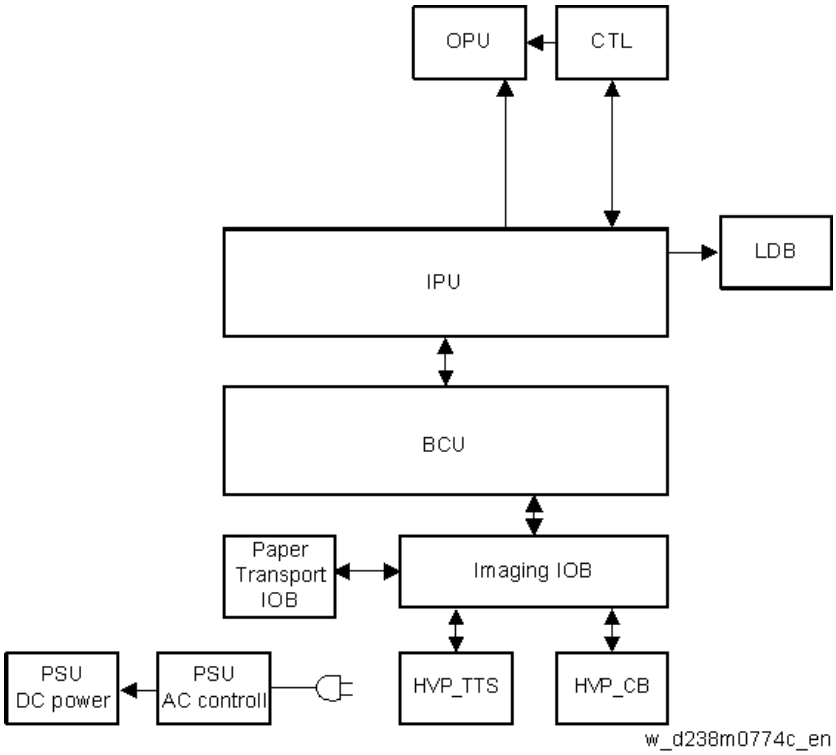
Incompatibility

The position of the positioning-pin [A] on the machine and the shape of the pin plug [B] on the bottom cover of the fusing unit are designed specifically for this model (SP C840DN/SP C842DN), thus ensuring physical incompatibility with other models.


[B]
[A]
m0ajm0084

Electrical parts

Block Diagram



Board Outline

Controller

Controls the machine system overall. Contains an x86CPU, controller ASIC, IO control ASIC, and RAM.

LDB

LD control circuit which drives the laser diode with a universal driver.

BCU

Controls the engine.

IPU

Processes digital signals.

IOB

Controls the machine engine sensors, motors and solenoids.

OPU

Controls the control panel.

This machine is equipped with the 2nd generation Smart Operation Panel.

HVP (composite high-voltage power supply TTS/CB)

Generates the high-voltage power required for process control. Divided into two units, i.e., transfer (TTS) and charge/development (CB).

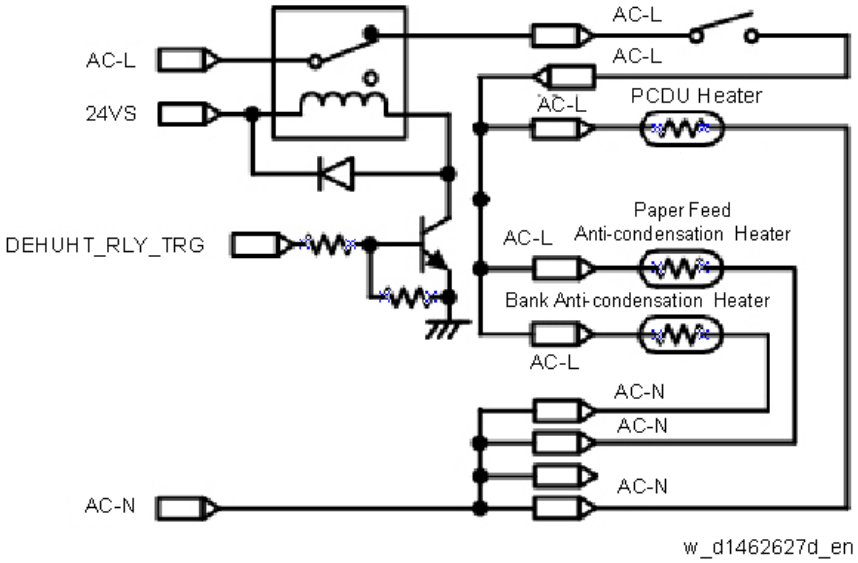
PSU

Generates DC power from the mains AC power supply, and supplies it to each control circuit. Contains an AC drive circuit for controlling the fusing lamp.

Feed Tray Anti-condensation Heater and PCDU Anti-condensation Heater

Circuit Configuration

The power circuit of the anti-condensation heater for PCDU is linked to the switch of the paper feed heater. Therefore, when the paper feed heater power is turned OFF, all heaters are de-energized. In addition, the operation is controlled so as not to exceed the maximum power.



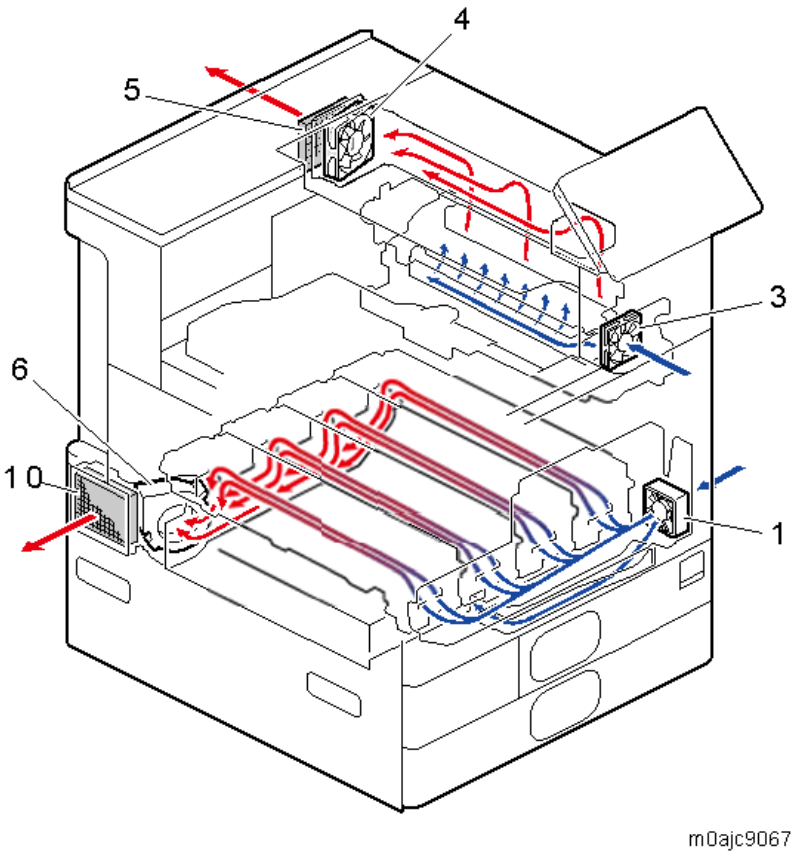
The behavior of the anti-condensation heaters when the machine is in standby mode is controlled by SP5-805-001 (Anti-Condensation Heater OFF/ON).

Heater	SP5-805-001	Plug-in	Energy saving	Standby	Printing
• PCDU heater	OFF (0)	ON	ON	OFF	OFF
• Main machine tray heater • Optional paper feed tray heater	ON (1)		ON		

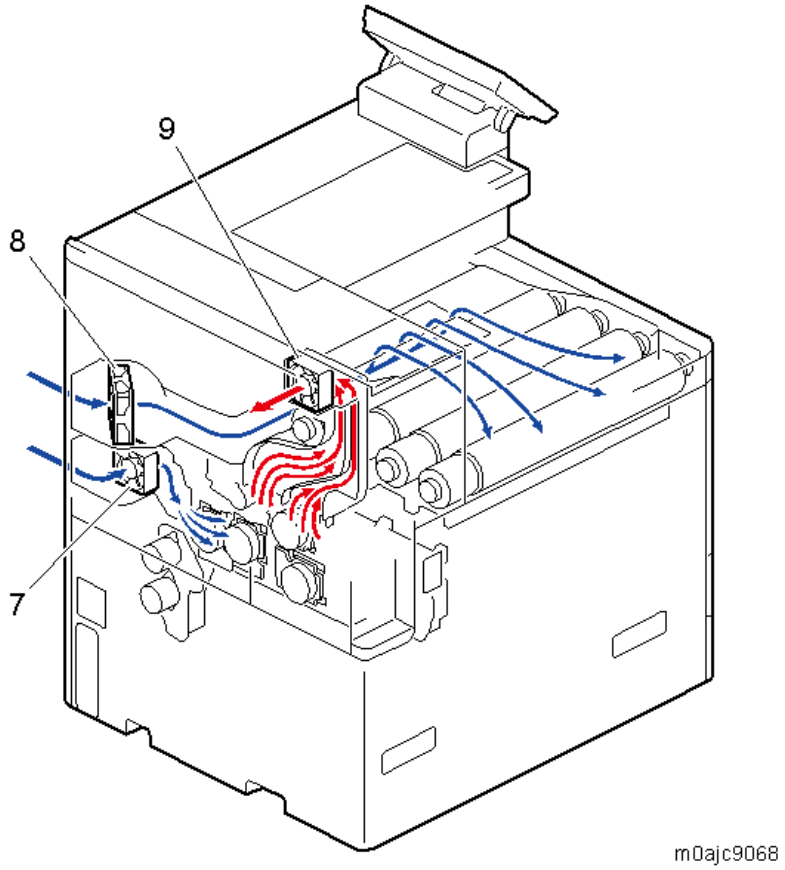
Exterior Cover/Air Flows (Fan Control)

Air Flows

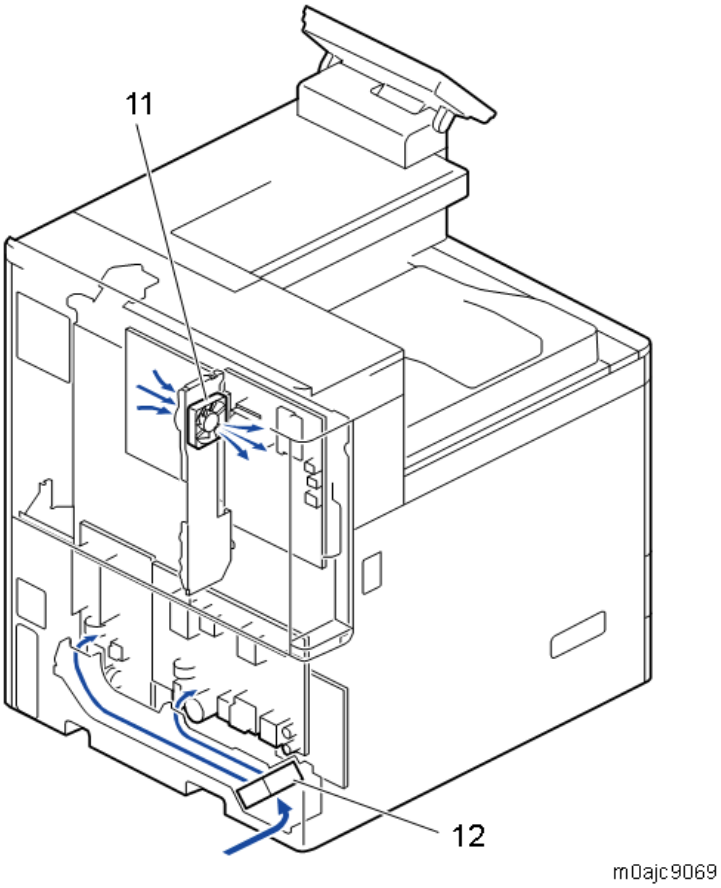
Imaging system (front)



Imaging system (rear)



Electric system



No.	Part name
1	Development intake fan (Development Intake Fan)
3	Paper exit cooling fan (Paper Exit Cooling Fan)
4	Fusing exhaust fan (Fusing Exhaust Fan)
5	Deodorization filter (Deodorization Filter)
6	Ozone exhaust fan (Ozone Exhaust Fan)
7	Drive cooling fan (Drive Cooling Fan)
8	Toner supply cooling fan (Toner Supply Cooling Fan)
9	Main exhaust fan (Main Exhaust Fan)
10	Ozone filter/Dust filter (Ozone filter/Dust filter)
11	Controller Box Cooling Fan (Controller Box Cooling Fan)
12	PSU cooling fan (PSU Cooling Fan)

Mechanism

By installing a duct for each fan, the air flow is efficiently directed to the cooling target. Moreover, improvement in quietness and energy-saving efficiency is achieved by performing stepwise operation of the fan according to the temperature measured by the imaging temperature sensor (thermistor).

Cooling of Toner Supply Parts

Air taken in with the toner supply cooling fan is guided around the toner bottle, and is discharged from the side of the delivery tray out of the machine. It is aimed to prevent heat from the stack of paper from affecting the toner bottle, and so making the toner less likely to melt.

Cooling of PCDU Parts

By discharging air taken in from the development intake fan at the front, and from the ozone exhaust fan at the rear, a uniform air flow is attained and efficient cooling is realized. Discharge of ozone and scattering of toner are prevented by installing an ozone filter and a dust filter in front of the ozone exhaust fan.

Cooling of Fusing Parts

Air taken in from the paper exit cooling fan at the front is discharged from the fusing exhaust fan at the rear. By cooling the paper immediately after fusing, this cools the fusing exit sensor, reduces stored heat of the stacked paper, and reduces curl. This also serves to prevent condensation on the paper exit guide sheet. As a measure against odor, a deodorization filter is installed downstream from the fusing exhaust fan.

Cooling of Actuator

Air taken in from the drive cooling fan is discharged from the main exhaust fan.

Cooling in Controller Box

Air is circulated by the controller box cooling fan installed in the controller box, preventing temperature rise in the controller box.

Machine Control when Temperature Rises inside the Machine

In order to suppress excessive temperature rise in the machine and maintain equipment quality, a temperature sensor (imaging temperature sensor (thermistor)) [A] is installed in the machine. The imaging temperature sensor (thermistor) detects the temperature in the machine, and controls cooling.

Overview of cooling operation in the machine

The temperature in the machine is detected during output and after output, and the interior of the machine is

cooled by fan operation (stepwise operation of fans, prolonged fan rotation after paper has passed through) according to the temperature inside the machine.
However, if the temperature inside the machine rises significantly due to passing a large volume of paper, in addition to fan operation, the PPM is reduced to control the temperature in the machine.

Cooling operation during output

Cooling operation is done under the following conditions.

Part name	Temperature measured by Imaging temperature sensor (thermistor)						
	- 34	**34**	**35**	**36**	**37**	**38**	**40*1**
Fusing exhaust fan	ON	ON	ON	ON	ON	ON	ON
Ozone exhaust fan	20%	20%	30%	30%	40%	40%	40%
Toner supply cooling fan	-	-	-	ON	ON	ON	ON
Development air intake fan / right*3	-	-	-	ON	ON	ON	ON
Drive cooling fan	-	-	-	ON	ON	ON	ON
Main exhaust fan	-	-	-	ON	ON	ON	ON
Paper exit cooling fan*2	ON	ON	ON	ON	ON	ON	ON
PSU cooling fan*2	ON	ON	ON	ON	ON	ON	ON
Controller box cooling fan *2	ON	ON	ON	ON	ON	ON	ON

Note

The temperature that the fans start to operate can be set with SP1-955 (Fan Operation Switch Temp.).

*1 If the imaging temperature reaches **39**°C, each fan will continue operating until it falls by 2°C.
*2 Operating condition:

- When the time interval from the previous job is less than 10 minutes. Or, when the time interval from the previous job is more than 10 minutes, and 5 minutes have elapsed from machine start.

*3 Operating condition:

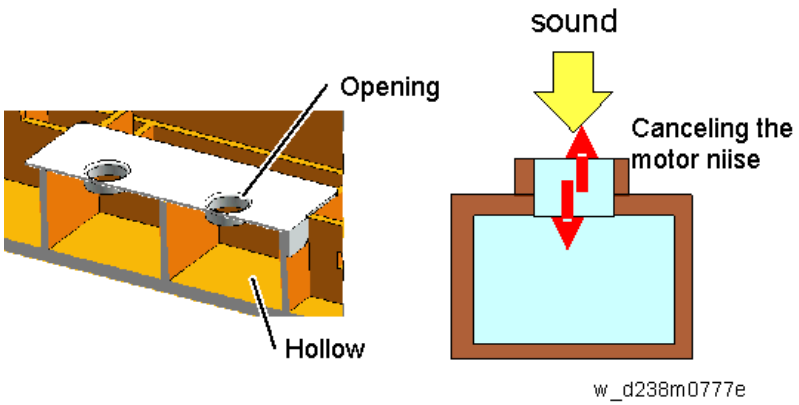
- For 36°C or above, full speed rotation at 24V
- For less than 36°C, rotated at low speed with voltage reduced to 13V (rotating speed approximately 50%)
- Changes from low speed rotation to full speed rotation when printing continues for more than 5 minutes while the temperature inside the machine is 36°C or lower

Cooling operation after output

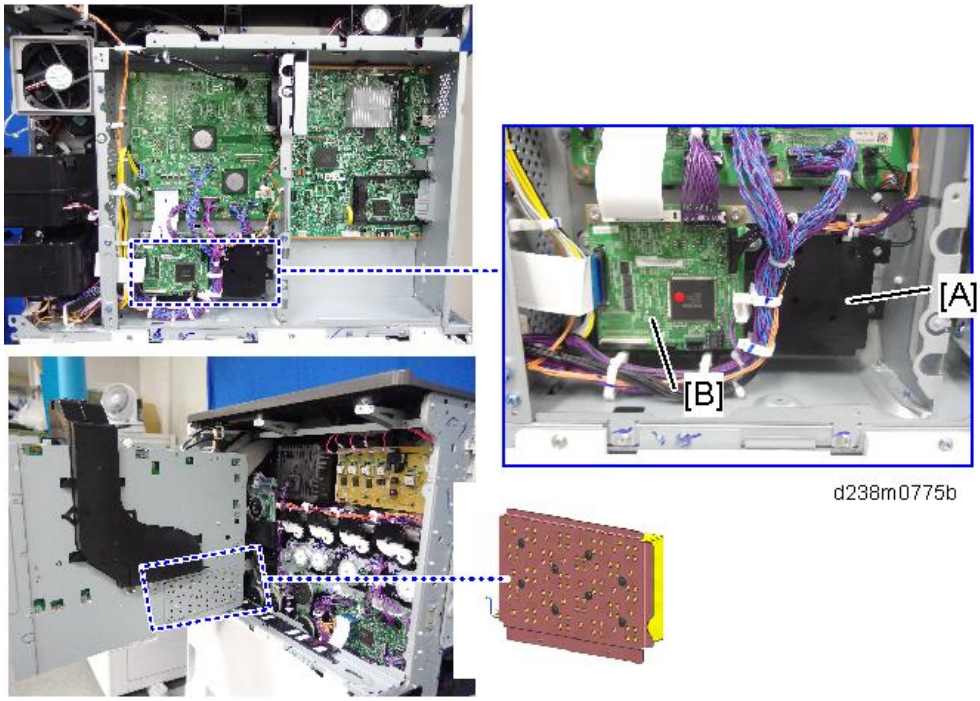
Usually, after output, fan operation is suspended.
If the temperature in the machine after output is high, fan rotation is continued after output to cool the interior of the machine.

Helmholtz Silencer

The Helmholtz silencer applies the resonance phenomenon called the "Helmholtz resonance" to emit a sound having reverse phase of the motor frequency by resonance and cancel the motor noise.



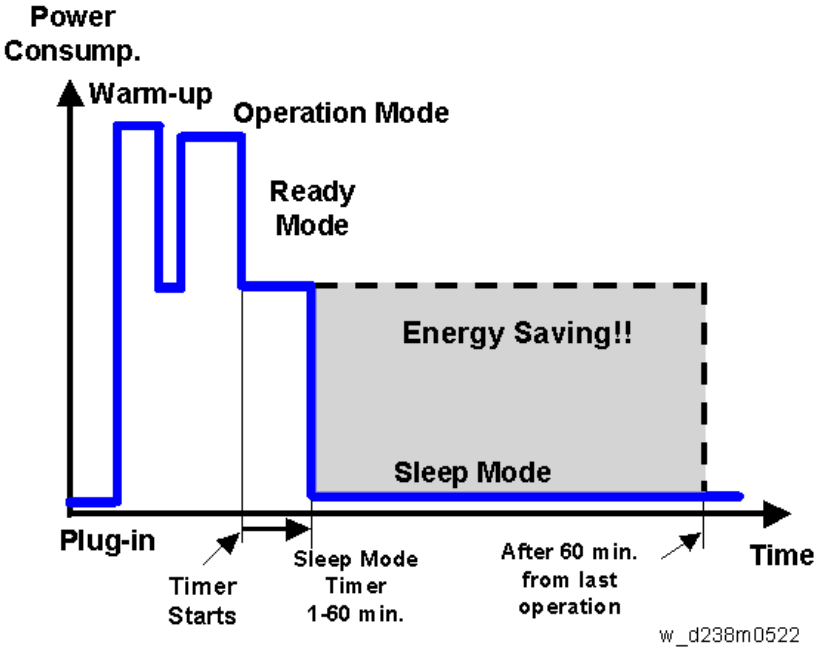
On this machine, it is located on the controller box side to reduce the noise. The BCU [B] is mounted on the mold [A] of the Helmholtz silencer.



Energy Save

Energy Saver Modes

Customers should use energy saver modes properly, to save energy and protect the environment.



The area shaded grey in this diagram represents the amount of energy that is saved when the timers are at the default settings. If the timers are changed, then the energy saved will be different. For example, if the timers are all set to 60 min., the grey area will disappear, and no energy is saved before 60 min. expires.

Setting Items that are Related to Energy Saving

The user can set these timers with User Tools (Machine Features > System Settings > Timer Settings)

Sleep Mode Timer

User Tools (Machine Features > System Settings > Timer Settings)

After a specified period has passed, or [Energy Saver] is pressed, the machine enters Sleep mode in order to conserve energy. Specify the time to elapse before Sleep mode.

Default: [1 minute(s)]

Sleep Mode Timer may not work when error messages appear.

Depending on which Embedded Software Architecture application is installed on it, the machine might take longer than indicated to enter Sleep mode.

Fusing Unit Off Mode (Energy Saving) On/Off

User Tools (Machine Features > System Settings > Timer Settings)

Specifies whether Fusing Unit Off mode is enabled or not.

When Fusing Unit Off mode is enabled, the display is on but the fusing unit is off to save energy.

The machine requires roughly the same time as warm-up time to recover from Fusing Unit Off mode.

Default: [Off]

If [Fusing Unit Off Mode (Energy Saving) On/Off] is set to [On], you can specify when to exit Fusing Unit Off mode and the time to elapse before entering Fusing Unit Off mode.
If [Exit Fusing Unit Off Mode] is set to [On Printing], the machine exits Fusing Unit Off mode when printing is performed.
If [Exit Fusing Unit Off Mode] is set to [On Operating Control Panel], the machine exits Fusing Unit Off mode when a key other than the copy function key is pressed on the control panel of the machine.

Energy Saving Recvry. for Business Applicatn.

User Tools (Machine Features > System Settings > General Features)
Specify whether or not to enable low-energy recovery from Sleep mode to use applications independent of the machine, such as Address Book Management or Browser.
Default: [Off]
If [On (Energy Saving)] is selected, it takes longer than usual to be ready to use the machine.

Recovery Time/Reduced Electrical Consumption

Reduced electrical consumption in Sleep mode*1:

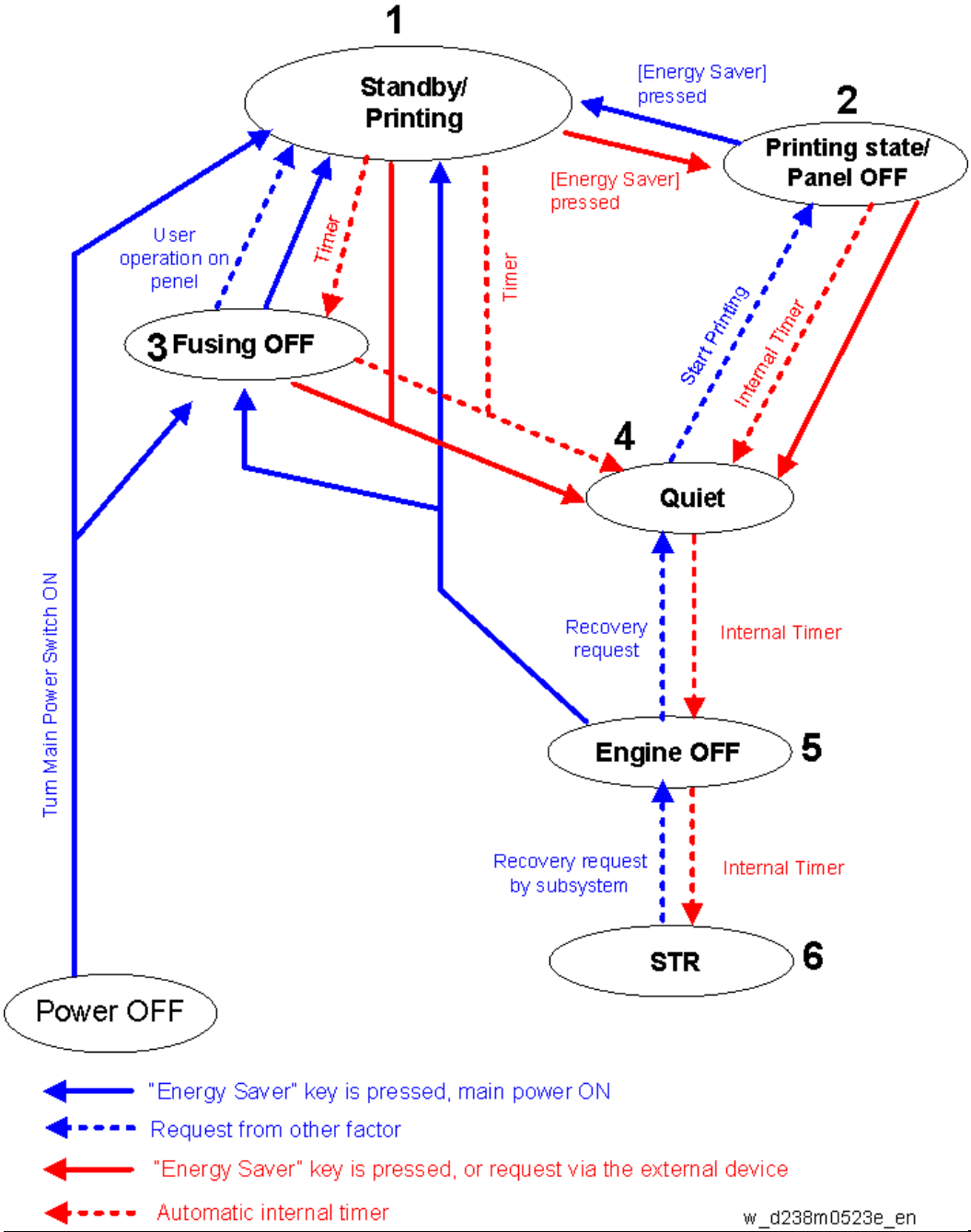
SP C840DN	SP C842DN
EU/AP: 0.81 W NA: 0.7 W	EU/AP:0.81 W NA: 0.7 W

Recovery time from Sleep mode*1

SP C840DN	SP C842DN
7.3 sec.	7.3 sec.

*1 The time it takes to switch out from energy saving functions and electrical consumption may differ depending on the conditions and environment of the machine.

Power States of this Machine



	State	Description
1	Standby/Printing	• State where normal operation is possible after warm-up • State during printing
2	Printing state/Panel OFF	State when printing with the backlight of the operation panel turned off
3	Fusing OFF	State where the Standby Fusing OFF state is entered when the time set with the **"Fusing Unit Off Mode (Energy Saving) On/Off"** setting of the User Tools has elapsed. • State where the operation panel is flashing and the fusing lamp is OFF.

	State	Description
		• The bottom plate of the paper feed tray is raised.
4	**Quiet** state	**Quiet** state is entered when the Energy Saving key is pressed or the time set with the "**Sleep Mode Timer**" of the User Tools has elapsed. This is a temporary energy saving state before entering sleep mode. • Basically, no homing (initialization) of peripheral devices is performed. • The bottom plate of the paper feed tray is raised. • The fusing lamp is turned OFF.
5	Engine OFF (Sleep mode)	Entered from **Quiet** state with internal timer. • The relevant power systems (24V, 12V, 5V) are turned OFF at the same time as the fusing lamp. • When printing is performed in engine OFF state, warm-up is started and printing is performed while the backlight of the operation panel is turned OFF.
6	STR state (Sleep mode)	Supplying of power and clock to the CPU and peripheral chips on the controller board is stopped.

Device state for each Energy Saving state

State	Energy Saving LED	Operation panel LCD	Engine (Printer)	HDD	CTL
Standby/Printing	ON	ON	ON	ON	ON
Printing state/Panel OFF	ON	OFF	ON	ON	ON
fusing OFF	ON	ON	ON (Printer is in **Quiet** state)	ON	ON
Quiet state	ON	OFF **ON*1**	ON (Printer is in **Quiet** state)	ON	ON
Engine OFF	Blinking gradually **ON*1**	Sleep **OFF or ON*1**	OFF	OFF **ON*1**	ON
STR state	Blinking gradually	Sleep	OFF	OFF	STR

*1 When [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)], ON/OFF is determined by the internal timer of the Smart Operation Panel.

Transition of operation panel to Energy Saving when [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)]

Normally, the Energy Saving state of the operation panel LCD changes in step with the energy saving state of the MFP/LP main unit, but to support the scenario where an application that does not use the engine (printer) is executed from the operation panel, the Energy Saving state of the operation panel is transitioned through the three states ON, OFF, and Sleep with its internal timer when [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)].

Verification of Up Time for each Energy Saving State

The up time for each power state of the machine can be checked with SP8-961 (Electricity Status). It is also output on the SMC sheet.

SP	Name	Description
SP8-961-001	Ctrl Standby Time	Cumulative time of Engine OFF mode, Quiet mode, and Standby mode
SP8-961-002	STR Time	Cumulative time of STR mode
SP8-961-003	Main Power Off Time	Cumulative time of state in which the power plug is connected to the outlet but the main power is off
SP8-961-004	Reading and Printing Time	Cumulative time of state in which the plotter engine is running or warming up
SP8-961-005	Printing Time	Cumulative time of the state in which the plotter engine is running
SP8-961-007	Eng Waiting Time	Cumulative time of state in which the power state of the engine is Standby state
SP8-961-008	Low Power State Time	Not used for this machine
SP8-961-009	Quiet State Time	Cumulative time of the state in which the power state of the engine is Quiet state
SP8-961-010	Fusing Lamp Off State Time	Cumulative time of the state in which the power state of the engine is Fusing OFF state
SP8-961-011	LCD on Time	Cumulative time of the state in which the backlight of the LCD is on.

Checking the Up time by Device State

SP 8941 (Machine Status) keeps a record of the amount of time that the machine spends in each mode.

SP8-941-001	Operation Time	Cumulative time of the state in which the engine state notification is enabled. The state in which the engine is not running (such as when storing to HD only with the controller) is excluded from the running state.
SP8-941-002	Standby Time	Cumulative time of the state in which the engine state is not running.
SP8-941-003	Low Power Time	Not used for this machine
SP8-941-004	Sleep mode time	Cumulative time in Sleep Mode state.

SP8-941-005	Off Mode Time	Cumulative time in which the Energy Saving state of the device is Engine OFF state.
SP8-941-006 to 009	Down time	Cumulative time in which the device is disabled because itself or its component is in the following state. • SP8-941-006: SC (excluding mode SC) • SP8-941-007: Jam (plotter) • SP8-941-009: Supply/PM unit end

With this data, and the power consumption values from the specifications, we can estimate the amount of energy that is used by the machine.

This should only be used as a reference value, because the power consumption specifications are measured in a controlled environment with a constant power supply.

To get an exact measurement at the customer's site, a watt meter must be used to measure the actual energy consumed.

To use SP8941 to calculate the energy consumed:

- At the start of the measurement period, read the values of SP8-941-001 to 005.
- At the end of the measurement period, read the values of SP8-941-001 to 005 again.
- Find the amount of time spent in each mode (subtract the earlier measurement from the later measurement).
- Multiply this by the power consumption spec for each mode.
- Convert the result to kWh (kilowatt hours)

Recommendation

We recommend that the default settings related to energy saving should be kept.

- If the customer requests that these settings should be changed, please explain that their energy costs could increase, and that they should consider the effects on the environment of extra energy use.

10 Second Recovery from Sleep Mode

"Output Priority When Paper is Fed to Finisher" Setting in User Tools

Some similar models took more than 10 seconds to start printing the first sheet to the finisher tray from sleep mode.

This machine can reduce the start time to print the first sheet to the finisher tray by reducing the throughput at startup.

[Reference] Measurements on a Similar Model (Met-C1)

Destination	Machine Model	CPM	Full System (First Print time from Sleep Mode to Finisher Tray)
NA	MP C6003	60 cpm	11.0 sec.

Even with the NA and TWN models of SP C842DN, by setting [Output Priority When Paper is Fed to Finisher] in User Tools to [Print Start Time], the throughput at recovery time is adjusted as follows and the time to print the first sheet to the finisher is kept within 10 seconds.

SP C842DN specification (NA / TWN only)

Start time from sleep mode	Continuous print speed priority	Print start time priority
Recovery from sleep mode: 1 to 15 seconds	60 ppm	50 ppm
16 to 19 seconds	60 ppm	55 ppm
20 seconds or more	60 ppm	60 ppm

Setting Procedure

1. Press [User Tools] icon> [Machine Features] > [System Settings] > [General Settings] > [Output Priority When Paper is Fed to Finisher].
2. Set to [Print Start Time].

Improving the Print Start Time under Low Temperature, Low Humidity, or at Low Voltage

In this machine, there are SP to reduce the initial productivity in order to speed up the print time even under low temperature, low humidity, or low voltage condition in which the print start tends to be delayed. When these functions are enabled, the first sheet printing time is reduced with initial productivity equivalent to"Print Start Time"in "Output Priority When Paper is Fed to Finisher".

- SP1-120-001 (Recovery mode SW:Low Temp)ON [1] / OFF[0]
- SP1-120-002 (Recovery mode SW:Voltage:Low) ON [1] / OFF[0]

Improving the Throughput at the Start of Printing, under Low Temperature, or at Low Voltage

- SP1-124-210 (CPM Down Setting: Temp.:Threshold::Low Power)

- SP1-114-002 (Heat Storage Status: Temp.Threshold:Atmosphere)

These SP above sense the temperature of the fusing unit according to the temperature of the parts inside the unit. When the temperature of the parts reaches the value on this SP, the machine assesses that the fusing unit is warm enough and the function to improve the throughput is automatically turned off. Decreasing this threshold value causes risk of "Fusing Offset".

To increase the printing start timing / initial PPM, keep decreasing the corresponding SP value by 5°C while checking fusibility.

* You can also increase the speed to start printing by changing the SP1-102 (Feed Permit Setting) value. However, to change both the time to start printing and initial PPM, change the abovementioned SP value.

Adobe PS vs. Clone PS

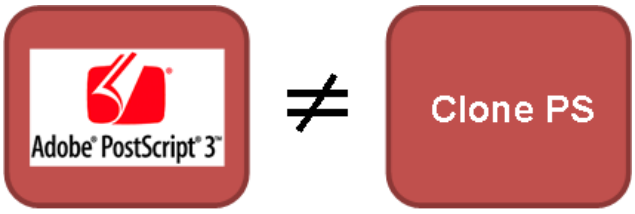
Overview

This machine is equipped with a clone program for emulating Adobe PostScript/PDF (hereafter “Clone PS”) as a standard feature. So, by default, it can perform printing using PostScript 3 and PDF Direct Print, in addition to RPCS.

- **What is Clone PS?**

  Based on the specifications of PostScript/PDF languages developed by Adobe, clone programs for interpretation of PostScript and PDF documents have been created by various companies other than Adobe. While the original program sold by the developer of the language is named Adobe PS, compatible programs made by other manufacturers are called clones. Strictly speaking, these clones must be fully compatible with the original program; however, they are called clones even if they have some differences, because they cannot completely imitate the original.

  Clone PS is basically designed to perform similar functions to Adobe PS, except for several differences such as inability to use Adobe fonts.



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Note

- Adobe PS, previously offered as an optional product for past models, is available again as an option. (It comes in an SD card, as was the case for former models.)
- Clone PS and Adobe PS cannot be run simultaneously.
- The same printer driver can be used for Clone PS and Adobe PS.
- Clone PS emulates Adobe PostScript 3 version 3017. (The version of Adobe PS used in the SD card option is v. 3018.)
- For the PDF Direct Print function, Clone PS emulates Adobe PDF version 1.7.

How to Distinguish Adobe PS from Clone PS

In the operation panel screen, it is difficult to tell whether Adobe PS or Clone PS is in use.

Both “PS3” and “PDF” are shown on the screen, regardless of whether Adobe PS or Clone PS is used.

Identification can be done as follows:

- **Configuration Page**

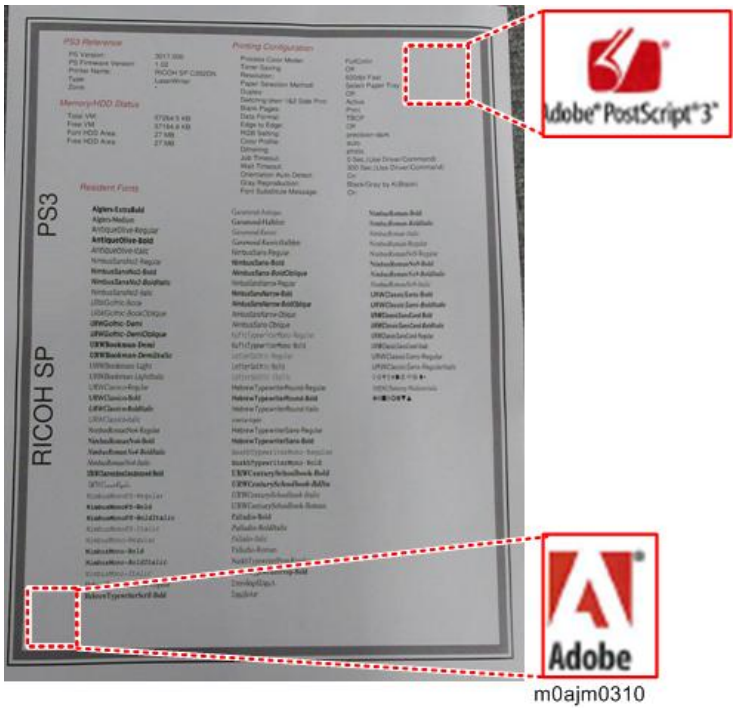
  The description of the Firmware Version listed on the page varies as shown below:

PS type	Description of Firmware Version
Adobe PS	RPCS [x.xx.xx] **Adobe PostScript 3** [x.xx], **Adobe PDF** [x.xx]
Clone PS	RPCS [x.xx.xx] **PS3** [x.xx], **PDF** [x.xx]

The manufacturers name “Adobe” is shown in the list if Adobe PS is used.

- **PS Configuration / Font Page**

  The “Adobe” logo is printed on the page if Adobe PS is used.



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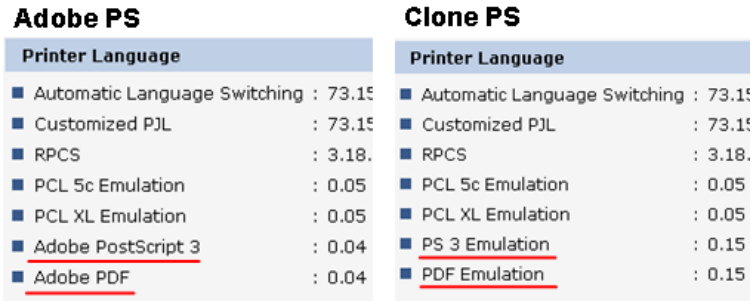
- **Web Image Monitor**

  Go to Status/Information > Device Info, and open the Printer Language menu.

  If Adobe PS is used, the screen shows the program name “Adobe PostScript 3” and "Adobe PDF".



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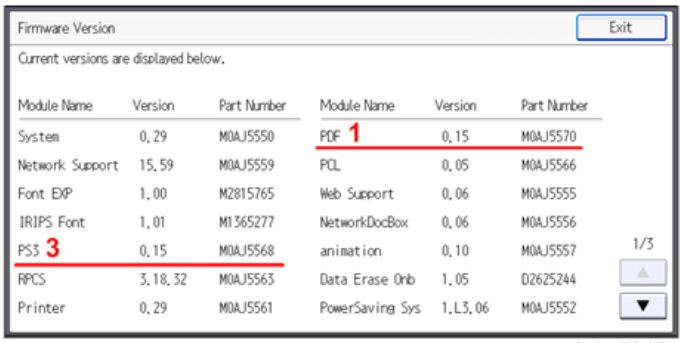
- **Operation Panel: Firmware Version**

  User Tools > Machine Features > System Settings > Administrator Tools > Firmware Version

  When PostScript3 Unit Type P11(Adobe PS) is installed:

m0ajm0303

Clone PS only:



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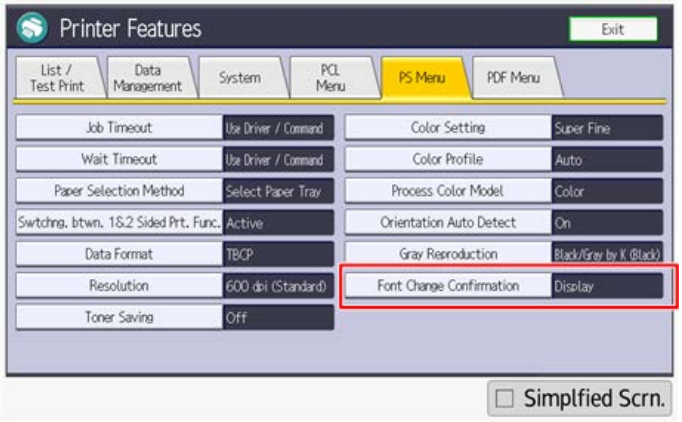
No.	Module Name	Description
1	PDF (1st page)	The **Clone PS** firmware number appears. The clone PS firmware number starts with “**M0AJ**”.
2	PDF (2nd page)	The **Adobe PS** firmware number "**M5005833**" appears. This module name appears in the firmware list only if PostScript3 Unit Type P11 is installed.
3	PS3 (Left)	The **Clone PS** firmware number appears. The clone PS firmware number starts with “**M0AJ**”.
4	PS3 (Right)	The **Adobe PS** firmware number "**M5005831**". This module name appears in the firmware list only if PostScript3 Unit Type P11 is installed.

- **Font Change Confirmation screen**

The “Font Change Confirmation” screen is accessible only when Clone PS is used.

On the Home screen, select the User Tools icon > Machine Features > Printer Features > PS Menu > Font

Change Confirmation.



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Difference in Device Fonts

The variety and number of built-in fonts (device fonts) differ between Adobe PS and Clone PS.

PS type	Number of European fonts
Adobe PS	136 fonts
Clone PS	93 fonts

For license reasons, the device fonts for Adobe PS cannot be handled by Clone PS. Instead, Clone PS is equipped with fonts similar to Adobe device fonts under different names; when an Adobe PS font is specified in the data to be printed, Clone PS will replace it with a similar font.

Use of a substitute font sometimes leads to different printing results, as shown in the table below.

Example 1

PS type	Helvetica
Adobe PS	Helvetica findfont: Change before you have to!
Clone PS	Helvetica findfont: Change before you have to!
	When Helvetica is used in the original document, Clone PS applies a substitute font named NimbusSans-Regular, maintaining almost the same appearance as the original data.

Example 2

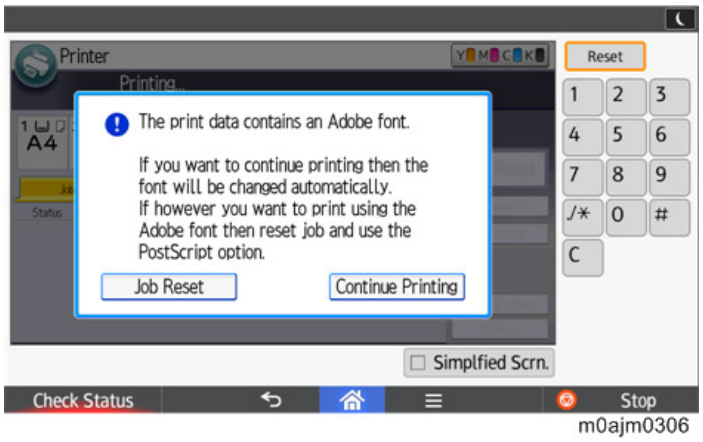
PS type	LetterGothic
Adobe PS	LetterGothic: Change before you have to!
Clone PS	LetterGothic: Change before you have to!
	When LetterGothic is originally used, Clone PS substitutes it with LetterGothic-Regular. In this case, the character spacing differs from that in the original data.

Example 3

PS type	Chicago
Adobe PS	Chicago: Change before you have to!
Clone PS	Chicago: Change before you have to!
	Clone PS does not support alternative fonts for Chicago; instead, the Courier font (*) is used. (The font shape differs significantly from Chicago.) * Since Courier itself is named among the Adobe PS device fonts, Clone PS substitutes it with an alternative font, NimbusMonoPS-Regular.

Font Change Confirmation Screen

Clone PS itself incorporates no Adobe fonts in it, and therefore replaces them with similar fonts when Adobe PS fonts are specified in the print data output to the printer.
However, there is a possibility that a substitute font not desired by the customer may be used; to cope with this issue, the operation panel shows a confirmation screen whenever an Adobe font is to be replaced by a similar font.



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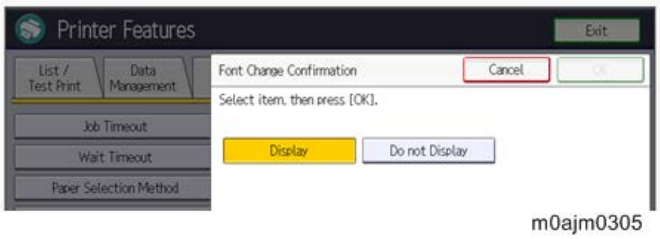
If the customer often prints data containing Adobe fonts that are almost the same in terms of spacing and shape as their substitutes, the confirmation screen appears every time printing is performed, making the printing operation cumbersome. In such a case, the font change confirmation screen can be hidden.

- User Tools icon on Home screen > Machine Features > Printer Features > PS Menu > Font Change Confirmation



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List of fonts and their replacements (Adobe PS -> Clone PS)

No.	Adobe PS	Clone PS
1	Courier	NimbusMonoPS-Regular
2	Courier-Bold	NimbusMonoPS-Bold
3	Courier-BoldOblique	NimbusMonoPS-BoldItalic
4	Courier-Oblique	NimbusMonoPS-Italic
5	Helvetica	NimbusSans-Regular
6	Helvetica-Bold	NimbusSans-Bold
7	Helvetica-BoldOblique	NimbusSans-BoldOblique
8	Helvetica-Oblique	NimbusSans-Oblique
9	Symbol	StandardSymL
10	Times-Bold	NimbusRoman-Bold
11	Times-BoldItalic	NimbusRoman-BoldItalic
12	Times-Italic	NimbusRoman-Italic
13	Times-Roman	NimbusRoman-Regular
14	AlbertusMT	NimbusMonoPS-Regular
15	AlbertusMT-Italic	NimbusMonoPS-Regular
16	AlbertusMT-Light	NimbusMonoPS-Regular
17	AntiqueOlive-Roman	NimbusMonoPS-Regular
18	AntiqueOlive-Italic	AntiqueOlive-Italic
19	AntiqueOlive-Bold	AntiqueOlive-Bold
20	AntiqueOlive-Compact	NimbusMonoPS-Regular
22	Apple-Chancery	NimbusMonoPS-Regular
22	ArialMT	NimbusSansNo2-Regular
23	Arial-ItalicMT	NimbusSansNo2-Italic
24	Arial-BoldMT	NimbusSansNo2-Bold
25	Arial-BoldItalicMT	NimbusSansNo2-BoldItalic
26	AvantGarde-Book	URWGothic-Book
27	AvantGarde-BookOblique	URWGothic-BookOblique
28	AvantGarde-Demi	URWGothic-Demi
29	AvantGarde-DemiOblique	URWGothic-DemiOblique
30	Bodoni	NimbusMonoPS-Regular
31	Bodoni-Italic	NimbusMonoPS-Regular
32	Bodoni-Bold	NimbusMonoPS-Regular
33	Bodoni-BoldItalic	NimbusMonoPS-Regular
34	Bodoni-Poster	NimbusMonoPS-Regular
35	Bodoni-PosterCompressed	NimbusMonoPS-Regular
36	Bookman-Light	URWBookman-Light

No.	Adobe PS	Clone PS
37	Bookman-LightItalic	URWBookman-LightItalic
38	Bookman-Demi	URWBookman-Demi
39	Bookman-DemiItalic	URWBookman-DemiItalic
40	Carta	NimbusMonoPS-Regular
41	Chicago	NimbusMonoPS-Regular
42	Clarendon	NimbusMonoPS-Regular
43	Clarendon-Light	NimbusMonoPS-Regular
44	Clarendon-Bold	NimbusMonoPS-Regular
45	CooperBlack	NimbusMonoPS-Regular
46	CooperBlack-Italic	NimbusMonoPS-Regular
47	Copperplate-ThirtyTwoBC	NimbusMonoPS-Regular
48	Copperplate-ThirtyThreeBC	NimbusMonoPS-Regular
49	Coronet-Regular	NimbusMonoPS-Regular
50	Eurostile	NimbusMonoPS-Regular
51	Eurostile-Bold	NimbusMonoPS-Regular
52	Eurostile-ExtendedTwo	NimbusMonoPS-Regular
53	Eurostile-BoldExtendedTwo	NimbusMonoPS-Regular
54	Geneva	NimbusMonoPS-Regular
55	GillSans	NimbusMonoPS-Regular
56	GillSans-Italic	NimbusMonoPS-Regular
57	GillSans-Bold	NimbusMonoPS-Regular
58	GillSans-BoldItalic	NimbusMonoPS-Regular
59	GillSans-Condensed	NimbusMonoPS-Regular
60	GillSans-BoldCondensed	NimbusMonoPS-Regular
61	GillSans-Light	NimbusMonoPS-Regular
62	GillSans-LightItalic	NimbusMonoPS-Regular
63	GillSans-ExtraBold	NimbusMonoPS-Regular
64	Goudy	NimbusMonoPS-Regular
65	Goudy-Italic	NimbusMonoPS-Regular
66	Goudy-Bold	NimbusMonoPS-Regular
67	Goudy-BoldItalic	NimbusMonoPS-Regular
68	Goudy-ExtraBold	NimbusMonoPS-Regular
69	Helvetica-Condensed	NimbusMonoPS-Regular
70	Helvetica-Condensed-Oblique	NimbusMonoPS-Regular
71	Helvetica-Condensed-Bold	NimbusMonoPS-Regular
72	Helvetica-Condensed-BoldObl	NimbusMonoPS-Regular
73	Helvetica-Narrow	NimbusSansNarrow-Regular

No.	Adobe PS	Clone PS
74	Helvetica-Narrow-Oblique	NimbusSansNarrow-Oblique
75	Helvetica-Narrow-Bold	NimbusSansNarrow-Bold
76	Helvetica-Narrow-BoldOblique	NimbusSansNarrow-BoldOblique
77	HoeflerText-Regular	NimbusMonoPS-Regular
78	HoeflerText-Italic	NimbusMonoPS-Regular
79	HoeflerText-Black	NimbusMonoPS-Regular
80	HoeflerText-BlackItalic	NimbusMonoPS-Regular
81	HoeflerText-Ornaments	NimbusMonoPS-Regular
82	JoannaMT	NimbusMonoPS-Regular
83	JoannaMT-Italic	NimbusMonoPS-Regular
84	JoannaMT-Bold	NimbusMonoPS-Regular
85	JoannaMT-BoldItalic	NimbusMonoPS-Regular
86	LetterGothic	LetterGothic-Regular
87	LetterGothic-Slanted	NimbusMonoPS-Regular
88	LetterGothic-Bold	LetterGothic-Bold
89	LetterGothic-BoldSlanted	NimbusMonoPS-Regular
90	LubalinGraph-Book	NimbusMonoPS-Regular
91	LubalinGraph-BookOblique	NimbusMonoPS-Regular
92	LubalinGraph-Demi	NimbusMonoPS-Regular
93	LubalinGraph-DemiOblique	NimbusMonoPS-Regular
94	Marigold	Mauritius-Regular
95	Monaco	NimbusMonoPS-Regular
96	MonaLisa-Recut	NimbusMonoPS-Regular
97	NewCenturySchlbk-Roman	URWCenturySchoolbook-Roman
98	NewCenturySchlbk-Italic	URWCenturySchoolbook-Italic
99	NewCenturySchlbk-Bold	URWCenturySchoolbook-Bold
100	NewCenturySchlbk-BoldItalic	URWCenturySchoolbook-BdIta
101	NewYork	NimbusMonoPS-Regular
102	Optima	NimbusMonoPS-Regular
103	Optima-Italic	NimbusMonoPS-Regular
104	Optima-Bold	NimbusMonoPS-Regular
105	Optima-BoldItalic	NimbusMonoPS-Regular
106	Oxford	NimbusMonoPS-Regular
107	Palatino-Roman	Palladio-Roman
108	Palatino-Italic	Palladio-Italic
109	Palatino-Bold	Palladio-Bold
110	Palatino-BoldItalic	Palladio-BoldItalic

No.	Adobe PS	Clone PS
111	StempelGaramond-Roman	NimbusMonoPS-Regular
112	StempelGaramond-Italic	NimbusMonoPS-Regular
113	StempelGaramond-Bold	NimbusMonoPS-Regular
114	StempelGaramond-BoldItalic	NimbusMonoPS-Regular
115	Tekton	NimbusMonoPS-Regular
116	TimesNewRomanPSMT	NimbusRomanNo9-Regular
117	TimesNewRomanPS-ItalicMT	NimbusRomanNo9-Italic
118	TimesNewRomanPS-BoldMT	NimbusRomanNo9-Bold
119	TimesNewRomanPS-BoldItalicMT	NimbusRomanNo9-BoldItalic
120	Univers	NimbusMonoPS-Regular
121	Univers-Oblique	NimbusMonoPS-Regular
122	Univers-Bold	URWClassicSans-Bold
123	Univers-BoldOblique	NimbusMonoPS-Regular
124	Univers-Light	NimbusMonoPS-Regular
125	Univers-LightOblique	NimbusMonoPS-Regular
126	Univers-Condensed	NimbusMonoPS-Regular
127	Univers-CondensedOblique	NimbusMonoPS-Regular
128	Univers-CondensedBold	NimbusMonoPS-Regular
129	Univers-CondensedBoldOblique	NimbusMonoPS-Regular
130	Univers-Extended	NimbusMonoPS-Regular
131	Univers-ExtendedObl	NimbusMonoPS-Regular
132	Univers-BoldExt	NimbusMonoPS-Regular
133	Univers-BoldExtObl	NimbusMonoPS-Regular
134	Wingdings-Regular	URWDingbats
135	ZapfChancery-MediumItalic	URWChancery-MediumItalic
136	ZapfDingbats	Dingbats

Differences in Driver Functions

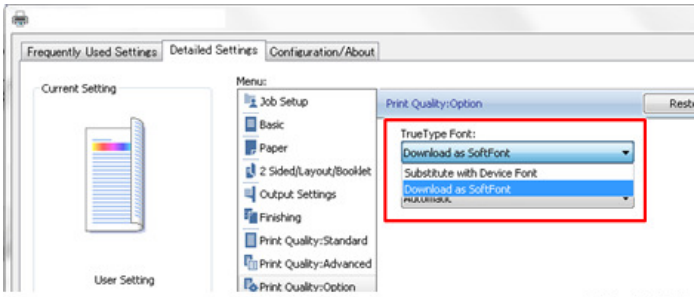
As shown below, there are differences in available driver functions between Adobe PS and Clone PS.

1. Font Substitution Table (Applicable only to driver for Windows OS)

Start > Device and Printer > Printer Properties > Device Settings

For Clone PS, the Font Substitution Table under the Device Settings menu will not be displayed. Clone PS has font substitution table data similar to that of Adobe PS, and performs font replacement as appropriate.

To disable font replacement, go to Printing Preferences > Detailed Settings > “Print Quality: Option” > “True Type Font:” option, and select “Download as SoftFont”.



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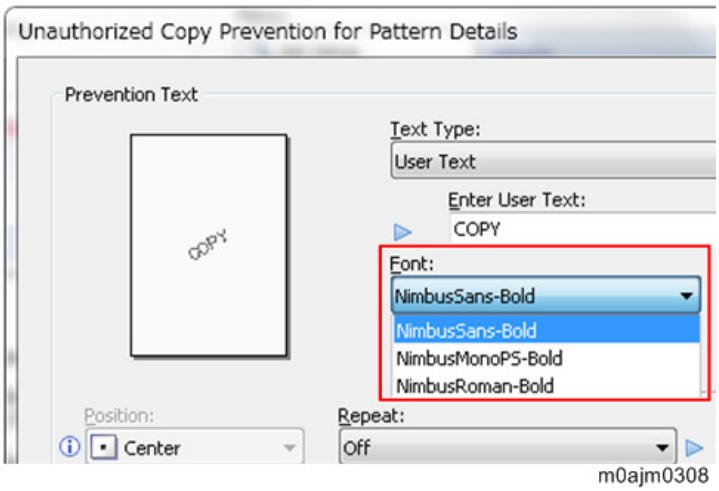
2. Fonts used for unauthorized copy prevention (Common to drivers for Windows OS and Mac OS X)

The watermark text used for unauthorized copy prevention consists of a device font. The range of available fonts varies between Adobe PS and Clone PS because of the difference in available device fonts.

Adobe PS provides a choice from 136 fonts while 3 fonts are selectable for Clone PS.



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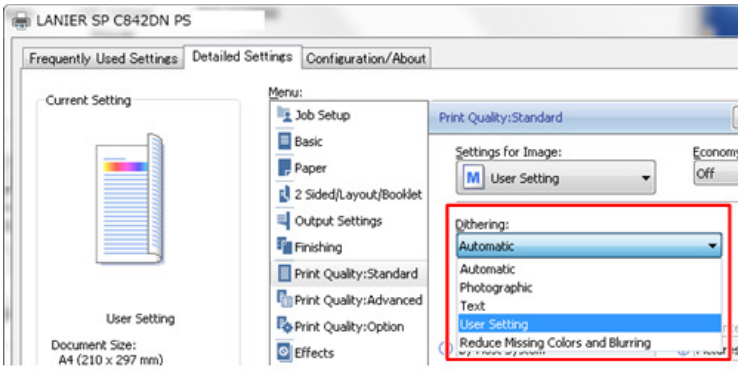
3. "User Setting" for dithering (Common to drivers for Windows OS and Mac OS X)

Clone PS ignores the "User Setting" option for dithering and performs dithering in the same manner as when the "Automatic" setting (*) is selected.



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* "Text Priority" is selected for text, and "Photo" for graphic objects and image objects.

In the driver menu for Mac OS X, the "User Setting" option is shown at half brightness and cannot be selected.

SP C840DN/SP C842DN
Machine Code: M0AJ/M0AL
Appendices
Ver 1.0

Latest Release: Sep, 2016
Initial Release: Sep, 2016
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1. Specifications

Machine Specifications

General Specifications

Item	Specification
Configuration:	Tabletop
CPU:	Intel Atom Processor Bay Trail 1.75GHz
RAM:	2GB
Color Support:	Full color
Photoconductor Type:	OPC Drum
Print System:	Laser beam scanning and electro-photographic printing
Develop System:	Dry two-component magnetic brush development system
Fusing System:	New QSU-Direct Heating (DH) fusing + movable douser
Printing Speed (A4/LT: LEF):	SP C840DN: Color 45 ppm / Black & White 45 ppm SP C842DN: Color 60 ppm / Black & White 60 ppm Except when feeding from the bypass tray
Warm-Up-Time: (Normal Temperature 20C/68F, NRP)	SP C840DN: 22 Sec. or less SP C842DN: 20 Sec. or less
Paper Size:	Refer to REF _Ref9219770 \h * MERGEFORMAT Paper Feeding Specifications_OK
Paper Thickness:	• Tray 1: 60 to 300 g/m^2 • Tray 2: 60 to 300 g/m^2 • Bypass tray: 60 to 300 g/m^2 • Duplex: 60 to 256 g/m^2
Printable Area:	Main scan: Max. 305mm (316mm with Imageable Area Extension Unit Type P11) Sub scan: Max. 1260mm
Resolution (Writing):	1200dpi x 1200dpi
Feeding System / Paper Capacity (Plain Paper 1–Thick Paper 4):	• Tray 1: 550 Sheets • Tray 2: 550 Sheets • 1-tray PFU: 550 Sheets • 2-tray PFU: 550x2 Sheets • Tandem LCIT: 1000 x2 Sheets • Side LCIT: 1500 Sheets • Bypass tray: 100 Sheets
Paper Exit / Paper Capacity (Plain Paper 1–	• Main unit

Item	Specification
Thick Paper 4):	A4/LT or smaller: 500 sheets B4/LG or larger: 250 Sheets • With Bridge Unit A4/LT or smaller: 250 sheets (80 g/m^2) B4/LG or larger: 125 sheets (80 g/m^2) • Internal Multi-Fold Unit 100 Sheets (80 g/m^2) Note: This is the number of sheets delivered to the folding tray for no finisher • Finisher SR3230: A4/LT or smaller: 3000 Sheets (80g/m^2) B4/LG or larger: 1500 Sheets (80g/m^2) • Booklet Finisher SR3220, Finisher SR3210: A4/LT or smaller: 1000 Sheets (80g/m^2) B4/LG or larger: 500 Sheets (80g/m^2) • Mail Box: 125 Sheets × 4 trays (80g/m^2)
Power Source:	NA: 120-127V, 60Hz EU, AA, CHN, KOR: 220-240V, 50/60Hz
Max. Watts:	NA: 1.854kW or less EU, AA, CHN, KOR: 1.85kW or less
HDD	Capacity: 320GB (SP C840DN: optional, SP842DN: standard)
Dimensions (W x D x H):	• 587 x 685 x 725mm (Main Unit) • 587 x 685 x 967mm (with the Paper Feed Unit PB3240)
Unit Occupation Dimensions (W x D):	Main Unit: 1074 x 745mm
Weight:	• 85.0kg or less (Toners are not included.)
Anti-condensation Function for PCDU	Installation service (optional)
Anti-condensation Function for Paper Trays	• For Tray 1/2: Installation service (optional) • For the optional PFU: Installation service (optional)

Printer Specifications

Item	Specification
Print Size:	Fixed size: Max. A3 SEF (297 x 420mm), 12 x 18 SEF (304.8 x 457.2mm) Custom: Max. 320 x 1260mm (bypass tray)

Item	Specification
Resolution:	1200 x 1200dpi, 600 x 600dpi, 400 x 400dpi, 300 x 300dpi, 200 x 200dpi
PDL:	• Standard: PDF Direct, MediaPrint: JPEG, MediaPrint: TIFF • Optional: PS3, IPDS, PictBridge, XPS
Interface:	• Standard: USB2.0 Type A SD Slot Ethernet (1000BASE-T/100BASE-TX/10BASE-T) • Optional: USB Device Server Extended USB Board Wireless LAN (IEEE802.11a/b/g/n) IEEE1284
Protocol:	• Standard: TCP/IP (IPv4/IPv6), SMB, IPP, FTP, Bonjour, RSH, LPD, DIPRINT, NetBIOS, WSD (Device/Printer/Scanner), UDP, ICMP, SSL, TSL, IPsec, HTTP, SMTP, POP3, IMAP4, SNMP v1/v2/v3, DNS, Dynamic DNS, LDAP, DHCP, RCP, SNTP, IEEE802.1X, HTTPS, RHPP, NTLM, Kerberos, LLTD, TELNET, WINS, SFTP, SSH, SSDP (UpnP)
USB Interface (Standard):	• Available Operating Systems: Windows Vista/7/8/8.1/10, Windows Server 2003/2003 R2/2008/2008 R2/2012/2012 R2, Mac OS 10.7 or later. • Communication mode: Corresponding to USB2.0 Standard • Connecting mode: Devices corresponding to USB2.0 Standard
Built-in Fonts:	• IRIPS: 93 fonts • PS 3: 136 fonts (Option) • IPDS: 108 fonts (Option)
Scale:	25% to 400%

Paper Feeding Specifications

Tray 1

Paper type and weight	Paper size	Paper capacity
60–300 g/m^2 (16 lb. Bond–110 lb. Cover)	**EU/AA** A4 LEF	550 sheets

Paper type and weight	Paper size	Paper capacity
Plain Paper 1–Thick Paper 4	**NA** 8 1/2 x 11 LEF	
	• Paper sizes that can be set by the service engineer: **EU/AA** A5 LEF, B5 JIS LEF, 81/2 × 11 LEF **EU** A4 LEF, A5 LEF, B5 JIS LEF	

Tray 2

Paper type and weight	Paper size	Paper capacity
60–300 g/m^2 (16 lb. Bond–110 lb. Cover) Plain Paper 1–Thick Paper 4	• Paper sizes that can be detected automatically **EU/AA** A3 SEF, A4 SEF/LEF, A5 LEF, B4 JIS SEF, B5 JIS SEF/LEF, 81/2 × 11 SEF, SRA3 SEF **NA** A4 SEF, A5 LEF, B5 JIS SEF, 11 × 17 SEF, 81/2 × 14 SEF, 81/2 × 11 LEF/SEF, 7 1/4 × 10 1/2 LEF, 12 × 18 SEF, 8 1/2 × 13 2/5 SEF	550 sheets
	• Select the paper size using the Tray Paper Settings menu **EU/AA** A5 SEF, A6 SEF, B6 JIS SEF, 11 × 17 SEF, 81/2 × 14 SEF, 81/2 × 13 SEF, 8 1/2 × 11 LEF, 81/4 ×14 SEF, 81/4 × 13 SEF, 8 × 13 SEF, 8 × 10 SEF, 71/4 × 101/2 SEF/LEF, 51/2 × 81/2 SEF, 8K SEF, 16K SEF/LEF, 12 × 18 SEF, 11 × 15 SEF, 10 × 14 SEF, 81/2 × 13 2/5 SEF **NA** A3 SEF, A4 LEF, A5 SEF, A6 SEF, B4 JIS SEF, B5 JIS LEF, B6 JIS SEF, 81/2 × 13 SEF, 8 1/4 × 14 SEF, 81/4 × 13 SEF, 8 × 13 SEF, 8 ×10 SEF, 71/4 × 10 1/2 SEF, 51/2 × 81/2 SEF, 8K SEF, 16K LEF/SEF, 11×15 SEF , 10 × 14 SEF, SRA3 SEF	
	• Custom size **EU/AA** Vertical: 90.0–320.0 mm Horizontal: 148.0–457.2 mm **NA** Vertical: 3.55–12.59 inches Horizontal: 5.83–18.00 inches	
Envelopes	41/8 × 91/2 LEF/SEF, 37/8 × 71/2 SEF, C5 Env SEF/LEF, C6 Env SEF/LEF,	LEF:50

Paper type and weight	Paper size	Paper capacity
	DL Env SEF/LEF	sheets SEF: Double flap: 15 sheets Single flap: 25 sheets

Bypass tray

Paper type and weight	Paper size	Paper capacity
52–300 g/m^2 (14 lb. Bond–110 lb. Cover) Thin Paper–Thick Paper 4	• Paper sizes that can be detected automatically: **EU/AA** A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, SRA3 SEF **NA** A5 LEF, B5 JIS SEF, 11 × 17 SEF, 81/2 × 11 SEF/LEF , 51/2 × 81/2 SEF, 12 × 18 SEF, SRA3 SEF	• 100 sheets (up to 10 mm stack thickness) • Thick Paper 1: 40 sheets • Thick Paper 2–Thick • Paper 3: 20 sheets • Thick Paper 4: 16 sheets
	• Select the paper size using the Tray Paper Settings menu **EU/AA** 11 × 17 SEF , 81/2 × 14 SEF, 81/2 × 13 SEF, 81/2 × 11 SEF/LEF, 81/4 × 14 SEF , 81/4 × 13 SEF, 8 × 13 SEF, 8 × 10 SEF, 7 1/4 × 101/2 SEF/LEF , 51/2 ×8 1/2 SEF, 8K SEF, 16K SEF, 12 × 18 SEF, 11 × 15 SEF, 10 × 14 SEF, SRA4 LEF/SEF, 8 1/2 × 13 2/5 SEF **NA** A3 SEF, A4 SEF/LEF, A5 SEF, A6 SEF, B4 JIS SEF, B5 JIS SEF, B6 JIS SEF, 81/2 × 14 SEF, 8 1/2 × 13 SEF, 8 1/4 × 14 SEF, 8 1/4 × 13 SEF, 8 × 13 SEF , 8 × 10 SEF, 71/4 × 101/2 SEF/LEF, 8K SEF, 16K SEF, 11 × 15 SEF, 10 × 14 SEF/LEF, SRA4 LEF/SEF, 81/2 × 132/5 SEF	
	• Custom size **EU/AA** Vertical: 90.0–320.0 mm Horizontal: 148.0–1,260 mm	

Paper type and weight	Paper size	Paper capacity
	NA Vertical: 3.55–12.59 inches Horizontal: 5.83–49.60 inches	
OHP transparencies	• A4 SEF/LEF, 81/2×11 SEF/LEF	50 sheets
Translucent paper	• A3 SEF, A4 LEF/SEF, B4 JIS SEF, B5 JIS SEF/LEF	1 sheet
Label paper (adhesive labels)	• B4 JIS SEF, A4 LEF/SEF	30 sheets
Envelopes	• 4 1/8 × 91/2 LEF/SEF, 3 7/8 × 71/2 LEF/SEF, C5 Env LEF/SEF, C6 Env LEF/SEF, DL Env LEF/SEF	10 sheets

Paper Thickness

Paper Thickness	Paper weight
Thin Paper	52–59 g/m2 (14–15 lb. Bond)
Plain Paper 1	60–74 g/m2 (16–20 lb. Bond)
Plain Paper 2	75–81 g/m2 (20 lb. Bond)
Middle Thick	82–105 g/m2 (20–28 lb. Bond)
Thick Paper 1	106–169 g/m2 (28 lb. Bond–90 lb. Index)
Thick Paper 2	170–220 g/m2 (65–80 lb. Cover)
Thick Paper 3	221–256 g/m2 (80 lb. Cover–140 lb. Index)
Thick Paper 4	257–300 g/m2 (140 lb. Index–110 lb. Cover)

Other Specifications

Sleep Mode Shift Time

Item	Spec.
Sleep Mode Shift Time:	• Standard: 1 Min • With initial setting (1 Min. Per Step): 1 to 240 Min. (for EU, CN) 1 to 60 Min. (for NA)
System All Reset Time:	Standard: 60 Sec., 10 to 999 Sec. (1 Sec. Per Step), or “Do not clear” can be selected.

Sleep mode power consumption, Recovering time

To reduce its power consumption, this machine has the following functions:

Sleep mode

- If this machine remains idle for a specified period or when [Energy Saver] is pressed, it enters Sleep mode to further reduce its electrical consumption.
- The default delay time the machine waits before entering Sleep mode is 1 minute. This default time can be changed.
- The machine can print jobs from computers while in Sleep mode.

Reduced electrical consumption in Sleep mode	Recovering time
SP C840DN: 0.81 W (EU/AA) SP C840DN: 0.70 W (NA) SP C842DN: 0.81 W (EU/AA) SP C842DN: 0.70 W (NA)	7.3 seconds

Note

- Depending on operating environment and usage status, power consumption in Sleep mode might change.
  (Such cases as power change for fusing unit temperature control when in a low temperature environment, or network environment obstructs switching to STR mode.)
- Recovering time might vary depending on the function to be used or installed options.

Noise (Sound Power Level)

Running:

Models	SP C840DN	SP C842DN
Mainframe only	FC: 62.3 dB (A) BK: 61.2 dB (A)	FC: 65.1 dB (A) BK: 63.9 dB (A)
Full system	69.3 dB (A)	70.5 dB (A)

Standby:

Models	SP C840DN	SP C842DN
Mainframe	30.4 dB (A)	30.4 dB (A)
Full system	33.4 dB (A)	33.4 dB (A)

- Sound power level and sound pressure level are actual values measured in accordance with ISO 7779.
- Sound pressure level is measured from the position of the bystander.
- The complete system consists of the main unit, lower paper trays, large capacity tray (LCT), Mailbox, bridge unit, Finisher SR3230.

Software Accessories

The printer drivers and utility software are provided on one CD-ROM. An auto-run installer allows you to select which components to install.

Printer Drivers

Operating System*1	Printer Language		
	PCL 5c	PCL 6	PostScript 3
Windows Vista *2	Supported	Supported	Supported
Windows 7 *3	Supported	Supported	Supported
Windows 8 *4	Supported	Supported	Supported
Windows 8.1 *5	Supported	Supported	Supported
Windows 10*6	Supported	Supported	Supported
Windows Server 2003 *7	Supported	Supported	Supported
Windows Server 2008 *8	Supported	Supported	Supported
Windows Server 2012 *9	Supported	Supported	Supported
OS X *10	**Not available**	**Not available**	Supported

*1 Windows operating system supports both versions (32/64 bit).

*2 Microsoft Windows Vista Ultimate/Microsoft Windows Vista Enterprise/Microsoft Windows Vista Business/Microsoft Windows Vista Home Premium/Microsoft Windows Vista Home Basic

*3 Microsoft Windows 7 Home Premium/Microsoft Windows 7 Professional/Microsoft Windows 7 Ultimate/Microsoft Windows 7 Enterprise

*4 Microsoft Windows 8/Microsoft Windows 8 Pro/Microsoft Windows 8 Enterprise

*5 Microsoft Windows 8.1/Microsoft Windows 8.1 Pro/Microsoft Windows 8.1 Enterprise

*6 Microsoft Windows 10 Home/Microsoft Windows 10 Pro/Microsoft Windows 10 Enterprise/Microsoft Windows 10 Education

*7 Microsoft Windows Server 2003 Standard Edition/Microsoft Windows Server 2003 Enterprise Edition/Microsoft Windows Server 2003 R2 Standard Edition/Microsoft Windows Server 2003 R2 Enterprise Edition

*8 Microsoft Windows Server 2008 Standard/Microsoft Windows Server 2008 Enterprise/Microsoft Windows Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise

*9 Microsoft Windows Server 2012 Foundation/Microsoft Windows Server 2012 Essentials/Microsoft Windows Server 2012 Standard/Microsoft Windows Server 2012 R2 Foundation/Microsoft Windows Server 2012 R2 Essentials/Microsoft Windows Server 2012 R2 Standard

*10 OS X 10.7 or later

Note

- Some applications may require installation of the PCL 5c printer driver. In this case, you can install PCL 5c without having to install PCL 6.
- Adobe PostScript printer driver allows the computer to communicate with the printer using a printer

language. PPD files allow the printer driver to enable specific printer functions.

Supported Paper Sizes

Paper Feed

Tray 1 to 5

Size (W x L) [mm]	Tray 1		Tray 2		Tray 3/4/5 1 drawer /2 drawers bank		Tray 3 Tandem LCT	
Region (EU/AA)	NA	EU/AA	NA	EU/AA	NA	EU/AA	NA	EU/AA
A3 SEF (297 x 420)	-	-	G2	A2	G2	A2	-	-
A4 SEF (210 x 297)	-	-	A	A	A	A	-	-
A4 LEF (297 x 210)	K	H	G1	A1	G1	A1	K	H
A5 SEF (148 x 210)	-	-	B	B	B	B	-	-
A5 LEF (210 x 148)	K	K	A	A	A	A	-	-
A6 SEF (105 x 148)	-	-	B	B	B	B	-	-
B4 SEF (257 x 364)	-	-	G3	A3	G3	A3	-	-
B5 SEF (182 x 257)	-	-	A	A	A	A	-	-
B5 LEF (257 x 182)	K	K	G4	A4	G4	A4	-	-
B6 SEF (128 x 182)	-	-	B	B	B	B	-	-
DLT SEF (11" x 17")	-	-	A2	G2	A2	G2	-	-
Legal SEF ($8^1/_2$" x 14")	-	-	A3	G3	A3	G3	-	-
Foolscap SEF ($8^1/_2$" x 13")	-	-	B	B	B	B	-	-
LT SEF ($8^1/_2$" x 11")	-	-	A	A	A	A	-	-
LT LEF (11" x $8^1/_2$")	H	K	A1	G1	A1	G1	H	K
Gov. LG SEF ($8^1/_4$" x 14")	-	-	B	B	B	B	-	-
Folio SEF ($8^1/_4$" x 13")	-	-	B	B	B	B	-	-
F/GL SEF (8" x 13")	-	-	B	B	B	B	-	-
Eng Quatro SEF (8" x 10")	-	-	B	B	B	B	-	-
Executive SEF ($7^1/_4$" x $10^1/_2$")	-	-	B	B	B	B	-	-
Executive LEF ($10^1/_2$" x $7^1/_4$")	-	-	A4	G4	A4	G4	-	-
HLT SEF ($5^1/_2$" x $8^1/_2$")	-	-	B	B	B	B-	-	-
SRA3 SEF (320 x 450)	-	-	G5	A5	G5	A5	-	-
SRA4 SEF	-	-	-	-	-	-	-	-
SRA4 LEF	-	-	-	-	-	-	-	-
Com10 SEF (104.8 x 241.3)	-	-	B	B	B	B-	-	-
Com10 LEF (241.3 x 104.8)	-	-	B	B	B	B	-	-
Monarch SEF (98.4 x 190.5)	-	-	B	B	B	B-	-	-
Monarch LEF (190.5 x 98.4)	-	-	-	-	-	-	-	-

Size (W x L) [mm]	Tray 1		Tray 2		Tray 3/4/5 1 drawer /2 drawers bank		Tray 3 Tandem LCT	
Region (EU/AA)	NA	EU/AA	NA	EU/AA	NA	EU/AA	NA	EU/AA
C5 SEF (162 x 229)	-	-	B	B	B	B	-	-
C5 LEF (229 x 162)	-	-	B	B	B	B	-	-
C6 SEF (114 x 162)	-	-	B	B	B	B	-	-
C6LEF (162 x 114)		-	B	B	B	B	-	-
DL Env SEF (110 x 220)	-	-	B	B	B	B	-	-
DL Env LEF (220 x 110)	-	-	B	B	B	B	-	-
8K SEF (267 x 390)	-	-	B	B	B	B	-	-
16K SEF (195 x 267)	-	-	B	B	B	B	-	-
16K LEF (267 x 195)	-	-	B	B	B	B	-	-
12" x 18" SEF	-	-	A5	G5	A5	G5	-	-
12" x 18" LEF	-	-	-	-	-	-	-	-
11" x 15" SEF	-	-	B	B	B	B	-	-
10" x 14" SEF	-	-	B	B	B	B	-	-
8.5” x 13.4” SEF	-	-	A3	B	A3	B or G3	-	-

Remarks:

A	Auto detectable. Also can be selected with size button of initial setting.
B	Can be selected with size button from initial setting.
C	Select this size by setting the dial.
D	Set dial to “*”, then select with size button from initial setting.
E	<Bypass setting> Copy window/Bypass/Standard size/Size select or select with the print bypass paper size/size button from initial setting.
F	Select with SP from preset paper sizes. Cannot be selected from printer driver.
G	Switches which size to set as auto detect with SP. *Example: The combination of A1-G1. G (When not auto detectable) will be as same as B. Combinations are only made from same region same tray. *Example: The combination of G1 and J1. G (When not auto detectable) will be as same as E. Combinations are only made from same region same tray.
H	Size fixed when shipping.
I	<Bypass setting> With bypass tray, after 1st sheet trailing edge goes through, auto detects size, then fixed to size detected

	from the 2nd sheet.
J	<Bypass setting> Auto detect of Copy window/Bypass/Standard size/Select with size button.
K	Select with SP from preset paper sizes. Can be selected from printer driver.
-	Not available

Side LCT and Bypass Tray

Size (W x L) [mm]	Side LCT		Bypass	
Region (EU/AA)	NA	EU/AA	NA	EU/AA
A3 SEF (297 x 420)	-	-	E	J
A4 SEF (210 x 297)	-	-	E	J
A4 LEF (297 x 210)	K	H	E	J
A5 SEF (148 x 210)	-	-	E	J
A5 LEF (210 x 148)	-	-	J	J
A6 SEF (105 x 148)	-	-	E	J
B4 SEF (257 x 364)	-	-	E	J
B5 SEF (182 x 257)	-	-	J	J
B5 LEF (257 x 182)	K	K	E	J
B6 SEF (128 x 182)	-	-	E	J
DLT SEF (11" x 17")	-	-	J	E
Legal SEF (8 1/2" x 14")	-	-	G1	E
Foolscap SEF (8 1/2" x 13")	-	-	E	E
LT SEF (8 1/2" x 11")	-	-	J1	E
LT LEF (11" x 8 1/2")	H	K	J	E
Gov. LG SEF (8 1/4" x 14")	-	-	E	E
Folio SEF (8 1/4" x 13")	-	-	E	E
F/GL SEF (8" x 13")	-	-	E	E
Eng Quatro SEF (8" x 10")	-	-	E	E
Executive SEF (7 1/4" x 10 1/2")	-	-	E	E
Executive LEF (10 1/2" x 7 1/4")	-	-	E	E
HLT SEF (5 1/2" x 8 1/2")	-	-	J	E
SRA3 SEF (320 x 420)	-	-	J	J
SRA4 SEF	-	-	E	E
SRA4 LEF	-	-	E	E
Com10 SEF (104.8 x 241.3)	-	-	E*1	E*1
Com10 LEF (241.3 x 104.8)	-	-	E*1	E*1
Monarch SEF (98.4 x 190.5)	-	-	E*1	E*1

Size (W x L) [mm]	Side LCT		Bypass	
Region (EU/AA)	NA	EU/AA	NA	EU/AA
Monarch LEF (190.5 x 98.4)	-	-	E*1	E*1
C5 SEF (162 x 229)	-	-	E*1	E*1
C5 LEF (229 x 162)	-	-	E*1	E*1
C6 SEF (114 x 162)	-	-	E*1	E*1
C6LEF (162 x 114)	-	-	E*1	E*1
DL Env SEF (110 x 220)	-	-	E*1	E*1
DL Env LEF (220 x 110)	-	-	E*1	E*1
8K SEF (267 x 390)	-	-	E	E
16K SEF (195 x 267)	-	-	E	E
16K LEF (267 x 195)	-	-	E	E
12" x 18" SEF	-	-	J	E
11" x 15" SEF	-	-	E	E
10" x 14" SEF	-	-	E	E
8.5” x 13.4” SEF	-	-	E	E

Remarks:

A	Auto detectable. Also can be selected with size button of initial setting.
B	Can be selected with size button from initial setting.
C	Select this size by setting the dial.
D	Set dial to “*”, then select with size button from initial setting.
E	<Bypass setting> Copy window/Bypass/Standard size/Size select or select with the print bypass paper size/size button from initial setting.
F	Select with SP from preset paper sizes. Cannot be selected from printer driver.
G	Switches which size to set as auto detect with SP. *Example: The combination of A1-G1. G (When not auto detectable) will be as same as B. Combinations are only made from same region same tray. *Example: The combination of G1 and J1. G (When not auto detectable) will be as same as E. Combinations are only made from same region same tray.
H	Size fixed when shipping.
I	<Bypass setting> With bypass tray, after 1st sheet trailing edge goes through, auto detects size, then fixed to size detected from the 2nd sheet.
J	<Bypass setting>

	Auto detect of Copy window/Bypass/Standard size/Select with size button.
K	Select with SP from preset paper sizes. Can be selected from printer driver.
-	Not available

*1	Even the paper size is in the range or available sizes for duplex, envelopes can not be done so.

Paper Exit

Main unit tray and 4-bin tray (mail box)

Size (W x L) [mm]	Main unit tray	4-bin tray
A3 SEF (297 x 420)	A	A
A4 SEF (210 x 297)	A	A
A4 LEF (297 x 210)	A	A
A5 SEF (148 x 210)	A	A
A5 LEF (210 x 148)	A	A
A6 SEF (105 x 148)	A	A*1
B4 SEF (257 x 364)	A	A
B5 SEF (182 x 257)	A	A
B5 LEF (257 x 182)	A	A
B6 SEF (128 x 182)	A	A*1
DLT SEF (11" x 17")	A	A
Legal SEF (8 1/2" x 14")	A	A
Foolscap SEF (8 1/2" x 13")	A	A
LT SEF (8 1/2" x 11")	A	A
LT LEF (11" x 8 1/2")	A	A
Gov. LG SEF (8 1/4" x 14")	A	A
Folio SEF (8 1/4" x 13")	A	A
F/GL SEF (8" x 13")	A	A
Eng Quatro SEF (8" x 10")	A	A
Eng Quatro LEF (10" x 8")	-	-
Executive SEF (7 1/4" x 10 1/2")	A	A
Executive LEF (10 1/2" x 7 1/4")	A	A
HLT SEF (5 1/2" x 8 1/2")	A	A
SRA3 SEF (320 x 450)	A	-
SRA4 SEF	A	A
SRA4 LEF	A	-
Com10 SEF (104.8 x 241.3)	A	A*1

Size (W x L) [mm]	Main unit tray	4-bin tray
Com10 LEF (241.3 x 104.8)	A	A*1
Monarch SEF (98.4 x 190.5)	A	A*1
Monarch LEF (190.5 x 98.4)	A	A*1
C5 SEF (162 x 229)	A	A*1
C5 LEF (229 x 162)	A	A*1
C6 SEF (114 x 162)	A	A*1
C6LEF (162 x 114)	A	A*1
DL Env SEF (110 x 220)	A	A*1
DL Env LEF (220 x 110)	A	A*1
8K SEF (267 x 390)	A	A
16K SEF (195 x 267)	A	A
16K LEF (267 x 195)	A	A
12" x 18" SEF	-	-
11" x 15" SEF	A	A
10" x 14" SEF	A	A
8.5” x 13.4” SEF	A	A

Remarks:

A	Paper through, paper exit available.
B	Will not guarantee, but paper can go through or exit.
-	Not available.

*1	Out of the guaranteed range for true up precision.
*2	Multi folding can be done up to 5 sheets.
*3	Envelopes can only go through one at a time.
*4	Except for envelopes with a triangle flap.
*5	Only one sheet can be half folded with saddle stitch mode. Therefore, multi sheets/sets must be paginated and exit one at a time.
*6	Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job.

Internal multi-fold unit FD3000

For the unit without a finisher

RTB 33
Data added

Size (W x L) [mm]	Paper exit	Fold-supporting paper size (for folding one sheet)		
		Z-fold	Half fold	Letter fold in/Letter fold out
A3 SEF (297 x 420)	A	A	A	A
A4 SEF (210 x 297)	A	A	A	A

Size (W x L) [mm]	Paper exit	Fold-supporting paper size (for folding one sheet)		
		Z-fold	Half fold	Letter fold in/Letter fold out
A4 LEF (297 x 210)	A	-	-	-
A5 SEF (148 x 210)	A	-	-	-
A5 LEF (210 x 148)	A	-	-	-
A6 SEF (105 x 148)	A	-	-	-
B4 SEF (257 x 364)	A	A	A	-
B5 SEF (182 x 257)	A	-	-	-
B5 LEF (257 x 182)	A	-	-	-
B6 SEF (128 x 182)	A	-	-	-
DLT SEF (11" x 17")	A	A	A	A
Legal SEF ($8^1/_2$" x 14")	A	A	A	A
Foolscap SEF ($8^1/_2$" x 13")	A	-	-	-
LT SEF ($8^1/_2$" x 11")	A	A	A	A
LT LEF (11" x $8^1/_2$")	A	-	-	-
Gov. LG SEF ($8^1/_4$" x 14")	A	-	-	-
Folio SEF ($8^1/_4$" x 13")	A	-	-	-
F/GL SEF (8" x 13")	A	-	-	-
Eng Quatro SEF (8" x 10")	A	-	-	-
Executive SEF ($7^1/_4$" x $10^1/_2$")	A	-	-	-
Executive LEF ($10^1/_2$" x $7^1/_4$")	A	-	-	-
HLT SEF ($5^1/_2$" x $8^1/_2$")	A	-	-	-
SRA3 SEF (320 x 450)	A	-	-	-
SRA4 SEF	A	-	-	-
SRA4 LEF	A	-	-	-
Com10 SEF (104.8 x 241.3)	-	-	-	-
Com10 LEF (241.3 x 104.8)	-	-	-	-
Monarch SEF (98.4 x 190.5)	-	-	-	-
Monarch LEF (190.5 x 98.4)	-	-	-	-
C5 SEF (162 x 229)	-	-	-	-
C5 LEF (229 x 162)	-	-	-	-
C6 SEF (114 x 162)	-	-	-	-
C6LEF (162 x 114)	-	-	-	-
DL Env SEF (110 x 220)	-	-	-	-
DL Env LEF (220 x 110)	-	-	-	-
8K SEF (267 x 390)	A	A	A	-
16K SEF (195 x 267)	A	-	-	-
16K LEF (267 x 195)	A	-	-	-

Size (W x L) [mm]	Paper exit	Fold-supporting paper size (for folding one sheet)		
		Z-fold	Half fold	Letter fold in/Letter fold out
12" x 18" SEF	A	-	-	-
11" x 15" SEF	A	-	-	-
10" x 14" SEF	A	-	-	-
8.5” x 13.4” SEF	A	A	A	A

For the unit with a finisher

Size (W x L) [mm]	Paper exit		Fold-supporting paper size (for folding one sheet)		
	Fold tray	Finisher	Z-fold	Half fold	Letter fold in/Letter fold out
A3 SEF (297 x 420)	-	A	A	A	A
A4 SEF (210 x 297)	-	A	A	A	A
A4 LEF (297 x 210)	A*6	A	-	-	-
A5 SEF (148 x 210)	-	A	-	-	-
A5 LEF (210 x 148)	A*6	A	-	-	-
A6 SEF (105 x 148)	-	A	-	-	-
B4 SEF (257 x 364)	-	A	A	A	-
B5 SEF (182 x 257)	-	A	-	-	-
B5 LEF (257 x 182)	A*6	A	-	-	-
B6 SEF (128 x 182)	-	A	-	-	-
DLT SEF (11" x 17")	-	A	A	A	A
Legal SEF ($8^1/_2$" x 14")	-	A	A	A	A
Foolscap SEF ($8^1/_2$" x 13")	-	A	-	-	-
LT SEF ($8^1/_2$" x 11")	-	A	A	A	A
LT LEF (11" x $8^1/_2$")	A*6	A	-	-	-
Gov. LG SEF ($8^1/_4$" x 14")	-	A	-	-	-
Folio SEF ($8^1/_4$" x 13")	-	A	-	-	-
F/GL SEF (8" x 13")	-	A	-	-	-
Eng Quatro SEF (8" x 10")	-	A	-	-	-
Executive SEF ($7^1/_4$" x $10^1/_2$")	-	A	-	-	-
Executive LEF ($10^1/_2$" x $7^1/_4$")	-	A	-	-	-
HLT SEF ($5^1/_2$" x $8^1/_2$")	-	A	-	-	-
SRA3 SEF (320 x 450)	-	A	-	A	-
SRA4 SEF	-	A	-	-	-
SRA4 LEF	-	-	-	-	-
Com10 SEF (104.8 x 241.3)	B*1, *3, *4	B*1, *3, *4	-	-	-
Com10 LEF (241.3 x 104.8)	B*1, *3, *4	B*1, *3, *4	-	-	-
Monarch SEF (98.4 x 190.5)	B*1, *3, *4	B*1, *3, *4	-	-	-

1.Specifications

Size (W x L) [mm]	Paper exit		Fold-supporting paper size (for folding one sheet)		
	Fold tray	Finisher	Z-fold	Half fold	Letter fold in/Letter fold out
Monarch LEF (190.5 x 98.4)	B*1, *3, *4	B*1, *3, *4	-	-	-
C5 SEF (162 x 229)	B*1, *3, *4	B*1, *3, *4	-	-	-
C5 LEF (229 x 162)	B*1, *3, *4	B*1, *3, *4	-	-	-
C6 SEF (114 x 162)	B*1, *3, *4	B*1, *3, *4	-	-	-
C6LEF (162 x 114)	B*1, *3, *4	B*1, *3, *4	-	-	-
DL Env SEF (110 x 220)	B*1, *3, *4	B*1, *3, *4	-	-	-
DL Env LEF (220 x 110)	B*1, *3, *4	B*1, *3, *4	-	-	-
8K SEF (267 x 390)	-	A	A	A	-
16K SEF (195 x 267)	-	A	-	-	-
16K LEF (267 x 195)	A*6	A	-	-	-
12" x 18" SEF	-	A	-	A	-
11" x 15" SEF	-	A	-	-	-
10" x 14" SEF	-	A	-	-	-
8.5” x 13.4” SEF	-	A	A	A	A

Remarks:

A	Paper through, paper exit available.
B	Will not guarantee, but paper can go through or exit.
-	Not available.

*1	Out of the guaranteed range for true up precision.
*2	Multi folding can be done up to 5 sheets.
*3	Envelopes can only go through one at a time.
*4	Except for envelopes with a triangle flap.
*5	Only one sheet can be half folded with saddle stitch mode. Therefore, multi sheets/sets must be paginated and exit one at a time.
*6	Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job.

Finisher SR3230

Size (W x L) [mm]	Paper exit		Staple		Punch		
	Proof/shift	shifting	Single /Double stitch	Stapling amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
A3 SEF (297 x 420)	A	A	A	50	A	A	A
A4 SEF (210 x 297)	A	A	A	50	A	B	-

Size (W x L) [mm]	Paper exit		Staple		Punch		
	Proof/shift	shifting	Single /Double stitch	Stapling amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
A4 LEF (297 x 210)	A	A	A	50	A	A	A
A5 SEF (148 x 210)	A	A	-		A	A	-
A5 LEF (210 x 148)	A	A	-		A	B	-
A6 SEF (105 x 148)	A	-	-		-	-	-
B4 SEF (257 x 364)	A	A	A	50	A	A	A
B5 SEF (182 x 257)	A	A	A	50	A	A	-
B5 LEF (257 x 182)	A	A	A	50	A	A	A
B6 SEF (128 x 182)	A	A	-	-	-	-	-
DLT SEF (11" x 17")	A	A	A	50	A	A	A
Legal SEF ($8^1/_2$" x 14")	A	A	A	50	A	A	
Foolscap SEF ($8^1/_2$" x 13")	A	A	A	50	A	A	-
LT SEF ($8^1/_2$" x 11")	A	A	A	50	A	A	
LT LEF (11" x $8^1/_2$")	A	A	A	50	A	A	A
Gov. LG SEF ($8^1/_4$" x 14")	A	A	A	50	A	A	-
Folio SEF ($8^1/_4$" x 13")	A	A	A	50	A	A	-
F/GL SEF (8" x 13")	A	A	A	50	A	A	-
Eng Quatro SEF (8" x 10")	A	A	A	50	A	A	-
Executive SEF ($7^1/_4$" x $10^1/_2$")	A	A	A	50	A	A	-
Executive LEF ($10^1/_2$" x $7^1/_4$")	A	A	A	50	A	A	A
HLT SEF ($5^1/_2$" x $8^1/_2$")	A	A	-	-	A	A	-
SRA3 SEF (320 x 450)	A	-	-	-	-	-	-
SRA4 SEF	A	A	A	50	-	-	-
SRA4 LEF	A	A	-	-	-	-	-
Com10 SEF (104.8 x 241.3)	-	-	-	-	-	-	-
Com10 LEF (241.3 x 104.8)	-	-	-	-	-	-	-
Monarch SEF (98.4 x 190.5)	-	-	-	-	-	-	-
Monarch LEF (190.5 x 98.4)	-	-	-	-	-	-	-
C5 SEF (162 x 229)	-	-	-	-	-	-	-
C5 LEF (229 x 162)	-	-	-	-	-	-	-
C6 SEF (114 x 162)	-	-	-	-	-	-	-

1.Specifications

Size (W x L) [mm]	Paper exit		Staple		Punch		
	Proof/shift	shifting	Single /Double stitch	Stapling amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
C6LEF (162 x 114)	-	-	-	-	-	-	-
DL Env SEF (110 x 220)	-	-	-	-	-	-	-
DL Env LEF (220 x 110)	-	-	-	-	-	-	-
8K SEF (267 x 390)	A	A	A	50	A	A	A
16K SEF (195 x 267)	A	A	A	50	A	A	-
16K LEF (267 x 195)	A	A	A	50	A	A	A
12" x 18" SEF	A	A	-	-	-	-	-
11" x 15" SEF	A	A	A	50	A	A	A
10" x 14" SEF	A	A	A	50	A	A	A
8.5” x 13.4” SEF	A	A	A	50	A	A	-

Remarks:

A	Paper through, paper exit available.
B	Will not guarantee, but paper can go through or exit.
-	Not available.

*1	Out of the guaranteed range for true up precision.
*2	Multi folding can be done up to 5 sheets.
*3	Envelopes can only go through one at a time.
*4	Except for envelopes with a triangle flap.
*5	Only one sheet can be half folded with saddle stitch mode. Therefore, multi sheets/sets must be paginated and exit one at a time.
*6	Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job.

Booklet Finisher SR3220

Size (W x L) [mm]	Paper exit			Half fold	Staple				Punch		
	Proof/Shift	Shifting	Saddle stitch	Middle fold	Single/Double stitch	Staple amount	Saddle stitch	Saddle stitch amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
A3 SEF	A	A	A	A*5	A	30	A	15	A	A	A

Size (W x L) [mm]	Paper exit			Half fold	Staple				Punch		
	Proof/Shift	Shifting	Saddle stitch	Middle fold	Single/Double stitch	Staple amount	Saddle stitch	Saddle stitch amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
(297 x 420)											
A4 SEF (210 x 297)	A	A	A	A*5	A	50	A	15	A	B	-
A4 LEF (297 x 210)	A	A	-	-	A	50	-	-	A	A	A
A5 SEF (148 x 210)	A	A*1	-	-	-	-	-	-	A	A	-
A5 LEF (210 x 148)	A	A	-	-	-	-	-	-	A	B	-
A6 SEF (105 x 148)	A	-	-	-	-	-	-	-	-	-	-
B4 SEF (257 x 364)	A	A	A	A*5	A	30	A	15	A	A	A
B5 SEF (182 x 257)	A	A*1	A	A*5	A	50	A	15	A	A	-
B5 LEF (257 x 182)	A	A	-	-	A	50	-	-	A	A	A
B6 SEF (128 x 182)	A	A*1	-	-	-	-	-	-	-	-	-
DLT SEF (11" x	A	A	A	A*5	A	30	A	15	A	A	A

1.Specifications

Size (W x L) [mm]	Paper exit			Half fold	Staple				Punch		
	Proof/Shift	Shifting	Saddle stitch	Middle fold	Single/Double stitch	Staple amount	Saddle stitch	Saddle stitch amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
17")											
Legal SEF ($8^1/_2$" x 14")	A	A	A	A[*5]	A	30	A	15	A	A	-
Foolscap SEF ($8^1/_2$" x 13")	A	A	-	-	A	30	-	-	A	A	-
LT SEF ($8^1/_2$" x 11")	A	A	A	A[*5]	A	50	A	15	A	A	-
LT LEF (11" x $8^1/_2$")	A	A	-	-	A	50	-	-	A	A	A
Gov. LG SEF ($8^1/_4$" x 14")	A	A	-	-	A	30	-	-	A	A	-
Folio SEF ($8^1/_4$" x 13")	A	A	-	-	A	30	-	-	A	A	-
F/GL SEF (8" x 13")	A	A	-	-	A	30	-	-	A	A	-
Eng Quatro SEF (8" x 10")	A	A	-	-	A	50	-	-	A	A	-
Executive SEF	A	A	-	-	A	50	-	-	A	A	-

Size (W x L) [mm]	Paper exit			Half fold	Staple				Punch		
	Proof/Shift	Shifting	Saddle stitch	Middle fold	Single/Double stitch	Staple amount	Saddle stitch	Saddle stitch amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
(7 1/4" x 10 1/2")											
Executive LEF (10 1/2" x 7 1/4")	A	A	-	-	A	50	-	-	A	A	A
HLT SEF (5 1/2" x 8 1/2")	A	A*1	-	-	-	-	-	-	A	A	-
SRA3 SEF (320 x 450)	A	-	-	-	-	-	-	-	-	-	-
SRA4 SEF	A	A	-	-	A	30	-	-	-	-	-
SRA4 LEF	A	-	-	-	-	-	-	-	-	-	-
Com10 SEF (104.8 x 241.3)	-	-	-	-	-	-	-	-	-	-	-
Com10 LEF (241.3 x 104.8)	-	-	-	-	-	-	-	-	-	-	-
Monarch SEF (98.4 x 190.5)	-	-	-	-	-	-	-	-	-	-	-
Monarch LEF	-	-	-	-	-	-	-	-	-	-	-

1.Specifications

Size (W x L) [mm]	Paper exit			Half fold	Staple				Punch		
	Proof/Shift	Shifting	Saddle stitch	Middle fold	Single/Double stitch	Staple amount	Saddle stitch	Saddle stitch amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
(190.5 x 98.4)											
C5 SEF (162 x 229)	-	-	-	-	-	-	-	-	-	-	-
C5 LEF (229 x 162)	-	-	-	-	-	-	-	-	-	-	-
C6 SEF (114 x 162)	-	-	-	-	-	-	-	-	-	-	-
C6LEF (162 x 114)	-	-	-	-	-	-	-	-	-	-	-
DL Env SEF (110 x 220)	-	-	-	-	-	-	-	-	-	-	-
DL Env LEF (220 x 110)	-	-	-	-	-	-	-	-	-	-	-
8K SEF (267 x 390)	A	A	-	-	A	30	-	-	A	A	A
16K SEF (195 x 267)	A	A	-	-	A	50	-	-	A	A	-
16K LEF (267 x	A	A	-	-	A	50	-	-	A	A	A

Size (W x L) [mm]	Paper exit			Half fold	Staple				Punch		
	Proof/Shift	Shifting	Saddle stitch	Middle fold	Single/Double stitch	Staple amount	Saddle stitch	Saddle stitch amount	EU2 SC4 Holes	NA2 Holes	NA3 EU4 Holes
195)											
12" x 18" SEF	A	A	A	A*5	A	30	A	15	-	-	-
11" x 15" SEF	A	A	-	-	A	30	-	-	A	A	A
10" x 14" SEF	A	A	-	-	A	30	-	-	A	A	A/-
8.5” x 13.4” SEF	A	A	A	A*5	A	30	-	-	A	A	-

Remarks:

A	Paper through, paper exit available.
B	Will not guarantee, but paper can go through or exit.
-	Not available.

*1	Out of the guaranteed range for true up precision.
*2	Multi folding can be done up to 5 sheets.
*3	Envelopes can only go through one at a time.
*4	Except for envelopes with a triangle flap.
*5	Only one sheet can be half folded with saddle stitch mode. Therefore, multi sheets/sets must be paginated and exit one at a time.
*6	Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job.

Finisher SR3210

Size (W x L) [mm]	**Paper exit**		**Staple**				**Punch**		
			With staples		**Without staples**				
	Proof/Shift	**Shifting**	**Single/Double stitch**	**Staple amount**	**Single stitch**	**Staple amount**	**EU2 SC4 Holes**	**NA2 Holes**	**NA3 EU4 Holes**

A3 SEF (297 x 420)	A	A	A	30	A	5	A	A	A
A4 SEF (210 x 297)	A	A	A	50	A	5	A	B	-
A4 LEF (297 x 210)	A	A	A	50	A	5	A	A	A
A5 SEF (148 x 210)	A	A*1	-	-	-	-	A	A	-
A5 LEF (210 x 148)	A	A	-	-	-	-	A	B	-
A6 SEF (105 x 148)	A	-	-	-	-	-	-	-	-
B4 SEF (257 x 364)	A	A	A	30	A	5	A	A	A
B5 SEF (182 x 257)	A	A*1	A	50	A	5	A	A	-
B5 LEF (257 x 182)	A	A	A	50	A	5	A	A	A
B6 SEF (128 x 182)	A	A*1	-	-	-	-	-	-	-
DLT SEF (11" x 17")	A	A	A	30	A	5	A	A	A
Legal SEF ($8^1/_2$" x 14")	A	A	A	30	A	5	A	A	-
Foolscap SEF ($8^1/_2$" x 13")	A	A	A	30	A	5	A	A	-

LT SEF ($8^1/_2$" x 11")	A	A	A	50	A	5	A	A	-
LT LEF (11" x $8^1/_2$")	A	A	A	50	A	5	A	A	A
Gov. LG SEF ($8^1/_4$" x 14")	A	A	A	30	A	5	A	A	-
Folio SEF ($8^1/_4$" x 13")	A	A	A	30	A	5	A	A	-
F/GL SEF (8" x 13")	A	A	A	30	-	-	A	A	-
Eng Quatro SEF (8" x 10")	A	A	A	50	-	-	A	A	-
Executive SEF ($7^1/_4$" x $10^1/_2$")	A	A	A	50	A	5	A	A	-
Executive LEF ($10^1/_2$" x $7^1/_4$")	A	A	A	50	A	5	A	A	A
HLT SEF ($5^1/_2$" x $8^1/_2$")	A	A*1	-	-	-	-	A	A	-
SRA3 SEF (320 x 450)	A	-	-	-	-	-	-	-	-
SRA4 SEF	A	A	A	30	-	-	-	-	-
SRA4 LEF	A	-	-	-	-	-	-	-	-
Com10 SEF (104.8 x 241.3)	-	-	-	-	-	-	-	-	-
Com10	-	-	-	-	-	-	-	-	-

LEF (241.3 x 104.8)									
Monarch SEF (98.4 x 190.5)	-	-	-	-	-	-	-	-	-
Monarch LEF (190.5 x 98.4)	-	-	-	-	-	-	-	-	-
C5 SEF (162 x 229)	-	-	-	-	-	-	-	-	-
C5 LEF (229 x 162)	-	-	-	-	-	-	-	-	-
C6 SEF (114 x 162)	-	-	-	-	-	-	-	-	-
C6LEF (162 x 114)	-	-	-	-	-	-	-	-	-
DL Env SEF (110 x 220)	-	-	-	-	-	-	-	-	-
DL Env LEF (220 x 110)	-	-	-	-	-	-	-	-	-
8K SEF (267 x 390)	A	A	A	30	A	5	A	A	A
16K SEF (195 x 267)	A	A	A	50	A	5	A	A	-
16K LEF (267 x 195)	A	A	A	50	A	5	A	A	A
12" x 18" SEF	A	A	A	30	-	-	-	-	-

11" x 15" SEF	A	A	A	30	-	-	A	A	A
10" x 14" SEF	A	A	A	30	-	-	A	A	A/-
8.5” x 13.4” SEF	A	A	A	30	-	-	A	A	-

Remarks:

A	Paper through, paper exit available.
B	Will not guarantee, but paper can go through or exit.
-	Not available.

*1	Out of the guaranteed range for true up precision.
*2	Multi folding can be done up to 5 sheets.
*3	Envelopes can only go through one at a time.
*4	Except for envelopes with a triangle flap.
*5	Only one sheet can be half folded with saddle stitch mode. Therefore, multi sheets/sets must be paginated and exit one at a time.
*6	Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job.

Bridge Unit

Size (W x L) [mm]	Paper exit	Bridge
	Bridge upper paper exit	Finisher Bridge
A3 SEF (297 x 420)	A	A
A4 SEF (210 x 297)	A	A
A4 LEF (297 x 210)	A	A
A5 SEF (148 x 210)	A	A
A5 LEF (210 x 148)	A	A
A6 SEF (105 x 148)	A	A
B4 SEF (257 x 364)	A	A
B5 SEF (182 x 257)	A	A
B5 LEF (257 x 182)	A	A
B6 SEF (128 x 182)	A	A
DLT SEF (11" x 17")	A	A
Legal SEF ($8^1/_2$" x 14")	A	A
Foolscap SEF ($8^1/_2$" x 13")	A	A
LT SEF ($8^1/_2$" x 11")	A	A
LT LEF (11" x $8^1/_2$")	A	A
Gov. LG SEF ($8^1/_4$" x 14")	A	A

Size (W x L) [mm]	Paper exit	Bridge
	Bridge upper paper exit	Finisher Bridge
Folio SEF (8 1/4" x 13")	A	A
F/GL SEF (8" x 13")	A	A
Eng Quatro SEF (8" x 10")	A	A
Executive SEF (7 1/4" x 10 1/2")	A	A
Executive LEF (10 1/2" x 7 1/4")	A	A
HLT SEF (5 1/2" x 8 1/2")	A	A
SRA3 SEF (320 x 450)	A	A
SRA4 SEF	A	A
SRA4 LEF	A	A
Com10 SEF (104.8 x 241.3)	A*1	-
Com10 LEF (241.3 x 104.8)	A*1	-
Monarch SEF (98.4 x 190.5)	A*1	-
Monarch LEF (190.5 x 98.4)	A*1	-
C5 SEF (162 x 229)	A*1	-
C5 LEF (229 x 162)	A*1	-
C6 SEF (114 x 162)	A*1	-
C6 LEF (162 x 114)	A*1	-
DL Env SEF (110 x 220)	A*1	-
DL Env LEF (220 x 110)	A*1	-
8K SEF (267 x 390)	A	A
16K SEF (195 x 267)	A	A
16K LEF (267 x 195)	A	A
12" x 18" SEF	A	A
11" x 15" SEF	A	A
10" x 14" SEF	A	A
8.5” x 13.4” SEF	A	A

Remarks:

A	Paper through, paper exit available.
B	Will not guarantee, but paper can go through or exit.
-	Not available.

*1	Out of the true up precision guarantee.
*2	Multi folding can be done up to 5 sheets.
*3	Envelopes can only go through each at a time.
*4	Except envelopes with triangle flap.
*5	Only one sheet can be half folded with saddle stitch mode.

	Therefore, multi sheets/sets must be paginated and exit one at a time.
*6	Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job.

Option Specifications

Finisher SR3210 (D3B8)

Item	Specification
Paper size for the finisher upper tray:	A3 SEF B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 5 1/2 x 8 1/2 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight for the finisher upper tray:	52–169 g/m^2 (14 lb. Bond–90 lb. Index)
Stack capacity for the finisher upper tray (80 g/m^2, 20 lb. Bond):	250 sheets: A4, 81/2 x 11 or smaller 50 sheets: B4 JIS, 81/2 x 14 or larger
Paper size for the finisher shift tray:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF, /LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 5 1/2 x 8 1/2 SEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight for the finisher shift tray:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper sizes that can be shifted when delivered to the finisher shift tray:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SLF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 5 1/2 x 8 1/2 SEF, 8K SEF, 16K SEF/LEF, SRA4 LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight that can be shifted when delivered to the finisher shift tray:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Stack capacity for the finisher shift tray (80 g/m^2, 20 lb. Bond):	1,000 sheets: A4, 81/2 x 11 or smaller 500 sheets: B4 JIS, 81/2 x 14 or larger
Staple paper size:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF/LEF, 7 1/4 x 10 1/2 SEF/LEF, 8 x 13 SEF, 8 1/2 x 13 LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 10 SEF, 12 x 18 SEF, 8K SEF, 16K SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Staple paper weight:	• Stapling with staples: 52–105 g/m^2 (14–28 lb. Bond) • Staple-free stapling: 64–80 g/m^2 (17–20 lb. Bond)

Item	Specification
	You can use two sheets of paper weighing up to 216 g/m^2 (80 lb. Cover) per set as cover sheets.
Staple capacity (80 g/m^2, 20 lb. Bond):	• Without Mixed Size: **30 sheets:** A3 SEF, B4 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 x 13 SEF, 8 1/2 x 13 LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 11 x 15 SEF, 10 x 14 SEF, 8K SEF, 12 x 18 SEF, 8 1/2 x 13 2/5 LEF **50 sheets:** A4 SEF/LEF, B5 JIS SEF/LEF, 8 1/2 x 11 SEF/LEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 16K SEF/LEF • With Mixed Size: **22 sheets:** A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11SEF

Stack capacity after stapling (80 g/m^2, 20 lb. Bond):	• Stapling with staples:
	  • 2–9 sheets: 100 sets (A4 LEF, B5 JIS LEF, 8 1/2 x 11 LEF)
	  • 10–50 sheets: 100–20 sets (A4 LEF, B5 JIS LEF, 8 1/2 x 11LEF)
	  • 10–50 sheets: 50–10 sets (A4 SEF, B5 JIS SEF, 8 1/2 x 11SEF)
	  • 2–9 sheets: 50 sets (A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF)
	  • 10–30 sheets: 50–10 sets (A3 SEF, B4 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF)
	• Staple-free stapling:
	  • 2–5 sheets: 100 sets (A4 SEF, B5 JIS SEF, 8 1/2 x 11 SEF)
	  • 2–5 sheets: 50 sets (A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 LEF)

Staple position:	3 positions (Top, Bottom, 2 Staples)
Power consumption:	36 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	• Tray is folded: 575 x 620 x 960 mm (22.6 x 24.5 x 37.8 inches) • Tray is extended: 658 x 620 x 960 mm (25.9 x 24.5 x 37.8 inches)
Weight:	Approx. 34 kg (75.0 lb.)

Booklet Finisher SR3220 (D3B9)

Item	Specification
Paper size for the finisher upper tray	A3 SEF, B4 JIS SEF, A4 SEF/LEF B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x

Item	Specification
	13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 5 1/2 x 8 1/2 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight for the finisher upper tray:	52–169 g/m^2 (14 lb. Bond–90 lb. Index)
Stack capacity for the finisher upper tray (80 g/m^2, 20 lb. Bond):	250 sheets: A4, 81/2 x 11 or smaller 50 sheets: B4 JIS, 81/2 x 14 or larger
Paper size for the finisher shift tray:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 5 1/2 x 8 1/2 SEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight for the finisher shift tray:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper sizes that can be shifted when delivered to the finisher shift tray:	A3 SEF, A4 SEF/LEF, A5 SEF, B4 JIS SEF, B5 JIS SEF, B6 JIS SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 5 1/2 x 8 1/2 SEF, 8K SEF, 16K SEF/LEF SRA4 LEF, 8 1/2 x 13 2/5 LEF
Paper weight that can be shifted when delivered to the finisher shift tray:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Stack capacity for the finisher shift tray (80 g/m^2, 20 lb. Bond):	1,000 sheets: A4, 81/2 x 14 or smaller 500 sheets: B4 JIS, 81/2 x 14 or larger
Staple paper size:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF/LEF, 7 1/4 x 10 1/2 SEF/LEF, 8 x 13 SEF, 8B 1/2 x 13 LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 10 SEF, 12 x 18 SEF, 8K SEF, 16K SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Staple paper weight:	52–105 g/m^2 (14-28 lb. Bond) You can use two sheets of paper weighing up to 216 g/m^2 (80 lb. Cover) per set as cover sheets.
Staple capacity (80 g/m^2, 20 lb. Bond):	• Without Mixed Size: **30 sheets:** A3 SEF, B4 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 x 13 SEF, 8 1/2 x 13 LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 11 x 15 SEF, 10 x 14 SEF, 8K SEF, 12 x 18 SEF, 8 1/2 x 13 2/5 LEF **50 sheets:**

Item	Specification
	A4 SEF/LEF, B5 JIS SEF/LEF, 8 1/2 x 11 SEF/LEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 16K SEF/LEF • With Mixed Size: **22 sheets:** A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11 SEF

Stack capacity after stapling (80 g/m^2, 20 lb. Bond):	• Without Mixed Size:
	  • 2–9 sheets: 100 sets (A4 LEF, B5 JIS LEF, 8 1/2 x 11 LEF)
	  • 10–50 sheets: 100–20 sets (A4 LEF, B5 JIS LEF, 8 1/2 x 11 LEF)
	  • 10–50 sheets: 50–10 sets (A4 SEF, B5 JIS SEF, 8 1/2 x 11 SEF)
	  • 2–9 sheets: 50 sets (A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF)
	  • 10–30 sheets: 50–10 sets (A3 SEF, B4 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF)
	• With Mixed Size:
	  • 2–22 sheets: 22 sets (A3 SEF/ A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11 SEF)

Staple position:	3 positions (Top, Bottom, 2 Staples)
Saddle stitch paper size:	A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 LEF, 12 x 18 SEF
Saddle stitch paper weight:	52–105 g/m^2 (14–28 lb. Bond)
Saddle stitch capacity (80 g/m^2, 20 lb. Bond):	1 set (15 sheets)
Stack capacity after saddle stitching (80 g/m^2, 20 lb. Bond):	2–5 sheets: approx. 20 sets 6–10 sheets: approx. 10 sets 11–15 sheets: approx. 7 sets
Saddle stitch position:	Center 2 positions
Types of folds:	Half Fold
Half fold paper size:	A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 LEF, 12 x 18 SEF, 8 1/2 x 13 2/5 LEF
Half fold paper weight:	52–105 g/m2 (14–28 lb.Bond)
Power consumption:	36 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	• Tray is folded: 575 x 620 x 960 mm (22.6 x 24.5 x 37.8 inches) • Tray is extended: 658 x 620 x 960 mm (25.9 x 24.5 x 37.8 inches)
Weight:	Approx. 42 kg (92.6 lb.)

Finisher SR3230 (D3BA)

Item	Specification
Paper size for the finisher upper tray:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 5 1/2 x 8 1/2 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight for the finisher upper tray:	52–220 g/m^2 (14 lb. Bond–80 lb. Cover)
Stack capacity for the finisher upper tray (80 g/m^2, 20 lb. Bond):	250 sheets: A4, 81/2 x 11 or smaller 50 sheets: B4 JIS, 81/2 x 14 or larger
Paper size for the finisher shift tray:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 5 1/2 x 8 1/2 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight for the finisher shift tray:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper sizes that can be shifted when delivered to the finisher shift tray:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, 12 x 18 SEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 5 1/2 x 8 1/2 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA4 LEF, 8 1/2 x 13 2/5 LEF, custom size
Paper weight that can be shifted when delivered to the finisher shift tray:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Stack capacity for the finisher shift tray (80 g/m^2, 20 lb. Bond):	• 3,000 sheets: A4 SEF, 8 1/2 x 11 SEF • 1,500 sheets: A3 SEF, B4 JIS SEF, A4 LEF, B5 JIS SEF/LEF, 12 x 18 SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 LEF, SRA3LEF • 500 sheets: A5 SEF • 100 sheets: A5 LEF, B6 JIS SEF, A6 SEF, 5 1/2 x 8 1/2 SEF
Staple paper size:	A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, 11 x 17 SEF, 11 x 15 SEF, 10 x 14LEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF/LEF, 7 1/4 x 10 1/2 SEF/LEF, 8 x 13 SEF, 8 1/2 x 13 LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 10 SEF, 8K SEF, 16K SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size
Staple paper weight:	52–105 g/m^2 (14–28 lb. Bond) You can use two sheets of paper weighing up to 256 g/m^2 (140 lb. Index) per set as

Item	Specification
	cover sheets.
Staple capacity (80 g/m^2, 20 lb. Bond):	• Without Mixed Size: **50 sheets:** A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 x 13 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 11 x 15 SEF, 10 x 14 SEF, 8K SEF, 16K SEF/LEF, 8 1/2 x 13 2/5 LEF • With Mixed Size: **50 sheets:** A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11 SEF • With Z-fold: 3 sheets (80 - 105g/m$^{2)}$ 6 sheets (52 - 80g/m^2) • Combination of with and without Z-fold For this combination, one sheet to be Z-folded is converted to 8 sheets (52 - 80 g/m^2) or 13 sheets (80 - 105 g/m^2) without Z-fold, and the limit value for no folding is used as the upper limit.
Stack capacity after stapling (80 g/m^2, 20 lb. Bond):	**Without Mixed Size:** • 2–19 sheets: 150 sets (A4 LEF, 8 1/2 x 11 LEF) • 20–50 sheets: 150–46 sets (A4 LEF, 8 1/2 x 11 LEF) • 2–14 sheets: 100 sets (A4 SEF, B5 JIS SEF/SEF, 8 1/2 x 11 SEF) • 15–50 sheets: 100–23 sets (A4 SEF, B5 JIS SEF/SEF, 8 1/2 x 11 ;SEF) • 2–14 sheets: 100 sets (other size paper) • 15–50 sheets: 100–23 sets (other size paper) **With Mixed Size:** • 2–50 sheets: 23 sets (A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11 SEF)
Staple position:	4 positions (Top, Top Slant, Bottom, 2 Staples)
Power consumption:	64 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	657 x 613 x 960 mm (25.9 x 24.2 x 37.8 inches)
Weight:	• Approx. 34 kg (75.0 lb.) (without punch unit) • Approx. 39 kg (86.0 lb.) (with punch unit)

Paper Specifications

Size	Normal	Thin	Norm 1	Norm 2	Med	Thk 1	Thk 2	Thk 3	Thk 4

1.Specifications

		(52-59)	(60-74)	(75-81)	Thk (82-105)	(160-169)	(170-220)	(221-256)	(257-300)
A3 SEF	◎	◎	◎	◎	◎	●	●	△	▲
B4 SEF	◎	◎	◎	◎	◎	●	●	△	▲
A4 SEF	◎	◎	◎	◎	◎	●	●	△	▲
A4 LEF	■	■	■	■	■	●	●	△	▲
B5 SEF	◎	◎	◎	◎	◎	●	●	△	▲
B5 LEF	■	■	■	■	■	■	●	△	▲
A5 SEF	●	●	●	●	●	●	●	△	▲
A5 LEF	●	●	●	●	●	●	●	△	▲
B6 SEF	◇	◇	◇	◇	◇	◇	◇	▲	▲
A6 SEF	◇	◇	◇	◇	◇	◇	◇	▲	▲
13”×19.2” SEF	-	◇	◇	◇	◇	◇	◇	▲	▲
12”×18” SEF	-	◇	◇	◇	◇	◇	◇	▲	▲
12.6”×17.7”(SRA3) SEF	-	◇	◇	◇	◇	◇	◇	▲	▲
11”×17” SEF	-	◎	◎	◎	◎	●	●	△	▲
8 1/2”×14” SEF	-	◎	◎	◎	◎	●	●	△	▲
8 1/2”×11” SEF	-	◎	◎	◎	◎	●	●	△	▲
$8^1/_2$”×11” LEF	-	■	■	■	■	●	●	△	▲
$5^1/_2$”×$8^1/_2$” SEF	-	●	●	●	●	●	●	△	▲
$5^1/_2$”×$8^1/_2$” LEF	-	◇	◇	◇	◇	◇	◇	▲	▲

Here is the key for the symbols.

◎: Corner stapling, paper shift, proof tray, punching possible

●: Shift tray, proof tray, punching possible

△: Shift tray, punching possible

◇: Shift tray, proof tray possible

▲: Shift tray possible

-:Incompatible

	Color	Translucent	Label SA	Postcard	Transparencies
A3 SEF	●	△	-	-	-
B4 SEF	●	△	△	-	-
A4 SEF	●	△	△	△	△
A4 LEF	◎	△	△	△	△
B5 SEF	●	△	-	-	△
B5 LEF	◎	△	-	-	△
A5 SEF	-	-	-	-	-

A5 LEF	-	-	-	-	-
B6 SEF	-	-	-	-	-
B6 LEF	-	-	-	-	-
12”×18” SEF	●*1	-	-	-	-
11”×17” SEF	●	△	-	-	-
8 1/2”×14” SEF	●	△	-	-	-
8 1/2”×11” SEF	●	△	-	-	-
$8^1/_2$”×11” LEF	◎	△	-	-	-
$5^1/_2$”×$8^1/_2$” SEF	-	-	-	-	-
$5^1/_2$”×$8^1/_2$” LEF	-	-	-	-	-

*1 No corner stapling

Here is the key for the symbols.

◎: Corner stapling, paper shift, proof tray, punching possible

●: Shift tray, proof tray, punching possible

△: Shift tray, punching possible

- : Incompatible

Mail Box CS3010 (M481)

e

Item	Specification
Number of trays:	4 trays
Paper size:	A3 SEF, A4 LEF/SEF, A5 LEF/SEF, B4 SEF, B5 LEF/SEF, 11×17 SEF, $8^1/_2$×14 SEF, $8^1/_2$×13 SEF, $8^1/_2$×11 LEF/SEF, $8^1/_4$×14 SEF, $8^1/_4$×13 SEF, 8×13 SEF, 8×10 SEF, $7^1/_4$×10 1/2 LEF/SEF, $5^1/_2$×$8^1/_2$ SEF, 8K SEF, 16K LEF/SEF, 11×15 SEF, 10×14 SEF, SRA4 SEF, $8^1/_2$×$13^2/_5$ SEF Com10 SEF/LEF, Monarch SEF/LEF, C5 SEF/LEF, C6 SEF/LEF, DL Env SEF/LEF Note: B6 SEF, A6SEF, Com10 SEF/LEF, Monarch SEF/LEF, C5 SEF/LEF, C6 SEF/LEF, and DL Env SEF/LEF paper can be loaded, although their stackability is not ensured.
Paper weight:	52-169 g/m2 (14 lb. Bond–90 lb. Index)
Paper capacity (80 g/m2, 20 lb. Bond):	125 sheets per tray
Power requirements:	Power is supplied from the main unit.
Power consumption:	27.2 W
Dimensions (W × D × H):	555 × 544 × 506 mm (21.9 × 21.5 × 20.0 inches) excluding the stabilizer

Item	Specification
Weight:	Approx. 13 kg (28.7 lb.) excluding the stabilizer Approx. 20.5 kg including the stabilizer

Bridge Unit BU3070 (D685)

Item	Specification
Stack capacity (80 g/m^2, 20 lb. Bond):	• 250 sheets: A4, 81/2 x 11 or smaller • 125 sheets: B4 JIS, 81/2 x 14 or larger
Power consumption:	12 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	412 x 466 x 143 mm (16.3 x 18.4 x 5.7 inches)
Weight:	Approx. 4 kg (8.9 lb.)

Output Jogger Unit Type M25 (D3CJ)

Item	Specification
Paper size:	A3 SEF, A4 SEF/LEF, A5 LEF, B4 SEF, B5 LEF, 11 × 17 SEF, $8^1/_2$ × 14 SEF, $8^1/_2$ × 11 SEF/LEF, $5^1/_2$ × $8^1/_2$ LEF, 12 × 18 SEF
Power requirements:	Power is supplied from the main unit.
Power consumption:	15 W
Dimensions (W × D × H):	169 × 539 × 203 mm (6.7 × 21.3 × 8.0 inches)
Weight:	Approx. 2 kg (4.4 lb.)

Punch Unit PU3050 NA/EU/SC (D717)

Item	Specification	
Paper weight	52–256 g/m^2 (14 lb. Bond–140 lb. Index)	
Paper size	**Punch unit type**	**Paper size**
	2 & 4 holes type: 2 holes	SEF: A3, B4 JIS, A4, B5 JIS, A5, 11 x 17, 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 8K, 16K, 8 1/4 x 14, 8 x 10, 11 x 15, 10 x 14
	2 & 4 holes type: 2 holes	LEF: A4, B5 JIS, A5, 8 1/2 x 11, 7 1/4 x 10 1/2, 16K
	2 & 4 holes type: 4 holes	SEF: A3, B4 JIS, 11 x 17, 11 x 15, 8K
	2 & 4 holes type: 4 holes	LEF: A4, B5 JIS, 8 1/2 x 11, 7 1/4 x 10 1/2, 16K

Item	Specification	
	4 holes type: 4 holes	SEF: A3, B4 JIS, A4, B5 JIS, A5, 11 x 17, 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 8K, 16K, 8 1/4 x 14, 8 x 10, 11 x 15, 10 x 14
	4 holes type: 4 holes	LEF: A4, B5 JIS, A5, 8 1/2 x 11, 7 1/4 x 10 1/2, 16K
	2 & 3 holes type: 2 holes	SEF: A3, B4 JIS, B5 JIS, A5, 11 x 17, 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 8K, 16K, 8 1/4 x 14, 8 x 10, 11 x 15, 10 x 14
	2 & 3 holes type: 2 holes	LEF: A4, B5 JIS, 8 1/2 x 11, 7 1/4 x 10 1/2, 16K
	2 & 3 holes type: 3 holes	SEF: A3, B4 JIS, 11 x 17, 11 x 15, 10 x 14, 8K
	2 & 3 holes type: 3 holes	LEF: A4, B5 JIS, 8 1/2 x 11, 7 1/4 x 10 1/2, 16K

Punch Unit PU3060 NA/EU/SC (D706)

Item	Specification	
Paper weight	52–256 g/m^2 (14 lb. Bond–140 lb. Index)	
Paper size	**Punch unit type**	**Paper size**
	2 & 4 holes type: 2 holes	SEF: A3, B4 JIS, A4, B5 JIS, A5, 11 x 17, 8$^1/_2$ x 14, 8$^1/_2$ x 11, 5$^1/_2$ x 8$^1/_2$, 7$^1/_4$ x 10$^1/_2$, 8 x 13, 8$^1/_2$ x 13, 8$^1/_4$ x 13, 8K, 16K, 8$^1/_4$ x 14, 8 x 10, 11 x 15, 10 x 14, custom size
	2 & 4 holes type: 2 holes	LEF: A4, B5 JIS, A5, 8$^1/_2$ x 11, 7$^1/_4$ x 10$^1/_2$, 16K, custom size
	2 & 4 holes type: 4 holes	SEF: A3, B4 JIS, 11 x 17, 11 x 15, 8K, custom size
	2 & 4 holes type: 4 holes	LEF: A4, B5 JIS, 8$^1/_2$ x 11,7$^1/_4$ x 10$^1/_2$, 16K, custom size
	4 holes type: 4 holes	SEF: A3, B4 JIS, A4, B5 JIS, A5, 11 x 17, 8$^1/_2$ x 14, 8$^1/_2$ x 11, 5$^1/_2$ x 8$^1/_2$, 7$^1/_4$ x 10$^1/_2$, 8 x 13, 8$^1/_2$ x 13, 8$^1/_4$ x 13, 8K, 16K, 8$^1/_4$ x 14, 8 x 10, 11 x 15, 10 x 14, custom size
	4 holes type: 4 holes	LEF: A4, B5 JIS, A5, 8$^1/_2$ x 11, 7$^1/_4$ x 10$^1/_2$, 16K, custom size

Item	Specification	
	2 & 3 holes type: 2 holes	SEF: A3, B4 JIS, B5 JIS, A5, 11 x 17, $8^1/_2$ x 14, $8^1/_2$ x 11, $5^1/_2$ x $8^1/_2$, $7^1/_4$ x $10^1/_2$, 8 x 13, $8^1/_2$ x 13, $8^1/_4$ x 13, 8K, 16K, $8^1/_4$ x 14, 8 x 10, 11 x 15, 10 x 14, custom size
	2 & 3 holes type: 2 holes	LEF: A4, B5 JIS, $8^1/_2$ x 11, $7^1/_4$ x $10^1/_2$, 16K, custom size
	2 & 3 holes type: 3 holes	SEF: A3, B4 JIS, 11 x 17, 11 x 15, 10 x 14, 8K, custom size
	2 & 3 holes type: 3 holes	LEF: A4, B5 JIS, $8^1/_2$ x 11,$7^1/_4$ x $10^1/_2$, 16K, custom size

Internal Multi-fold Unit FD3000 (M482)

Item	Specification
Fold type	Half Fold, Letter Fold-out, Letter Fold-in, Z-fold
Paper size:	• With Z-fold: A3 SEF, A4 SEF, B4 SEF, 11 × 17 SEF, $8^1/_2$ × 14 SEF, $8^1/_2$ × 11 SEF, 8K SEF, $8^1/_2$ × $13^2/_5$ SEF • With Half Fold: A3 SEF, A4 SEF, B4 SEF, 11 × 17 SEF, $8^1/_2$ × 14 SEF, $8^1/_2$ × 11 SEF, 8K SEF, 12 × 18 SEF*, SRA3 SEF*, $8^1/_2$ × $13^2/_5$SEF *12×18 SEF and SRA3 SEF papers can be delivered only if the finisher is connected beyond the internal multi-fold unit. • With Letter Fold-out, and Letter Fold-in: A3 SEF, A4 SEF, 11 × 17 SEF, $8^1/_2$ × 14 SEF, $8^1/_2$ × 11 SEF, 81/2 × $13^2/_5$ SEF
Paper weight:	64 - 105 g/m2 (17 - 28 lb. Bond)
Power requirements:	Power is supplied from the main unit.
Power consumption:	40 W

Dimensions (W × D × H):	• Without Finisher:
	  • When the tray is stowed:
	  612 × 555 × 184 mm (9.5 × 21.9 × 7.3 inches)
	  • When the tray is extended:
	  714 × 555 × 242 mm (28.2 × 21.9 × 9.6 inches)
	• With Finisher:
	420 × 555 × 152 mm (16.6 × 21.9 × 6.0 inches)

Weight:	Approx. 15 kg (33.1 lb.)

Paper Feed Unit PB3250 (M495)

Item	Specification
Paper size:	A3 SEF, A4 SEF/LEF, A5 SEF, A6 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 10 x 14 SEF, 4 1/8 x 9 1/2 SEF, C5 Env SEF, SRA3 SEF, custom size
Paper weight:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper capacity (80 g/m^2, 20 lb. Bond):	550 sheets x 1 tray
Power consumption:	19 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	587 x 685 x 120 mm (23.2 x 27.0 x 4.8 inches) Note: Protruding part(s) not included.
Weight:	Approx. 11 kg (24.3 lb.)

Paper Feed Unit PB3240 (M494)

Item	Specification
Paper size:	A3 SEF, A4 SEF/LEF, A5 SEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 LEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 10 x 14 SEF, 4 1/8 x 9 1/2 SEF, C5 Env SEF, SRA3 SEF, custom size
Paper weight:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper capacity (80 g/m^2, 20 lb. Bond):	550 sheets x 2 trays
Power consumption:	21 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	587 x 685 x 247 mm (23.2 x 27.0 x 9.8 inches)
Weight:	Approx. 22 kg (48.5 lb.)

LCIT PB 3260 (M496)

Item	Specification
Paper size:	A4 LEF, 8 1/2 x 11 LEF
Paper weight:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper capacity (80 g/m^2, 20 lb. Bond):	1,000 sheets x 2 trays
Power consumption:	15 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	587 x 685 x 247 mm (23.2 x 27.0 x 9.8 inches)

Item	Specification
Weight:	Approx. 22 kg (44.1 lb.) Except the bundled items.

LCIT RT 3030 (D696)

Item	Specification
Paper size:	A4 LEF, B5 JIS LEF, 8 1/2 x 11 LEF
Paper weight:	52–300 g/m^2 (14 lb. Bond–110 lb. Cover)
Paper capacity (80 g/m^2, 20 lb. Bond):	1,500 sheets
Power consumption:	13 W (Power is supplied from the main unit.)
Dimensions (W x D x H):	340 x 540 x 290 mm (13.4 x 21.3 x 11.5 inches)
Weight:	Approx. 10 kg (22.1 lb.)

Banner Paper Guide Tray Type M19 (D3BF)

Item	Specification
Dimensions (W x D x H):	**Main Tray** Tray is folded: 370 x 250 x 70 mm Tray is expanded: 370 x 250 x 250 mm **Sub Tray** Tray is folded: 150 x 110 x 15 mm Tray is expanded: 150 x 110 x 100 mm **Lock Plate** Locked: 135 x 150 x 25 mm Unlocked: 135 x 220 x 25 mm
Weight:	Main Tray: 942 g Sub Tray: 245 g Lock Plate: 280 g

2. Preventive Maintenance

Preventive Maintenance Items

User Maintenance Models

This product has been designed for user maintenance. The maintenance kits in the table below have been prepared as supplies. User maintenance is performed by replacing these supplies.

The yield figures are based on the following conditions:

- A4 (LT): long-edge feed
- 5% image coverage ratio
- 3 prints/job
- Environment: Normal temperature and humidity

Yield may change depending on circumstances and print conditions.

Symbol keys: **C:** Clean, **R:** Replace, **L:** Lubricate, **I:** Inspect, **U:** Maintenance by User, **S:** Maintenance by Service

PCDU

Item	U or S	Maintenance Cycle	PM Parts	Remarks
PCDU (K)	U	R 60K	✓	
PCDU (C,M,Y)	U	R 60K	✓	
Waste toner bottle	U	R 80K	✓	Replace if the waste toner bottle is detected to be full.

Transfer

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Image transfer belt unit	U	R 200K	✓	The image transfer belt also includes the image transfer cleaning unit, which is replaced together with the image transfer unit.
Paper transfer roller unit*	U	R 160K	✓	Replace the paper transfer roller unit, fusing unit, and ozone filter/dust filter together.

*When replacing the roller, check which one is installed in the unit, a normal roller or an optional Imageable Area Extension Unit.

Fusing

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Fusing unit	U	R 160K	✓	Replace the paper transfer roller unit, fusing unit, and ozone filter/dust filter together.

Miscellaneous

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Ozone filter/Dust filter	U	R 160K	✓	Replace the paper transfer roller unit, fusing unit, and ozone filter/dust filter together.
Dust shield glass for Laser Unit	S/U	C As needed		Clean the dust shield glass with a cleaning brush.
TM/ID sensor	S	C As needed		Damp cloth Do not use a dry cloth that can cause static electricity.

Paper Feed

Perform cleaning when the frequency of sensor failure, double feeding, or jam increases.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Registration roller	S	C As needed		Damp cloth Remove the paper dust.
Registration sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Paper dust collection unit	S	C As needed		Damp cloth Remove the paper dust.
Feed roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Pick-up roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Separation roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Bypass paper feed roller	S	C		Damp cloth

Item	U or S	Maintenance Cycle	PM Parts	Remarks
		As needed		Remove the paper dust.
Bypass pick-up roller	S	C As needed		Damp cloth Remove the paper dust.
Bypass transport roller	S	C As needed		Damp cloth Remove the paper dust.
Transport roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Transport sensor 1/2	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Paper feed sensor 1/2	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Friction pad (tray1/2, bypass tray)	S	C As needed		Damp cloth Remove the paper dust.

Duplex

Perform cleaning when the frequency of sensor failure, double feeding, or jam increases.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Duplex transport roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Duplex exit sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.

Paper Exit

Perform cleaning when the frequency of sensor failure, double feeding, or jam increases.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Paper exit roller	S	C As needed		Damp cloth Remove the paper dust.
Reverse roller	S	C As needed		Damp cloth Remove the paper dust.
Paper exit sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Reverse sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Fusing exit sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.

Service Maintenance Models

The following items are supplied as service parts. The table shows the expected yield figures for this item when replaced by technicians using meter click charge mode. The target is expressed as an average, since the technician can replace the parts based on continual monitoring of the printing condition.

The yield figures are based on the following conditions:

- A4 (LT) long-edge feed
- 5% image coverage ratio
- 3 prints/job
- Environment: Normal temperature and humidity

Yield may change depending on circumstances and print conditions.

Symbol keys: **C:** Clean, **R:** Replace, **L:** Lubricate, **I:** Inspect, **U:** Maintenance by User, **S:** Maintenance by Service

PCDU

Item	U or S	Maintenance Cycle	PM Parts	Remarks
PCDU (K)	S	R 200K	✓	
PCDU (C,M,Y)	S	R 170K	✓	
Waste toner bottle	U/S	R 80K	✓	Replace if the waste toner bottle is detected to be full.

Transfer

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Image transfer belt unit	S	R 300K	✓ SP C842DN only	Replace the image transfer cleaning unit and image transfer belt unit together.
Image transfer cleaning unit	S	R 300K		
Paper transfer roller unit*	S	R 400K	✓ SP C842DN only	

*When replacing the roller, check which one is installed in the unit, a normal roller or an optional Imageable Area Extension Unit.

Fusing

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Fusing unit	S	R 400K	✓ SP C842DN only	
Fusing sleeve belt unit	S	R 400K		
	S	C When contaminated		Remove toner deposits
Fusing entrance guide plate	S	R 400K		Replace the heating sleeve unit.
Fusing exit guide plate	S	C When contaminated		Remove toner deposits
Stripper plate	S	C When contaminated		Remove toner deposits
Pressure roller	S	R 400K		
Bearing: Pressure roller	S	R/L 400K		Lubricate with FLUOTRIBO MG GREASE: 100G
Thermopile	S	C 400K		Remove toner deposits
Pressure roller gears	S	C When contaminated		Dry cloth
Idler gear	S	R When contaminated		Replace if worn out
Fusing exit roller	S	R When contaminated		Replace if worn out

Miscellaneous

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Ozone filter	U	R 300K	✓ SP C842DN only	
Dust filter	U	R 300K	✓ SP C842DN only	
Dust shield glass for Laser Unit	S/U	C When contaminated		Clean the dust shield glass with a cleaning brush.
TM/ID sensor	S	C When contaminated		Damp cloth Do not use a dry cloth that can cause static electricity.

Paper Feed

Perform cleaning when the frequency of sensor failure, double feeding, or jam increases.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Registration roller	S	C As needed		Damp cloth Remove the paper dust.
Registration sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Paper dust collection unit	S	C As needed		Damp cloth Remove the paper dust.
Feed roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Pick-up roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Separation roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Bypass paper feed roller	S	C As needed		Damp cloth Remove the paper dust.
Bypass pick-up roller	S	C As needed		Damp cloth Remove the paper dust.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Bypass transport roller	S	C As needed		Damp cloth Remove the paper dust.
Transport roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Transport sensor 1/2	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Paper feed sensor 1/2	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Friction pad (tray1/2, bypass tray)	S	C As needed		Damp cloth Remove the paper dust.

Duplex

Perform cleaning when the frequency of sensor failure, double feeding, or jam increases.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Duplex transport roller 1/2	S	C As needed		Damp cloth Remove the paper dust.
Duplex exit sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.

Paper Exit

Perform cleaning when the frequency of sensor failure, double feeding, or jam increases.

Item	U or S	Maintenance Cycle	PM Parts	Remarks
Paper exit roller	S	C As needed		Damp cloth Remove the paper dust.
Reverse roller	S	C As needed		Damp cloth Remove the paper dust.
Paper exit sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Reverse sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.
Fusing exit sensor	S	C As needed		Clean sensors with a blower brush. Remove the paper dust.

R

Peripherals

Paper Feed Unit PB3240, Paper Feed Unit PB3250, LCIT PB3260

Item	**Cycle**	**Remarks**
Paper feed roller	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Pick-up roller	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Separation roller	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Relay rollers	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Bottom plate pad	C As needed	Remove dust with a dry cloth.
Sensors	C As needed	Remove dust with a dry cloth.

LCIT RT3030

Item	Cycle	Remarks
Transport roller	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Friction pad	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Transport sensor	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Paper feed sensor	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Feed roller	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Friction roller	C As needed	Wipe with a damp cloth, then a dry cloth.
Friction roller	C As needed	Wipe with a damp cloth, then a dry cloth.

Bridge Unit BU3070

Item	Cycle	Remarks
Paper exit roller	C As needed	Wipe with a damp cloth, then a dry cloth.
Transport roller 1	C As needed	Wipe with a damp cloth, then a dry cloth.
Transport roller 2	C As needed	Wipe with a damp cloth, then a dry cloth.
Transport roller 3	C As needed	Wipe with a damp cloth, then a dry cloth.

Finisher SR3210/Booklet Finisher SR3220

Item	Cycle	Remarks
Drive rollers	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Driven rollers	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Quenching brush	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Bearings	C As needed	Lubricate with Silicone Grease G-501 when noise occurs.
Sensors	C As needed	Clean with a blower brush.
Jogger fences	C As needed	Lubricate with Silicone Grease G-501 when abnormal noise is generated or abnormal operation occurs.
Stapler	500K R	Replace when the staple counter in the logging data reached 500k. Staple a few times to test after replacement.

Finisher SR3230

Item	Cycle	Remarks
Drive rollers	C As needed	Wipe with a cloth dampened with ethyl alcohol.

Item	Cycle	Remarks
Driven rollers	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Quenching brush	C As needed	Wipe with a cloth dampened with ethyl alcohol.
Bearings	C As needed	Lubricate with Silicone Grease G-501 when noise occurs.
Sensors	C As needed	Clean with a blower brush.
Stapler (Corner)	R	Replace when the staple counter in the logging data reached 500k. Staple a few times to test after replacement.
Punch	R	Replace the unit when the punch reaches the end of life, i.e., when the number of punched sheets exceeds one million.
Punch dust	C As needed	Discard paper dust when the hopper is detected to be full.

Internal Multi-fold Unit FD3000

Item	Cycle	Remarks
Paper transport rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Paper exit rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Driven rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Fold rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Trays	C As	Wipe with a damp cloth, then a dry cloth.

Item	Cycle	Remarks
	needed	
Paper sensor	C As needed	Remove paper dust with a blower brush or the corner of a triangular-folded cloth.
Bearings	C As needed	Lubricate with Silicone Grease G-501 when noise occurs.

Mail Box CS3010

Item	Cycle	Remarks
Paper transport rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Paper exit rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Driven rollers	C As needed	Wipe with a damp cloth, then a dry cloth.
Trays	C As needed	Wipe with a damp cloth, then a dry cloth.
Paper sensor	C As needed	Remove paper dust with a blower brush or the corner of a triangular-folded cloth.
Bearings	C As needed	Lubricate with Silicone Grease G-501 when noise occurs.

3. Engine SP Mode Tables

Engine SP1-XXX (Feed)

SP1-001 to SP1-156

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-001	Leading Edge Registration	Tray1: Thin	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-002	Leading Edge Registration	Tray1: Plain	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-003	Leading Edge Registration	Tray1: Mid-thick	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-004	Leading Edge Registration	Tray1: Thick 1	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-005	Leading Edge Registration	Tray1: Thick 2	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-006	Leading Edge Registration	Tray1: Thick 3	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-007	Leading Edge Registration	Tray1: Thick 4	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-008	Leading Edge Registration	Tray2/3/4/5/LCT: Thin	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-009	Leading Edge Registration	Tray2/3/4/5/LCT: Plain	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-010	Leading Edge Registration	Tray2/3/4/5/LCT: Mid-thick	ENG*	[-9 to 9 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-011	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 1	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-012	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 2	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-013	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 3	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-014	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 4	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-015	Leading Edge Registration	By-pass: Thin	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-016	Leading Edge Registration	By-pass: Plain	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-017	Leading Edge Registration	By-pass: Mid-thick	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-018	Leading Edge Registration	By-pass: Thick 1	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-019	Leading Edge Registration	By-pass: Thick 2	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-020	Leading Edge Registration	By-pass: Thick 3	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-021	Leading Edge Registration	By-pass: Thick 4	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-022	Leading Edge Registration	Duplex: Thin	ENG*	[-9 to 9 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-023	Leading Edge Registration	Duplex: Plain	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-024	Leading Edge Registration	Duplex: Mid-thick	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-025	Leading Edge Registration	Duplex: Thick 1	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-026	Leading Edge Registration	Duplex: Thick 2	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-027	Leading Edge Registration	Duplex: Thick 3	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-028	Leading Edge Registration	Tray1: Thin:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-029	Leading Edge Registration	Tray1: Plain:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-030	Leading Edge Registration	Tray1: Mid-thick:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-031	Leading Edge Registration	Tray1: Thick 1:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-032	Leading Edge Registration	Tray1: Thick 2:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-033	Leading Edge Registration	Tray1: Thick 3:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-034	Leading Edge Registration	Tray1: Thick 4:1200	ENG*	[-9 to 9 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-035	Leading Edge Registration	Tray2/3/4/5/LCT: Thin:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-036	Leading Edge Registration	Tray2/3/4/5/LCT: Plain:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-037	Leading Edge Registration	Tray2/3/4/5/LCT: Mid-thick:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-038	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 1:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-039	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 2:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-040	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 3:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-041	Leading Edge Registration	Tray2/3/4/5/LCT: Thick 4:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-042	Leading Edge Registration	By-pass: Thin:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-043	Leading Edge Registration	By-pass: Plain:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-044	Leading Edge Registration	By-pass: Mid-thick:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-045	Leading Edge Registration	By-pass: Thick 1:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-046	Leading Edge Registration	By-pass: Thick 2:1200	ENG*	[-9 to 9 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-047	Leading Edge Registration	By-pass: Thick 3:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-048	Leading Edge Registration	By-pass: Thick 4:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-049	Leading Edge Registration	Duplex: Thin:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-050	Leading Edge Registration	Duplex: Plain:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-051	Leading Edge Registration	Duplex: Mid-thick:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-052	Leading Edge Registration	Duplex: Thick 1:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-053	Leading Edge Registration	Duplex: Thick 2:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-001-054	Leading Edge Registration	Duplex: Thick 3:1200	ENG*	[-9 to 9 / 0 / 0.1mm]
1-002-001	Side-to-Side Registration	By-pass Tray	ENG*	[-4 to 4 / 0 / 0.1mm]
1-002-002	Side-to-Side Registration	Paper Tray 1	ENG*	[-4 to 4 / 0 / 0.1mm]
1-002-003	Side-to-Side Registration	Paper Tray 2	ENG*	[-4 to 4 / 0 / 0.1mm]
1-002-004	Side-to-Side Registration	Paper Tray 3	ENG*	[-4 to 4 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-002-005	Side-to-Side Registration	Paper Tray 4	ENG*	[-4 to 4 / 0 / 0.1mm]
1-002-006	Side-to-Side Registration	Duplex	ENG*	[-4 to 4 / 0 / 0.1mm]
1-002-007	Side-to-Side Registration	Paper Tray 5	ENG*	[-4 to 4 / 0 / 0.1mm]
1-002-008	Side-to-Side Registration	Large Capacity Tray	ENG*	[-4 to 4 / 0 / 0.1mm]
1-003-001	Paper Buckle	Paper Tray1: Thin	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-002	Paper Buckle	Paper Tray1: Plain	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-003	Paper Buckle	Paper Tray 1: Mid-thick	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-004	Paper Buckle	Paper Tray1: Thick1	ENG*	[-4 to 5 / -35 / 0.1mm]
1-003-005	Paper Buckle	Tray2/3/4/5/LCT: Thin	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-006	Paper Buckle	Tray2/3/4/5/LCT: Plain	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-007	Paper Buckle	Tray 2/3/4/5/LCT: Mid-thick	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-008	Paper Buckle	Tray2/3/4/5/LCT: Thick 1	ENG*	[-4 to 5 / -35 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-003-009	Paper Buckle	By-pass: Thin	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-010	Paper Buckle	By-pass: Plain	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-011	Paper Buckle	By-pass: Mid-thick	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-012	Paper Buckle	By-pass:Thick1	ENG*	[-4 to 5 / -30 / 0.1mm]
1-003-013	Paper Buckle	Duplex:Thin	ENG*	[-4 to 5 / -15 / 0.1mm]
1-003-014	Paper Buckle	Duplex:Plain	ENG*	[-4 to 5 / -15 / 0.1mm]
1-003-015	Paper Buckle	Duplex: Mid-thick	ENG*	[-4 to 5 / -15 / 0.1mm]
1-003-016	Paper Buckle	Duplex:Thick1	ENG*	[-4 to 5 / -35 / 0.1mm]
1-003-017	Paper Buckle	Paper Tray1: Thin:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-018	Paper Buckle	Paper Tray1: Plain:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-019	Paper Buckle	Paper Tray 1: Mid-thick:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-020	Paper Buckle	Paper Tray1: Thick1:1200	ENG*	[-4 to 5 / -35 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-003-021	Paper Buckle	Tray2/3/4/5/LCT: Thin:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-022	Paper Buckle	Tray2/3/4/5/LCT: Plain:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-023	Paper Buckle	Tray2/3/4/5/LCT: Mid:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-024	Paper Buckle	Tray2/3/4/5/LCT: Thick 1:1200	ENG*	[-4 to 5 / -35 / 0.1mm]
1-003-025	Paper Buckle	By-pass: Thin:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-026	Paper Buckle	By-pass: Plain:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-027	Paper Buckle	By-pass: Mid-thick:1200	ENG*	[-4 to 5 / 0 / 0.1mm]
1-003-028	Paper Buckle	By-pass:Thick1:1200	ENG*	[-4 to 5 / -30 / 0.1mm]
1-003-029	Paper Buckle	Duplex:Thin:1200	ENG*	[-4 to 5 / -15 / 0.1mm]
1-003-030	Paper Buckle	Duplex:Plain:1200	ENG*	[-4 to 5 / -15 / 0.1mm]
1-003-031	Paper Buckle	Duplex: Mid-thick:1200	ENG*	[-4 to 5 / -15 / 0.1mm]
1-003-032	Paper Buckle	Duplex:Thick1:1200	ENG*	[-4 to 5 / -35 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-007-001	By-Pass Size Detection	Switch LT SEF/LG SEF	ENG*	[0 to 1 / 0 / 1] 0: 8.5x11SEF 1: 8.5x14SEF
1-007-002	By-Pass Size Detection	By-Pass Jam Detection Set	ENG*	[0 to 1 / 0 / 1] 0: Normal Detection 1: Simple Detection
1-009-001	Initial Operation Setting	Registration Gear Backlash Cut	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-002	Operation Setting	Paper Exit Speed	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-003	Pickup SOL Separate Setting	Paper Tray1: Thin	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-004	Pickup SOL Separate Setting	Paper Tray1: Plain	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-005	Pickup SOL Separate Setting	Paper Tray1: Thick	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-006	Pickup SOL Separate Setting	Paper Tray2: Thin	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-007	Pickup SOL Separate Setting	Paper Tray2: Plain	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-008	Pickup SOL Separate Setting	Paper Tray2: Thick	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-009	Pickup SOL Separate Setting	Paper Tray3: Thin	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-010	Pickup SOL Separate Setting	Paper Tray3: Plain	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-009-011	Pickup SOL Separate Setting	Paper Tray3: Thick	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-012	Pickup SOL Separate Setting	Paper Tray4: Thin	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-013	Pickup SOL Separate Setting	Paper Tray4: Plain	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-014	Pickup SOL Separate Setting	Paper Tray4: Thick	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-015	Pickup SOL Separate Setting	Paper Tray5: Thin	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-016	Pickup SOL Separate Setting	Paper Tray5: Plain	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-017	Pickup SOL Separate Setting	Paper Tray5: Thick	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-018	Operation Setting	ExitLineSpdSetting: AfterSpdDown	ENG*	[0 to 3 / 1 / 1] 0: Standard Speed 1: 146mm/s 2: 108mm/s 3: 73mm/s
1-009-019	Pickup SOL Separate Setting	Paper LCT: Thin	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-020	Pickup SOL Separate Setting	Paper LCT: Plain	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-009-021	Pickup SOL Separate Setting	Paper LCT: Thick	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-101-	Reload Permit Setting	Pre-rotation Start Temp.	ENG*	[0 to 200 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
1-101-002	Reload Permit Setting	Reload Target Temp.:Center	ENG*	[0 to 190 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-101-003	Reload Permit Setting	Reload Target Temp.:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 150 *SP C842DN: 148
1-101-004	Reload Permit Setting	Temp.:Delta:Cold:Center	ENG*	[4 to 200 / * / 1deg] *SP C840DN (NA/TWN): 23 *SP C840DN (EU/AP/CHN): 19 *SP C842DN (NA/TWN): 28 *SP C842DN (EU/AP/CHN): 20
1-101-005	Reload Permit Setting	Temp.:Delta:Cold:End	ENG*	[4 to 200 / * / 1deg] *SP C840DN (NA/TWN): 23 *SP C840DN (EU/AP/CHN): 26 *SP C842DN (NA/TWN): 28 *SP C842DN (EU/AP/CHN): 27
1-101-006	Reload Permit Setting	Temp.:Delta:Cold:Press	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 95
1-101-007	Reload Permit Setting	Forced Reload Time:Cold	ENG*	[0 to 100 / 150 / 0.1sec]
1-101-008	Reload Permit Setting	Temp.:Delta:Low Power:Center	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 5 *SP C842DN: 4
1-101-009	Reload Permit Setting	Temp.:Delta:Low Power:End	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 5 *SP C842DN: 4

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-101-010	Reload Permit Setting	Temp.:Delta:Low Power:Press	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 90
1-101-011	Reload Permit Setting	Forced Reload Time:Low Power	ENG*	[0 to 100 / 150 / 0.1sec]
1-101-012	Reload Permit Setting	Temp.:Delta:Hot:Center	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 5 *SP C842DN: 4
1-101-013	Reload Permit Setting	Temp.:Delta:Hot:End	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 5 *SP C842DN: 4
1-101-014	Reload Permit Setting	Temp.:Delta:Hot:Press	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 90
1-101-015	Reload Permit Setting	Forced Reload Time:Hot	ENG*	[0 to 100 / 150 / 0.1sec]
1-101-016	Reload Permit Setting	Temp.:Delta:Cold:BW1/2:Center	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 33 *SP C842DN: 31
1-101-017	Reload Permit Setting	Temp.:Delta:Cold:BW1/2:End	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 33 *SP C842DN: 31
1-101-018	Reload Permit Setting	Temp.:Delta:Cold:BW1/2:Press	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 90
1-101-019	Reload Permit Setting	Forced Reload Time:Cold:BW1/2	ENG*	[0 to 100 / 150 / 0.1sec]
1-101-101	Reload Permit Setting	Reload Target Temp.:Center:Energy Saving	ENG*	[0 to 200 / * / 1deg] *SP C840DN (NA/TWN): 124 *SP C840DN (EU/AP/CHN): 125 *SP C842DN (NA/TWN): 140

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				*SP C842DN (EU/AP/CHN): 138
1-101-102	Reload Permit Setting	Reload Target Temp.:Press:Energy Saving	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 120 *SP C842DN: 100
1-101-103	Reload Permit Setting	Temp.:Delta:Cold:Energy Saving:Center	ENG*	[0 to 200 / 31 / 1deg] *SP C840DN (NA/TWN): 28 *SP C840DN (EU/AP/CHN): 21 *SP C842DN (NA/TWN): 26 *SP C842DN (EU/AP/CHN): 21
1-101-104	Reload Permit Setting	Temp.:Delta:Cold:Energy Saving:End	ENG*	[0 to 200 / 31 / 1deg] *SP C840DN (NA/TWN): 28 *SP C840DN (EU/AP/CHN): 21 *SP C842DN (NA/TWN): 26 *SP C842DN (EU/AP/CHN): 21
1-101-105	Reload Permit Setting	Temp.:Delta:Cold:Energy Saving:Press	ENG*	[4 to 200 / 100 / 1deg]
1-101-106	Reload Permit Setting	Forced Reload Time:Cold:Energy Saving	ENG*	[0 to 100 / * / 0.1sec] *SP C840DN: 200 *SP C842DN: 340
1-101-151	Reload Permit Setting	Temp.:Delta:Low Temp.:Center	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 5 *SP C842DN: 4
1-101-152	Reload Permit Setting	Temp.:Delta:Low Temp.:End	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 5 *SP C842DN: 4
1-101-	Reload Permit Setting	Temp.:Delta:Low Temp.:Press	ENG*	[4 to 200 /* / 1deg] *SP C840DN

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
153				(NA/TWN): 40 *SP C840DN (EU/AP/CHN): 35 *SP C842DN (NA/TWN): 33 *SP C842DN (EU/AP/CHN): 33
1-101-154	Reload Permit Setting	Forced Reload Time:Low Temp.	ENG*	[0 to 100 / 350 / 0.1sec]
1-101-201	Reload Permit Setting	Temp.:Delta:Cold:Center:FIN-less/ADF-less	ENG*	[4 to 200 / * / 1deg] *SP C840DN (NA/TWN): 23 *SP C840DN (EU/AP/CHN): 19 *SP C842DN (NA/TWN): 28 *SP C842DN (EU/AP/CHN): 20
1-101-202	Reload Permit Setting	Temp.:Delta:Cold:End:FIN-less/ADF-less	ENG*	[4 to 200 / * / 1deg] *SP C840DN (NA/TWN): 23 *SP C840DN (EU/AP/CHN): 26 *SP C842DN (NA/TWN): 28 *SP C842DN (EU/AP/CHN): 27
1-101-203	Reload Permit Setting	Temp.:Delta:Cold:Press:FIN-less/ADF-less	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 95
1-101-204	Reload Permit Setting	Forced Reload Time:Cold:FIN-less/ADF-less	ENG*	[0 to 100 / 150 / 0.1sec]
1-101-211	Reload Permit Setting	Temp:Delta:Cold:Center:FIN-less/ADF-attached	ENG*	[4 to 200 / * / 1deg] *SP C840DN (NA/TWN): 23

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				*SP C840DN (EU/AP/CHN): 19 *SP C842DN (NA/TWN): 28 *SP C842DN (EU/AP/CHN): 20
1-101-212	Reload Permit Setting	Temp.:Delta:Cold:End:FIN-less/ADF-attached	ENG*	[4 to 200 / * / 1deg] *SP C840DN (NA/TWN): 23 *SP C840DN (EU/AP/CHN): 26 *SP C842DN (NA/TWN): 28 *SP C842DN (EU/AP/CHN): 27
1-101-213	Reload Permit Setting	Temp.:Delta:Cold:Press:FIN-less/ADF-attached	ENG*	[4 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 95
1-101-214	Reload Permit Setting	ForcedReloadTime:Cold:FIN-less/ADF-attached	ENG*	[0 to 100 / 150 / 0.1sec]
1-102-001	Feed Permit Setting	Temp.:Lower Delta:Center	ENG*	[0 to 200 / 30 / 1deg]
1-102-002	Feed Permit Setting	Temp.:Lower Delta:End	ENG*	[0 to 200 / 30 / 1deg]
1-102-003	Feed Permit Setting	Temp.:Upper Delta:Center	ENG*	[0 to 200 / 30 / 1deg]
1-102-004	Feed Permit Setting	Temp.:Upper Delta:End	ENG*	[0 to 200 / 30 / 1deg]
1-102-005	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN (NA/TWN): 80 *SP C840DN

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				(EU/AP/CHN): 83 *SP C842DN (NA/TWN): 95 *SP C842DN (EU/AP/CHN): 100
1-102-006	Feed Permit Setting	Rotation Time	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-007	Feed Permit Setting	Temp.:Lower Delta:Center:Sp.1	ENG*	[0 to 200 / 5 / 1deg]
1-102-008	Feed Permit Setting	Temp.:Lower Delta:End:Sp.1	ENG*	[0 to 200 / 5 / 1deg]
1-102-009	Feed Permit Setting	Temp.:Upper Delta:Center:Sp.1	ENG*	[0 to 200 / 30 / 1deg]
1-102-010	Feed Permit Setting	Temp.:Upper Delta:End:Sp.1	ENG*	[0 to 200 / 30 / 1deg]
1-102-011	Feed Permit Setting	Temp.:Lower Delta:Press:Sp.1	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 23 *SP C842DN: 10
1-102-012	Feed Permit Setting	Rotation Time:Sp.1	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-013	Feed Permit Setting	Temp.:Lower Delta:Center:Sp.2	ENG*	[0 to 200 / 5 / 1deg]
1-102-014	Feed Permit Setting	Temp.:Lower Delta:End:Sp.2	ENG*	[0 to 200 / 5 / 1deg]
1-102-015	Feed Permit Setting	Temp.:Upper Delta:Center:Sp.2	ENG*	[0 to 200 / 15 / 1deg]
1-102-	Feed Permit Setting	Temp.:Upper Delta:End:Sp.2	ENG*	[0 to 200 / 15 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
016				
1-102-017	Feed Permit Setting	Temp.:Lower Delta:Press:Sp.2	ENG*	[0 to 200 / 100 / 1deg]
1-102-018	Feed Permit Setting	Rotation Time:Sp2	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-019	Feed Permit Setting	Feed Permit Time	ENG*	[0 to 200 / 60 / 1sec]
1-102-020	Feed Permit Setting	Temp.:Lower Delta:Center	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 52 *SP C842DN: 40
1-102-021	Feed Permit Setting	Temp.:Lower Delta:End	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 52 *SP C842DN: 40
1-102-022	Feed Permit Setting	Temp.:Upper Delta:Center	ENG*	[0 to 200 / 30 / 1deg]
1-102-023	Feed Permit Setting	Temp.:Upper Delta:End	ENG*	[0 to 200 / 30 / 1deg]
1-102-024	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 16 *SP C842DN: 28
1-102-025	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 34 *SP C842DN: 48
1-102-026	Feed Permit Setting	Rotation Time	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-027	Feed Permit Setting	Temp.:Lower Delta:Center	ENG*	[0 to 200 / 5 / 1deg]
1-102-	Feed Permit Setting	Temp.:Lower Delta:End	ENG*	[0 to 200 / 5 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
028				
1-102-029	Feed Permit Setting	Temp.:Upper Delta:Center	ENG*	[0 to 200 / 30 / 1deg]
1-102-030	Feed Permit Setting	Temp.:Upper Delta:End	ENG*	[0 to 200 / 30 / 1deg]
1-102-031	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 16 *SP C842DN: 23
1-102-032	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 34 *SP C842DN: 43
1-102-033	Feed Permit Setting	Rotation Time	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-034	Feed Permit Setting	Temp.:Lower Delta:Center	ENG*	[0 to 200 / 5 / 1deg]
1-102-035	Feed Permit Setting	Temp.:Lower Delta:End	ENG*	[0 to 200 / 5 / 1deg]
1-102-036	Feed Permit Setting	Temp.:Upper Delta:Center	ENG*	[0 to 200 / 15 / 1deg]
1-102-037	Feed Permit Setting	Temp.:Upper Delta:End	ENG*	[0 to 200 / 15 / 1deg]
1-102-038	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / 100 / 1deg]
1-102-039	Feed Permit Setting	Temp.:Lower Delta:Press	ENG*	[0 to 200 / 100 / 1deg]
1-102-	Feed Permit Setting	Rotation Time	ENG*	[0 to 1 / 0 / 0.01sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
040				
1-102-041	Feed Permit Setting	Judgment Power A	ENG*	[0 to 2000 / * / 1W] *SP C840DN (NA/TWN): 1379 *SP C840DN (EU/AP/CHN): 1654 *SP C842DN (NA/TWN): 1364 *SP C842DN (EU/AP/CHN): 1639
1-102-042	Feed Permit Setting	Temp.:Lower Delta:Center:Power A	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 52 *SP C842DN: 39
1-102-043	Feed Permit Setting	Temp.:Lower Delta::Power A	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 52 *SP C842DN: 39
1-102-044	Feed Permit Setting	Temp.:Upper Delta:Center:Power A	ENG*	[0 to 200 / 30 / 1deg]
1-102-045	Feed Permit Setting	Temp.:Upper Delta:End:Power A	ENG*	[0 to 200 / 30 / 1deg]
1-102-046	Feed Permit Setting	Temp.:Lower Delta:Press:Power A	ENG*	[0 to 200 / * / 1deg] *SP C840DN (NA/TWN): 80 *SP C840DN (EU/AP/CHN): 83 *SP C842DN (NA/TWN): 95 *SP C842DN (EU/AP/CHN): 100
1-102-047	Feed Permit Setting	Rotation Time:Power A	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-051	Feed Permit Setting	Judgment Power B	ENG*	[0 to 2000 / * / 1W] *SP C840DN (NA/TWN): 1314

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				*SP C840DN (EU/AP/CHN): 1589 *SP C842DN (NA/TWN): 1279 *SP C842DN (EU/AP/CHN): 1549
1-102-052	Feed Permit Setting	Temp.:Lower Delta:Center:Power B	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 52 *SP C842DN: 39
1-102-053	Feed Permit Setting	Temp.:Lower Delta:End:Power B	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 52 *SP C842DN: 39
1-102-054	Feed Permit Setting	Temp.:Upper Delta:Center:Power B	ENG*	[0 to 200 / 30 / 1deg]
1-102-055	Feed Permit Setting	Temp.:Upper Delta:End:Power B	ENG*	[0 to 200 / 30 / 1deg]
1-102-056	Feed Permit Setting	Temp.:Lower Delta:Press:Power B	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 71 *SP C842DN (NA/TWN): 25 *SP C842DN (NA/TWN): 43
1-102-057	Feed Permit Setting	Rotation Time:Power B	ENG*	[0 to 1 / 0 / 0.01sec]
1-102-060	Feed Permit Setting	Waiting Time: Stabilize Temp.	ENG*	[0 to 10000 / 0 / 1msec]
1-102-070	Feed Permit Setting	Timeout: Cold: Normal	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-	Feed Permit Setting	Timeout: Hot: Normal	ENG*	[0 to 20000 / * / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
102-071				*SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-072	Feed Permit Setting	Timeout: Cold: Power 1	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-073	Feed Permit Setting	Timeout: Hot: Power 1	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-074	Feed Permit Setting	Timeout: Cold: Power 2	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-075	Feed Permit Setting	Timeout: Hot: Power 2	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-076	Feed Permit Setting	Timeout: 10sec: 11	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-	Feed Permit Setting	Timeout: 10sec: 15	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
077				*SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-078	Feed Permit Setting	Timeout: 10sec: 16	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 4000 *SP C842DN (NA/TWN): 2100 *SP C842DN (NA/TWN): 3500
1-102-101	Feed Permit Setting	Temp.:Lower Delta:Press0	ENG*	[0 to 200 / 31 / 1deg]
1-102-102	Feed Permit Setting	Temp.:Lower Delta:Press10	ENG*	[0 to 200 / 31 / 1deg]
1-102-103	Feed Permit Setting	Temp.:Lower Delta:Press1	ENG*	[0 to 200 / 31 / 1deg]
1-102-104	Feed Permit Setting	Temp.:Lower Delta:Press2	ENG*	[0 to 200 / 31 / 1deg]
1-102-105	Feed Permit Setting	Temp.:Lower Delta:Press3	ENG*	[0 to 200 / 31 / 1deg]
1-102-106	Feed Permit Setting	Temp.:Lower Delta:Press13	ENG*	[0 to 200 / 31 / 1deg]
1-102-107	Feed Permit Setting	Temp.:Lower Delta:Press4	ENG*	[0 to 200 / 31 / 1deg]
1-102-108	Feed Permit Setting	Temp.:Lower Delta:Press14	ENG*	[0 to 200 / 31 / 1deg]
1-102-109	Feed Permit Setting	Temp.:Lower Delta:Press5	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 21 *SP C842DN: 14

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-102-110	Feed Permit Setting	Temp.:Lower Delta:Press6	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 22 *SP C842DN: 19
1-102-111	Feed Permit Setting	Temp.:Lower Delta:Press7	ENG*	[0 to 200 / 31 / 1deg]
1-102-112	Feed Permit Setting	Temp.:Lower Delta:Press11	ENG*	[0 to 200 / 31 / 1deg]
1-102-113	Feed Permit Setting	Temp.:Lower Delta:Press15	ENG*	[0 to 200 / 31 / 1deg]
1-102-114	Feed Permit Setting	Temp.:Lower Delta:Press16	ENG*	[0 to 200 / 31 / 1deg]
1-102-121	Feed Permit Setting	Timeout:Press0	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-122	Feed Permit Setting	Timeout:Press10	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-123	Feed Permit Setting	Timeout:Press1	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-124	Feed Permit Setting	Timeout:Press2	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-125	Feed Permit Setting	Timeout:Press3	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-126	Feed Permit Setting	Timeout:Press13	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-127	Feed Permit Setting	Timeout:Press4	ENG*	[0 to 60000 / 9000 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-102-128	Feed Permit Setting	Timeout:Press14	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-129	Feed Permit Setting	Timeout:Press5	ENG*	[0 to 60000 / * / 1msec] *SP C840DN: 5500 *SP C842DN: 5000
1-102-130	Feed Permit Setting	Timeout:Press6	ENG*	[0 to 60000 / * / 1msec] *SP C840DN: 5500 *SP C842DN: 6000
1-102-131	Feed Permit Setting	Timeout:Press7	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-132	Feed Permit Setting	Timeout: Press: 11	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-133	Feed Permit Setting	Timeout: Press: 15	ENG*	[0 to 60000 / 9000 / 1msec]
1-102-134	Feed Permit Setting	Timeout: Press: 16	ENG*	[0 to 60000 / 9000 / 1msec]
1-105-001	Print Target Temp.	Plain1:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 133 *SP C842DN: 149
1-105-002	Print Target Temp.	Plain1:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 140
1-105-003	Print Target Temp.	Plain1:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 128 *SP C842DN: 144
1-105-004	Print Target Temp.	Plain1:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 120 *SP C842DN: 114
1-105-005	Print Target Temp.	Plain2:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-006	Print Target Temp.	Plain2:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 145
1-105-007	Print Target Temp.	Plain2:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 136 *SP C842DN: 154
1-105-008	Print Target Temp.	Plain2:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 122
1-105-009	Print Target Temp.	Thin:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 128 *SP C842DN: 144
1-105-010	Print Target Temp.	Thin:FC:Press	ENG*	[0 to 200 / 121 / 1deg]
1-105-011	Print Target Temp.	Thin:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 128 *SP C842DN: 144
1-105-012	Print Target Temp.	Thin:BW:Press	ENG*	[0 to 200 / 121 / 1deg]
1-105-013	Print Target Temp.	M-thick:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-014	Print Target Temp.	M-thick:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 142
1-105-015	Print Target Temp.	M-thick:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-016	Print Target Temp.	M-thick:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 142
1-105-017	Print Target Temp.	Thick1:FC:Center	ENG*	[100 to 180 / 141 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-018	Print Target Temp.	Thick1:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-019	Print Target Temp.	Thick1:BW:Center	ENG*	[100 to 180 / 141 / 1deg]
1-105-020	Print Target Temp.	Thick1:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 110
1-105-021	Print Target Temp.	Thick2:FC:Center	ENG*	[100 to 180 / 132 / 1deg]
1-105-022	Print Target Temp.	Thick2:FC:Press	ENG*	[0 to 200 /* / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-023	Print Target Temp.	Thick2:BW:Center	ENG*	[100 to 180 / 132 / 1deg]
1-105-024	Print Target Temp.	Thick2:BW:Press	ENG*	[0 to 200 /* / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-025	Print Target Temp.	Thick3:FC:Center	ENG*	[100 to 180 / 137 / 1deg]
1-105-026	Print Target Temp.	Thick3:FC:Press	ENG*	[0 to 200 /* / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-027	Print Target Temp.	Thick3:BW:Center	ENG*	[100 to 180 / 137 / 1deg]
1-105-028	Print Target Temp.	Thick3:BW:Press	ENG*	[0 to 200 /* / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-029	Print Target Temp.	Special1:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 133 *SP C842DN: 149

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-030	Print Target Temp.	Special1:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 135
1-105-031	Print Target Temp.	Special1:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 128 *SP C842DN: 144
1-105-032	Print Target Temp.	Special1:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 110 *SP C842DN: 112
1-105-033	Print Target Temp.	Special2:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-034	Print Target Temp.	Special2:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 145
1-105-035	Print Target Temp.	Special2:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 136 *SP C842DN: 154
1-105-036	Print Target Temp.	Special2:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 122
1-105-037	Print Target Temp.	Special3:FC:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-038	Print Target Temp.	Special3:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 142
1-105-039	Print Target Temp.	Special3:BW:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-040	Print Target Temp.	Special3:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 142
1-105-041	Print Target Temp.	Envelop:Center	ENG*	[100 to 180 / 142 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-042	Print Target Temp.	Envelop:Press	ENG*	[0 to 200 / 118 / 1deg]
1-105-051	Print Target Temp.	Special1:FC:Center:Middle Speed	ENG*	[100 to 180 / 136 / 1deg]
1-105-052	Print Target Temp.	Special1:FC:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-053	Print Target Temp.	Special1:BW:Center:Middle Speed	ENG*	[100 to 180 / 136 / 1deg]
1-105-054	Print Target Temp.	Special1:BW:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-055	Print Target Temp.	Special2:FC:Center:Middle Speed	ENG*	[100 to 180 / 141 / 1deg]
1-105-056	Print Target Temp.	Special2:FC:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-057	Print Target Temp.	Special2:BW:Center:Middle Speed	ENG*	[100 to 180 / 141 / 1deg]
1-105-058	Print Target Temp.	Special2:BW:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-059	Print Target Temp.	Special3:FC:Center:Middle Speed	ENG*	[100 to 180 / 146 / 1deg]
1-105-060	Print Target Temp.	Special3:FC:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-061	Print Target Temp.	Special3:BW:Center:Middle Speed	ENG*	[100 to 180 / 146 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-062	Print Target Temp.	Special3:BW:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-101	Print Target Temp.	Plain1:FC:Center:Low Speed	ENG*	[100 to 180 / 115 / 1deg]
1-105-102	Print Target Temp.	Plain1:FC:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-103	Print Target Temp.	Plain1:BW:Center:Low Speed	ENG*	[100 to 180 / 115 / 1deg]
1-105-104	Print Target Temp.	Plain1:BW:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-105	Print Target Temp.	Plain2:FC:Center:Low Speed	ENG*	[100 to 180 / 120 / 1deg]
1-105-106	Print Target Temp.	Plain2:FC:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-107	Print Target Temp.	Plain2:BW:Center:Low Speed	ENG*	[100 to 180 / 120 / 1deg]
1-105-108	Print Target Temp.	Plain2:BW:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-109	Print Target Temp.	M-thick:FC:Center:Low Speed	ENG*	[100 to 180 / 122 / 1deg]
1-105-110	Print Target Temp.	M-thick:FC:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-111	Print Target Temp.	M-thick:BW:Center:Low Speed	ENG*	[100 to 180 / 122 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-112	Print Target Temp.	M-thick:BW:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-113	Print Target Temp.	Thick1:FC:Center:Low Speed	ENG*	[100 to 180 / 127 / 1deg]
1-105-114	Print Target Temp.	Thick1:FC:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-115	Print Target Temp.	Thick1:BW:Center:Low Speed	ENG*	[100 to 180 / 127 / 1deg]
1-105-116	Print Target Temp.	Thick1:BW:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-117	Print Target Temp.	Special1:FC:Center:Low Speed	ENG*	[100 to 180 / 122 / 1deg]
1-105-118	Print Target Temp.	Special1:FC:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-119	Print Target Temp.	Special1:BW:Center:Low Speed	ENG*	[100 to 180 / 122 / 1deg]
1-105-120	Print Target Temp.	Special1:BW:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-121	Print Target Temp.	Special2:FC:Center:Low Speed	ENG*	[100 to 180 / 132 / 1deg]
1-105-122	Print Target Temp.	Special2:FC:Press:Low Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-123	Print Target Temp.	Special2:BW:Center:Low Speed	ENG*	[100 to 180 / 132 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-124	Print Target Temp.	Special2:BW:Press:Low Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-125	Print Target Temp.	Plain1:Glossy:Center	ENG*	[100 to 180 / 132 / 1deg]
1-105-126	Print Target Temp.	Plain1:Glossy:Press	ENG*	[0 to 200 / 118 / 1deg]
1-105-127	Print Target Temp.	Plain2:Glossy:Center	ENG*	[100 to 180 / 137 / 1deg]
1-105-128	Print Target Temp.	Plain2:Glossy:Press	ENG*	[0 to 200 / 118 / 1deg]
1-105-129	Print Target Temp.	M-thick:Glossy:Center	ENG*	[100 to 180 / 142 / 1deg]
1-105-130	Print Target Temp.	M-thick:Glossy:Press	ENG*	[0 to 200 / 118 / 1deg]
1-105-131	Print Target Temp.	OHP:Center	ENG*	[100 to 180 / 160 / 1deg]
1-105-132	Print Target Temp.	OHP:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-133	Print Target Temp.	Envelop:Center:Low Speed	ENG*	[100 to 180 / 135 / 1deg]
1-105-134	Print Target Temp.	Envelop:Press:Low Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-135	Print Target Temp.	Thin:FC:Center:Low Speed	ENG*	[100 to 180 / 110 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-136	Print Target Temp.	Thin:FC:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-137	Print Target Temp.	Thin:BW:Center:Low Speed	ENG*	[100 to 180 / 110 / 1deg]
1-105-138	Print Target Temp.	Thin:BW:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-139	Print Target Temp.	Thick4:FC:Center	ENG*	[100 to 180 / 142 / 1deg]
1-105-140	Print Target Temp.	Thick4:FC:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-141	Print Target Temp.	Thick4:BW:Center	ENG*	[100 to 180 / 142 / 1deg]
1-105-142	Print Target Temp.	Thick4:BW:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-143	Print Target Temp.	Postcard:Center	ENG*	[100 to 180 / 124 / 1deg]
1-105-144	Print Target Temp.	Postcard:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-145	Print Target Temp.	Special3:FC:Center:Middle Speed	ENG*	[100 to 180 / 142 / 1deg]
1-105-146	Print Target Temp.	Special3:FC:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-147	Print Target Temp.	Special3:BW:Center:Middle Speed	ENG*	[100 to 180 / 142 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-148	Print Target Temp.	Special3:BW:Press:Middle Speed	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-149	Print Target Temp.	Mid Thick:Matte:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-150	Print Target Temp.	Mid Thick:Matte:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 142
1-105-151	Print Target Temp.	Thick1:Matte:Center	ENG*	[100 to 180 / 141 / 1deg]
1-105-152	Print Target Temp.	Thick1:Matte:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-153	Print Target Temp.	Thick2:Matte:Center	ENG*	[100 to 180 / 132 / 1deg]
1-105-154	Print Target Temp.	Thick2:Matte:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-155	Print Target Temp.	Thick3:Matte:Center	ENG*	[100 to 180 / 137 / 1deg]
1-105-156	Print Target Temp.	Thick3:Matte:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-157	Print Target Temp.	Thick4:Matte:Center	ENG*	[100 to 180 / 142 / 1deg]
1-105-158	Print Target Temp.	Thick4:Matte:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-159	Print Target Temp.	Mid Thick:Matte:Center:Low Speed	ENG*	[100 to 180 / 122 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-160	Print Target Temp.	Mid Thick:Matte:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-161	Print Target Temp.	Thick1:Matte:Center:Low Speed	ENG*	[100 to 180 / 127 / 1deg]
1-105-162	Print Target Temp.	Thick1:Matte:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-163	Print Target Temp.	Mid Thick:Glossy:Center	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-105-164	Print Target Temp.	Mid Thick:Glossy:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 118 *SP C842DN: 142
1-105-165	Print Target Temp.	Thick1:Glossy:Center	ENG*	[100 to 180 / 141 / 1deg]
1-105-166	Print Target Temp.	Thick1:Glossy:Press	ENG*	[100 to 180 / * / 1deg] *SP C840DN: 119 *SP C842DN: 101
1-105-167	Print Target Temp.	Thick2:Glossy:Center	ENG*	[100 to 180 / 132 / 1deg]
1-105-168	Print Target Temp.	Thick2:Glossy:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-169	Print Target Temp.	Thick3:Glossy:Center	ENG*	[100 to 180 / 137 / 1deg]
1-105-170	Print Target Temp.	Thick3:Glossy:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 98 *SP C842DN: 80
1-105-171	Print Target Temp.	Thick4:Glossy:Center	ENG*	[100 to 180 / 142 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-172	Print Target Temp.	Thick4:Glossy:Press	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 96 *SP C842DN: 78
1-105-173	Print Target Temp.	Mid Thick:Glossy:Center:Low Speed	ENG*	[100 to 180 / 122 / 1deg]
1-105-174	Print Target Temp.	Mid Thick:Glossy:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-105-175	Print Target Temp.	Thick1:Glossy:Center:Low Speed	ENG*	[100 to 180 / 127 / 1deg]
1-105-176	Print Target Temp.	Thick1:Glossy:Press:Low Speed	ENG*	[0 to 200 / 118 / 1deg]
1-106-001	Fusing Temp. Display	Heat Center	ENG	[-10 to 250 / 0 / 1deg]
1-106-002	Fusing Temp. Display	Heat End	ENG	[-10 to 250 / 0 / 1deg]
1-106-003	Fusing Temp. Display	Press Center	ENG	[-10 to 250 / 0 / 1deg]
1-106-004	Fusing Temp. Display	Press End	ENG	[-10 to 250 / 0 / 1deg]
1-106-005	Fusing Temp. Display	Press End	ENG	[-10 to 250 / 0 / 1deg]
1-107-001	Standby Target Temp. Setting	Stanby/Preheat1:Center	ENG*	[0 to 125 / 90 / 1deg]
1-107-003	Standby Target Temp. Setting	Preheat2:Center	ENG*	[0 to 200 / 90 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-107-005	Standby Target Temp. Setting	Low Power:Center	ENG*	[0 to 125 / 60 / 1deg]
1-107-007	Standby Target Temp. Setting	Print Ready:Center	ENG*	[85 to 180 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-107-008	Standby Target Temp. Setting	Print Ready:Press	ENG*	[0 to 200 / 120 / 1deg]
1-107-011	Standby Target Temp. Setting	Standby Heater Off Time	ENG*	[0 to 100 / 0 / 1sec]
1-108-001	After Reload/Job Target Temp.	Center	ENG*	[85 to 200 / * / 1deg] *SP C840DN: 141 *SP C842DN: 159
1-108-002	After Reload/Job Target Temp.	Press	ENG*	[0 to 200 / 120 / 1deg]
1-108-011	After Reload/Job Target Temp.	Center:Energy Saving	ENG*	[85 to 200 / * / 1deg] *SP C840DN (NA/TWN): 124 *SP C840DN (EU/AP/CHN): 125 *SP C842DN (NA/TWN): 140 *SP C842DN (EU/AP/CHN): 138
1-108-012	After Reload/Job Target Temp.	Press:Energy Saving	ENG*	[0 to 200 / 120 / 1deg]
1-111-001	Environment Correction:Fusing	Temp.: Threshold: Low	ENG*	[0 to 100 / 15 / 1deg]
1-111-002	Environment Correction:Fusing	Temp.: Threshold: High	ENG*	[0 to 100 / 30 / 1deg]
1-	Environment	Low Temp. Correction	ENG*	[0 to 15 / 15 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
111-003	Correction:Fusing			
1-111-004	Environment Correction:Fusing	High Temp. Correction	ENG*	[0 to 15 / 0 / 1deg]
1-111-005	Environment Correction:Fusing	Job Low Temp. Correction	ENG*	[0 to 100 / 150 / 0.1deg]
1-111-006	Environment Correction:Fusing	Job High Temp. Correction	ENG*	[0 to 100 / 0 / 0.1deg]
1-111-007	Environment Correction:Fusing	Job Low Temp. Correction:Sp.	ENG*	[0 to 100 / 150 / 0.1deg]
1-111-008	Environment Correction:Fusing	Job High Temp. Correction:Sp.	ENG*	[0 to 100 / 0 / 0.1deg]
1-111-011	Environment Correction:Fusing	Standard Environment Temp.	ENG*	[10 to 30 / 23 / 1deg]
1-112-001	Image Processing Temp. Correct	Temp.:Plain:Center:Level1/2	ENG*	[-20 to 20 / 0 / 1deg]
1-112-002	Image Processing Temp. Correct	Temp.:Plain:Center:Energy Saving	ENG*	[-30 to 20 / * / 1deg] *SP C840DN (NA/TWN): -12 *SP C840DN (EU/AP/CHN): -11 *SP C842DN (NA/TWN): -14 *SP C842DN (EU/AP/CHN): -16
1-113-001	Curl Correction	Execute Pattern	ENG*	[0 to 2 / 0 / 1] 0: OFF 1: ON (No Decurl) 2: ON
1-	Curl Correction	Humidity:Threshold:M-humid	ENG*	[0 to 100 / 1 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
113-002				
1-113-003	Curl Correction	Humidity:Threshold:H-humid	ENG*	[0 to 100 / 65 / 1%]
1-113-004	Curl Correction	Permit Temp.:Delta:Press:M-humid	ENG*	[0 to 200 / 40 / 1deg]
1-113-005	Curl Correction	Permit Temp.:Delta:Press:H-humid	ENG*	[0 to 200 / 30 / 1deg]
1-113-006	Curl Correction	Permit Temp.:Delta:Press:M-humid:No Decurl	ENG*	[0 to 200 / 30 / 1deg]
1-113-007	Curl Correction	Permit Temp.:Delta:Press:H-humid:No Decurl	ENG*	[0 to 200 / 20 / 1deg]
1-113-008	Curl Correction	CPM:M-humid	ENG*	[0 to 100 / 80 / 1%]
1-113-009	Curl Correction	CPM:H-humid	ENG*	[0 to 100 / 65 / 1%]
1-113-010	Curl Correction	CPM:M-humid:No Decurl	ENG*	[0 to 100 / 80 / 1%]
1-113-011	Curl Correction	CPM:H-humid:No Decurl	ENG*	[0 to 100 / 65 / 1%]
1-114-001	Heat Storage Status	Temp.:Threshold:Press	ENG*	[0 to 200 / 80 / 1deg]
1-114-002	Heat Storage Status	Temp.Threshold:Atmosphere	ENG*	[0 to 200 / * / 1deg] *SP C840DN: 0 *SP C842DN: 42
1-	Heat Storage Status	Temp.:Threshold:CPM Down	ENG*	[0 to 200 / 60 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
114-003				
1-114-004	Heat Storage Status	Temp.:Threshold:Voltage Detection	ENG*	[0 to 200 / 40 / 1deg]
1-115-001	Target Temp. Correction	Temp.:Delta:End	ENG*	[-100 to 100 / 0 / 1deg]
1-116-001	Heat Storage FB Control	Execution mode	ENG*	[0 to 2 / 2 / 1] 0: OFF 1: ON (BW) 2: ON(BW/FC)
1-116-002	Heat Storage FB Control	Correction Formula Judge Temp	ENG*	[0 to 200 / 97 / 1deg]
1-116-003	Heat Storage FB Control	Heat Gap Correction Temp	ENG*	[0 to 200 / 0 / 1deg]
1-116-011	Heat Storage FB Control	Time Out	ENG*	[0 to 500 / 10 / 1sec]
1-116-012	Heat Storage FB Control	Time Out:Energy Saving	ENG*	[0 to 500 / 10 / 1sec]
1-116-021	Heat Storage FB Control	Delay:Standard Speed:FC:1	ENG*	[0 to 20000 /* / 1msec] *SP C840DN: 2810 *SP C842DN: 2050
1-116-022	Heat Storage FB Control	Delay:Standard Speed:BW:1	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 1040 *SP C842DN: 760
1-116-023	Heat Storage FB Control	Delay:Mid. Speed:FC:1	ENG*	[0 to 20000 / 3590 / 1msec]
1-116-024	Heat Storage FB Control	Delay:Mid. Speed:BW:1	ENG*	[0 to 20000 / 1320 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-116-025	Heat Storage FB Control	Delay:Low Speed:FC:1	ENG*	[0 to 20000 / 7180 / 1msec]
1-116-026	Heat Storage FB Control	Delay:Low Speed:BW:1	ENG*	[0 to 20000 / 2640 / 1msec]
1-116-031	Heat Storage FB Control	Delay:Standard Speed:FC:2	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 2810 *SP C842DN: 2050
1-116-032	Heat Storage FB Control	Delay:Standard Speed:BW:2	ENG*	[0 to 20000 / * / 1msec] *SP C840DN: 1040 *SP C842DN: 760
1-116-033	Heat Storage FB Control	Delay:Mid. Speed:FC:2	ENG*	[0 to 20000 / 3590 / 1msec]
1-116-034	Heat Storage FB Control	Delay:Mid. Speed:BW:2	ENG*	[0 to 20000 / 1320 / 1msec]
1-116-035	Heat Storage FB Control	Delay:Low Speed:FC:2	ENG*	[0 to 20000 / 7180 / 1msec]
1-116-036	Heat Storage FB Control	Delay:Low Speed:BW:2	ENG*	[0 to 20000 / 2640 / 1msec]
1-116-041	Heat Storage FB Control	Press Reference Temp.	ENG*	[0 to 200 / 80 / 1deg]
1-116-042	Heat Storage FB Control	Temp. Correction Lower Limit	ENG*	[-30 to 0 / 0 / 1deg]
1-116-043	Heat Storage FB Control	Temp. Correction Upper Limit	ENG*	[0 to 30 / 3 / 1deg]
1-116-044	Heat Storage FB Control	Press Reference Temp.:Energy Saving	ENG*	[0 to 200 / 75 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-116-045	Heat Storage FB Control	Temp. Corr. Lower Limit:Energy Saving	ENG*	[-30 to 0 / -1 / 1deg]
1-116-046	Heat Storage FB Control	Temp. Corr. Upper Limit:Energy Saving	ENG*	[0 to 30 / 0 / 1deg]
1-116-051	Heat Storage FB Control	Paper Thickness Coefficient:Plain1	ENG*	[-100 to 100 / 0 / 1]
1-116-052	Heat Storage FB Control	Paper Thickness Coefficient:Plain2	ENG*	[-100 to 100 / 0 / 1]
1-116-053	Heat Storage FB Control	Paper Thickness Coeff.:Thin	ENG*	[-100 to 100 / 0 / 1]
1-116-054	Heat Storage FB Control	Paper Thickness Coeff.:M-thick	ENG*	[-100 to 100 / 0 / 1]
1-116-073	Heat Storage FB Control	Paper Thickness Coeff.:Low Speed	ENG*	[-100 to 100 / 0 / 1]
1-116-074	Heat Storage FB Control	Paper Thickness Coeff.:Plain1/2:Energy Save	ENG*	[-100 to 100 / 0 / 1]
1-117-001	Repeat Temp. Correction	Control Time 1:A3	ENG*	[0 to 300 / 0 / 1sec]
1-117-002	Repeat Temp. Correction	Control Time 2:A3	ENG*	[0 to 300 / 0 / 1sec]
1-117-003	Repeat Temp. Correction	Temp.:Center:1:A3	ENG*	[-30 to 30 / 0 / 1deg]
1-117-004	Repeat Temp. Correction	Temp.:End:1:A3	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-117-005	Repeat Temp. Correction	Temp.:Center:2:A3	ENG*	[-30 to 30 / 0 / 1deg]
1-117-006	Repeat Temp. Correction	Temp.:End:2:A3	ENG*	[-30 to 30 / 0 / 1deg]
1-117-011	Repeat Temp. Correction	Control Time 1:DLT	ENG*	[0 to 300 / * / 1sec] *SP C840DN: 40 *SP C842DN: 30
1-117-012	Repeat Temp. Correction	Control Time 2:DLT	ENG*	[0 to 300 / * / 1sec] *SP C840DN: 40 *SP C842DN: 30
1-117-013	Repeat Temp. Correction	Temp.:Center:1:DLT	ENG*	[-30 to 30 / 0 / 1deg]
1-117-014	Repeat Temp. Correction	Temp.:End:1:DLT	ENG*	[-30 to 30 / * / 1deg] *SP C840DN: 0 *SP C842DN: -1
1-117-015	Repeat Temp. Correction	Temp.:Center:2:DLT	ENG*	[-30 to 30 / 0 / 1deg]
1-117-016	Repeat Temp. Correction	Temp.:End:2:DLT	ENG*	[-30 to 30 / * / 1deg] *SP C840DN: 0 *SP C842DN: -1
1-117-021	Repeat Temp. Correction	Control Time 1:B4	ENG*	[0 to 300 / 0 / 1sec]
1-117-022	Repeat Temp. Correction	Control Time 2:B4	ENG*	[0 to 300 / * / 1sec] *SP C840DN: 7 *SP C842DN: 5
1-117-023	Repeat Temp. Correction	Temp.:Center:1:B4	ENG*	[-30 to 30 / 0 / 1deg]
1-117-024	Repeat Temp. Correction	Temp.:End:1:B4	ENG*	[-30 to 30 / 25 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-117-025	Repeat Temp. Correction	Temp.:Center:2:B4	ENG*	[-30 to 30 / 0 / 1deg]
1-117-026	Repeat Temp. Correction	Temp.:End:2:B4	ENG*	[-30 to 30 / 25 / 1deg]
1-117-031	Repeat Temp. Correction	Control Time 1:LT	ENG*	[0 to 300 / 0 / 1sec]
1-117-032	Repeat Temp. Correction	Control Time 2:LT	ENG*	[0 to 300 / 0 / 1sec]
1-117-033	Repeat Temp. Correction	Temp.:Center:1:LT	ENG*	[-30 to 30 / 6 / 1deg]
1-117-034	Repeat Temp. Correction	Temp.:End:1:LT	ENG*	[-30 to 30 / 21 / 1deg]
1-117-035	Repeat Temp. Correction	Temp.:Center:2:LT	ENG*	[-30 to 30 / 6 / 1deg]
1-117-036	Repeat Temp. Correction	Temp.:End:2:LT	ENG*	[-30 to 30 / 21 / 1deg]
1-117-041	Repeat Temp. Correction	Control Time 1:Energy Saving	ENG*	[0 to 300 / 0 / 1sec]
1-117-042	Repeat Temp. Correction	Control Time 2:Energy Saving	ENG*	[0 to 300 / * / 1sec] *SP C840DN (NA/TWN): 60 *SP C840DN (EU/AP/CHN): 50 *SP C842DN (NA/TWN): 60 *SP C842DN (EU/AP/CHN): 30
1-	Repeat Temp.	Temp.:Center:1:Energy Saving	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
117-043	Correction			
1-117-044	Repeat Temp. Correction	Temp.:End:1:Energy Saving	ENG*	[-30 to 30 / * / 1deg] *SP C840DN (NA/TWN): 1 *SP C840DN (EU/AP/CHN): 2 *SP C842DN (NA/TWN): 0 *SP C842DN (EU/AP/CHN): 2
1-117-045	Repeat Temp. Correction	Temp.:Center:2:Energy Saving	ENG*	[-30 to 30 / 3 / 1deg]
1-117-046	Repeat Temp. Correction	Temp.:End:2:Energy Saving	ENG*	[-30 to 30 / * / 1deg] *SP C840DN (NA/TWN): 4 *SP C840DN (EU/AP/CHN): 5 *SP C842DN (NA/TWN): 3 *SP C842DN (EU/AP/CHN): 5
1-117-051	Repeat Temp. Correction	Control Time 1:A4	ENG*	[0 to 300 / 0 / 1sec]
1-117-052	Repeat Temp. Correction	Control Time 2:A4	ENG*	[0 to 300 / 120 / 1sec]
1-117-053	Repeat Temp. Correction	Temp.:Center:1:A4	ENG*	[-30 to 30 / 0 / 1deg]
1-117-054	Repeat Temp. Correction	Temp.:End:1:A4	ENG*	[-30 to 30 / 21 / 1deg]
1-117-	Repeat Temp. Correction	Temp.:Center:2:A4	ENG*	[-30 to 30 / 6 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
055				
1-117-056	Repeat Temp. Correction	Temp.:End:2:A4	ENG*	[-30 to 30 / -30 / 1deg]
1-117-061	Repeat Temp. Correction	Control Time 1:A3:M-thick	ENG*	[0 to 300 / 0 / 1sec]
1-117-062	Repeat Temp. Correction	Control Time 2:A3:M-thick	ENG*	[0 to 300 / 0 / 1sec]
1-117-063	Repeat Temp. Correction	Temp.:Center:1:A3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-064	Repeat Temp. Correction	Temp.:End:1:A3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-065	Repeat Temp. Correction	Temp.:Center:2:A3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-066	Repeat Temp. Correction	Temp.:End:2:A3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-071	Repeat Temp. Correction	Control Time 1:DLT:M-thick	ENG*	[0 to 300 / */ 1sec] *SP C840DN: 40 *SP C842DN: 30
1-117-072	Repeat Temp. Correction	Control Time 2:DLT:M-thick	ENG*	[0 to 300 / */ 1sec] *SP C840DN: 40 *SP C842DN: 30
1-117-073	Repeat Temp. Correction	Temp.:Center:1:DLT:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-074	Repeat Temp. Correction	Temp.:End:1:DLT:M-thick	ENG*	[-30 to 30 / * / 1deg] *SP C840DN: 0 *SP C842DN: -1
1-117-	Repeat Temp. Correction	Temp.:Center:2:DLT:M-thick	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
075				
1-117-076	Repeat Temp. Correction	Temp.:End:2:DLT:M-thick	ENG*	[-30 to 30 / * / 1deg] *SP C840DN: 0 *SP C842DN: -1
1-117-081	Repeat Temp. Correction	Control Time 1:Envelope:Long	ENG*	[0 to 300 / 0 / 1sec]
1-117-082	Repeat Temp. Correction	Control Time 2:Envelope:Long	ENG*	[0 to 300 / 0 / 1sec]
1-117-083	Repeat Temp. Correction	Temp.:Center:1:Envelope:Long	ENG*	[-30 to 30 / 0 / 1deg]
1-117-084	Repeat Temp. Correction	Temp.:End:1:Envelope:Long	ENG*	[-30 to 30 / 10 / 1deg]
1-117-085	Repeat Temp. Correction	Temp.:Center:2:Envelope:Long	ENG*	[-30 to 30 / 0 / 1deg]
1-117-086	Repeat Temp. Correction	Temp.:End:2:Envelope:Long	ENG*	[-30 to 30 / 10 / 1deg]
1-117-091	Repeat Temp. Correction	Control Time 1:Envelope:Short	ENG*	[0 to 300 / 0 / 1sec]
1-117-092	Repeat Temp. Correction	Control Time 2:Envelope:Short	ENG*	[0 to 300 / 0 / 1sec]
1-117-093	Repeat Temp. Correction	Temp.:Center:1:Envelope:Short	ENG*	[-30 to 30 / 0 / 1deg]
1-117-094	Repeat Temp. Correction	Temp.:End:1:Envelope:Short	ENG*	[-30 to 30 / 0 / 1deg]
1-117-	Repeat Temp. Correction	Temp.:Center:2:Envelope:Short	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
095				
1-117-096	Repeat Temp. Correction	Temp.:End:2:Envelope:Short	ENG*	[-30 to 30 / 0 / 1deg]
1-117-101	Repeat Temp. Correction	Control Time 1:B5	ENG*	[0 to 300 / 0 / 1sec]
1-117-102	Repeat Temp. Correction	Control Time 2:B5	ENG*	[0 to 300 / 120 / 1sec]
1-117-103	Repeat Temp. Correction	Temp.:Center:1:B5	ENG*	[-30 to 30 / -5 / 1deg]
1-117-104	Repeat Temp. Correction	Temp.:End:1:B5	ENG*	[-125 to 30 / -125 / 1deg]
1-117-105	Repeat Temp. Correction	Temp.:Center:2:B5	ENG*	[-30 to 30 / -7 / 1deg]
1-117-106	Repeat Temp. Correction	Temp.:End:2:B5	ENG*	[-125 to 30 / -125 / 1deg]
1-117-111	Repeat Temp. Correction	Control Time 1:12inch	ENG*	[0 to 300 / 0 / 1sec]
1-117-112	Repeat Temp. Correction	Control Time 2:12inch	ENG*	[0 to 300 / 0 / 1sec]
1-117-113	Repeat Temp. Correction	Temp.:Center:1:12inch	ENG*	[-30 to 30 / 0 / 1deg]
1-117-114	Repeat Temp. Correction	Temp.:End:1:12inch	ENG*	[-30 to 30 / 0 / 1deg]
1-117-	Repeat Temp. Correction	Temp.:Center:2:12inch	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
115				
1-117-116	Repeat Temp. Correction	Temp.:End:2:12inch	ENG*	[-30 to 30 / 0 / 1deg]
1-117-121	Repeat Temp. Correction	Control Time 1:12inch:M-thick	ENG*	[0 to 300 / 0 / 1sec]
1-117-122	Repeat Temp. Correction	Control Time 2:12inch:M-thick	ENG*	[0 to 300 / 0 / 1sec]
1-117-123	Repeat Temp. Correction	Temp.:Center:1:12inch:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-124	Repeat Temp. Correction	Temp.:End:1:12inch:M-thick	ENG*	[-30 to 30 / 4 / 1deg]
1-117-125	Repeat Temp. Correction	Temp.:Center:2:12inch:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-117-126	Repeat Temp. Correction	Temp.:End:2:12inch:M-thick	ENG*	[-30 to 30 / 4 / 1deg]
1-117-131	Repeat Temp. Correction	Control Time 1:SRA3	ENG*	[0 to 300 / 0 / 1sec]
1-117-132	Repeat Temp. Correction	Control Time 2:SRA3	ENG*	[0 to 300 / 8 / 1sec]
1-117-133	Repeat Temp. Correction	Temp.:Center:1:SRA3	ENG*	[-30 to 30 / 0 / 1deg]
1-117-134	Repeat Temp. Correction	Temp.:End:1:SRA3	ENG*	[-30 to 30 / 20 / 1deg]
1-117-	Repeat Temp. Correction	Temp.:Center:2:SRA3	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
135				
1-117-136	Repeat Temp. Correction	Temp.:End:2:SRA3	ENG*	[-30 to 30 / 15 / 1deg]
1-117-141	Repeat Temp. Correction	Control Time 1:SRA3:M-thick	ENG*	[0 to 300 / 0 / 1sec]
1-117-142	Repeat Temp. Correction	Control Time 2:SRA3:M-thick	ENG*	[0 to 300 / 8 / 1sec]
1-117-143	Repeat Temp. Correction	Temp.:Center:1:SRA3:M-thick	ENG*	[-30 to 30 / 5 / 1deg]
1-117-144	Repeat Temp. Correction	Temp.:End:1:SRA3:M-thick	ENG*	[-30 to 30 / 20 / 1deg]
1-117-145	Repeat Temp. Correction	Temp.:Center:2:SRA3:M-thick	ENG*	[-30 to 30 / 5 / 1deg]
1-117-146	Repeat Temp. Correction	Temp.:End:2:SRA3:M-thick	ENG*	[-30 to 30 / 15 / 1deg]
1-117-151	Repeat Temp. Correction	Control Time 1:A3:Low	ENG*	[0 to 300 / 0 / 1sec]
1-117-152	Repeat Temp. Correction	Control Time 2:A3:Low	ENG*	[0 to 300 / 12 / 1sec]
1-117-153	Repeat Temp. Correction	Temp.:Center:1:A3:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-117-154	Repeat Temp. Correction	Temp.:End:1:A3:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-117-	Repeat Temp. Correction	Temp.:Center:2:A3:Low	ENG*	[-30 to 30 / 3 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
155				
1-117-156	Repeat Temp. Correction	Temp.:End:2:A3:Low	ENG*	[-30 to 30 / 3 / 1deg]
1-117-161	Repeat Temp. Correction	Control Time 1:DLT:Low	ENG*	[0 to 300 / 0 / 1sec]
1-117-162	Repeat Temp. Correction	Control Time 2:DLT:Low	ENG*	[0 to 300 / 12 / 1sec]
1-117-163	Repeat Temp. Correction	Temp.:Center:1:DLT:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-117-164	Repeat Temp. Correction	Temp.:End:1:DLT:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-117-165	Repeat Temp. Correction	Temp.:Center:2:DLT:Low	ENG*	[-30 to 30 / 3 / 1deg]
1-117-166	Repeat Temp. Correction	Temp.:End:2:DLT:Low	ENG*	[-30 to 30 / 3 / 1deg]
1-117-171	Repeat Temp. Correction	Control Time 1:A4LEF	ENG*	[0 to 300 / 0 / 1sec]
1-117-172	Repeat Temp. Correction	Control Time 2:A4LEF	ENG*	[0 to 300 / 0 / 1sec]
1-117-173	Repeat Temp. Correction	Temp.:Center:1:A4LEF	ENG*	[-30 to 30 / 0 / 1deg]
1-117-174	Repeat Temp. Correction	Temp.:End:1:A4LEF	ENG*	[-30 to 30 / 0 / 1deg]
1-117-	Repeat Temp. Correction	Temp.:Center:2:A4LEF	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
175				
1-117-176	Repeat Temp. Correction	Temp.:End:2:A4LEF	ENG*	[-30 to 30 / 0 / 1deg]
1-118-001	Before Job Temp. Correct	Temp.:Center:12inch	ENG*	[-30 to 30 / 0 / 1deg]
1-118-002	Before Job Temp. Correct	Temp.:End:12inch	ENG*	[-30 to 30 / 0 / 1deg]
1-118-003	Before Job Temp. Correct	Temp.:Center:A3	ENG*	[-30 to 30 / 0 / 1deg]
1-118-004	Before Job Temp. Correct	Temp.:End:A3	ENG*	[-30 to 30 / 0 / 1deg]
1-118-005	Before Job Temp. Correct	Temp.:Center:DLT	ENG*	[-30 to 30 / 0 / 1deg]
1-118-006	Before Job Temp. Correct	Temp.:End:DLT	ENG*	[-30 to 30 / 0 / 1deg]
1-118-007	Before Job Temp. Correct	Temp.:Center:SRA3	ENG*	[-30 to 30 / 0 / 1deg]
1-118-008	Before Job Temp. Correct	Temp.:End:SRA3	ENG*	[-30 to 30 / 20 / 1deg]
1-118-011	Before Job Temp. Correct	Temp.:Center:12inch:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-012	Before Job Temp. Correct	Temp.:End:12inch:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-	Before Job Temp. Correct	Temp.:Center:A3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
1-118-014	Before Job Temp. Correct	Temp.:End:A3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-015	Before Job Temp. Correct	Temp.:Center:DLT:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-016	Before Job Temp. Correct	Temp.:End:DLT:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-017	Before Job Temp. Correct	Temp.:Center:SRA3:M-thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-018	Before Job Temp. Correct	Temp.:End:SRA3:M-thick	ENG*	[-30 to 30 / 20 / 1deg]
1-118-021	Before Job Temp. Correct	Temp.:Center:12inch:Thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-022	Before Job Temp. Correct	Temp.:End:12inch:Thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-023	Before Job Temp. Correct	Temp.:Center:A3:Thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-024	Before Job Temp. Correct	Temp.:End:A3:Thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-025	Before Job Temp. Correct	Temp.:Center:DLT:Thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-026	Before Job Temp. Correct	Temp.:End:DLT:Thick	ENG*	[-30 to 30 / 0 / 1deg]
1-118-	Before Job Temp. Correct	Temp.:Center:SRA3:Thick	ENG*	[-30 to 30 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
027				
1-118-028	Before Job Temp. Correct	Temp.:End:SRA3:Thick	ENG*	[-30 to 30 / 10 / 1deg]
1-120-001	Reserve SP	Recovery mode SW:Low Temp	ENG*	[0 to 1 / 0 / 1deg]
1-120-002	Reserve SP	Recovery mode SW:Voltage:Low	ENG*	[0 to 1 / 0 / 1deg]
1-120-003	Reserve SP	UC3	ENG*	[0 to 255 / 0 / 1deg]
1-120-004	Reserve SP	UC4	ENG*	[0 to 255 / 0 / 1deg]
1-120-005	Reserve SP	Ini. CPM Down Time:High Power	ENG*	[0 to 255 / 2 / 1sec]
1-120-006	Reserve SP	Ini. CPM Down Time:Mid.Power	ENG*	[0 to 255 / 2 / 1sec]
1-120-007	Reserve SP	Ini. CPM Down Time:Voltage:Low	ENG*	[0 to 255 / 2 / 1sec]
1-120-008	Reserve SP	Ini. CPM Down Time:Low Temp	ENG*	[0 to 255 / 2 / 1sec]
1-120-009	Reserve SP	Temp.:Center:3:DLT:Voltage:Low	ENG*	[0 to 30 / 0 / 1deg]
1-120-010	Reserve SP	Temp.:End:3:DLT:Voltage:Low	ENG*	[0 to 30 / 0 / 1deg]
1-120-	Reserve SP	Control Time 1:DLT:Voltage:Low	ENG*	[0 to 300 / 0 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
1-120-012	Reserve SP	Control Time 2:DLT:Voltage:Low	ENG*	[0 to 300 / 12 / 1sec]
1-120-013	Reserve SP	Control Time 3:DLT:Voltage:Low	ENG*	[0 to 300 / 10 / 1sec]
1-120-014	Reserve SP	Control Time 1:DLT:Voltage:Low	ENG*	[0 to 300 / 0 / 1sec]
1-120-015	Reserve SP	Control Time 2:DLT:Voltage:Low	ENG*	[0 to 300 / 12 / 1sec]
1-120-016	Reserve SP	Control Time 3:DLT:Voltage:Low	ENG*	[0 to 300 / 10 / 1sec]
1-120-017	Reserve SP	UW7	ENG*	[0 to 60000 / 0 / 1msec]
1-120-018	Reserve SP	UW8	ENG*	[0 to 60000 / 0 / 1msec]
1-120-019	Reserve SP	Temp.:End:2:DLT:Voltage:Low	ENG*	[0 to 1 / 0 / 0.01sec]
1-120-020	Reserve SP	Temp.:Center:3:DLT:Voltage:Low	ENG*	[0 to 1 / 0 / 0.01sec]
1-120-021	Reserve SP	Temp.:Center:1:DLT:Voltage:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-120-022	Reserve SP	Temp.:End:1:DLT:Voltage:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-120-	Reserve SP	Temp.:Center:2:DLT:Voltage:Low	ENG*	[-30 to 30 / 3 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
023				
1-120-024	Reserve SP	Temp.:End:2:DLT:Voltage:Low	ENG*	[-30 to 30 / 3 / 1deg]
1-120-025	Reserve SP	Temp.:Center:3:DLT:Voltage:Low	ENG*	[-30 to 30 / 0 / 1deg]
1-120-026	Reserve SP	Temp.:End:3:DLT:Voltage:Low	ENG*	[-30 to 30 / 0 / 1deg]
1-120-027	Reserve SP	Temp.:Center:1:DLT:Voltage:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-120-028	Reserve SP	Temp.:End:1:DLT:Voltage:Low	ENG*	[-30 to 30 / 5 / 1deg]
1-120-029	Reserve SP	Temp.:Center:2:DLT:Voltage:Low	ENG*	[-30 to 30 / 3 / 1deg]
1-120-030	Reserve SP	Temp.:End:2:DLT:Voltage:Low	ENG*	[-30 to 30 / 3 / 1deg]
1-121-001	Switch:Rotation Start/Stop	Time:After Reload	ENG*	[0 to 100 / 30 / 1sec]
1-121-002	Switch:Rotation Start/Stop	Time:After Recovery	ENG*	[0 to 100 / 15 / 1sec]
1-121-004	Switch:Rotation Start/Stop	Press Temp.:After Reload	ENG*	[0 to 160 / 160 / 1deg]
1-121-005	Switch:Rotation Start/Stop	End Temp.:After Job:SRA3	ENG*	[100 to 250 / 200 / 1deg]
1-121-	Switch:Rotation Start/Stop	ShiftTemp:After Job:PressEdge:A3	ENG*	[100 to 250 / 200 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
006				
1-121-007	Switch:Rotation Start/Stop	ShiftTemp:After Job:PressEdge:DLT	ENG*	[100 to 250 / 200 / 1deg]
1-121-008	Switch:Rotation Start/Stop	Overshoot Prevent Temp.	ENG*	[0 to 250 / * / 1deg] *SP C840DN: 195 *SP C842DN: 200
1-121-009	Switch:Rotation Start/Stop	Overshoot Prevent Time	ENG*	[0 to 100 / 10 / 1sec]
1-121-010	Switch:Rotation Start/Stop	End Temp.:After Job:B4	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 153 *SP C842DN: 162
1-121-011	Switch:Rotation Start/Stop	End Temp.:After Job:LT	ENG*	[100 to 250 / 170 / 1deg]
1-121-012	Switch:Rotation Start/Stop	End Temp.:After Job:B5	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 162 *SP C842DN: 170
1-121-013	Switch:Rotation Start/Stop	End Temp.:After Job:A5	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 155 *SP C842DN: 165
1-121-014	Switch:Rotation Start/Stop	End Temp.:After Job:B6	ENG*	[100 to 250 / 165 / 1deg]
1-121-015	Switch:Rotation Start/Stop	ShiftTemp:FC:After Job:PressCenter:A6	ENG*	[100 to 250 / 160 / 1deg]
1-121-016	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressFl-B_Edge:SRA3	ENG*	[100 to 250 / 200 / 1deg]
1-121-017	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressEdge:A3	ENG*	[100 to 250 / 200 / 1deg]
1-121-	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressEdge:DLT	ENG*	[100 to 250 / 200 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
018				
1-121-019	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressEdge:B4	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 158 *SP C842DN: 167
1-121-020	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:FusingEdge:LT	ENG*	[100 to 250 / 175 / 1deg]
1-121-021	Switch:Rotation Start/Stop	Time:After Main Switch On	ENG*	[0 to 100 / 30 / 1sec]
1-121-022	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressCenter:B5	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 162 *SP C842DN: 175
1-121-023	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressCenter:A5	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 160 *SP C842DN: 168
1-121-024	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressCenter:B6	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 140 *SP C842DN: 130
1-121-025	Switch:Rotation Start/Stop	ShiftTemp:Bk:After Job:PressCenter:A6	ENG*	[100 to 250 / * / 1deg] *SP C840DN: 140 *SP C842DN: 130
1-121-031	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:A3	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-032	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:A3	ENG*	[0 to 180 / 0 / 1sec]
1-121-033	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:DLT	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-034	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:DLT	ENG*	[0 to 100 / 0 / 1sec]
1-121-	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:B4	ENG*	[0 to 10000 / 50 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
035				
1-121-036	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:B4	ENG*	[0 to 100 / 10 / 1sec]
1-121-037	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:LT	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-038	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:LT	ENG*	[0 to 100 / 0 / 1sec]
1-121-039	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:B5	ENG*	[0 to 10000 / 45 / 1sec]
1-121-040	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:B5	ENG*	[0 to 100 / 10 / 1sec]
1-121-041	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:A5	ENG*	[0 to 10000 / 20 / 1sec]
1-121-042	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:A5	ENG*	[0 to 100 / * / 1sec] *SP C840DN (NA/TWN): 20 *SP C840DN (EU/AP/CHN): 60 *SP C842DN (NA/TWN): 20 *SP C842DN (EU/AP/CHN): 60
1-121-043	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:B6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN (NA/TWN): 70 *SP C840DN (EU/AP/CHN): 40 *SP C842DN (NA/TWN): 70 *SP C842DN (EU/AP/CHN): 40

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-121-044	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:B6	ENG*	[0 to 100 / 30 / 1sec]
1-121-045	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:FC:A6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN (NA/TWN): 70 *SP C840DN (EU/AP/CHN): 40 *SP C842DN (NA/TWN): 70 *SP C842DN (EU/AP/CHN): 40
1-121-046	Switch:Rotation Start/Stop	Soaking Rotary Time:FC:A6	ENG*	[0 to 100 / 60 / 1sec]
1-121-051	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:A3	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-052	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:A3	ENG*	[0 to 100 / 0 / 1sec]
1-121-053	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:DLT	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-054	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:DLT	ENG*	[0 to 100 / 0 / 1sec]
1-121-055	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:B4	ENG*	[0 to 10000 / 50 / 1sec]
1-121-056	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:B4	ENG*	[0 to 100 / 5 / 1sec]
1-121-057	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:LT	ENG*	[0 to 10000 / 10000 / 1sec]
1-	Switch:Rotation	Soaking Rotary Time:Bk:LT	ENG*	[0 to 100 / 0 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
121-058	Start/Stop			
1-121-059	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:B5	ENG*	[0 to 10000 / 45 / 1sec]
1-121-060	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:B5	ENG*	[0 to 100 / 5 / 1sec]
1-121-061	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:A5	ENG*	[0 to 10000 / 20 / 1sec]
1-121-062	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:A5	ENG*	[0 to 100 / 20 / 1sec]
1-121-063	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:B6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN (NA/TWN): 70 *SP C840DN (EU/AP/CHN): 40 *SP C842DN (NA/TWN): 70 *SP C842DN (EU/AP/CHN): 40
1-121-064	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:B6	ENG*	[0 to 100 / 30 / 1sec]
1-121-065	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:Bk:A6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN (NA/TWN): 70 *SP C840DN (EU/AP/CHN): 40 *SP C842DN (NA/TWN): 70 *SP C842DN (EU/AP/CHN): 40
1-121-	Switch:Rotation Start/Stop	Soaking Rotary Time:Bk:A6	ENG*	[0 to 100 / 30 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
066				
1-121-080	Switch:Rotation Start/Stop	Shift Time: AfterReload: LineSpd Dwn	ENG*	[0 to 60 / 100 / 0.1sec]
1-121-101	Switch:Rotation Start/Stop	Heat Off Time:Start:Warm Up	ENG*	[0 to 60000 / 0 / 1msec]
1-121-102	Switch:Rotation Start/Stop	Heat Off Time:Start:End of A Control	ENG*	[0 to 600000 / 100000 / 1msec]
1-121-103	Switch:Rotation Start/Stop	Time After Feeler Edge Detect	ENG*	[0 to 200 / 0 / 1sec]
1-121-114	Switch:Rotation Start/Stop	Relay ON Temp.:Warm Up	ENG*	[0 to 250 / 200 / 1deg]
1-121-120	Switch:Rotation Start/Stop	ShiftTemp:Press_Full-Bd Edge:SRA3	ENG*	[100 to 250 / 220 / 1deg]
1-121-121	Switch:Rotation Start/Stop	ShiftTemp:PressEdge:A3	ENG*	[100 to 250 / 215 / 1deg]
1-121-122	Switch:Rotation Start/Stop	ShiftTemp:PressEdge:DLT	ENG*	[100 to 250 / 205 / 1deg]
1-121-123	Switch:Rotation Start/Stop	ShiftTemp:PressEdge:B4	ENG*	[100 to 250 / 215 / 1deg]
1-121-124	Switch:Rotation Start/Stop	ShiftTemp:FusingEdge:LT	ENG*	[100 to 250 / 225 / 1deg]
1-121-125	Switch:Rotation Start/Stop	ShiftTemp:PressCenter:B5	ENG*	[100 to 250 / 220 / 1deg]
1-121-	Switch:Rotation Start/Stop	ShiftTemp:PressCenter:A5	ENG*	[100 to 250 / 210 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
126				
1-121-127	Switch:Rotation Start/Stop	ShiftTemp:PressCenter:B6	ENG*	[100 to 250 / 210 / 1deg]
1-121-128	Switch:Rotation Start/Stop	ShiftTemp:PressCenter:A6	ENG*	[100 to 250 / 210 / 1deg]
1-121-141	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:A3	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-142	Switch:Rotation Start/Stop	Soaking Rotary Time:A3	ENG*	[0 to 100 / 10 / 1sec]
1-121-143	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:DLT	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-144	Switch:Rotation Start/Stop	Soaking Rotary Time:DLT	ENG*	[0 to 100 / 10 / 1sec]
1-121-145	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:B4	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-146	Switch:Rotation Start/Stop	Soaking Rotary Time:B4	ENG*	[0 to 100 / 10 / 1sec]
1-121-147	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:LT	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-148	Switch:Rotation Start/Stop	Soaking Rotary Time:LT	ENG*	[0 to 100 / 10 / 1sec]
1-121-149	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:B5	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-	Switch:Rotation Start/Stop	Soaking Rotary Time:B5	ENG*	[0 to 100 / 10 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
150				
1-121-151	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:A5	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-152	Switch:Rotation Start/Stop	Soaking Rotary Time:A5	ENG*	[0 to 100 / 10 / 1sec]
1-121-153	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:B6	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-154	Switch:Rotation Start/Stop	Soaking Rotary Time:B6	ENG*	[0 to 100 / 10 / 1sec]
1-121-155	Switch:Rotation Start/Stop	Pre Job Paper Feed Time:A6	ENG*	[0 to 10000 / 10000 / 1sec]
1-121-156	Switch:Rotation Start/Stop	Soaking Rotary Time:A6	ENG*	[0 to 100 / 10 / 1sec]
1-122-001	Standby Rotation Setting	Rotation Interval	ENG*	[0 to 240 / 60 / 1min]
1-122-002	Standby Rotation Setting	Rotation Time	ENG*	[0 to 60 / 8 / 0.1sec]
1-123-001	Paper Jam Rotation Setting	Normal Rotation Distance	ENG*	[0 to 10000 / 75 / 1mm]
1-123-002	Paper Jam Rotation Setting	Reverse Rotation Distance	ENG*	[0 to 10000 / 25 / 1mm]
1-123-010	Paper Jam Rotation Setting	Stopping time:Std	ENG*	[0 to 10000 / 500 / 1msec]
1-123-	Paper Jam Rotation Setting	Stopping time:Mid	ENG*	[0 to 10000 / 500 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
1-123-012	Paper Jam Rotation Setting	Stopping time:Low	ENG*	[0 to 10000 / 500 / 1msec]
1-124-001	CPM Down Setting	High:Down Temp.	ENG*	[-50 to 0 / -12 / 1deg]
1-124-002	CPM Down Setting	High:Up Temp.	ENG*	[-50 to 0 / -7 / 1deg]
1-124-003	CPM Down Setting	Low :1st CPM	ENG*	[10 to 100 / 80 / 1%]
1-124-004	CPM Down Setting	Low :2nd CPM	ENG*	[10 to 100 / 65 / 1%]
1-124-005	CPM Down Setting	Low :3rd CPM	ENG*	[10 to 100 / 50 / 1%]
1-124-007	CPM Down Setting	High:2nd CPM	ENG*	[10 to 100 / 50 / 1%]
1-124-008	CPM Down Setting	High:3rd CPM	ENG*	[10 to 100 / 30 / 1%]
1-124-009	CPM Down Setting	High:1st CPM Down Temp.:A3:Press End	ENG*	[100 to 250 / 205 / 1deg]
1-124-010	CPM Down Setting	High:2nd CPM Down Temp.:A3:Press End	ENG*	[100 to 250 / 210 / 1deg]
1-124-011	CPM Down Setting	High:3rd CPM Down Temp.:A3:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-	CPM Down Setting	High:1st CPM Down Temp.:DLT:Press End	ENG*	[100 to 250 / 205 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
1-124-013	CPM Down Setting	High:2nd CPM Down Temp.:DLT:Press End	ENG*	[100 to 250 / 210 / 1deg]
1-124-014	CPM Down Setting	High:3rd CPM Down Temp.:DLT:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-015	CPM Down Setting	High:1st CPM Down Temp.:B4:Press End	ENG*	[100 to 250 / 200 / 1deg]
1-124-016	CPM Down Setting	High:2nd CPM Down Temp.:B4:Press End	ENG*	[100 to 250 / 210 / 1deg]
1-124-017	CPM Down Setting	High:3rd CPM Down Temp.:B4:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-018	CPM Down Setting	High:1st CPM Down Temp.:LT:Fuser End	ENG*	[100 to 250 / 215 / 1deg]
1-124-019	CPM Down Setting	High:2nd CPM Down Temp.:LT:Fuser End	ENG*	[100 to 250 / 220 / 1deg]
1-124-020	CPM Down Setting	High:3rd CPM Down Temp.:LT:Fuser End	ENG*	[100 to 250 / 225 / 1deg]
1-124-021	CPM Down Setting	High:1st CPM Down Temp.:A4:Fuser End	ENG*	[100 to 250 / 215 / 1deg]
1-124-022	CPM Down Setting	High:2nd CPM Down Temp.:A4:Fuser End	ENG*	[100 to 250 / 220 / 1deg]
1-124-023	CPM Down Setting	High:3rd CPM Down Temp.:A4:Fuser End	ENG*	[100 to 250 / 225 / 1deg]
1-124-	CPM Down Setting	High:1st CPM Down Temp.:B5:Press Center	ENG*	[100 to 250 / 155 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
024				
1-124-025	CPM Down Setting	High:2nd CPM Down Temp.:B5:Press Center	ENG*	[100 to 250 / 160 / 1deg]
1-124-026	CPM Down Setting	High:3rd CPM Down Temp.:B5:Press Center	ENG*	[100 to 250 / 165 / 1deg]
1-124-027	CPM Down Setting	High:1st CPM Down Temp.:A5:Press Center	ENG*	[100 to 250 / 170 / 1deg]
1-124-028	CPM Down Setting	High:2nd CPM Down Temp.:A5:Press Center	ENG*	[100 to 250 / 200 / 1deg]
1-124-029	CPM Down Setting	High:3rd CPM Down Temp.:A5:Press Center	ENG*	[100 to 250 / 217 / 1deg]
1-124-030	CPM Down Setting	High:1st CPM Down Temp.:B6:Press Center	ENG*	[100 to 250 / 180 / 1deg]
1-124-031	CPM Down Setting	High:2nd CPM Down Temp.:B6:Press Center	ENG*	[100 to 250 / 185 / 1deg]
1-124-032	CPM Down Setting	High:3rd CPM Down Temp.:B6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-124-033	CPM Down Setting	High:1st CPM Down Temp.:A6:Press Center	ENG*	[100 to 250 / 180 / 1deg]
1-124-034	CPM Down Setting	High:2nd CPM Down Temp.:A6:Press Center	ENG*	[100 to 250 / 185 / 1deg]
1-124-035	CPM Down Setting	High:3rd CPM Down Temp.:A6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-124-	CPM Down Setting	High:1st CPM Down Temp.:SRA3:Press End	ENG*	[100 to 250 / 210 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
036				
1-124-037	CPM Down Setting	High:2nd CPM Down Temp.:SRA3:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-038	CPM Down Setting	High:3rd CPM Down Temp.:SRA3:Press End	ENG*	[100 to 250 / 220 / 1deg]
1-124-040	CPM Down Setting	Low Temp.:1st CPM_2	ENG*	[10 to 100 / * / 1%] *SP C840DN (NA/TWN): 80 *SP C840DN (EU/AP/CHN): 80 *SP C842DN (NA/TWN): 92 *SP C842DN (EU/AP/CHN): 84
1-124-041	CPM Down Setting	Low Temp.:2nd CPM_2	ENG*	[10 to 100 / * / 1%] *SP C840DN (NA/TWN): 65 *SP C840DN (EU/AP/CHN): 65 *SP C842DN (NA/TWN): 84 *SP C842DN (EU/AP/CHN): 76
1-124-042	CPM Down Setting	Low Temp.:1st CPM_3	ENG*	[10 to 100 / * / 1%] *SP C840DN (NA/TWN): 80 *SP C840DN (EU/AP/CHN): 80 *SP C842DN (NA/TWN): 92 *SP C842DN (EU/AP/CHN): 84
1-124-043	CPM Down Setting	Low Temp.:2nd CPM_3	ENG*	[10 to 100 / * / 1%] *SP C840DN (NA/TWN): 65

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				*SP C840DN (EU/AP/CHN): 65 *SP C842DN (NA/TWN): 84 *SP C842DN (EU/AP/CHN): 76
1-124-051	CPM Down Setting	Judging Interval	ENG*	[1 to 250 / 4 / 1sec]
1-124-060	CPM Down Setting	Ini. CPM Down Time	ENG*	[0 to 255 / 2 / 1sec]
1-124-061	CPM Down Setting	Ini. CPM Down Time 10sec recovery	ENG*	[0 to 255 / 2 / 1sec]
1-124-071	CPM Down Setting	L:High:1st Temp.:DLT:Press End	ENG*	[100 to 250 / 205 / 1deg]
1-124-072	CPM Down Setting	L:High:2nd Temp.:DLT:Press End	ENG*	[100 to 250 / 210 / 1deg]
1-124-073	CPM Down Setting	L:High:3rd Temp.:DLT:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-074	CPM Down Setting	L:High:4th Temp.:DLT:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-075	CPM Down Setting	L:High:1st Temp.:B4:Press End	ENG*	[100 to 250 / 180 / 1deg]
1-124-076	CPM Down Setting	L:High:2nd Temp.:B4:Press End	ENG*	[100 to 250 / 180 / 1deg]
1-124-077	CPM Down Setting	L:High:3rd Temp.:B4:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-	CPM Down Setting	L:High:4th Temp.:B4:Press End	ENG*	[100 to 250 / 215 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-078				
1-124-079	CPM Down Setting	L:High:1st Temp.:B5:Press Center	ENG*	[100 to 250 / 155 / 1deg]
1-124-080	CPM Down Setting	L:High:2nd Temp.:B5:Press Center	ENG*	[100 to 250 / 160 / 1deg]
1-124-081	CPM Down Setting	L:High:3rd Temp.:B5:Press Center	ENG*	[100 to 250 / 165 / 1deg]
1-124-082	CPM Down Setting	L:High:4th Temp.:B5:Press Center	ENG*	[100 to 250 / 200 / 1deg]
1-124-083	CPM Down Setting	L:High:1st Temp.:A5:Press Center	ENG*	[100 to 250 / 160 / 1deg]
1-124-084	CPM Down Setting	L:High:2nd Temp.:A5:Press Center	ENG*	[100 to 250 / 170 / 1deg]
1-124-085	CPM Down Setting	L:High:3rd Temp.:A5:Press Center	ENG*	[100 to 250 / 190 / 1deg]
1-124-086	CPM Down Setting	L:High:4th Temp.:A5:Press Center	ENG*	[100 to 250 / 200 / 1deg]
1-124-087	CPM Down Setting	L:High:1st Temp.:B6:Press Center	ENG*	[100 to 250 / 155 / 1deg]
1-124-088	CPM Down Setting	L:High:2nd Temp.:B6:Press Center	ENG*	[100 to 250 / 178 / 1deg]
1-124-089	CPM Down Setting	L:High:3rd Temp.:B6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-	CPM Down Setting	L:High:4th Temp.:B6:Press Center	ENG*	[100 to 250 / 192 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-090				
1-124-091	CPM Down Setting	L:High:1st Temp.:A6:Press Center	ENG*	[100 to 250 / 155 / 1deg]
1-124-092	CPM Down Setting	L:High:2nd Temp.:A6:Press Center	ENG*	[100 to 250 / 178 / 1deg]
1-124-093	CPM Down Setting	L:High:3rd Temp.:A6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-124-094	CPM Down Setting	L:High:4th Temp.:A6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-124-101	CPM Down Setting	High:1st CPM Down Time:A3	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-102	CPM Down Setting	High:2nd CPM Down Time:A3	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-103	CPM Down Setting	High:3rd CPM Down Time:A3	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-104	CPM Down Setting	High:1st CPM Down Time:DLT	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-105	CPM Down Setting	High:2nd CPM Down Time:DLT	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-106	CPM Down Setting	High:3rd CPM Down Time:DLT	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-107	CPM Down Setting	High:1st CPM Down Time:B4	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 10000 *SP C842DN: 40
1-	CPM Down Setting	High:2nd CPM Down Time:B4	ENG*	[0 to 10000 / 10000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-108				1sec]
1-124-109	CPM Down Setting	High:3rd CPM Down Time:B4	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-110	CPM Down Setting	High:1st CPM Down Time:LT	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-111	CPM Down Setting	High:2nd CPM Down Time:LT	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-112	CPM Down Setting	High:3rd CPM Down Time:LT	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-113	CPM Down Setting	High:1st CPM Down Time:A4	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-114	CPM Down Setting	High:2nd CPM Down Time:A4	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-115	CPM Down Setting	High:3rd CPM Down Time:A4	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-116	CPM Down Setting	High:1st CPM Down Time:B5	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 10000 *SP C842DN: 65
1-124-117	CPM Down Setting	High:2nd CPM Down Time:B5	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-118	CPM Down Setting	High:3rd CPM Down Time:B5	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-119	CPM Down Setting	High:1st CPM Down Time:A5	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 45 *SP C842DN: 16
1-	CPM Down Setting	High:2nd CPM Down Time:A5	ENG*	[0 to 10000 / * / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-120				*SP C840DN: 45 *SP C842DN: 38
1-124-121	CPM Down Setting	High:3rd CPM Down Time:A5	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-122	CPM Down Setting	High:1st CPM Down Time:B6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 10000 *SP C842DN: 8
1-124-123	CPM Down Setting	High:2nd CPM Down Time:B6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 10000 *SP C842DN: 10
1-124-124	CPM Down Setting	High:3rd CPM Down Time:B6	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-125	CPM Down Setting	High:1st CPM Down Time:A6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 12 *SP C842DN: 8
1-124-126	CPM Down Setting	High:2nd CPM Down Time:A6	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 12 *SP C842DN: 10
1-124-127	CPM Down Setting	High:3rd CPM Down Time:A6	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-128	CPM Down Setting	High:1st CPM Down Time:SRA3	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-129	CPM Down Setting	High:2nd CPM Down Time:SRA3	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-130	CPM Down Setting	High:3rd CPM Down Time:SRA3	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-151	CPM Down Setting	High:1st CPM Down Time:A3:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-	CPM Down Setting	High:2nd CPM Down Time:A3:Low	ENG*	[0 to 10000 / 10000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-152		Speed		1sec]
1-124-153	CPM Down Setting	High:3rd CPM Down Time:A3:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-154	CPM Down Setting	High:1st CPM Down Time:DLT:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-155	CPM Down Setting	High:2nd CPM Down Time:DLT:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-156	CPM Down Setting	High:3rd CPM Down Time:DLT:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-157	CPM Down Setting	High:1st CPM Down Time:B4:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-158	CPM Down Setting	High:2nd CPM Down Time:B4:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-159	CPM Down Setting	High:3rd CPM Down Time:B4:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-160	CPM Down Setting	High:1st CPM Down Time:LT:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-161	CPM Down Setting	High:2nd CPM Down Time:LT:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-162	CPM Down Setting	High:3rd CPM Down Time:LT:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-163	CPM Down Setting	High:1st CPM Down Time:A4:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-	CPM Down Setting	High:2nd CPM Down Time:A4:Low	ENG*	[0 to 10000 / 10000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-164		Speed		1sec]
1-124-165	CPM Down Setting	High:3rd CPM Down Time:A4:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-166	CPM Down Setting	High:1st CPM Down Time:B5:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-167	CPM Down Setting	High:2nd CPM Down Time:B5:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-168	CPM Down Setting	High:3rd CPM Down Time:B5:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-169	CPM Down Setting	High:1st CPM Down Time:A5:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-170	CPM Down Setting	High:2nd CPM Down Time:A5:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-171	CPM Down Setting	High:3rd CPM Down Time:A5:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-172	CPM Down Setting	High:1st CPM Down Time:B6:Low Speed	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 60 *SP C842DN: 60
1-124-173	CPM Down Setting	High:2nd CPM Down Time:B6:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-174	CPM Down Setting	High:3rd CPM Down Time:B6:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-175	CPM Down Setting	High:1st CPM Down Time:A6:Low Speed	ENG*	[0 to 10000 / * / 1sec] *SP C840DN: 60 *SP C842DN: 60
1-	CPM Down Setting	High:2nd CPM Down Time:A6:Low	ENG*	[0 to 10000 / 10000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-176		Speed		1sec]
1-124-177	CPM Down Setting	High:3rd CPM Down Time:A6:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-178	CPM Down Setting	High:1st CPM Down Time:SRA3:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-179	CPM Down Setting	High:2nd CPM Down Time:SRA3:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-180	CPM Down Setting	High:3rd CPM Down Time:SRA3:Low Speed	ENG*	[0 to 10000 / 10000 / 1sec]
1-124-190	CPM Down Setting	NC:1st CPM:Decreased Temp.	ENG*	[80 to 250 / 123 / 1deg]
1-124-191	CPM Down Setting	NC:2nd CPM:Decreased Temp.	ENG*	[80 to 250 / 124 / 1deg]
1-124-192	CPM Down Setting	NC:3rd CPM:Decreased Temp.	ENG*	[80 to 250 / 125 / 1deg]
1-124-193	CPM Down Setting	NC:1st CPM:Decreased Ratio	ENG*	[10 to 100 / 50 / 1%]
1-124-194	CPM Down Setting	NC:2nd CPM:Decreased Ratio	ENG*	[10 to 100 / 30 / 1%]
1-124-195	CPM Down Setting	NC:3rd CPM:Decreased Ratio	ENG*	[10 to 100 / 10 / 1%]
1-124-201	CPM Down Setting	Low:Down Temp.	ENG*	[-50 to 0 / -10 / 1deg]
1-	CPM Down Setting	Low:Up Temp.	ENG*	[-50 to 0 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124-202				
1-124-203	CPM Down Setting	High Temp: Decreased Temp: Mid-Low Spd	ENG*	[-50 to 0 / -20 / 1deg]
1-124-204	CPM Down Setting	High Temp: Increased Temp: Mid-Low Spd	ENG*	[-50 to 0 / -15 / 1deg]
1-124-205	CPM Down Setting	Low Temp: Decreased Temp: Mid-Low Spd	ENG*	[-50 to 0 / -20 / 1deg]
1-124-206	CPM Down Setting	Low Temp: Increased Temp: Mid-Low Spd	ENG*	[-50 to 0 / -15 / 1deg]
1-124-210	CPM Down Setting	Temp.:Threshold::Low Power	ENG*	[0 to 200 / * / 1deg] *SP C840DN (NA/TWN): 0 *SP C840DN (EU/AP/CHN): 0 *SP C842DN (NA/TWN): 37 *SP C842DN (EU/AP/CHN): 0
1-124-211	CPM Down Setting	CPM Level 2: Judge:Low Power	ENG*	[0 to 200 / * / 1deg] *SP C840DN (NA/TWN): 110 *SP C840DN (EU/AP/CHN): 110 *SP C842DN (NA/TWN): 31 *SP C842DN (EU/AP/CHN): 110
1-124-212	CPM Down Setting	Temp.:Threshold:Judge:Mid. Power	ENG*	[0 to 200 / 0 / 1deg]
1-124-	CPM Down Setting	CPM Level 2: Judge:Mid. Power	ENG*	[0 to 200 / 110 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
213				
1-124-214	CPM Down Setting	Temp.:Threshold:Judge:High Power	ENG*	[0 to 200 / 0 / 1deg]
1-124-215	CPM Down Setting	CPM Level 2: Judge:High Power	ENG*	[0 to 200 / 110 / 1deg]
1-124-220	CPM Down Setting	Ini.: HighTemp: DownTemp	ENG*	[-50 to 0 / -12 / 1deg]
1-124-221	CPM Down Setting	Ini.: HighTemp: UpTemp	ENG*	[-50 to 50 / -7 / 1deg]
1-124-222	CPM Down Setting	Ini.: LowTemp: DownTemp	ENG*	[-50 to 0 / -10 / 1deg]
1-124-223	CPM Down Setting	Ini.: LowTemp: UpTemp	ENG*	[-50 to 50 / 0 / 1deg]
1-124-224	CPM Down Setting	Ini.: HighTemp: DownTemp: Mid-Low Spd	ENG*	[-50 to 0 / -20 / 1deg]
1-124-225	CPM Down Setting	Ini.: HighTemp: UpTemp: Mid-Low Spd	ENG*	[-50 to 50 / -15 / 1deg]
1-124-226	CPM Down Setting	Ini.: LowTemp: DownTemp: Mid-Low Spd	ENG*	[-50 to 0 / -20 / 1deg]
1-124-227	CPM Down Setting	Ini.: LowTemp: UpTemp: Mid-Low Spd	ENG*	[-50 to 50 / -15 / 1deg]
1-124-241	CPM Down Setting	L:High:3rd Temp.:SRA3:Press End	ENG*	[100 to 250 / 220 / 1deg]
1-124-	CPM Down Setting	L:High:3rd Temp.:A3:Press End	ENG*	[100 to 250 / 215 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
242				
1-124-243	CPM Down Setting	L:High:3rd Temp.:DLT:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-244	CPM Down Setting	L:High:3rd Temp.:B4:Press End	ENG*	[100 to 250 / 215 / 1deg]
1-124-245	CPM Down Setting	L:High:3rd Temp.:LT:Fuser End	ENG*	[100 to 250 / 225 / 1deg]
1-124-246	CPM Down Setting	L:High:3rd Temp.:A4:Fuser End	ENG*	[100 to 250 / 225 / 1deg]
1-124-247	CPM Down Setting	L:High:3rd Temp.:B5:Press Center	ENG*	[100 to 250 / 215 / 1deg]
1-124-248	CPM Down Setting	L:High:3rd Temp.:A5:Press Center	ENG*	[100 to 250 / 217 / 1deg]
1-124-249	CPM Down Setting	L:High:3rd Temp.:B6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-124-250	CPM Down Setting	L:High:3rd Temp.:A6:Press Center	ENG*	[100 to 250 / 192 / 1deg]
1-125-001	CPM Down Setting	High:1st CPM:A3:Large Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-002	CPM Down Setting	High:2nd CPM:A3:Large Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-003	CPM Down Setting	High:3rd CPM:A3:Large Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-	CPM Down Setting	High:1st CPM:A3:Small Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
1-125-005	CPM Down Setting	High:2nd CPM:A3:Small Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-006	CPM Down Setting	High:3rd CPM:A3:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-007	CPM Down Setting	High:1st CPM:DLT:Large Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-008	CPM Down Setting	High:2nd CPM:DLT:Large Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-009	CPM Down Setting	High:3rd CPM:DLT:Large Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-010	CPM Down Setting	High:1st CPM:DLT:Small Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-011	CPM Down Setting	High:2nd CPM:DLT:Small Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-012	CPM Down Setting	High:3rd CPM:DLT:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-013	CPM Down Setting	High:1st CPM:B4:Large Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 99 *SP C842DN: 85
1-125-014	CPM Down Setting	High:2nd CPM:B4:Large Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-015	CPM Down Setting	High:3rd CPM:B4:Large Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-	CPM Down Setting	High:1st CPM:B4:Small Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 93

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
016				*SP C842DN: 70
1-125-017	CPM Down Setting	High:2nd CPM:B4:Small Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-018	CPM Down Setting	High:3rd CPM:B4:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-019	CPM Down Setting	High:1st CPM:LT:Large Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-020	CPM Down Setting	High:2nd CPM:LT:Large Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-021	CPM Down Setting	High:3rd CPM:LT:Large Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-022	CPM Down Setting	High:1st CPM:LT:Small Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-023	CPM Down Setting	High:2nd CPM:LT:Small Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-024	CPM Down Setting	High:3rd CPM:LT:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-025	CPM Down Setting	High:1st CPM:A4:Large Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-026	CPM Down Setting	High:2nd CPM:A4:Large Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-027	CPM Down Setting	High:3rd CPM:A4:Large Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-	CPM Down Setting	High:1st CPM:A4:Small Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
028				
1-125-029	CPM Down Setting	High:2nd CPM:A4:Small Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-030	CPM Down Setting	High:3rd CPM:A4:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-031	CPM Down Setting	High:1st CPM:B5:Large Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 99 *SP C842DN: 90
1-125-032	CPM Down Setting	High:2nd CPM:B5:Large Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 87 *SP C842DN: 70
1-125-033	CPM Down Setting	High:3rd CPM:B5:Large Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 62 *SP C842DN: 50
1-125-034	CPM Down Setting	High:1st CPM:B5:Small Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 93 *SP C842DN: 90
1-125-035	CPM Down Setting	High:2nd CPM:B5:Small Size:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 50 *SP C842DN: 70
1-125-036	CPM Down Setting	High:3rd CPM:B5:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-037	CPM Down Setting	High:1st CPM:A5:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 88 *SP C842DN: 70
1-125-038	CPM Down Setting	High:2nd CPM:A5:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 67 *SP C842DN: 53
1-125-039	CPM Down Setting	High:3rd CPM:A5:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 50 *SP C842DN: 40
1-125-	CPM Down Setting	High:1st CPM:B6:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 80

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
040				*SP C842DN: 75
1-125-041	CPM Down Setting	High:2nd CPM:B6:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 50 *SP C842DN: 55
1-125-042	CPM Down Setting	High:3rd CPM:B6:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-043	CPM Down Setting	High:1st CPM:A6:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 97 *SP C842DN: 70
1-125-044	CPM Down Setting	High:2nd CPM:A6:Normal Speed	ENG*	[0 to 100 / * / 1%] *SP C840DN: 50 *SP C842DN: 36
1-125-045	CPM Down Setting	High:3rd CPM:A6:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-046	CPM Down Setting	High:1st CPM:SRA3:Large Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-047	CPM Down Setting	High:2nd CPM:SRA3:Large Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-048	CPM Down Setting	High:3rd CPM:SRA3:Large Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-049	CPM Down Setting	High:1st CPM:SRA3:Small Size:Normal Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-050	CPM Down Setting	High:2nd CPM:SRA3:Small Size:Normal Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-051	CPM Down Setting	High:3rd CPM:SRA3:Small Size:Normal Speed	ENG*	[0 to 100 / 30 / 1%]
1-125-	CPM Down Setting	High:1st CPM:A3:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
101				
1-125-102	CPM Down Setting	High:2nd CPM:A3:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-104	CPM Down Setting	High:1st CPM:A3:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-105	CPM Down Setting	High:2nd CPM:A3:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-107	CPM Down Setting	High:1st CPM:DLT:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-108	CPM Down Setting	High:2nd CPM:DLT:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-110	CPM Down Setting	High:1st CPM:DLT:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-111	CPM Down Setting	High:2nd CPM:DLT:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-113	CPM Down Setting	High:1st CPM:B4:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-114	CPM Down Setting	High:2nd CPM:B4:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-116	CPM Down Setting	High:1st CPM:B4:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-117	CPM Down Setting	High:2nd CPM:B4:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-	CPM Down Setting	High:1st CPM:LT:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
119				
1-125-120	CPM Down Setting	High:2nd CPM:LT:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-122	CPM Down Setting	High:1st CPM:LT:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-123	CPM Down Setting	High:2nd CPM:LT:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-125	CPM Down Setting	High:1st CPM:A4:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-126	CPM Down Setting	High:2nd CPM:A4:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-128	CPM Down Setting	High:1st CPM:A4:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-129	CPM Down Setting	High:2nd CPM:A4:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-131	CPM Down Setting	High:1st CPM:B5:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-132	CPM Down Setting	High:2nd CPM:B5:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-134	CPM Down Setting	High:1st CPM:B5:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-135	CPM Down Setting	High:2nd CPM:B5:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-	CPM Down Setting	High:1st CPM:A5:Middle Speed	ENG*	[0 to 100 / 80 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
137				
1-125-138	CPM Down Setting	High:2nd CPM:A5:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-140	CPM Down Setting	High:1st CPM:B6:Middle Speed	ENG*	[0 to 100 / 60 / 1%]
1-125-141	CPM Down Setting	High:2nd CPM:B6:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-143	CPM Down Setting	High:1st CPM:A6:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-144	CPM Down Setting	High:2nd CPM:A6:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-145	CPM Down Setting	High:1st CPM:SRA3:Large Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-146	CPM Down Setting	High:2nd CPM:SRA3:Large Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-147	CPM Down Setting	High:1st CPM:SRA3:Small Size:Middle Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-148	CPM Down Setting	High:2nd CPM:SRA3:Small Size:Middle Speed	ENG*	[0 to 100 / 50 / 1%]
1-125-201	CPM Down Setting	High:1st CPM:A3:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-204	CPM Down Setting	High:1st CPM:A3:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-	CPM Down Setting	High:1st CPM:DLT:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
207				
1-125-210	CPM Down Setting	High:1st CPM:DLT:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-213	CPM Down Setting	High:1st CPM:B4:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-216	CPM Down Setting	High:1st CPM:B4:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-219	CPM Down Setting	High:1st CPM:LT:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-222	CPM Down Setting	High:1st CPM:LT:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-225	CPM Down Setting	High:1st CPM:A4:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-228	CPM Down Setting	High:1st CPM:A4:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-231	CPM Down Setting	High:1st CPM:B5:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-234	CPM Down Setting	High:1st CPM:B5:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-237	CPM Down Setting	High:1st CPM:A5:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-240	CPM Down Setting	High:1st CPM:B6:Low Speed	ENG*	[0 to 100 / 70 / 1%]
1-125-	CPM Down Setting	High:1st CPM:A6:Low Speed	ENG*	[0 to 100 / 70 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
243				
1-125-244	CPM Down Setting	High:1st CPM:SRA3:Large Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-125-245	CPM Down Setting	High:1st CPM:SRA3:Small Size:Low Speed	ENG*	[0 to 100 / 80 / 1%]
1-126-001	Heating Start Delay	Judgement Temp 1	ENG*	[0 to 180 / 28 / 1deg]
1-126-002	Heating Start Delay	Judgement Temp 2	ENG*	[0 to 180 / 40 / 1deg]
1-126-003	Heating Start Delay	Judgement Temp 3	ENG*	[0 to 180 / 70 / 1deg]
1-126-011	Heating Start Delay	Set TimeA: Div 1	ENG*	[0 to 10000 / 0 / 1msec]
1-126-012	Heating Start Delay	Set TimeA: Div 2	ENG*	[0 to 10000 / 0 / 1msec]
1-126-013	Heating Start Delay	Set TimeA: Div 3	ENG*	[0 to 10000 / 0 / 1msec]
1-126-014	Heating Start Delay	Set TimeA: Div 4	ENG*	[0 to 10000 / 0 / 1msec]
1-126-021	Heating Start Delay	Delay Time: Div 1	ENG*	[0 to 10000 / 0 / 1msec]
1-126-022	Heating Start Delay	Delay Time: Div 2	ENG*	[0 to 10000 / 0 / 1msec]
1-126-	Heating Start Delay	Delay Time: Div 3	ENG*	[0 to 10000 / 0 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
023				
1-126-024	Heating Start Delay	Delay Time: Div 4	ENG*	[0 to 10000 / 0 / 1msec]
1-127-001	Energy Saving PprFeed Judgment	Judging Method Change	ENG*	[0 to 2 / 1 / 1] 0: Off 1: On-duplex 2: On
1-127-002	Energy Saving PprFeed Judgment	Temp.: Threshold: Press	ENG*	[0 to 200 / 70 / 1deg]
1-127-003	Energy Saving PprFeed Judgment	Temp.: Threshold: Atmosphere	ENG*	[0 to 200 / 60 / 1deg]
1-127-004	Energy Saving PprFeed Judgment	Power Supply Voltage: Lower	ENG*	[0 to 300 / * / 1V] *NA: 108 *EU/AP/CHN:206 *TWN:102
1-127-005	Energy Saving PprFeed Judgment	Power Supply Voltage: Upper	ENG*	[0 to 300 / * / 1V] *NA: 134 *EU/AP/CHN:252 *TWN:121
1-127-006	Energy Saving PprFeed Judgment	Judgment Time-Out	ENG*	[0 to 10 / 100 / 0.1sec]
1-131-001	Continuous Print Mode Switch	Feed Permit Condition	ENG*	[0 to 2 / 1 / 1] 0: Productivety Mode 1: Fusing Quality Mode 2: Fusing Quality Mode 2
1-132-001	Maximum Duty Switch	Control Method Switch	ENG*	[0 to 1 / 1 / 1] 0: Fixed Duty 1: AutoOffset
1-133-001	Voltage Detection	Heater ON	ENG*	[0 to 350 / * / 0.1V] *NA: 1160 *EU/AP/CHN:2230 *TWN:1070

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-133-002	Voltage Detection	Max	ENG*	[0 to 350 / * / 0.1V] *NA: 1160 *EU/AP/CHN:2230 *TWN:1070
1-133-003	Voltage Detection	Min	ENG*	[0 to 350 / 3500 / 0.1V]
1-133-004	Voltage Detection	Last	ENG*	[0 to 350 / 0 / 0.1V]
1-133-005	Voltage Detection	SC	ENG*	[0 to 350 / 0 / 0.1V]
1-133-006	Voltage Detection	Threshold Voltage	ENG*	[0 to 255 / * / 1V] *NA: 96 *EU/AP/CHN: 178 *TWN:88
1-134-001	Effective Duty Adjustment	Control Method Switch	ENG*	[0 to 1 / 1 / 1] 0: OFF 1: ON
1-135-001	Inrush Control	Inrush Control	ENG*	[0 to 1 / 1 / 1]
1-135-002	Flicker Control	Flicker Control	ENG*	[0 to 1 / 0 / 1]
1-141-001	Fusing SC Error Time Info	SC Number	ENG*	[0 to 99999 / 0 / 1]
1-141-101	Fusing SC Error Time Info	Htg Roller:Ctr Det1	ENG*	[-100 to 300 / 0 / 1deg]
1-141-102	Fusing SC Error Time Info	Htg Roller:End Det1	ENG*	[-100 to 300 / 0 / 1deg]
1-141-	Fusing SC Error Time Info	Press Roller:Ctr Det1	ENG*	[-100 to 300 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
103				
1-141-104	Fusing SC Error Time Info	Press Roller:End Det1	ENG*	[-100 to 300 / 0 / 1deg]
1-141-105	Fusing SC Error Time Info	NC Sensor: Center Atmosphere Temp 1	ENG*	[-100 to 300 / 0 / 1deg]
1-141-106	Fusing SC Error Time Info	NC Sensor: End Atmosphere Temp 1	ENG*	[-100 to 300 / 0 / 1deg]
1-141-107	Fusing SC Error Time Info	Press Roller:End Det 1	ENG*	[-100 to 300 / 0 / 1deg]
1-141-108	Fusing SC Error Time Info	Fuser State Det 1	ENG*	[0 to 100 / 0 / 1]
1-141-109	Fusing SC Error Time Info	Heater1 Duty Det 1	ENG*	[0 to 100 / 0 / 1%]
1-141-110	Fusing SC Error Time Info	Heater2 Duty Det 1	ENG*	[0 to 100 / 0 / 1%]
1-141-151	Fusing SC Error Time Info	Htg Roller:Ctr Det2	ENG*	[-100 to 300 / 0 / 1deg]
1-141-152	Fusing SC Error Time Info	Htg Roller:End Det2	ENG*	[-100 to 300 / 0 / 1deg]
1-141-153	Fusing SC Error Time Info	Press Roller:Ctr Det2	ENG*	[-100 to 300 / 0 / 1deg]
1-141-154	Fusing SC Error Time Info	Press Roller:End Det2	ENG*	[-100 to 300 / 0 / 1deg]
1-141-	Fusing SC Error Time Info	NC Sensor: Center Atmosphere Temp 2	ENG*	[-100 to 300 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
155				
1-141-156	Fusing SC Error Time Info	NC Sensor: End Atmosphere Temp 2	ENG*	[-100 to 300 / 0 / 1deg]
1-141-157	Fusing SC Error Time Info	Press Roller:End Det 2	ENG*	[-100 to 300 / 0 / 1deg]
1-141-158	Fusing SC Error Time Info	Fuser State Det 2	ENG*	[0 to 100 / 0 / 1]
1-141-159	Fusing SC Error Time Info	Heater1 Duty Det 2	ENG*	[0 to 100 / 0 / 1%]
1-141-160	Fusing SC Error Time Info	Heater2 Duty Det 2	ENG*	[0 to 100 / 0 / 1%]
1-141-201	Fusing SC Error Time Info	Htg Roller:Ctr Det3	ENG*	[-100 to 300 / 0 / 1deg]
1-141-202	Fusing SC Error Time Info	Htg Roller:End Det3	ENG*	[-100 to 300 / 0 / 1deg]
1-141-203	Fusing SC Error Time Info	Press Roller:Ctr Det3	ENG*	[-100 to 300 / 0 / 1deg]
1-141-204	Fusing SC Error Time Info	Press Roller:End Det3	ENG*	[-100 to 300 / 0 / 1deg]
1-141-205	Fusing SC Error Time Info	NC Sensor: Center Atmosphere Temp 3	ENG*	[-100 to 300 / 0 / 1deg]
1-141-206	Fusing SC Error Time Info	NC Sensor: End Atmosphere Temp 3	ENG*	[-100 to 300 / 0 / 1deg]
1-141-	Fusing SC Error Time Info	Press Roller:End Det 3	ENG*	[-100 to 300 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
207				
1-141-208	Fusing SC Error Time Info	Fuser State Det 3	ENG*	[0 to 100 / 0 / 1]
1-141-209	Fusing SC Error Time Info	Heater1 Duty Det 3	ENG*	[0 to 100 / 0 / 1%]
1-141-210	Fusing SC Error Time Info	Heater2 Duty Det 3	ENG*	[0 to 100 / 0 / 1%]
1-142-001	Fusing Jam Detection	SC Display	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
1-151-001	Pressure Setting	Pressure Change ON/OFF	ENG*	[0 to 1 / 1 / 1] 0: OFF 1: ON
1-151-002	Pressure Setting	Pressure Time1	ENG*	[0 to 10000 / 70 / 10msec]
1-151-003	Pressure Setting	Pressure Time2	ENG*	[0 to 10000 / 70 / 10msec]
1-151-005	Pressure Setting	Depressure Time	ENG*	[0 to 10000 / 0 / 10msec]
1-151-010	Pressure Setting	Shift Time:Energy Saving	ENG*	[0 to 3600 / 0 / 1sec]
1-151-011	Pressure Setting	Shift Time	ENG*	[0 to 3600 / 60 / 1sec]
1-151-051	Pressure Setting	Rotary speed	ENG*	[-12.8 to 12.7 / 0 / 0.1%]
1-151-	Pressure Setting	Pressure:Plain1/2	ENG*	[0 to 3 / 2 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
101				
1-151-102	Pressure Setting	Pressure:Thin	ENG*	[0 to 3 / 2 / 1]
1-151-103	Pressure Setting	Pressure:M-thick	ENG*	[0 to 3 / 2 / 1]
1-151-104	Pressure Setting	Pressure:Thick1	ENG*	[0 to 3 / 2 / 1]
1-151-105	Pressure Setting	Pressure:Thick2	ENG*	[0 to 3 / 2 / 1]
1-151-106	Pressure Setting	Pressure:Thick3	ENG*	[0 to 3 / 2 / 1]
1-151-107	Pressure Setting	Pressure:Special1	ENG*	[0 to 3 / 2 / 1]
1-151-108	Pressure Setting	Pressure:Special2	ENG*	[0 to 3 / 2 / 1]
1-151-109	Pressure Setting	Pressure:Special3	ENG*	[0 to 3 / 2 / 1]
1-151-110	Pressure Setting	Pressure:Envelope	ENG*	[0 to 3 / 2 / 1]
1-151-151	Pressure Setting	Pressure:Plain1/2:Low Speed	ENG*	[0 to 3 / 2 / 1]
1-151-152	Pressure Setting	Pressure:M-thick:Low Speed	ENG*	[0 to 3 / 2 / 1]
1-151-	Pressure Setting	Pressure:Thick1:Low Speed	ENG*	[0 to 3 / 2 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
153				
1-151-154	Pressure Setting	Pressure:Special1:Low Speed	ENG*	[0 to 3 / 2 / 1]
1-151-157	Pressure Setting	Pressure:M-thick:Glossy	ENG*	[0 to 3 / 2 / 1]
1-151-158	Pressure Setting	Pressure:OHP	ENG*	[0 to 3 / 2 / 1]
1-151-159	Pressure Setting	Pressure:Envelope:Low Speed	ENG*	[0 to 3 / 2 / 1]
1-151-160	Pressure Setting	Pressure:Thin:Low Speed	ENG*	[0 to 3 / 2 / 1]
1-151-161	Pressure Setting	Pressure:Thick4	ENG*	[0 to 3 / 2 / 1]
1-151-162	Pressure Setting	Pressure:Postcard	ENG*	[0 to 3 / 2 / 1]
1-152-001	Fusing Nip Band Check	Execute	ENG	[0 to 1 / 0 / 1]
1-152-002	Fusing Nip Band Check	Pre-idling Time	ENG*	[0 to 999 / 300 / 1sec]
1-152-003	Fusing Nip Band Check	Stop Time	ENG*	[0 to 100 / 20 / 1sec]
1-152-004	Fusing Nip Band Check	Pressure Position	ENG*	[1 to 2 / 2 / 1]
1-153-	Abnormal Noise Confirmation	Unit: Execute	ENG	[0 to 1 / 0 / 1] 0: Std Speed

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				1: Mid Speed 2: Low Speed
1-153-002	Abnormal Noise Confirmation	No Unit: Execute	ENG	[0 to 1 / 0 / 1]
1-153-003	Abnormal Noise Confirmation	Operation Line Speed	ENG	[0 to 2 / 0 / 1]
1-153-004	Abnormal Noise Confirmation	Operation Time	ENG	[0 to 240 / 60 / 1sec]
1-153-005	Abnormal Noise Confirmation	Heat Center Target Temp	ENG	[100 to 180 / 130 / 1deg]
1-153-006	Abnormal Noise Confirmation	Heat End Target Temp	ENG	[100 to 180 / 130 / 1deg]
1-153-007	Abnormal Noise Confirmation	Press Target Temp	ENG	[0 to 200 / 0 / 1deg]
1-154-001	Switch:Rotation Start/Stop	Judging Method Change	ENG*	[0 to 1 / 0 / 1] 0: ON 1: OFF
1-154-005	Switch:Rotation Start/Stop	Heater ON Timing	ENG*	[0 to 250 / 50 / 110msec]
1-154-006	Switch:Rotation Start/Stop	Overshoot Prevent Temp.:SC	ENG*	[0 to 250 / * / 1deg] *SP C840DN: 195 *SP C842DN: 200
1-155-001	Small Size Paper Control	Print Width	ENG*	[0 to 300 / 0 / 1mm]
1-156-001	Switch:Rotation Start/Stop	Jam judgment switch	ENG*	[0 to 1 / 1 / 1] 0: OFF 1: ON
1-	Switch:Rotation	Jam judge Std:Center	ENG*	[180 to 255 / 255 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
156-002	Start/Stop			
1-156-003	Switch:Rotation Start/Stop	Jam judge Std:End	ENG*	[180 to 255 / 255 / 1deg]
1-156-004	Switch:Rotation Start/Stop	Jam judge Mid:Center	ENG*	[180 to 255 / 255 / 1deg]
1-156-005	Switch:Rotation Start/Stop	Jam judge Mid:End	ENG*	[180 to 255 / 255 / 1deg]
1-156-006	Switch:Rotation Start/Stop	Jam judge Low:Center	ENG*	[180 to 255 / 205 / 1deg]
1-156-007	Switch:Rotation Start/Stop	Jam judge Low:End	ENG*	[180 to 255 / 240 / 1deg]

SP1-157 to SP1-955

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-157-001	Overshoot Prevent Control	Decision Time	ENG*	[0 to 100 / 5 / 1sec]
1-157-002	Overshoot Prevent Control	Decision Temp.	ENG*	[0 to 250 / * / 1deg] *SP C840DN: 195 *SP C842DN: 200
1-157-003	Overshoot Prevent Control		ENG*	[0 to 300 / 15 / 1sec]
1-157-004	Overshoot Prevent Control	Timeout	ENG*	[0 to 300 / 300 / 1sec]
1-161-001	Shading Plate Control	Judgment Temp A	ENG	[0 to 250 / 250 / 1deg]
1-161-002	Shading Plate Control	Judgment Temp B	ENG	[0 to 250 / 250 / 1deg]
1-161-003	Shading Plate Control	Position Transition Time	ENG	[0 to 10000 / 1000 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-161-004	Shading Plate Control	After Transition Time Out	ENG	[0 to 20000 / 0 / 1msec]
1-161-005	Shading Plate Control	Shading Plate Retry Volume	ENG*	[0 to 100 / 60 / 1pulse]
1-162-001	Shading Plate Control	Shading Position Temp: 12inch: 1	ENG	[0 to 250 / 185 / 1deg]
1-162-002	Shading Plate Control	Shading Position Temp: 12inch: 2	ENG	[0 to 250 / 190 / 1deg]
1-162-003	Shading Plate Control	Shading Position Temp: 12inch: 3	ENG	[0 to 250 / 203 / 1deg]
1-162-004	Shading Plate Control	Shading Position Temp: A3: 1	ENG	[0 to 250 / 150 / 1deg]
1-162-005	Shading Plate Control	Shading Position Temp: A3: 2	ENG	[0 to 250 / 160 / 1deg]
1-162-006	Shading Plate Control	Shading Position Temp: A3: 3	ENG	[0 to 250 / 170 / 1deg]
1-162-007	Shading Plate Control	Shading Position Temp: DLT: 1	ENG	[0 to 250 / 120 / 1deg]
1-162-008	Shading Plate Control	Shading Position Temp: DLT: 2	ENG	[0 to 250 / 140 / 1deg]
1-162-009	Shading Plate Control	Shading Position Temp: DLT: 3	ENG	[0 to 250 / 150 / 1deg]
1-162-010	Shading Plate Control	Shading Position Temp: B4: 1	ENG	[0 to 250 / 120 / 1deg]
1-162-011	Shading Plate Control	Shading Position Temp: B4: 2	ENG	[0 to 250 / 140 / 1deg]
1-162-012	Shading Plate Control	Shading Position Temp: B4: 3	ENG	[0 to 250 / 150 / 1deg]
1-162-013	Shading Plate Control	Shading Position Temp: LT: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-014	Shading Plate Control	Shading Position Temp: LT: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-015	Shading Plate Control	Shading Position Temp: LT: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-016	Shading Plate Control	Shading Position Temp: A4: 1	ENG	[0 to 250 / 250 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-162-017	Shading Plate Control	Shading Position Temp: A4: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-018	Shading Plate Control	Shading Position Temp: A4: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-019	Shading Plate Control	Shading Position Temp: B5: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-020	Shading Plate Control	Shading Position Temp: B5: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-021	Shading Plate Control	Shading Position Temp: B5: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-022	Shading Plate Control	Shading Position Temp: A5: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-023	Shading Plate Control	Shading Position Temp: A5: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-024	Shading Plate Control	Shading Position Temp: A5: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-025	Shading Plate Control	Shading Position Temp: B6: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-026	Shading Plate Control	Shading Position Temp: B6: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-027	Shading Plate Control	Shading Position Temp: B6: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-028	Shading Plate Control	Shading Position Temp: DLEnv: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-029	Shading Plate Control	Shading Position Temp: DLEnv: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-030	Shading Plate Control	Shading Position Temp: DLEnv: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-031	Shading Plate Control	Shading Position Temp: COM10: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-032	Shading Plate Control	Shading Position Temp: COM10: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-033	Shading Plate Control	Shading Position Temp: COM10: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-034	Shading Plate Control	Shading Position Temp: Postcard: 1	ENG	[0 to 250 / 250 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-162-035	Shading Plate Control	Shading Position Temp: Postcard: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-036	Shading Plate Control	Shading Position Temp: Postcard: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-037	Shading Plate Control	Shading Position Temp: 12inch: 4	ENG	[0 to 250 / 205 / 1deg]
1-162-038	Shading Plate Control	Shading Position Temp: 12inch: 5	ENG	[0 to 250 / 208 / 1deg]
1-162-039	Shading Plate Control	Shading Position Temp: 12inch: 6	ENG	[0 to 250 / 210 / 1deg]
1-162-040	Shading Plate Control	Shading Position Temp: 12inch: 7	ENG	[0 to 250 / 212 / 1deg]
1-162-041	Shading Plate Control	Shading Position Temp: 12inch: 8	ENG	[0 to 250 / 215 / 1deg]
1-162-042	Shading Plate Control	Shading Position Temp: A3: 4	ENG	[0 to 250 / 180 / 1deg]
1-162-043	Shading Plate Control	Shading Position Temp: A3: 5	ENG	[0 to 250 / 190 / 1deg]
1-162-044	Shading Plate Control	Shading Position Temp: A3: 6	ENG	[0 to 250 / 195 / 1deg]
1-162-045	Shading Plate Control	Shading Position Temp: A3: 7	ENG	[0 to 250 / 200 / 1deg]
1-162-046	Shading Plate Control	Shading Position Temp: A3: 8	ENG	[0 to 250 / 203 / 1deg]
1-162-047	Shading Plate Control	Shading Position Temp: DLT: 4	ENG	[0 to 250 / 160 / 1deg]
1-162-048	Shading Plate Control	Shading Position Temp: DLT: 5	ENG	[0 to 250 / 170 / 1deg]
1-162-049	Shading Plate Control	Shading Position Temp: DLT: 6	ENG	[0 to 250 / 175 / 1deg]
1-162-050	Shading Plate Control	Shading Position Temp: DLT: 7	ENG	[0 to 250 / 180 / 1deg]
1-162-051	Shading Plate Control	Shading Position Temp: DLT: 8	ENG	[0 to 250 / 185 / 1deg]
1-162-052	Shading Plate Control	Shading Position Temp: B4: 4	ENG	[0 to 250 / 160 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-162-053	Shading Plate Control	Shading Position Temp: B4: 5	ENG	[0 to 250 / 170 / 1deg]
1-162-054	Shading Plate Control	Shading Position Temp: B4: 6	ENG	[0 to 250 / 175 / 1deg]
1-162-055	Shading Plate Control	Shading Position Temp: B4: 7	ENG	[0 to 250 / 180 / 1deg]
1-162-056	Shading Plate Control	Shading Position Temp: B4: 8	ENG	[0 to 250 / 185 / 1deg]
1-162-057	Shading Plate Control	Shading Position Temp: LT: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-058	Shading Plate Control	Shading Position Temp: LT: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-059	Shading Plate Control	Shading Position Temp: LT: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-060	Shading Plate Control	Shading Position Temp: LT: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-061	Shading Plate Control	Shading Position Temp: LT: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-062	Shading Plate Control	Shading Position Temp: A4: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-063	Shading Plate Control	Shading Position Temp: A4: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-064	Shading Plate Control	Shading Position Temp: A4: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-065	Shading Plate Control	Shading Position Temp: A4: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-066	Shading Plate Control	Shading Position Temp: A4: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-067	Shading Plate Control	Shading Position Temp: B5: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-068	Shading Plate Control	Shading Position Temp: B5: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-069	Shading Plate Control	Shading Position Temp: B5: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-070	Shading Plate Control	Shading Position Temp: B5: 7	ENG	[0 to 250 / 250 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-162-071	Shading Plate Control	Shading Position Temp: B5: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-072	Shading Plate Control	Shading Position Temp: A5: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-073	Shading Plate Control	Shading Position Temp: A5: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-074	Shading Plate Control	Shading Position Temp: A5: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-075	Shading Plate Control	Shading Position Temp: A5: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-076	Shading Plate Control	Shading Position Temp: A5: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-077	Shading Plate Control	Shading Position Temp: B6: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-078	Shading Plate Control	Shading Position Temp: B6: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-079	Shading Plate Control	Shading Position Temp: B6: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-080	Shading Plate Control	Shading Position Temp: B6: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-081	Shading Plate Control	Shading Position Temp: B6: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-082	Shading Plate Control	Shading Position Temp: DLEnv: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-083	Shading Plate Control	Shading Position Temp: DLEnv: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-084	Shading Plate Control	Shading Position Temp: DLEnv: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-085	Shading Plate Control	Shading Position Temp: DLEnv: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-086	Shading Plate Control	Shading Position Temp: DLEnv: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-087	Shading Plate Control	Shading Position Temp: COM10: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-088	Shading Plate Control	Shading Position Temp: COM10: 5	ENG	[0 to 250 / 250 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-162-089	Shading Plate Control	Shading Position Temp: COM10: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-090	Shading Plate Control	Shading Position Temp: COM10: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-091	Shading Plate Control	Shading Position Temp: COM10: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-092	Shading Plate Control	Shading Position Temp: Postcard: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-093	Shading Plate Control	Shading Position Temp: Postcard: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-094	Shading Plate Control	Shading Position Temp: Postcard: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-095	Shading Plate Control	Shading Position Temp: Postcard: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-096	Shading Plate Control	Shading Position Temp: Postcard: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-121	Shading Plate Control	Shading Position Temp: SRA3: 1	ENG	[0 to 250 / 250 / 1deg]
1-162-122	Shading Plate Control	Shading Position Temp: SRA3: 2	ENG	[0 to 250 / 250 / 1deg]
1-162-123	Shading Plate Control	Shading Position Temp: SRA3: 3	ENG	[0 to 250 / 250 / 1deg]
1-162-124	Shading Plate Control	Shading Position Temp: SRA3: 4	ENG	[0 to 250 / 250 / 1deg]
1-162-125	Shading Plate Control	Shading Position Temp: SRA3: 5	ENG	[0 to 250 / 250 / 1deg]
1-162-126	Shading Plate Control	Shading Position Temp: SRA3: 6	ENG	[0 to 250 / 250 / 1deg]
1-162-127	Shading Plate Control	Shading Position Temp: SRA3: 7	ENG	[0 to 250 / 250 / 1deg]
1-162-128	Shading Plate Control	Shading Position Temp: SRA3: 8	ENG	[0 to 250 / 250 / 1deg]
1-162-201	Shading Plate Control	Shading Position Temp: 12inch: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-202	Shading Plate Control	Shading Position Temp: A3: Clear	ENG	[0 to 250 / 0 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-162-203	Shading Plate Control	Shading Position Temp: DLT: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-204	Shading Plate Control	Shading Position Temp: B4: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-205	Shading Plate Control	Shading Position Temp: LT: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-206	Shading Plate Control	Shading Position Temp: A4: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-207	Shading Plate Control	Shading Position Temp: B5: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-208	Shading Plate Control	Shading Position Temp: A5: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-209	Shading Plate Control	Shading Position Temp: B6: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-210	Shading Plate Control	Shading Position Temp: DLEnv: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-211	Shading Plate Control	Shading Position Temp: COM10: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-212	Shading Plate Control	Shading Position Temp: Postcard: Clear	ENG	[0 to 250 / 0 / 1deg]
1-162-213	Shading Plate Control	Shading Position Temp: SRA3: Clear	ENG	[0 to 250 / 0 / 1deg]
1-163-001	Shading Plate Control	Shading Position Time: 12inch: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-002	Shading Plate Control	Shading Position Time: 12inch: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-003	Shading Plate Control	Shading Position Time: 12inch: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-004	Shading Plate Control	Shading Position Time: A3: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-005	Shading Plate Control	Shading Position Time: A3: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-006	Shading Plate Control	Shading Position Time: A3: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-007	Shading Plate Control	Shading Position Time: DLT: 1	ENG	[0 to 10000 / 10 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-163-008	Shading Plate Control	Shading Position Time: DLT: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-009	Shading Plate Control	Shading Position Time: DLT: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-010	Shading Plate Control	Shading Position Time: B4: 1	ENG	[0 to 10000 / 5 / 1sec]
1-163-011	Shading Plate Control	Shading Position Time: B4: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-012	Shading Plate Control	Shading Position Time: B4: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-013	Shading Plate Control	Shading Position Time: LT: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-014	Shading Plate Control	Shading Position Time: LT: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-015	Shading Plate Control	Shading Position Time: LT: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-016	Shading Plate Control	Shading Position Time: A4: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-017	Shading Plate Control	Shading Position Time: A4: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-018	Shading Plate Control	Shading Position Time: A4: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-019	Shading Plate Control	Shading Position Time: B5: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-020	Shading Plate Control	Shading Position Time: B5: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-021	Shading Plate Control	Shading Position Time: B5: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-022	Shading Plate Control	Shading Position Time: A5: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-023	Shading Plate Control	Shading Position Time: A5: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-024	Shading Plate Control	Shading Position Time: A5: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-025	Shading Plate Control	Shading Position Time: B6: 1	ENG	[0 to 10000 / 10000 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-163-026	Shading Plate Control	Shading Position Time: B6: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-027	Shading Plate Control	Shading Position Time: B6: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-028	Shading Plate Control	Shading Position Time: DLEnv: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-029	Shading Plate Control	Shading Position Time: DLEnv: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-030	Shading Plate Control	Shading Position Time: DLEnv: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-031	Shading Plate Control	Shading Position Time: COM10: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-032	Shading Plate Control	Shading Position Time: COM10: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-033	Shading Plate Control	Shading Position Time: COM10: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-034	Shading Plate Control	Shading Position Time: Postcard: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-035	Shading Plate Control	Shading Position Time: Postcard: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-036	Shading Plate Control	Shading Position Time: Postcard: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-037	Shading Plate Control	Shading Position Time: 12inch: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-038	Shading Plate Control	Shading Position Time: 12inch: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-039	Shading Plate Control	Shading Position Time: 12inch: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-040	Shading Plate Control	Shading Position Time: 12inch: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-041	Shading Plate Control	Shading Position Time: 12inch: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-042	Shading Plate Control	Shading Position Time: A3: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-043	Shading Plate Control	Shading Position Time: A3: 5	ENG	[0 to 10000 / 10000 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-163-044	Shading Plate Control	Shading Position Time: A3: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-045	Shading Plate Control	Shading Position Time: A3: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-046	Shading Plate Control	Shading Position Time: A3: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-047	Shading Plate Control	Shading Position Time: DLT: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-048	Shading Plate Control	Shading Position Time: DLT: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-049	Shading Plate Control	Shading Position Time: DLT: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-050	Shading Plate Control	Shading Position Time: DLT: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-051	Shading Plate Control	Shading Position Time: DLT: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-052	Shading Plate Control	Shading Position Time: B4: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-053	Shading Plate Control	Shading Position Time: B4: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-054	Shading Plate Control	Shading Position Time: B4: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-055	Shading Plate Control	Shading Position Time: B4: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-056	Shading Plate Control	Shading Position Time: B4: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-057	Shading Plate Control	Shading Position Time: LT: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-058	Shading Plate Control	Shading Position Time: LT: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-059	Shading Plate Control	Shading Position Time: LT: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-060	Shading Plate Control	Shading Position Time: LT: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-061	Shading Plate Control	Shading Position Time: LT: 8	ENG	[0 to 10000 / 10000 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-163-062	Shading Plate Control	Shading Position Time: A4: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-063	Shading Plate Control	Shading Position Time: A4: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-064	Shading Plate Control	Shading Position Time: A4: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-065	Shading Plate Control	Shading Position Time: A4: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-066	Shading Plate Control	Shading Position Time: A4: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-067	Shading Plate Control	Shading Position Time: B5: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-068	Shading Plate Control	Shading Position Time: B5: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-069	Shading Plate Control	Shading Position Time: B5: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-070	Shading Plate Control	Shading Position Time: B5: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-071	Shading Plate Control	Shading Position Time: B5: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-072	Shading Plate Control	Shading Position Time: A5: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-073	Shading Plate Control	Shading Position Time: A5: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-074	Shading Plate Control	Shading Position Time: A5: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-075	Shading Plate Control	Shading Position Time: A5: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-076	Shading Plate Control	Shading Position Time: A5: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-077	Shading Plate Control	Shading Position Time: B6: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-078	Shading Plate Control	Shading Position Time: B6: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-079	Shading Plate Control	Shading Position Time: B6: 6	ENG	[0 to 10000 / 10000 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-163-080	Shading Plate Control	Shading Position Time: B6: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-081	Shading Plate Control	Shading Position Time: B6: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-082	Shading Plate Control	Shading Position Time: DLEnv: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-083	Shading Plate Control	Shading Position Time: DLEnv: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-084	Shading Plate Control	Shading Position Time: DLEnv: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-085	Shading Plate Control	Shading Position Time: DLEnv: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-086	Shading Plate Control	Shading Position Time: DLEnv: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-087	Shading Plate Control	Shading Position Time: COM10: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-088	Shading Plate Control	Shading Position Time: COM10: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-089	Shading Plate Control	Shading Position Time: COM10: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-090	Shading Plate Control	Shading Position Time: COM10: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-091	Shading Plate Control	Shading Position Time: COM10: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-092	Shading Plate Control	Shading Position Time: Postcard: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-093	Shading Plate Control	Shading Position Time: Postcard: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-094	Shading Plate Control	Shading Position Time: Postcard: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-095	Shading Plate Control	Shading Position Time: Postcard: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-096	Shading Plate Control	Shading Position Time: Postcard: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-121	Shading Plate Control	Shading Position Time: SRA3: 1	ENG	[0 to 10000 / 10000 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-163-122	Shading Plate Control	Shading Position Time: SRA3: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-123	Shading Plate Control	Shading Position Time: SRA3: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-124	Shading Plate Control	Shading Position Time: SRA3: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-125	Shading Plate Control	Shading Position Time: SRA3: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-126	Shading Plate Control	Shading Position Time: SRA3: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-127	Shading Plate Control	Shading Position Time: SRA3: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-128	Shading Plate Control	Shading Position Time: SRA3: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-163-131	Shading Plate Control	Shading Position Time: ECO: 1	ENG	[0 to 10000 / 10000 / 1sec]
1-163-132	Shading Plate Control	Shading Position Time: ECO: 2	ENG	[0 to 10000 / 10000 / 1sec]
1-163-133	Shading Plate Control	Shading Position Time: ECO: 3	ENG	[0 to 10000 / 10000 / 1sec]
1-163-134	Shading Plate Control	Shading Position Time: ECO: 4	ENG	[0 to 10000 / 10000 / 1sec]
1-163-135	Shading Plate Control	Shading Position Time: ECO: 5	ENG	[0 to 10000 / 10000 / 1sec]
1-163-136	Shading Plate Control	Shading Position Time: ECO: 6	ENG	[0 to 10000 / 10000 / 1sec]
1-163-137	Shading Plate Control	Shading Position Time: ECO: 7	ENG	[0 to 10000 / 10000 / 1sec]
1-163-138	Shading Plate Control	Shading Position Time: ECO: 8	ENG	[0 to 10000 / 10000 / 1sec]
1-164-001	Shading Plate Control	Shading Position: 12inch: 1	ENG	[0 to 1000 / 10 / 1pluse]
1-164-002	Shading Plate Control	Shading Position: 12inch: 2	ENG	[0 to 1000 / 20 / 1pluse]
1-164-003	Shading Plate Control	Shading Position: 12inch: 3	ENG	[0 to 1000 / 30 / 1pluse]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-164-004	Shading Plate Control	Shading Position: A3: 1	ENG	[0 to 1000 / 60 / 1pluse]
1-164-005	Shading Plate Control	Shading Position: A3: 2	ENG	[0 to 1000 / 70 / 1pluse]
1-164-006	Shading Plate Control	Shading Position: A3: 3	ENG	[0 to 1000 / 95 / 1pluse]
1-164-007	Shading Plate Control	Shading Position: DLT: 1	ENG	[0 to 1000 / 160 / 1pluse]
1-164-008	Shading Plate Control	Shading Position: DLT: 2	ENG	[0 to 1000 / 180 / 1pluse]
1-164-009	Shading Plate Control	Shading Position: DLT: 3	ENG	[0 to 1000 / 200 / 1pluse]
1-164-010	Shading Plate Control	Shading Position: B4: 1	ENG	[0 to 1000 / 320 / 1pluse]
1-164-011	Shading Plate Control	Shading Position: B4: 2	ENG	[0 to 1000 / 320 / 1pluse]
1-164-012	Shading Plate Control	Shading Position: B4: 3	ENG	[0 to 1000 / 320 / 1pluse]
1-164-013	Shading Plate Control	Shading Position: LT: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-014	Shading Plate Control	Shading Position: LT: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-015	Shading Plate Control	Shading Position: LT: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-016	Shading Plate Control	Shading Position: A4: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-017	Shading Plate Control	Shading Position: A4: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-018	Shading Plate Control	Shading Position: A4: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-019	Shading Plate Control	Shading Position: B5: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-020	Shading Plate Control	Shading Position: B5: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-021	Shading Plate Control	Shading Position: B5: 3	ENG	[0 to 1000 / 0 / 1pluse]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-164-022	Shading Plate Control	Shading Position: A5: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-023	Shading Plate Control	Shading Position: A5: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-024	Shading Plate Control	Shading Position: A5: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-025	Shading Plate Control	Shading Position: B6: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-026	Shading Plate Control	Shading Position: B6: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-027	Shading Plate Control	Shading Position: B6: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-028	Shading Plate Control	Shading Position: DLEnv: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-029	Shading Plate Control	Shading Position: DLEnv: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-030	Shading Plate Control	Shading Position: DLEnv: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-031	Shading Plate Control	Shading Position: COM10: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-032	Shading Plate Control	Shading Position: COM10: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-033	Shading Plate Control	Shading Position: COM10: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-034	Shading Plate Control	Shading Position: Postcard: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-035	Shading Plate Control	Shading Position: Postcard: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-036	Shading Plate Control	Shading Position: Postcard: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-037	Shading Plate Control	Shading Position: 12inch: 4	ENG	[0 to 1000 / 40 / 1pluse]
1-164-038	Shading Plate Control	Shading Position: 12inch: 5	ENG	[0 to 1000 / 50 / 1pluse]
1-164-039	Shading Plate Control	Shading Position: 12inch: 6	ENG	[0 to 1000 / 80 / 1pluse]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-164-040	Shading Plate Control	Shading Position: 12inch: 7	ENG	[0 to 1000 / 130 / 1pluse]
1-164-041	Shading Plate Control	Shading Position: 12inch: 8	ENG	[0 to 1000 / 170 / 1pluse]
1-164-042	Shading Plate Control	Shading Position: A3: 4	ENG	[0 to 1000 / 120 / 1pluse]
1-164-043	Shading Plate Control	Shading Position: A3: 5	ENG	[0 to 1000 / 150 / 1pluse]
1-164-044	Shading Plate Control	Shading Position: A3: 6	ENG	[0 to 1000 / 180 / 1pluse]
1-164-045	Shading Plate Control	Shading Position: A3: 7	ENG	[0 to 1000 / 220 / 1pluse]
1-164-046	Shading Plate Control	Shading Position: A3: 8	ENG	[0 to 1000 / 260 / 1pluse]
1-164-047	Shading Plate Control	Shading Position: DLT: 4	ENG	[0 to 1000 / 220 / 1pluse]
1-164-048	Shading Plate Control	Shading Position: DLT: 5	ENG	[0 to 1000 / 240 / 1pluse]
1-164-049	Shading Plate Control	Shading Position: DLT: 6	ENG	[0 to 1000 / 260 / 1pluse]
1-164-050	Shading Plate Control	Shading Position: DLT: 7	ENG	[0 to 1000 / 290 / 1pluse]
1-164-051	Shading Plate Control	Shading Position: DLT: 8	ENG	[0 to 1000 / 320 / 1pluse]
1-164-052	Shading Plate Control	Shading Position: B4: 4	ENG	[0 to 1000 / 320 / 1pluse]
1-164-053	Shading Plate Control	Shading Position: B4: 5	ENG	[0 to 1000 / 320 / 1pluse]
1-164-054	Shading Plate Control	Shading Position: B4: 6	ENG	[0 to 1000 / 320 / 1pluse]
1-164-055	Shading Plate Control	Shading Position: B4: 7	ENG	[0 to 1000 / 320 / 1pluse]
1-164-056	Shading Plate Control	Shading Position: B4: 8	ENG	[0 to 1000 / 320 / 1pluse]
1-164-057	Shading Plate Control	Shading Position: LT: 4	ENG	[0 to 1000 / 0 / 1pluse]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-164-058	Shading Plate Control	Shading Position: LT: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-059	Shading Plate Control	Shading Position: LT: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-060	Shading Plate Control	Shading Position: LT: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-061	Shading Plate Control	Shading Position: LT: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-062	Shading Plate Control	Shading Position: A4: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-063	Shading Plate Control	Shading Position: A4: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-064	Shading Plate Control	Shading Position: A4: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-065	Shading Plate Control	Shading Position: A4: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-066	Shading Plate Control	Shading Position: A4: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-067	Shading Plate Control	Shading Position: B5: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-068	Shading Plate Control	Shading Position: B5: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-069	Shading Plate Control	Shading Position: B5: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-070	Shading Plate Control	Shading Position: B5: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-071	Shading Plate Control	Shading Position: B5: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-072	Shading Plate Control	Shading Position: A5: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-073	Shading Plate Control	Shading Position: A5: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-074	Shading Plate Control	Shading Position: A5: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-075	Shading Plate Control	Shading Position: A5: 7	ENG	[0 to 1000 / 0 / 1pluse]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-164-076	Shading Plate Control	Shading Position: A5: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-077	Shading Plate Control	Shading Position: B6: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-078	Shading Plate Control	Shading Position: B6: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-079	Shading Plate Control	Shading Position: B6: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-080	Shading Plate Control	Shading Position: B6: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-081	Shading Plate Control	Shading Position: B6: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-082	Shading Plate Control	Shading Position: DLEnv: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-083	Shading Plate Control	Shading Position: DLEnv: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-084	Shading Plate Control	Shading Position: DLEnv: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-085	Shading Plate Control	Shading Position: DLEnv: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-086	Shading Plate Control	Shading Position: DLEnv: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-087	Shading Plate Control	Shading Position: COM10: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-088	Shading Plate Control	Shading Position: COM10: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-089	Shading Plate Control	Shading Position: COM10: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-090	Shading Plate Control	Shading Position: COM10: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-091	Shading Plate Control	Shading Position: COM10: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-092	Shading Plate Control	Shading Position: Postcard: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-093	Shading Plate Control	Shading Position: Postcard: 5	ENG	[0 to 1000 / 0 / 1pluse]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-164-094	Shading Plate Control	Shading Position: Postcard: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-095	Shading Plate Control	Shading Position: Postcard: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-096	Shading Plate Control	Shading Position: Postcard: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-164-121	Shading Plate Control	Shading Position: SRA3: 1	ENG	[0 to 1000 / 0 / 1pluse]
1-164-122	Shading Plate Control	Shading Position: SRA3: 2	ENG	[0 to 1000 / 0 / 1pluse]
1-164-123	Shading Plate Control	Shading Position: SRA3: 3	ENG	[0 to 1000 / 0 / 1pluse]
1-164-124	Shading Plate Control	Shading Position: SRA3: 4	ENG	[0 to 1000 / 0 / 1pluse]
1-164-125	Shading Plate Control	Shading Position: SRA3: 5	ENG	[0 to 1000 / 0 / 1pluse]
1-164-126	Shading Plate Control	Shading Position: SRA3: 6	ENG	[0 to 1000 / 0 / 1pluse]
1-164-127	Shading Plate Control	Shading Position: SRA3: 7	ENG	[0 to 1000 / 0 / 1pluse]
1-164-128	Shading Plate Control	Shading Position: SRA3: 8	ENG	[0 to 1000 / 0 / 1pluse]
1-165-001	Shading Plate Control	Execution Judgement	ENG*	[0 to 1 / 0 / 1] 0: ON 1: OFF
1-165-101	Shading Plate Control	Continuous Error Times	ENG*	[0 to 10 / 0 / 1]
1-801-001	Moter Speed Adjust	Feed CCW:Plain:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-002	Moter Speed Adjust	Feed CCW:Plain:Std	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-003	Moter Speed Adjust	Feed CCW:Mid-thick:Low	ENG*	[-2 to 2 / 11 / 0.1%]
1-801-004	Moter Speed Adjust	Feed CCW:Mid-thick:Std	ENG*	[-2 to 2 / 11 / 0.1%]
1-801-	Moter Speed	Feed CCW:Thick 1:Low	ENG*	[-2 to 2 / 12 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005	Adjust			
1-801-006	Moter Speed Adjust	Feed CCW:Thick 1:Mid	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-007	Moter Speed Adjust	Feed CCW:Thick 2:Low	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-008	Moter Speed Adjust	Feed CCW:Thick 3:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-009	Moter Speed Adjust	Feed CCW:Thick 4:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-010	Moter Speed Adjust	Feed CW:Plain:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-011	Moter Speed Adjust	Feed CW:Plain:Std	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-012	Moter Speed Adjust	Feed CW:Mid-thick:Low	ENG*	[-2 to 2 / 11 / 0.1%]
1-801-013	Moter Speed Adjust	Feed CW:Mid-thick:Std	ENG*	[-2 to 2 / 11 / 0.1%]
1-801-014	Moter Speed Adjust	Feed CW:Thick 1:Low	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-015	Moter Speed Adjust	Feed CW:Thick 1:Mid	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-016	Moter Speed Adjust	Feed CW:Thick 2:Low	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-017	Moter Speed Adjust	Feed CW:Thick 3:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-018	Moter Speed Adjust	Feed CW:Thick 4:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-019	Moter Speed Adjust	Vertical Feed:Plain:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-020	Moter Speed Adjust	Vertical Feed:Plain:Std	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-021	Moter Speed Adjust	Vertical Feed:Mid-thick:Low	ENG*	[-2 to 2 / 11 / 0.1%]
1-801-022	Moter Speed Adjust	Vertical Feed:Mid-thick:Std	ENG*	[-2 to 2 / 11 / 0.1%]
1-801-	Moter Speed	Vertical Feed:Thick 1:Low	ENG*	[-2 to 2 / 12 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
023	Adjust			
1-801-024	Moter Speed Adjust	Vertical Feed:Thick 1:Mid	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-025	Moter Speed Adjust	Vertical Feed:Thick 2:Low	ENG*	[-2 to 2 / 12 / 0.1%]
1-801-026	Moter Speed Adjust	Vertical Feed:Thick 3:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-027	Moter Speed Adjust	Vertical Feed:Thick 4:Low	ENG*	[-2 to 2 / 9 / 0.1%]
1-801-028	Moter Speed Adjust	Registration:Plain:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-029	Moter Speed Adjust	Registration:Plain:Std	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-030	Moter Speed Adjust	Registration:Mid-thick:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-031	Moter Speed Adjust	Registration:Mid-thick:Std	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-032	Moter Speed Adjust	Registration:Thick 1:Low	ENG*	[-2 to 2 / 4 / 0.1%]
1-801-033	Moter Speed Adjust	Registration:Thick1:Mid	ENG*	[-2 to 2 / 4 / 0.1%]
1-801-034	Moter Speed Adjust	Registration:Thick 2:Low	ENG*	[-2 to 2 / 4 / 0.1%]
1-801-035	Moter Speed Adjust	Registration:Thick 3:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-036	Moter Speed Adjust	Registration:Thick 4:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-037	Moter Speed Adjust	Exit CCW:Plain:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-038	Moter Speed Adjust	Exit CCW:Plain:Std	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-039	Moter Speed Adjust	Exit CCW:Mid-thick:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-040	Moter Speed Adjust	Exit CCW:Mid-thick:Std	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-	Moter Speed	Exit CCW:Thick1:Low	ENG*	[-4 to 4 / -8 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
041	Adjust			
1-801-042	Moter Speed Adjust	Exit CCW:Thick1:Mid	ENG*	[-4 to 4 / -6 / 0.1%]
1-801-043	Moter Speed Adjust	Exit CCW:Thick2:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-044	Moter Speed Adjust	Exit CCW:Thick3:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-045	Moter Speed Adjust	Exit CCW:Thick4:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-046	Moter Speed Adjust	Reverse CW:Plain:Low	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-047	Moter Speed Adjust	Reverse CW:Plain:Std	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-048	Moter Speed Adjust	Reverse CW:Mid-thick:Low	ENG*	[-4 to 4 / 5 / 0.1%]
1-801-049	Moter Speed Adjust	Reverse CW:Mid-thick:Std	ENG*	[-4 to 4 / 5 / 0.1%]
1-801-050	Moter Speed Adjust	Reverse CW:Thick1:Low	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-051	Moter Speed Adjust	Reverse CW:Thick1:Mid	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-052	Moter Speed Adjust	Reverse CW:Thick2:Low	ENG*	[-4 to 4 / 8 / 0.1%]
1-801-053	Moter Speed Adjust	Reverse CW:Thick3:Low	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-054	Moter Speed Adjust	Reverse CW:Thick4:Low	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-055	Moter Speed Adjust	Reverse CCW:Plain:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-056	Moter Speed Adjust	Reverse CCW:Plain:Std	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-057	Moter Speed Adjust	Reverse CCW:Mid-thick:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-058	Moter Speed Adjust	Reverse CCW:Mid-thick:Std	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-	Moter Speed	Reverse CCW:Thick1:Low	ENG*	[-4 to 4 / -8 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
059	Adjust			
1-801-060	Moter Speed Adjust	Reverse CCW:Thick1:Mid	ENG*	[-4 to 4 / -6 / 0.1%]
1-801-061	Moter Speed Adjust	Reverse CCW:Thick2:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-062	Moter Speed Adjust	Reverse CCW:Thick3:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-063	Moter Speed Adjust	Reverse CCW:Thick4:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-064	Moter Speed Adjust	Duplex Enter CW:Plain:Low	ENG*	[-4 to 4 / 14 / 0.1%]
1-801-065	Moter Speed Adjust	Duplex Enter CW:Plain:Std	ENG*	[-4 to 4 / 14 / 0.1%]
1-801-066	Moter Speed Adjust	Duplex Enter CW:Mid-thick:Low	ENG*	[-4 to 4 / 12 / 0.1%]
1-801-067	Moter Speed Adjust	Duplex Enter CW:Mid-thick:Std	ENG*	[-4 to 4 / 12 / 0.1%]
1-801-068	Moter Speed Adjust	Duplex Enter CW:Thick1:Low	ENG*	[-4 to 4 / 15 / 0.1%]
1-801-069	Moter Speed Adjust	Duplex Enter CW:Thick1:Mid	ENG*	[-4 to 4 / 15 / 0.1%]
1-801-070	Moter Speed Adjust	Duplex Enter CW:Thick2:Low	ENG*	[-4 to 4 / 15 / 0.1%]
1-801-071	Moter Speed Adjust	Duplex Enter CW:Thick3:Low	ENG*	[-4 to 4 / 14 / 0.1%]
1-801-072	Moter Speed Adjust	Duplex CW:Plain:Low	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-073	Moter Speed Adjust	Duplex CW:Plain:Std	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-074	Moter Speed Adjust	Duplex CW:Mid-thick:Low	ENG*	[-4 to 4 / 5 / 0.1%]
1-801-075	Moter Speed Adjust	Duplex CW:Mid-thick:Std	ENG*	[-4 to 4 / 5 / 0.1%]
1-801-076	Moter Speed Adjust	Duplex CW:Thick1:Low	ENG*	[-4 to 4 / 8 / 0.1%]
1-801-	Moter Speed	Duplex CW:Thick1:Mid	ENG*	[-4 to 4 / 8 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
077	Adjust			
1-801-078	Moter Speed Adjust	Duplex CW:Thick2:Low	ENG*	[-4 to 4 / 8 / 0.1%]
1-801-079	Moter Speed Adjust	Duplex CW:Thick3:Low	ENG*	[-4 to 4 / 7 / 0.1%]
1-801-080	Moter Speed Adjust	Duplex CCW:Plain:Low	ENG*	[-4 to 4 / 9 / 0.1%]
1-801-081	Moter Speed Adjust	Duplex CCW:Plain:Std	ENG*	[-4 to 4 / 9 / 0.1%]
1-801-082	Moter Speed Adjust	Duplex CCW:Mid-thick:Low	ENG*	[-4 to 4 / 11 / 0.1%]
1-801-083	Moter Speed Adjust	Duplex CCW:Mid-thick:Std	ENG*	[-4 to 4 / 11 / 0.1%]
1-801-084	Moter Speed Adjust	Duplex CCW:Thick1:Low	ENG*	[-4 to 4 / 12 / 0.1%]
1-801-085	Moter Speed Adjust	Duplex CCW:Thick1:Mid	ENG*	[-4 to 4 / 12 / 0.1%]
1-801-086	Moter Speed Adjust	Duplex CCW:Thick2:Low	ENG*	[-4 to 4 / 12 / 0.1%]
1-801-087	Moter Speed Adjust	Duplex CCW:Thick3:Low	ENG*	[-4 to 4 / 9 / 0.1%]
1-801-088	Moter Speed Adjust	Duplex CCW:Thick4:Low	ENG*	[-4 to 4 / 9 / 0.1%]
1-801-089	Motor Speed Adjust	Relay Motor Speed Adjust:Low	ENG*	[-4 to 4 / 0 / 0.1%]
1-801-090	Motor Speed Adjust	Relay Motor Speed Adjust:Mid	ENG*	[-4 to 4 / 0 / 0.1%]
1-801-091	Motor Speed Adjust	Relay Motor Speed Adjust:Standard	ENG*	[-4 to 4 / 0 / 0.1%]
1-801-100	Motor Speed Adj.	Drum Adjust	ENG*	[0 to 1 / 1 / 1]
1-801-101	Motor Speed Adj.	Offset:ColorOpcMot:Standard	ENG*	[-10 to 0.1 / 0 / 0.01Hz]
1-801-102	Motor Speed Adj.	Offset:ColorOpcMot:Mid	ENG*	[-10 to 0.1 / 0 / 0.01Hz]
1-801-	Motor Speed Adj.	Offset:ColorOpcMot:Low	ENG*	[-10 to 0.1 / 0 / 0.01Hz]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
103				
1-801-106	Motor Speed Adj.	ColorOpcMot:Standard	ENG*	[-10 to 0.1 / 0 / 0.01Hz]
1-801-107	Motor Speed Adj.	ColorOpcMot:Mid	ENG*	[-10 to 0.1 / 0 / 0.01Hz]
1-801-108	Motor Speed Adj.	ColorOpcMot:Low	ENG*	[-10 to 0.1 / 0 / 0.01Hz]
1-801-109	Motor Speed Adj.	BkDevMot:Standard	ENG*	[-20 to 20 / 0 / 0.1%]
1-801-110	Motor Speed Adj.	BkDevMot:Mid	ENG*	[-20 to 20 / 0 / 0.1%]
1-801-111	Motor Speed Adj.	BkDevMot:Low	ENG*	[-20 to 20 / 0 / 0.1%]
1-801-115	Motor Speed Adj.	ColorDevMot:Standard	ENG*	[-20 to 20 / 0 / 0.1%]
1-801-116	Motor Speed Adj.	ColorDevMot:Mid	ENG*	[-20 to 20 / 0 / 0.1%]
1-801-117	Motor Speed Adj.	ColorDevMot:Low	ENG*	[-20 to 20 / 0 / 0.1%]
1-801-118	Motor Speed Adj.	Fusing:Standard	ENG*	[-10 to 0.1 / -140 / 0.01%]
1-801-119	Motor Speed Adj.	Fusing:Mid	ENG*	[-10 to 0.1 / -100 / 0.01%]
1-801-120	Motor Speed Adj.	Fusing:Low	ENG*	[-10 to 0.1 / -100 / 0.01%]
1-801-121	Motor Speed Adj.	Fusing:Low:1200:Plain	ENG*	[-10 to 0.1 / -140 / 0.01%]
1-801-122	Motor Speed Adj.	OPCTransferMot:Standard	ENG*	[-10 to 0.1 / 20 / 0.01%]
1-801-123	Motor Speed Adj.	OPCTransferMot:Mid	ENG*	[-10 to 0.1 / 20 / 0.01%]
1-801-124	Motor Speed Adj.	OPCTransferMot:Low	ENG*	[-10 to 0.1 / 20 / 0.01%]
1-801-125	Motor Speed Adj.	Fusing:Low:Thick 4	ENG*	[-10 to 0.1 / -50 / 0.01%]
1-801-	Motor Speed Adj.	ColorOpcMot:Standard:independence	ENG*	[-10 to 0.1 / -20 / 0.01%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
133				
1-801-134	Motor Speed Adj.	ColorOpcMot:Mid:independence	ENG*	[-10 to 0.1 / -20 / 0.01%]
1-801-135	Motor Speed Adj.	ColorOpcMot:Low:independence	ENG*	[-10 to 0.1 / -20 / 0.01%]
1-801-140	Motor Speed Adjust	Long:Registration:Plain:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-141	Motor Speed Adjust	Long:Registration:Plain:High	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-142	Motor Speed Adjust	Long:Registration:Middle Thick:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-143	Motor Speed Adjust	Long:Registration:Middle Thick:High	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-144	Motor Speed Adjust	Long:Registration:Thick 1:Low	ENG*	[-2 to 2 / 4 / 0.1%]
1-801-145	Motor Speed Adjust	Long:Registration:Thick 1:Middle	ENG*	[-2 to 2 / 4 / 0.1%]
1-801-146	Motor Speed Adjust	Long:Registration:Thick 2:Low	ENG*	[-2 to 2 / 4 / 0.1%]
1-801-147	Motor Speed Adjust	Long:Registration:Thick 3:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-148	Motor Speed Adjust	Long:Registration:Thick 4:Low	ENG*	[-2 to 2 / 3 / 0.1%]
1-801-160	Motor Speed Adjust	Long:Fusing:Plain:Low	ENG*	[-10 to 0.1 / -120 / 0.01%]
1-801-161	Motor Speed Adjust	Long:Fusing:Plain:High	ENG*	[-10 to 0.1 / -140 / 0.01%]
1-801-162	Motor Speed Adjust	Long:Fusing:Middle Thick:Low	ENG*	[-10 to 0.1 / -80 / 0.01%]
1-801-163	Motor Speed Adjust	Long:Fusing:Middle Thick:High	ENG*	[-10 to 0.1 / -140 / 0.01%]
1-801-164	Motor Speed Adjust	Long:Fusing:Thick 1:Low	ENG*	[-10 to 0.1 / -80 / 0.01%]
1-801-165	Motor Speed Adjust	Long:Fusing:Thick 1:Middle	ENG*	[-10 to 0.1 / -80 / 0.01%]
1-801-	Motor Speed	Long:Fusing:Thick 2:Low	ENG*	[-10 to 0.1 / -80 / 0.01%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
166	Adjust			
1-801-167	Motor Speed Adjust	Long:Fusing:Thick 3:Low	ENG*	[-10 to 0.1 / -80 / 0.01%]
1-801-168	Motor Speed Adjust	Long:Fusing:Thick 4:Low	ENG*	[-10 to 0.1 / -80 / 0.01%]
1-801-180	Motor Speed Adjust	Long:Exit CCW:Plain:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-181	Motor Speed Adjust	Long:Exit CCW:Plain:High	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-182	Motor Speed Adjust	Long:Exit CCW:Middle Thick:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-183	Motor Speed Adjust	Long:Exit CCW:Middle Thick:High	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-184	Motor Speed Adjust	Long:Exit CCW:Thick 1:Low	ENG*	[-4 to 4 / -8 / 0.1%]
1-801-185	Motor Speed Adjust	Long:Exit CCW:Thick 1:Middle	ENG*	[-4 to 4 / -6 / 0.1%]
1-801-186	Motor Speed Adjust	Long:Exit CCW:Thick 2:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-187	Motor Speed Adjust	Long:Exit CCW:Thick 3:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-801-188	Motor Speed Adjust	Long:Exit CCW:Thick 4:Low	ENG*	[-4 to 4 / -9 / 0.1%]
1-805-050	Motor Gain Adj.	DuplexInM:Speed Detective Gain	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-051	Motor Gain Adj.	DuplexInM:Position Loop Gain	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-052	Motor Gain Adj.	DuplexInM:Proportional Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-053	Motor Gain Adj.	DuplexInM:Integral Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-054	Motor Gain Adj.	DuplexInM:Derivative Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-055	Motor Gain Adj.	DuplexInM:Derivative Gain:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-	Motor Gain Adj.	DuplexInM:Proportional Gain:FF	ENG*	[0 to 200 / 10000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
056				0.01%]
1-805-057	Motor Gain Adj.	DuplexInM:Offset:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-058	Motor Gain Adj.	DuplexInM:Numerator Coefficient:LPF:B0	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-059	Motor Gain Adj.	DuplexInM:Denominator Coefficient:LPF:A1	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-060	Motor Gain Adj.	DuplexInM:Denominator Coefficient:LPF:A2	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-061	Motor Gain Adj.	DuplexM:Speed Detective Gain	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-062	Motor Gain Adj.	DuplexM:Position Loop Gain	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-063	Motor Gain Adj.	DuplexM:Proportional Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-064	Motor Gain Adj.	DuplexM:Integral Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-065	Motor Gain Adj.	DuplexM:Derivative Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-066	Motor Gain Adj.	DuplexM:Derivative Gain:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-067	Motor Gain Adj.	DuplexM:Proportional Gain:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-068	Motor Gain Adj.	DuplexM:Offset:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-069	Motor Gain Adj.	DuplexM:Numerator Coefficient:LPF:B0	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-070	Motor Gain Adj.	DuplexM:Denominator Coefficient:LPF:A1	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-071	Motor Gain Adj.	DuplexM:Denominator Coefficient:LPF:A2	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-072	Motor Gain Adj.	DuplexM:Speed Detective Gain	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-073	Motor Gain Adj.	DuplexM:Position Loop Gain	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-	Motor Gain Adj.	DuplexM:Proportional Gain:PID	ENG*	[0 to 200 / 5000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
074				0.01%]
1-805-075	Motor Gain Adj.	DuplexM:Integral Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-076	Motor Gain Adj.	DuplexM:Derivative Gain:PID	ENG*	[0 to 200 / 5000 / 0.01%]
1-805-077	Motor Gain Adj.	DuplexM:Derivative Gain:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-078	Motor Gain Adj.	DuplexM:Proportional Gain:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-079	Motor Gain Adj.	DuplexM:Offset:FF	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-080	Motor Gain Adj.	DuplexM:Numerator Coefficient:LPF:B0	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-081	Motor Gain Adj.	DuplexM:Denominator Coefficient:LPF:A1	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-082	Motor Gain Adj.	DuplexM:Denominator Coefficient:LPF:A2	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-115	Motor Gain Adj.	DuplexInM:Proportional Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-116	Motor Gain Adj.	DuplexInM:Integral Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-117	Motor Gain Adj.	DuplexInM:Derivative Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-118	Motor Gain Adj.	DuplexM:Proportional Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-119	Motor Gain Adj.	DuplexM:Integral Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-120	Motor Gain Adj.	DuplexM:Derivative Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-121	Motor Gain Adj.	DuplexM:Proportional Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-122	Motor Gain Adj.	DuplexM:Integral Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-805-123	Motor Gain Adj.	DuplexM:Derivative Gain:PID	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-	Motor Speed	DuplexInM:Acceleration1	ENG*	[0 to 200 / 10000 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
020	Profile			0.01%]
1-806-021	Motor Speed Profile	DuplexInM:Deceleration1	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-022	Motor Speed Profile	DuplexInM:Acceleration2	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-023	Motor Speed Profile	DuplexInM:Deceleration2	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-024	Motor Speed Profile	DuplexM:Acceleration1	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-025	Motor Speed Profile	DuplexM:Deceleration1	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-026	Motor Speed Profile	DuplexM:Acceleration2	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-027	Motor Speed Profile	DuplexM:Deceleration2	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-028	Motor Speed Profile	DuplexM:Acceleration1	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-029	Motor Speed Profile	DuplexM:Deceleration1	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-030	Motor Speed Profile	DuplexM:Acceleration2	ENG*	[0 to 200 / 10000 / 0.01%]
1-806-031	Motor Speed Profile	DuplexM:Deceleration2	ENG*	[0 to 200 / 10000 / 0.01%]
1-902-001	Drum Phase Adj.	Execute	ENG	[0 to 1 / 0 / 1]
1-907-001	Paper Feed Timing Adj.	Feed Solenoid ON:Tray1:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-002	Paper Feed Timing Adj.	Feed Solenoid ON:Tray1:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-003	Paper Feed Timing Adj.	Feed Solenoid ON:Tray2:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-004	Paper Feed Timing Adj.	Feed Solenoid ON:Tray2:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-005	Paper Feed Timing Adj.	Feed DCM OFF:Tray1:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-	Paper Feed	Feed DCM OFF:Tray1:Thick	ENG*	[-20 to 20 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
006	Timing Adj.			
1-907-007	Paper Feed Timing Adj.	Feed DCM OFF:Tray2:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-008	Paper Feed Timing Adj.	Feed DCM OFF:Tray2:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-009	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray1:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-010	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray1:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-011	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray2:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-012	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray2:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-013	Paper Feed Timing Adj.	Feed Start:Tray1:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-014	Paper Feed Timing Adj.	Feed Start:Tray1:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-015	Paper Feed Timing Adj.	Feed Start:Tray2:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-016	Paper Feed Timing Adj.	Feed Start:Tray2:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-017	Paper Feed Timing Adj.	Feed Re-Start:Tray1:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-018	Paper Feed Timing Adj.	Feed Re-Start:Tray1:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-019	Paper Feed Timing Adj.	Feed Re-Start:Tray2:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-020	Paper Feed Timing Adj.	Feed Re-Start:Tray2:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-021	Paper Feed Timing Adj.	Feed Re2-Start:Tray2:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-022	Paper Feed Timing Adj.	Feed Re2-Start:Tray2:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-023	Paper Feed Timing Adj.	Registration DCM OFF:Plain	ENG*	[-5 to 5 / 0 / 0.1mm]
1-907-	Paper Feed	Registration DCM OFF:Thick	ENG*	[-5 to 5 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
024	Timing Adj.			
1-907-025	Paper Feed Timing Adj.	By-pass Solenoid ON:Low	ENG*	[0 to 40 / 0 / 1mm]
1-907-026	Paper Feed Timing Adj.	By-pass Solenoid ON:Mid	ENG*	[0 to 40 / 0 / 1mm]
1-907-027	Paper Feed Timing Adj.	By-pass Solenoid ON:Std	ENG	[0 to 40 / 0 / 1mm]
1-907-028	Paper Feed Timing Adj.	By-pass Solenoid OFF	ENG*	[0 to 40 / 0 / 1mm]
1-907-029	Paper Feed Timing Adj.	By-pass Size Decision Timing	ENG*	[1 to 3 / 3 / 1]
1-907-030	Paper Feed Timing Adj.	Duplex DCM OFF:Low	ENG*	[-10 to 10 / 0 / 1mm]
1-907-031	Paper Feed Timing Adj.	Duplex DCM OFF:Mid	ENG*	[-10 to 10 / 0 / 1mm]
1-907-032	Paper Feed Timing Adj.	Duplex DCM OFF:Std	ENG	[-10 to 10 / 0 / 1mm]
1-907-033	Paper Feed Timing Adj.	ExitPaperJunction SOL ON:Low	ENG*	[-10 to 10 / 0 / 1mm]
1-907-034	Paper Feed Timing Adj.	ExitPaperJunction SOL ON:Mid	ENG*	[-10 to 10 / 0 / 1mm]
1-907-035	Paper Feed Timing Adj.	ExitPaperJunction SOL ON:Std	ENG	[-10 to 10 / 0 / 1mm]
1-907-036	Paper Feed Timing Adj.	ExitPaperJunction SOL OFF:Low	ENG*	[-10 to 10 / 0 / 1mm]
1-907-037	Paper Feed Timing Adj.	ExitPaperJunction SOL OFF:Mid	ENG*	[-10 to 10 / 0 / 1mm]
1-907-038	Paper Feed Timing Adj.	ExitPaperJunction SOL OFF:Std	ENG	[-10 to 10 / 0 / 1mm]
1-907-039	Paper Feed Timing Adj.	Reverse Position:Plain	ENG*	[-10 to 10 / 0 / 1mm]
1-907-040	Paper Feed Timing Adj.	Reverse Position:Thick	ENG*	[-10 to 10 / 0 / 1mm]
1-907-041	Paper Feed Timing Adj.	Duplex Enter Position:Plain	ENG	[-10 to 10 / 0 / 1mm]
1-907-	Paper Feed	Duplex Enter Position:Thick	ENG	[-10 to 10 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
042	Timing Adj.			
1-907-043	Paper Feed Timing Adj.	Duplex Re-Feed Position:Plain	ENG*	[-10 to 10 / 0 / 1mm]
1-907-044	Paper Feed Timing Adj.	Duplex Re-Feed Position:Thick	ENG*	[-10 to 10 / 0 / 1mm]
1-907-045	Paper Feed Timing Adj.	ExitM:Accelerate Position:Normal Speed	ENG	[-5 to 15 / 0 / 1mm]
1-907-046	Paper Feed Timing Adj.	ExitM:Accelerate Position:Middle Speed	ENG	[-5 to 15 / 0 / 1mm]
1-907-047	Paper Feed Timing Adj.	ExitM:Accelerate Position:Low Speed	ENG	[-5 to 15 / 0 / 1mm]
1-907-048	Paper Feed Timing Adj.	ExitM:Accelerate Position:Low:1200:Plain	ENG	[-5 to 15 / 0 / 1mm]
1-907-061	Paper Feed Timing Adj.	Feed Solenoid ON:Tray3:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-062	Paper Feed Timing Adj.	Feed Solenoid ON:Tray3:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-063	Paper Feed Timing Adj.	Feed Solenoid ON:Tray4:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-064	Paper Feed Timing Adj.	Feed Solenoid ON:Tray4:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-065	Paper Feed Timing Adj.	Feed Solenoid ON:Tray5(LCT):Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-066	Paper Feed Timing Adj.	Feed Solenoid ON:Tray5(LCT):Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-067	Paper Feed Timing Adj.	Feed DCM OFF:Tray3:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-068	Paper Feed Timing Adj.	Feed DCM OFF:Tray3:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-069	Paper Feed Timing Adj.	Feed DCM OFF:Tray4:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-070	Paper Feed Timing Adj.	Feed DCM OFF:Tray4:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-071	Paper Feed Timing Adj.	Feed DCM OFF:Tray5(LCT):Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-	Paper Feed	Feed DCM OFF:Tray5(LCT):Thick	ENG	[-20 to 20 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
072	Timing Adj.			
1-907-073	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray3:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-074	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray3:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-075	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray4:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-076	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray4:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-077	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray5(LCT):Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-078	Paper Feed Timing Adj.	Feed Solenoid OFF:Tray5(LCT):Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-079	Paper Feed Timing Adj.	Feed Start:Tray3:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-080	Paper Feed Timing Adj.	Feed Start:Tray3:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-081	Paper Feed Timing Adj.	Feed Start:Tray4:Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-082	Paper Feed Timing Adj.	Feed Start:Tray4:Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-083	Paper Feed Timing Adj.	Feed Start:Tray5(LCT):Plain	ENG	[-20 to 20 / 0 / 1mm]
1-907-084	Paper Feed Timing Adj.	Feed Start:Tray5(LCT):Thick	ENG	[-20 to 20 / 0 / 1mm]
1-907-085	Paper Feed Timing Adj.	ExitLineSpdUp EndPos:StdSpd	ENG*	[-30 to 15 / 0 / 1mm]
1-907-086	Paper Feed Timing Adj.	ExitLineSpdUp EndPos:MidSpd	ENG*	[-30 to 15 / 0 / 1mm]
1-907-087	Paper Feed Timing Adj.	ExitLineSpdUp EndPos:LowSpd	ENG*	[-30 to 15 / 0 / 1mm]
1-907-088	Paper Feed Timing Adj.	ExitLineSpdUp EndPos:LowSpd:1200:Plain	ENG*	[-30 to 15 / 0 / 1mm]
1-907-090	Paper Feed Timing Adj.	Fusing Exit SOL ON: LowSpd	ENG*	[-15 to 15 / 0 / 1mm]
1-907-	Paper Feed	Fusing Exit SOL ON: MidSpd	ENG*	[-15 to 15 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
091	Timing Adj.			
1-907-092	Paper Feed Timing Adj.	Fusing Exit SOL ON: StdSpd	ENG*	[-15 to 15 / 0 / 1mm]
1-907-093	Paper Feed Timing Adj.	Fusing Exit SOL OFF: LowSpd	ENG*	[-15 to 15 / 0 / 1mm]
1-907-094	Paper Feed Timing Adj.	Fusing Exit SOL OFF: MidSpd	ENG*	[-15 to 15 / 0 / 1mm]
1-907-095	Paper Feed Timing Adj.	Fusing Exit SOL OFF: StdSpd	ENG*	[-15 to 15 / 0 / 1mm]
1-907-096	Operation Setting	Fusing Exit SOL Setting	ENG*	[0 to 6 / 0 / 1] 0: Normal Control 1: Fusing Exit SOL ON: Bypass 2:Fusing Exit SOL ON: Except Bypass 3:Fusing Exit SOL ON: All Trays 4:Fusing Exit SOL OFF: Bypass 5:Fusing Exit SOL OFF: Except Bypass 6:Fusing Exit SOL OFF: All Trays
1-907-097	Paper Feed Timing Adj.	Feed Re-Start:Tray3:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-098	Paper Feed Timing Adj.	Feed Re-Start:Tray3:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-099	Paper Feed Timing Adj.	Feed Re-Start:Tray4:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-100	Paper Feed Timing Adj.	Feed Re-Start:Tray4:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-101	Paper Feed Timing Adj.	Feed Re-Start:Tray5(LCT):Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-102	Paper Feed Timing Adj.	Feed Re-Start:Tray5(LCT):Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-	Paper Feed	Feed Re2-Start:Tray3:Plain	ENG*	[-20 to 20 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
103	Timing Adj.			
1-907-104	Paper Feed Timing Adj.	Feed Re2-Start:Tray3:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-105	Paper Feed Timing Adj.	Feed Re2-Start:Tray4:Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-106	Paper Feed Timing Adj.	Feed Re2-Start:Tray4:Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-107	Paper Feed Timing Adj.	Feed Re2-Start:Tray5(LCT):Plain	ENG*	[-20 to 20 / 0 / 1mm]
1-907-108	Paper Feed Timing Adj.	Feed Re2-Start:Tray5(LCT):Thick	ENG*	[-20 to 20 / 0 / 1mm]
1-907-109	Paper Feed Timing Adj.	Manual Feed Regist. Stop Timing: Env	ENG	[0 to 40 / 0 / 1mm]
1-908-001	Paper Feed Length	History:Last	ENG	[-99 to 99 / 0 / 1mm]
1-908-002	Paper Feed Length	History:Last 2	ENG	[-99 to 99 / 0 / 1mm]
1-908-003	Paper Feed Length	History:Last 3	ENG	[-99 to 99 / 0 / 1mm]
1-908-004	Paper Feed Length	History:Last 4	ENG	[-99 to 99 / 0 / 1mm]
1-908-005	Paper Feed Length	History:Last 5	ENG	[-99 to 99 / 0 / 1mm]
1-908-006	Paper Feed Length	History:Last 6	ENG	[-99 to 99 / 0 / 1mm]
1-908-007	Paper Feed Length	History:Last 7	ENG	[-99 to 99 / 0 / 1mm]
1-908-008	Paper Feed Length	History:Last 8	ENG	[-99 to 99 / 0 / 1mm]
1-908-009	Paper Feed Length	History:Last 9	ENG	[-99 to 99 / 0 / 1mm]
1-908-010	Paper Feed Length	History:Last 10	ENG	[-99 to 99 / 0 / 1mm]
1-950-003	Fan Cooling Time Set	Dev Cooling Fan	ENG*	[0 to 120 / 0 / 1min]
1-950-	Fan Cooling Time	Ozone Fan	ENG*	[0 to 120 / 0 / 1min]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005	Set			
1-950-006	Fan Cooling Time Set	Fusing Fan	ENG*	[0 to 120 / 0 / 1min]
1-950-007	Fan Cooling Time Set	Paper Exit Cooling Fan	ENG*	[0 to 120 / 0 / 1min]
1-950-011	Fan Cooling Time Set	PSU Cooling Fan	ENG*	[0 to 120 / 0 / 1min]
1-950-051	Fan Cooling Time Set	Dev Suction Fan: Right	ENG*	[0 to 120 / 0 / 1min]
1-950-061	Extra Fan Op Decision time	Fusing Fan	ENG*	[0 to 10000 / 480 / 1sec]
1-950-062	Extra Fan Op Decision time	Paper Exit Cooling Fan	ENG*	[0 to 10000 / 480 / 1sec]
1-950-071	Extra Fan Cooling Time Set	Fusing Fan	ENG*	[0 to 900 / 120 / 1sec]
1-950-072	Extra Fan Cooling Time Set	Paper Exit Cooling Fan	ENG*	[0 to 900 / 120 / 1sec]
1-951-003	Fan Start Time Set	Dev Cooling Fan	ENG*	[0 to 900 / 120 / 1sec]
1-951-005	Fan Start Time Set	Ozone Fan	ENG*	[0 to 900 / 0 / 1sec]
1-951-006	Fan Start Time Set	Fusing Fan	ENG*	[0 to 900 / 120 / 1sec]
1-951-007	Fan Start Time Set	Paper Exit Cooling Fan	ENG*	[0 to 900 / 120 / 1sec]
1-951-011	Fan Start Time Set	PSU Cooling Fan	ENG*	[0 to 900 / 120 / 1sec]
1-951-051	Fan Start Time Set	Dev Suction Fan: Right	ENG*	[0 to 900 / 0 / 1sec]
1-952-001	Fan Control Off Mode Time Set		ENG*	[0 to 60 / 10 / 1min]
1-953-001	Extra Fan Control	Extra Fan Cooling State	ENG	[0 to 1 / 0 / 1]
1-953-002	Extra Fan Control	Execution Temp. Threshold	ENG*	[0 to 100 / 390 / 0.1deg]
1-953-	Extra Fan Control	Cancellation Temp. Threshold	ENG*	[0 to 100 / 20 / 0.1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
1-953-004	Extra Fan Control	Extra Fan Operation ON/OFF Setting	ENG*	[0 to 1 / 1 / 1]
1-955-004	Fan Control	Dev Cooling Fan Op Sw Temp	ENG*	[0 to 100 / 330 / 0.1deg]
1-955-006	Fan Control	Paper Exit Cooling Fan Op Sw Temp	ENG*	[0 to 100 / 120 / 0.1deg]
1-955-007	Fan Control	Fusing Fan Op Sw Temp	ENG*	[0 to 100 / 0 / 0.1deg]
1-955-009	Fan Control	Ozone Fan Low Speed Op Sw Temp	ENG*	[0 to 100 / 275 / 0.1deg]
1-955-010	Fan Control	Ozone Fan Middle Speed Op Sw Temp	ENG*	[0 to 100 / 330 / 0.1deg]
1-955-011	Fan Control	Ozone Fan High Speed Op Sw Temp	ENG*	[0 to 100 / 400 / 0.1deg]
1-955-012	Fan Control	Ozone Fan Low Noise Op DUTY	ENG*	[0 to 100 / 20 / 1%]
1-955-013	Fan Control	Ozone Fan Low Speed Op DUTY	ENG*	[0 to 100 / 30 / 1%]
1-955-014	Fan Control	Ozone Fan Middle Speed Op DUTY	ENG*	[0 to 100 / 40 / 1%]
1-955-015	Fan Control	Ozone Fan High Speed Op DUTY	ENG*	[0 to 100 / 40 / 1%]
1-955-016	Fan Control	Paper Exit Cooling Fan Op Start Time A	ENG*	[0 to 900 / 300 / 1sec]
1-955-017	Fan Control	PSU Cooling Fan Op Start Time A	ENG*	[0 to 900 / * / 1sec] *SP C840DN: 120 *SP C842DN: 40
1-955-018	Fan Control	Fan Op Sw Temp Thers	ENG*	[0 to 100 / 20 / 0.1deg]
1-955-019	Fan Control	Paper Exit Cooling Fan Control Off Mode Time	ENG*	[0 to 3600 / 600 / 1sec]
1-955-020	Fan Control	PSU Cooling Fan Control Off Mode Time	ENG*	[0 to 3600 / 600 / 1sec]
1-955-051	Fan Control	Dev Suction Fan: Right Op Sw Temp	ENG*	[0 to 100 / 330 / 0.1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-955-062	Fan Control	Dev Suction Fan: Right Op Start Time	ENG*	[0 to 900 / 300 / 1sec]
1-955-063	Fan Control	Paper Exit Cooling Fan Op Start Time B	ENG*	[0 to 900 / 300 / 1sec]
1-955-064	Fan Control	PSU Cooling Fan Op Start Time B	ENG*	[0 to 900 / * / 1sec] *SP C840DN: 120 *SP C842DN: 40
1-955-065	Fan Control	PSU Cooling Fan Op Start Time C	ENG*	[0 to 900 / 0 / 1sec]
1-955-066	Fan Control	PSU Cooling Fan Op Start Time D	ENG*	[0 to 900 / 0 / 1sec]
1-955-071	Fan Control	Ozone Fan Extra Op DUTY	ENG*	[0 to 100 / 20 / 1%]

Engine SP2-XXX (Drum)

SP2-005 to SP2-487

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-001	Charge DC Voltage: Fixed	Standard Speed: K	ENG*	[0 to 2000 / 690 / 10-V]
2-005-002	Charge DC Voltage: Fixed	Standard Speed: C	ENG*	[0 to 2000 / 690 / 10-V]
2-005-003	Charge DC Voltage: Fixed	Standard Speed: M	ENG*	[0 to 2000 / 690 / 10-V]
2-005-004	Charge DC Voltage: Fixed	Standard Speed: Y	ENG*	[0 to 2000 / 690 / 10-V]
2-005-005	Charge DC Voltage: Fixed	Middle Speed: K	ENG*	[0 to 2000 / 690 / 10-V]
2-005-006	Charge DC Voltage: Fixed	Middle Speed: C	ENG*	[0 to 2000 / 690 / 10-V]
2-005-007	Charge DC Voltage: Fixed	Middle Speed: M	ENG*	[0 to 2000 / 690 / 10-V]
2-005-008	Charge DC Voltage: Fixed	Middle Speed: Y	ENG*	[0 to 2000 / 690 / 10-V]
2-005-009	Charge DC Voltage: Fixed	Low Speed: K	ENG*	[0 to 2000 / 690 / 10-V]
2-005-010	Charge DC Voltage: Fixed	Low Speed: C	ENG*	[0 to 2000 / 690 / 10-V]
2-005-	Charge DC Voltage: Fixed	Low Speed: M	ENG*	[0 to 2000 / 690 / 10-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
2-005-012	Charge DC Voltage: Fixed	Low Speed: Y	ENG*	[0 to 2000 / 690 / 10-V]
2-005-013	Charge DC Voltage: Correction	PCU: Standard Speed	ENG*	[-100 to 100 / 0 / 1-V]
2-005-014	Charge DC Voltage: Correction	PCU: Middle Speed	ENG*	[-100 to 100 / 0 / 1-V]
2-005-015	Charge DC Voltage: Correction	PCU: Low Speed	ENG*	[-100 to 100 / 0 / 1-V]
2-005-018	Charge DC Voltage: Correction	Correction Coefficient a: K	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-019	Charge DC Voltage: Correction	Correction Coefficient a: C	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-020	Charge DC Voltage: Correction	Correction Coefficient a: M	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-021	Charge DC Voltage: Correction	Correction Coefficient a: Y	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-022	Charge DC Voltage: Correction	Correction Coefficient b: K	ENG*	[0 to 2000 / 20 / 1-V]
2-005-023	Charge DC Voltage: Correction	Correction Coefficient b: C	ENG*	[0 to 2000 / 20 / 1-V]
2-005-024	Charge DC Voltage: Correction	Correction Coefficient b: M	ENG*	[0 to 2000 / 20 / 1-V]
2-	Charge DC Voltage: Correction	Correction Coefficient b: Y	ENG*	[0 to 2000 / 20

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005-025				/ 1-V]
2-005-026	Charge DC Voltage: Correction	Correction Coefficient c: K	ENG*	[0 to 100 / 0 / 1-V]
2-005-027	Charge DC Voltage: Correction	Correction Coefficient c: C	ENG*	[0 to 100 / 0 / 1-V]
2-005-028	Charge DC Voltage: Correction	Correction Coefficient c: M	ENG*	[0 to 100 / 0 / 1-V]
2-005-029	Charge DC Voltage: Correction	Correction Coefficient c: Y	ENG*	[0 to 100 / 0 / 1-V]
2-005-030	Charge DC Voltage: Correction	Temperature Threshold L: K	ENG*	[0 to 99 / 15 / 1deg]
2-005-031	Charge DC Voltage: Correction	Temperature Threshold L: C	ENG*	[0 to 99 / 15 / 1deg]
2-005-032	Charge DC Voltage: Correction	Temperature Threshold L: M	ENG*	[0 to 99 / 16 / 1deg]
2-005-033	Charge DC Voltage: Correction	Temperature Threshold L: Y	ENG*	[0 to 99 / 16 / 1deg]
2-005-034	Charge DC Voltage: Correction	Temperature Threshold M: K	ENG*	[0 to 99 / 22 / 1deg]
2-005-035	Charge DC Voltage: Correction	Temperature Threshold M: C	ENG*	[0 to 99 / 22 / 1deg]
2-005-036	Charge DC Voltage: Correction	Temperature Threshold M: M	ENG*	[0 to 99 / 23 / 1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-037	Charge DC Voltage: Correction	Temperature Threshold M: Y	ENG*	[0 to 99 / 23 / 1deg]
2-005-038	Charge DC Voltage: Correction	Temperature Threshold H: K	ENG*	[0 to 99 / 28 / 1deg]
2-005-039	Charge DC Voltage: Correction	Temperature Threshold H: C	ENG*	[0 to 99 / 28 / 1deg]
2-005-040	Charge DC Voltage: Correction	Temperature Threshold H: M	ENG*	[0 to 99 / 29 / 1deg]
2-005-041	Charge DC Voltage: Correction	Temperature Threshold H: Y	ENG*	[0 to 99 / 29 / 1deg]
2-005-043	Charge DC Voltage: Correction	DC Bias Fixed Value Set	ENG*	[0 to 1 / 0 / 1-]
2-005-044	Charge DC Voltage: Correction	Correction Coefficient a: Fixed K	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-045	Charge DC Voltage: Correction	Correction Coefficient a: Fixed C	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-046	Charge DC Voltage: Correction	Correction Coefficient a: Fixed M	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-047	Charge DC Voltage: Correction	Correction Coefficient a: Fixed Y	ENG*	[0 to 2 / 1000 / 0.001-]
2-005-048	Charge DC Voltage: Correction	Correction Coefficient b: Fixed K	ENG*	[0 to 2000 / 20 / 1-V]
2-005-049	Charge DC Voltage: Correction	Correction Coefficient b: Fixed C	ENG*	[0 to 2000 / 20 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-050	Charge DC Voltage: Correction	Correction Coefficient b: Fixed M	ENG*	[0 to 2000 / 20 / 1-V]
2-005-051	Charge DC Voltage: Correction	Correction Coefficient b: Fixed Y	ENG*	[0 to 2000 / 20 / 1-V]
2-005-052	Charge DC Voltage: Correction	Correction Coefficient c: Fixed K	ENG*	[0 to 100 / 0 / 1-V]
2-005-053	Charge DC Voltage: Correction	Correction Coefficient c: Fixed C	ENG*	[0 to 100 / 0 / 1-V]
2-005-054	Charge DC Voltage: Correction	Correction Coefficient c: Fixed M	ENG*	[0 to 100 / 0 / 1-V]
2-005-055	Charge DC Voltage: Correction	Correction Coefficient c: Fixed Y	ENG*	[0 to 100 / 0 / 1-V]
2-005-089	Charge DC Voltage: Correction	Correction Coefficient Cd	ENG*	[-125 to 125 / 0 / 1-V]
2-005-090	Charge DC Voltage: Correction	Correction Coefficient Ce	ENG*	[-125 to 125 / 0 / 1-V]
2-005-091	Charge DC Voltage: Correction	Correction Coefficient Cf	ENG*	[-125 to 125 / 0 / 1-V]
2-005-092	Charge DC Voltage: Correction	Correction Coefficient Cg	ENG*	[-125 to 125 / 0 / 1-V]
2-005-093	Charge DC Voltage: Correction	Correction Coefficient Ch	ENG*	[-125 to 125 / 0 / 1-V]
2-005-094	Charge DC Voltage: Correction	Correction Coefficient Ci	ENG*	[-125 to 125 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-095	Charge DC Voltage: Correction	Correction Coefficient Cj	ENG*	[-125 to 125 / 0 / 1-V]
2-005-096	Charge DC Voltage: Correction	Correction Coefficient Ck	ENG*	[-125 to 125 / 0 / 1-V]
2-005-097	Charge DC Voltage: Correction	Correction Coefficient Cl	ENG*	[-125 to 125 / 0 / 1-V]
2-005-098	Charge DC Voltage: Correction	Correction Coefficient Cm	ENG*	[-125 to 125 / 0 / 1-V]
2-005-099	Charge DC Voltage: Correction	Correction Coefficient Cn	ENG*	[-125 to 125 / 0 / 1-V]
2-005-100	Charge DC Voltage: Correction	Correction Coefficient Co	ENG*	[-125 to 125 / 0 / 1-V]
2-005-101	Charge DC Voltage: Correction	Correction Coefficient Cp	ENG*	[-125 to 125 / 0 / 1-V]
2-005-102	Charge DC Voltage: Correction	Correction Coefficient Cq	ENG*	[-125 to 125 / 0 / 1-V]
2-005-103	Charge DC Voltage: Correction	Correction Coefficient Cr	ENG*	[-125 to 125 / 0 / 1-V]
2-005-104	Charge DC Voltage: Correction	Correction Coefficient Cs	ENG*	[-125 to 125 / 0 / 1-V]
2-005-105	Charge DC Voltage: Correction	Correction Coefficient Ct	ENG*	[-125 to 125 / 0 / 1-V]
2-005-106	Charge DC Voltage: Correction	Correction Coefficient Cu	ENG*	[-125 to 125 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-107	Charge DC Voltage: Correction	Correction Coefficient Cv	ENG*	[-125 to 125 / 0 / 1-V]
2-005-108	Charge DC Voltage: Correction	Correction Coefficient Cw	ENG*	[-125 to 125 / 0 / 1-V]
2-005-109	Charge DC Voltage: Correction	Correction Coefficient Cx	ENG*	[-125 to 125 / 0 / 1-V]
2-005-110	Charge DC Voltage: Correction	Correction Coefficient Cy	ENG*	[-125 to 125 / 0 / 1-V]
2-005-111	Charge DC Voltage: Correction	Correction Coefficient Cz	ENG*	[-125 to 125 / 0 / 1-V]
2-005-112	Charge DC Voltage: Correction	Correction Coefficient CAA	ENG*	[-125 to 125 / 0 / 1-V]
2-005-113	Charge DC Voltage: Correction	Correction Coefficient CAB	ENG*	[-125 to 125 / 0 / 1-V]
2-005-114	Charge DC Voltage: Correction	Correction Coefficient Md	ENG*	[-125 to 125 / 0 / 1-V]
2-005-115	Charge DC Voltage: Correction	Correction Coefficient Me	ENG*	[-125 to 125 / 0 / 1-V]
2-005-116	Charge DC Voltage: Correction	Correction Coefficient Mf	ENG*	[-125 to 125 / 0 / 1-V]
2-005-117	Charge DC Voltage: Correction	Correction Coefficient Mg	ENG*	[-125 to 125 / 0 / 1-V]
2-005-118	Charge DC Voltage: Correction	Correction Coefficient Mh	ENG*	[-125 to 125 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-119	Charge DC Voltage: Correction	Correction Coefficient Mi	ENG*	[-125 to 125 / 0 / 1-V]
2-005-120	Charge DC Voltage: Correction	Correction Coefficient Mj	ENG*	[-125 to 125 / 0 / 1-V]
2-005-121	Charge DC Voltage: Correction	Correction Coefficient Mk	ENG*	[-125 to 125 / 0 / 1-V]
2-005-122	Charge DC Voltage: Correction	Correction Coefficient Ml	ENG*	[-125 to 125 / 0 / 1-V]
2-005-123	Charge DC Voltage: Correction	Correction Coefficient Mm	ENG*	[-125 to 125 / 0 / 1-V]
2-005-124	Charge DC Voltage: Correction	Correction Coefficient Mn	ENG*	[-125 to 125 / 0 / 1-V]
2-005-125	Charge DC Voltage: Correction	Correction Coefficient Mo	ENG*	[-125 to 125 / 0 / 1-V]
2-005-126	Charge DC Voltage: Correction	Correction Coefficient Mp	ENG*	[-125 to 125 / 0 / 1-V]
2-005-127	Charge DC Voltage: Correction	Correction Coefficient Mq	ENG*	[-125 to 125 / 0 / 1-V]
2-005-128	Charge DC Voltage: Correction	Correction Coefficient Mr	ENG*	[-125 to 125 / 0 / 1-V]
2-005-129	Charge DC Voltage: Correction	Correction Coefficient Ms	ENG*	[-125 to 125 / 0 / 1-V]
2-005-130	Charge DC Voltage: Correction	Correction Coefficient Mt	ENG*	[-125 to 125 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-131	Charge DC Voltage: Correction	Correction Coefficient Mu	ENG*	[-125 to 125 / 0 / 1-V]
2-005-132	Charge DC Voltage: Correction	Correction Coefficient Mv	ENG*	[-125 to 125 / 0 / 1-V]
2-005-133	Charge DC Voltage: Correction	Correction Coefficient Mw	ENG*	[-125 to 125 / 0 / 1-V]
2-005-134	Charge DC Voltage: Correction	Correction Coefficient Mx	ENG*	[-125 to 125 / 0 / 1-V]
2-005-135	Charge DC Voltage: Correction	Correction Coefficient My	ENG*	[-125 to 125 / 0 / 1-V]
2-005-136	Charge DC Voltage: Correction	Correction Coefficient Mz	ENG*	[-125 to 125 / 0 / 1-V]
2-005-137	Charge DC Voltage: Correction	Correction Coefficient MAA	ENG*	[-125 to 125 / 0 / 1-V]
2-005-138	Charge DC Voltage: Correction	Correction Coefficient MAB	ENG*	[-125 to 125 / 0 / 1-V]
2-005-139	Charge DC Voltage: Correction	Correction Coefficient Yd	ENG*	[-125 to 125 / 0 / 1-V]
2-005-140	Charge DC Voltage: Correction	Correction Coefficient Ye	ENG*	[-125 to 125 / 0 / 1-V]
2-005-141	Charge DC Voltage: Correction	Correction Coefficient Yf	ENG*	[-125 to 125 / 0 / 1-V]
2-005-142	Charge DC Voltage: Correction	Correction Coefficient Yg	ENG*	[-125 to 125 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-143	Charge DC Voltage: Correction	Correction Coefficient Yh	ENG*	[-125 to 125 / 0 / 1-V]
2-005-144	Charge DC Voltage: Correction	Correction Coefficient Yi	ENG*	[-125 to 125 / 0 / 1-V]
2-005-145	Charge DC Voltage: Correction	Correction Coefficient Yj	ENG*	[-125 to 125 / 0 / 1-V]
2-005-146	Charge DC Voltage: Correction	Correction Coefficient Yk	ENG*	[-125 to 125 / 0 / 1-V]
2-005-147	Charge DC Voltage: Correction	Correction Coefficient Yl	ENG*	[-125 to 125 / 0 / 1-V]
2-005-148	Charge DC Voltage: Correction	Correction Coefficient Ym	ENG*	[-125 to 125 / 0 / 1-V]
2-005-149	Charge DC Voltage: Correction	Correction Coefficient Yn	ENG*	[-125 to 125 / 0 / 1-V]
2-005-150	Charge DC Voltage: Correction	Correction Coefficient Yo	ENG*	[-125 to 125 / 0 / 1-V]
2-005-151	Charge DC Voltage: Correction	Correction Coefficient Yp	ENG*	[-125 to 125 / 0 / 1-V]
2-005-152	Charge DC Voltage: Correction	Correction Coefficient Yq	ENG*	[-125 to 125 / 0 / 1-V]
2-005-153	Charge DC Voltage: Correction	Correction Coefficient Yr	ENG*	[-125 to 125 / 0 / 1-V]
2-005-154	Charge DC Voltage: Correction	Correction Coefficient Ys	ENG*	[-125 to 125 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-005-155	Charge DC Voltage: Correction	Correction Coefficient Yt	ENG*	[-125 to 125 / 0 / 1-V]
2-005-156	Charge DC Voltage: Correction	Correction Coefficient Yu	ENG*	[-125 to 125 / 0 / 1-V]
2-005-157	Charge DC Voltage: Correction	Correction Coefficient Yv	ENG*	[-125 to 125 / 0 / 1-V]
2-005-158	Charge DC Voltage: Correction	Correction Coefficient Yw	ENG*	[-125 to 125 / 0 / 1-V]
2-005-159	Charge DC Voltage: Correction	Correction Coefficient Yx	ENG*	[-125 to 125 / 0 / 1-V]
2-005-160	Charge DC Voltage: Correction	Correction Coefficient Yy	ENG*	[-125 to 125 / 0 / 1-V]
2-005-161	Charge DC Voltage: Correction	Correction Coefficient Yz	ENG*	[-125 to 125 / 0 / 1-V]
2-005-162	Charge DC Voltage: Correction	Correction Coefficient YAA	ENG*	[-125 to 125 / 0 / 1-V]
2-005-163	Charge DC Voltage: Correction	Correction Coefficient YAB	ENG*	[-125 to 125 / 0 / 1-V]
2-006-001	Charge AC Voltage: Fixed	Standard Speed: K	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-002	Charge AC Voltage: Fixed	Standard Speed: C	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-003	Charge AC Voltage: Fixed	Standard Speed: M	ENG*	[0 to 3 / 220 / 0.01kV]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-006-004	Charge AC Voltage: Fixed	Standard Speed: Y	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-005	Charge AC Voltage: Fixed	Middle Speed: K	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-006	Charge AC Voltage: Fixed	Middle Speed: C	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-007	Charge AC Voltage: Fixed	Middle Speed: M	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-008	Charge AC Voltage: Fixed	Middle Speed: Y	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-009	Charge AC Voltage: Fixed	Low Speed: K	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-010	Charge AC Voltage: Fixed	Low Speed: C	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-011	Charge AC Voltage: Fixed	Low Speed: M	ENG*	[0 to 3 / 220 / 0.01kV]
2-006-012	Charge AC Voltage: Fixed	Low Speed: Y	ENG*	[0 to 3 / 220 / 0.01kV]
2-007-001	Charge AC Current: LL	Environmental Target: Bk	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 140
2-007-002	Charge AC Current: LL	Environmental Target: C	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN:

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				102 *SP C842DN: 140
2-007-003	Charge AC Current: LL	Environmental Target: M	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 140
2-007-004	Charge AC Current: LL	Environmental Target: Y	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 140
2-008-001	Charge AC Current: ML	Environmental Target: Bk	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 141
2-008-002	Charge AC Current: ML	Environmental Target: C	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 141
2-008-003	Charge AC Current: ML	Environmental Target: M	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 141
2-008-004	Charge AC Current: ML	Environmental Target: Y	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN:

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				102 *SP C842DN: 141
2-009-001	Charge AC Current: MM	Environmental Target: Bk	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 142
2-009-002	Charge AC Current: MM	Environmental Target: C	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 142
2-009-003	Charge AC Current: MM	Environmental Target: M	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 142
2-009-004	Charge AC Current: MM	Environmental Target: Y	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 102 *SP C842DN: 142
2-010-001	Charge AC Current: MH	Environmental Target: Bk	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 105 *SP C842DN: 145
2-010-002	Charge AC Current: MH	Environmental Target: C	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN:

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				105 *SP C842DN: 145
2-010-003	Charge AC Current: MH	Environmental Target: M	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 105 *SP C842DN: 145
2-010-004	Charge AC Current: MH	Environmental Target: Y	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 105 *SP C842DN: 145
2-011-001	Charge AC Current: HH	Environmental Target: Bk	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 108 *SP C842DN: 149
2-011-002	Charge AC Current: HH	Environmental Target: C	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 108 *SP C842DN: 149
2-011-003	Charge AC Current: HH	Environmental Target: M	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN: 108 *SP C842DN: 149
2-011-004	Charge AC Current: HH	Environmental Target: Y	ENG*	[0 to 3 / * / 0.01mA] *SP C840DN:

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				108 *SP C842DN: 149
2-012-001	Charge Output Control	AC Voltage	ENG*	[0 to 1 / 0 / 1-]
2-013-001	Environmental Correction: PCU	Current Environmental FC : Display	ENG*	[0 to 0 / 0 / 1]
2-013-002	Environmental Correction: PCU	Forced Setting	ENG*	[0 to 5 / 0 / 1-]
2-013-003	Environmental Correction: PCU	Absolute Humidity: Threshold 1	ENG*	[0 to 100 / 300 / 0.01g/m^3]
2-013-004	Environmental Correction: PCU	Absolute Humidity: Threshold 2	ENG*	[0 to 100 / 800 / 0.01g/m^3]
2-013-005	Environmental Correction: PCU	Absolute Humidity: Threshold 3	ENG*	[0 to 100 / 1500 / 0.01g/m^3]
2-013-006	Environmental Correction: PCU	Absolute Humidity: Threshold 4	ENG*	[0 to 100 / 2200 / 0.01g/m^3]
2-013-007	Environmental Correction: PCU	Temp FC: Display	ENG*	[0 to 100 / 0 / 1deg]
2-013-008	Environmental Correction: PCU	Relative Humidity FC : Display	ENG*	[0 to 100 / 0 / 1%RH]
2-013-009	Environmental Correction: PCU	Absolute Humidity FC : Display	ENG*	[0 to 100 / 0 / 0.01g/m^3]
2-013-010	Environmental Correction: PCU	Environmental Bk: Display	ENG*	[0 to 0 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-013-011	Environmental Correction: PCU	Temp Bk.: Display	ENG*	[0 to 100 / 0 / 1deg]
2-013-012	Environmental Correction: PCU	Relative Humidity Bk : Display	ENG*	[0 to 100 / 0 / 1%RH]
2-013-013	Environmental Correction: PCU	Absolute Humidity Bk : Display	ENG*	[0 to 100 / 0 / 0.01g/m^3]
2-014-001	Charge AC Control: Setting	Exec Interval: Power ON	ENG*	[0 to 2000 / 500 / 1page]
2-014-002	Charge AC Control: Setting	Exec Interval: Print	ENG*	[0 to 2000 / 0 / 1page]
2-014-003	Charge AC Control: Setting	Page Interval	ENG*	[0 to 500 / 10 / 1page]
2-014-004	Charge AC Control: Setting	Temperature	ENG*	[0 to 99 / 35 / 1deg]
2-014-005	Charge AC Control: Setting	Relative Humidity	ENG*	[0 to 99 / 50 / 1%RH]
2-014-006	Charge AC Control: Setting	Absolute Humidity	ENG*	[0 to 99 / 12 / 1g/m^3]
2-014-007	Charge AC Control: Setting	Temp Threshold M	ENG*	[0 to 99 / 10 / 1deg]
2-014-008	Charge AC Control: Setting	RH Threshold M	ENG*	[0 to 99 / 50 / 1%RH]
2-014-009	Charge AC Control: Setting	AH Threshold M	ENG*	[0 to 99 / 6 / 1g/m^3]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-014-010	Charge AC Control: Setting	Temp Threshold S	ENG*	[0 to 20 / 10 / 0.1deg]
2-014-011	Charge AC Control: Setting	RH Threshold S	ENG*	[0 to 50 / 5 / 1%RH]
2-014-012	Charge AC Control: Setting	AH Threshold S	ENG*	[0 to 20 / 10 / 0.1g/m^3]
2-014-013	Charge AC Control: Setting	Non-use Time	ENG*	[0 to 1440 / 360 / 10min.]
2-014-014	Charge AC Control: Setting	AC Current Error Detection	ENG*	[0 to 1 / 0 / 1-]
2-015-001	Charge AC Adj: Result	Bk	ENG*	[0 to 9 / 0 / 1]
2-015-002	Charge AC Adj: Result	C	ENG*	[0 to 9 / 0 / 1]
2-015-003	Charge AC Adj: Result	M	ENG*	[0 to 9 / 0 / 1]
2-015-004	Charge AC Adj: Result	Y	ENG*	[0 to 9 / 0 / 1]
2-020-001	Background Pot Corr. Set	Temp. Condition	ENG*	[0 to 19 / 15 / 1deg]
2-020-002	Background Pot Corr. Set	Absolute Humidity	ENG*	[0 to 99 / 6 / 1g/m^3]
2-020-003	Background Pot Corr. Set	Print Page Counter After Corr.	ENG*	[0 to 999 / 0 / 1page]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-020-004	Background Pot Corr. Set	Print Pages Threshold After Corr.	ENG*	[0 to 999 / 10 / 1page]
2-020-005	Background Pot Corr. Set	Temp. Thresh	ENG*	[20 to 99 / 20 / 1deg]
2-020-011	Background Pot Corr. Set	Coeff. a: K	ENG*	[0 to 1 / 6 / 0.01-]
2-020-012	Background Pot Corr. Set	Coeff. a: C	ENG*	[0 to 1 / 6 / 0.01-]
2-020-013	Background Pot Corr. Set	Coeff. a: M	ENG*	[0 to 1 / 6 / 0.01-]
2-020-014	Background Pot Corr. Set	Coeff. a: Y	ENG*	[0 to 1 / 6 / 0.01-]
2-020-015	Background Pot Corr. Set	Coeff. b: K	ENG*	[0 to 9 / 50 / 0.01-]
2-020-016	Background Pot Corr. Set	Coeff. b: C	ENG*	[0 to 9 / 50 / 0.01-]
2-020-017	Background Pot Corr. Set	Coeff. b: M	ENG*	[0 to 9 / 50 / 0.01-]
2-020-018	Background Pot Corr. Set	Coeff. b: Y	ENG*	[0 to 9 / 50 / 0.01-]
2-021-001	Background Pot Corr.	Display: K	ENG*	[0 to 90 / 0 / 1-V]
2-021-002	Background Pot Corr.	Display: C	ENG*	[0 to 90 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-021-003	Background Pot Corr.	Display: M	ENG*	[0 to 90 / 0 / 1-V]
2-021-004	Background Pot Corr.	Display: Y	ENG*	[0 to 90 / 0 / 1-V]
2-021-005	Background Pot Corr.	Setting 1: K	ENG*	[0 to 90 / 10 / 10-V]
2-021-006	Background Pot Corr.	Setting 1: C	ENG*	[0 to 90 / 10 / 10-V]
2-021-007	Background Pot Corr.	Setting 1: M	ENG*	[0 to 90 / 10 / 10-V]
2-021-008	Background Pot Corr.	Setting 1: Y	ENG*	[0 to 90 / 10 / 10-V]
2-021-009	Background Pot Corr.	Setting 2: K	ENG*	[0 to 90 / 20 / 10-V]
2-021-010	Background Pot Corr.	Setting 2: C	ENG*	[0 to 90 / 20 / 10-V]
2-021-011	Background Pot Corr.	Setting 2: M	ENG*	[0 to 90 / 20 / 10-V]
2-021-012	Background Pot Corr.	Setting 2: Y	ENG*	[0 to 90 / 20 / 10-V]
2-021-013	Background Pot Corr.	Setting 3: K	ENG*	[0 to 90 / 30 / 5-V]
2-021-014	Background Pot Corr.	Setting 3: C	ENG*	[0 to 90 / 30 / 5-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-021-015	Background Pot Corr.	Setting 3: M	ENG*	[0 to 90 / 30 / 5-V]
2-021-016	Background Pot Corr.	Setting 3: Y	ENG*	[0 to 90 / 30 / 5-V]
2-021-017	Background Pot Corr.	Setting 4: K	ENG*	[0 to 90 / 40 / 5-V]
2-021-018	Background Pot Corr.	Setting 4: C	ENG*	[0 to 90 / 40 / 5-V]
2-021-019	Background Pot Corr.	Setting 4: M	ENG*	[0 to 90 / 40 / 5-V]
2-021-020	Background Pot Corr.	Setting 4: Y	ENG*	[0 to 90 / 40 / 5-V]
2-021-021	Background Pot Corr.	Setting 5: K	ENG*	[0 to 90 / 10 / 1-V]
2-021-022	Background Pot Corr.	Setting 5: C	ENG*	[0 to 90 / 10 / 1-V]
2-021-023	Background Pot Corr.	Setting 5: M	ENG*	[0 to 90 / 10 / 1-V]
2-021-024	Background Pot Corr.	Setting 5: Y	ENG*	[0 to 90 / 10 / 1-V]
2-021-025	Background Pot Corr.	Setting 6: K	ENG*	[-90 to 90 / 2 / 1-V]
2-021-026	Background Pot Corr.	Setting 6: C	ENG*	[-90 to 90 / 2 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-021-027	Background Pot Corr.	Setting 6: M	ENG*	[-90 to 90 / 2 / 1-V]
2-021-028	Background Pot Corr.	Setting 6: Y	ENG*	[-90 to 90 / 2 / 1-V]
2-021-029	Background Pot Corr.	Display: Energized: K	ENG*	[0 to 90 / 0 / 1-V]
2-021-030	Background Pot Corr.	Display: Energized: C	ENG*	[0 to 90 / 0 / 1-V]
2-021-031	Background Pot Corr.	Display: Energized: M	ENG*	[0 to 90 / 0 / 1-V]
2-021-032	Background Pot Corr.	Display: Energized: Y	ENG*	[0 to 90 / 0 / 1-V]
2-021-033	Background Pot Corr.	Display: Total Rotation: K	ENG*	[0 to 30 / 0 / 1-V]
2-021-034	Background Pot Corr.	Display: Total Rotation: C	ENG*	[0 to 30 / 0 / 1-V]
2-021-035	Background Pot Corr.	Display: Total Rotation: M	ENG*	[0 to 30 / 0 / 1-V]
2-021-036	Background Pot Corr.	Display: Total Rotation: Y	ENG*	[0 to 30 / 0 / 1-V]
2-021-037	Background Pot Corr.	Split Number n: K	ENG*	[1 to 99 / 15 / 1-]
2-021-038	Background Pot Corr.	Split Number n: C	ENG*	[1 to 99 / 13 / 1-]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-021-039	Background Pot Corr.	Split Number n: M	ENG*	[1 to 99 / 13 / 1-]
2-021-040	Background Pot Corr.	Split Number n: Y	ENG*	[1 to 99 / 13 / 1-]
2-021-041	Background Pot Corr.	Display:Energized for Target Value:K	ENG*	[0 to 90 / 0 / 1-V]
2-021-042	Background Pot Corr.	Display:Energized for Target Value:C	ENG*	[0 to 90 / 0 / 1-V]
2-021-043	Background Pot Corr.	Display:Energized for Target Value:M	ENG*	[0 to 90 / 0 / 1-V]
2-021-044	Background Pot Corr.	Display:Energized for Target Value:Y	ENG*	[0 to 90 / 0 / 1-V]
2-022-001	Charge R Running Par	Display:K	ENG*	[0 to 999999 / 0 / 1-]
2-022-002	Charge R Running Par	Display:C	ENG*	[0 to 999999 / 0 / 1-]
2-022-003	Charge R Running Par	Display:M	ENG*	[0 to 999999 / 0 / 1-]
2-022-004	Charge R Running Par	Display:Y	ENG*	[0 to 999999 / 0 / 1-]
2-022-005	Charge R Running Par	PCU Rotation Time After Correction: K	ENG*	[0 to 9999999 / 0 / 1-]
2-022-006	Charge R Running Par	PCU Rotation Time After Correction: C	ENG*	[0 to 9999999 / 0 / 1-]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-022-007	Charge R Running Par	PCU Rotation Time After Correction: M	ENG*	[0 to 9999999 / 0 / 1-]
2-022-008	Charge R Running Par	PCU Rotation Time After Correction: Y	ENG*	[0 to 9999999 / 0 / 1-]
2-022-009	Charge R Running Par	Threshold1:K	ENG*	[0 to 4000 / 30 / 1-]
2-022-010	Charge R Running Par	Threshold1:C	ENG*	[0 to 4000 / 30 / 1-]
2-022-011	Charge R Running Par	Threshold1:M	ENG*	[0 to 4000 / 30 / 1-]
2-022-012	Charge R Running Par	Threshold1:Y	ENG*	[0 to 4000 / 30 / 1-]
2-022-013	Charge R Running Par	Threshold2:K	ENG*	[0 to 4000 / 70 / 1-]
2-022-014	Charge R Running Par	Threshold2:C	ENG*	[0 to 4000 / 70 / 1-]
2-022-015	Charge R Running Par	Threshold2:M	ENG*	[0 to 4000 / 70 / 1-]
2-022-016	Charge R Running Par	Threshold2:Y	ENG*	[0 to 4000 / 70 / 1-]
2-022-017	Charge R Running Par	Threshold3:K	ENG*	[0 to 4000 / 150 / 1-]
2-022-018	Charge R Running Par	Threshold3:C	ENG*	[0 to 4000 / 150 / 1-]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-022-019	Charge R Running Par	Threshold3:M	ENG*	[0 to 4000 / 150 / 1-]
2-022-020	Charge R Running Par	Threshold3:Y	ENG*	[0 to 4000 / 150 / 1-]
2-022-021	Charge R Running Par	Threshold4:K	ENG*	[0 to 4000 / 250 / 1-]
2-022-022	Charge R Running Par	Threshold4:C	ENG*	[0 to 4000 / 250 / 1-]
2-022-023	Charge R Running Par	Threshold4:M	ENG*	[0 to 4000 / 250 / 1-]
2-022-024	Charge R Running Par	Threshold4:Y	ENG*	[0 to 4000 / 250 / 1-]
2-022-025	Charge R Running Par	Prev Correction Calculation Bk:Year	ENG*	[0 to 99 / 0 / 1year]
2-022-026	Charge R Running Par	Prev Correction Calculation Bk:Month	ENG*	[1 to 12 / 1 / 1month]
2-022-027	Charge R Running Par	Prev Correction Calculation Bk:Day	ENG*	[1 to 31 / 1 / 1day]
2-022-028	Charge R Running Par	Prev Correction Calculation Bk:Hour	ENG*	[0 to 23 / 0 / 1hour]
2-022-029	Charge R Running Par	Prev Correction Calculation Bk:Minute	ENG*	[0 to 59 / 0 / 1minute]
2-022-030	Charge R Running Par	Rotation At Prev Correction: PCU: Bk	ENG*	[0 to 999999999 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-022-031	Charge R Running Par	Rotation At Prev Correction: PCU: C	ENG*	[0 to 999999999 / 0 / 1mm]
2-022-032	Charge R Running Par	Rotation At Prev Correction: PCU: M	ENG*	[0 to 999999999 / 0 / 1mm]
2-022-033	Charge R Running Par	Rotation At Prev Correction: PCU: Y	ENG*	[0 to 999999999 / 0 / 1mm]
2-101-001	Registration Correction	Color Main Dot: Bk	ENG*	[-512 to 511 / 0 / 1dot]
2-101-002	Registration Correction	Color Main Dot: Ma	ENG*	[-512 to 511 / 0 / 1dot]
2-101-003	Registration Correction	Color Main Dot: Cy	ENG*	[-512 to 511 / 0 / 1dot]
2-101-004	Registration Correction	Color Main Dot: Ye	ENG*	[-512 to 511 / 0 / 1dot]
2-101-005	Registration Correction	Color Sub Line: Bk	ENG*	[-16384 to 16383 / 0 / 1line]
2-101-006	Registration Correction	Color Sub Line: Ma	ENG*	[-16384 to 16383 / 0 / 1line]
2-101-007	Registration Correction	Color Sub Line: Cy	ENG*	[-16384 to 16383 / 0 / 1line]
2-101-008	Registration Correction	Color Sub Line: Ye	ENG*	[-16384 to 16383 / 0 / 1line]
2-102-001	Magnification Adjustment	Main Mag.: Standard Speed: Bk	ENG*	[-2 to 2 / 0 / 0.001%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-102-002	Magnification Adjustment	Main Mag.: Middle Speed: Bk	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-003	Magnification Adjustment	Main Mag.: Low Speed: Bk	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-004	Magnification Adjustment	Main Mag.: Standard Speed: Ma	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-005	Magnification Adjustment	Main Mag.: Middle Speed: Ma	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-006	Magnification Adjustment	Main Mag.: Low Speed: Ma	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-007	Magnification Adjustment	Main Mag.: Standard Speed: Cy	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-008	Magnification Adjustment	Main Mag.: Middle Speed: Cy	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-009	Magnification Adjustment	Main Mag.: Low Speed: Cy	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-010	Magnification Adjustment	Main Mag.: Standard Speed: Ye	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-011	Magnification Adjustment	Main Mag.: Middle Speed: Ye	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-012	Magnification Adjustment	Main Mag.: Low Speed: Ye	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-028	Magnification Adjustment	Color Main Mag.: High Speed: Ma	ENG*	[-2 to 2 / 0 / 0.001%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-102-031	Magnification Adjustment	Color Main Mag.: High Speed: Cy	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-034	Magnification Adjustment	Color Main Mag.: High Speed: Ye	ENG*	[-2 to 2 / 0 / 0.001%]
2-102-037	Main Scan Beam Pitch Adj.	Bk: 1st-2nd	ENG*	[0 to 100 / 961 / 0.01dot]
2-102-038	Main Scan Beam Pitch Adj.	Bk: 1st-3rd	ENG*	[0 to 100 / 1922 / 0.01dot]
2-102-039	Main Scan Beam Pitch Adj.	Bk: 1st-4th	ENG*	[0 to 100 / 2883 / 0.01dot]
2-102-040	Main Scan Beam Pitch Adj.	Ma: 1st-2nd	ENG*	[0 to 100 / 961 / 0.01dot]
2-102-041	Main Scan Beam Pitch Adj.	Ma: 1st-3rd	ENG*	[0 to 100 / 1922 / 0.01dot]
2-102-042	Main Scan Beam Pitch Adj.	Ma: 1st-4th	ENG*	[0 to 100 / 2883 / 0.01dot]
2-102-043	Main Scan Beam Pitch Adj.	Cy: 1st-2nd	ENG*	[0 to 100 / 961 / 0.01dot]
2-102-044	Main Scan Beam Pitch Adj.	Cy: 1st-3rd	ENG*	[0 to 100 / 1922 / 0.01dot]
2-102-045	Main Scan Beam Pitch Adj.	Cy: 1st-4th	ENG*	[0 to 100 / 2883 / 0.01dot]
2-102-046	Main Scan Beam Pitch Adj.	Ye: 1st-2nd	ENG*	[0 to 100 / 961 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-102-047	Main Scan Beam Pitch Adj.	Ye: 1st-3rd	ENG*	[0 to 100 / 1922 / 0.01dot]
2-102-048	Main Scan Beam Pitch Adj.	Ye: 1st-4th	ENG*	[0 to 100 / 2883 / 0.01dot]
2-103-001	Erase Margin Adjustment	Lead Edge Width	ENG	[0 to 9.9 / 42 / 0.1mm]
2-103-002	Erase Margin Adjustment	Trail. Edge Width	ENG	[0 to 9.9 / 42 / 0.1mm]
2-103-003	Erase Margin Adjustment	Left	ENG	[0 to 9.9 / 20 / 0.1mm]
2-103-004	Erase Margin Adjustment	Right	ENG	[0 to 9.9 / 20 / 0.1mm]
2-103-006	Erase Margin Adjustment	Duplex Trail. L Size	ENG	[-4 to 4 / 8 / 0.1mm]
2-103-007	Erase Margin Adjustment	Duplex Trail. M Size	ENG	[-4 to 4 / 8 / 0.1mm]
2-103-008	Erase Margin Adjustment	Duplex Trail. S Size	ENG	[-4 to 4 / 6 / 0.1mm]
2-103-009	Erase Margin Adjustment	Duplex Left Edge	ENG	[0 to 1.5 / 3 / 0.1mm]
2-103-010	Erase Margin Adjustment	Duplex Right Edge	ENG	[0 to 1.5 / 3 / 0.1mm]
2-103-011	Erase Margin Adjustment	Duplex Trail. L Size:Thick	ENG	[-4 to 4 / 8 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-103-012	Erase Margin Adjustment	Duplex Trail. M Size:Thick	ENG	[-4 to 4 / 8 / 0.1mm]
2-103-013	Erase Margin Adjustment	Duplex Trail. S Size:Thick	ENG	[-4 to 4 / 6 / 0.1mm]
2-103-014	Erase Margin Adjustment	Duplex Left Edge:Thick	ENG	[0 to 1.5 / 3 / 0.1mm]
2-103-015	Erase Margin Adjustment	Duplex Right Edge:Thick	ENG	[0 to 1.5 / 3 / 0.1mm]
2-103-016	Erase Margin Adjustment	Duplex Trail. L Size:Thin	ENG	[-4 to 4 / 8 / 0.1mm]
2-103-017	Erase Margin Adjustment	Duplex Trail. M Size:Thin	ENG	[-4 to 4 / 8 / 0.1mm]
2-103-018	Erase Margin Adjustment	Duplex Trail. S Size:Thin	ENG	[-4 to 4 / 6 / 0.1mm]
2-103-019	Erase Margin Adjustment	Lead Edge Width:Thin	ENG	[0 to 9.9 / 42 / 0.1mm]
2-103-020	Erase Margin Adjustment	Trail. Edge Width:Thin	ENG	[0 to 9.9 / 42 / 0.1mm]
2-106-001	Polygon Rotation Time	Warming-Up	ENG*	[0 to 60 / 10 / 1sec]
2-106-002	Polygon Rotation Time	Job End	ENG*	[0 to 60 / 1 / 0.1sec]
2-107-001	Image Parameter	Image Gamma Flag	ENG	[0 to 1 / 1 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-107-002	Image Parameter	Shading Correction Flag	ENG*	[0 to 1 / 0 / 1]
2-109-003	Test Pattern	Pattern Selection	ENG	[0 to 23 / 0 / 1] 0:None 1:Vertical Line (1dot) 2:Vertical Line (2dot) 3:Horizontal Line (1dot) 4:Horizontal Line (2dot) 5:Grid Vertical Line 6:Grid Horizontal Line 7:Grid Pattern Small 8:Grid Pattern Large 9:Argyle Pattern Small 10:Argyle Pattern Large 11:Independent Pattern (1dot) 12:Independent Pattern (2dot) 13:Independent Pattern (4dot) 14:Trimming Area 15:Hound's Tooth Check (Vertical)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				16:Hound's Tooth Check (Horizontal) 17:Band (Horizontal) 18:Band (Vertical) 19:Checker Flag Pattern 20:Grayscale (Vertical Margin) 21:Grayscale (Horizontal Margin) 22:Wormy Pattarn 23:Full Dot Pattern
2-109-005	Test Pattern	Color Selection	ENG	[1 to 4 / 1 / 1] 1:All Color 2:Ma 3:Ye 4:Cy
2-109-006	Test Pattern	Density: Bk	ENG	[0 to 15 / 15 / 1]
2-109-007	Test Pattern	Density: Ma	ENG	[0 to 15 / 15 / 1]
2-109-008	Test Pattern	Density: Cy	ENG	[0 to 15 / 15 / 1]
2-109-009	Test Pattern	Density: Ye	ENG	[0 to 15 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-110-001	LD Driver	Error Bk	ENG	[0x0000 to 0xFFFF / 0x0000 / 1]
2-110-002	LD Driver	Error Ma	ENG	[0x0000 to 0xFFFF / 0x0000 / 1]
2-110-003	LD Driver	Error Cy	ENG	[0x0000 to 0xFFFF / 0x0000 / 1]
2-110-004	LD Driver	Error Ye	ENG	[0x0000 to 0xFFFF / 0x0000 / 1]
2-110-005	LD Driver	Writing Unit Adj. Transfer	ENG	[0 to 1 / 0 / 1]
2-111-001	Forced Line Position Adj.	Mode a	ENG	[0 to 1 / 0 / 1]
2-111-002	Forced Line Position Adj.	Mode b	ENG	[0 to 1 / 0 / 1]
2-111-003	Forced Line Position Adj.	Mode c	ENG	[0 to 1 / 0 / 1]
2-111-004	Forced Line Position Adj.	Mode d	ENG	[0 to 1 / 0 / 1]
2-112-001	TM/ID Sensor Check	Execute	ENG	[0 to 1 / 0 / 1]
2-112-010	TM/ID Sensor Test	General:FCR	ENG*	[0 to 999 / 0 / 1]
2-112-020	TM/ID Sensor Test	Threshold Setting	ENG*	[0 to 3.5 / 190 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-117-001	Skew Adjustment	Pulse: M	ENG*	[-75 to 75 / 0 / 1pulse]
2-117-002	Skew Adjustment	Pulse: C	ENG*	[-75 to 75 / 0 / 1pulse]
2-117-003	Skew Adjustment	Pulse: Y	ENG*	[-99 to 99 / 0 / 1pulse]
2-118-001	Skew Adjustment	Execute: M	ENG	[0 to 0 / 0 / 0]
2-118-002	Skew Adjustment	Execute: C	ENG	[0 to 0 / 0 / 0]
2-118-003	Skew Adjustment	Execute: Y	ENG	[0 to 0 / 0 / 0]
2-119-001	Skew Adjustment Display	M	ENG*	[-75 to 75 / 0 / 1pulse]
2-119-002	Skew Adjustment Display	C	ENG*	[-75 to 75 / 0 / 1pulse]
2-119-003	Skew Adjustment Display	Y	ENG*	[-99 to 99 / 0 / 1pulse]
2-120-001	Skew Adj Changing Line Speed	On/Off	ENG*	[0 to 1 / 1 / 1]
2-121-001	Skew Adjust Coefficient	Coefficient	ENG*	[0 to 2 / 0 / 1]
2-140-005	TM/ID Sensor Check Result	PWM: Front	ENG*	[0 to 1023 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-140-006	TM/ID Sensor Check Result	PWM: Center	ENG*	[0 to 1023 / 0 / 1]
2-140-007	TM/ID Sensor Check Result	PWM: Rear	ENG*	[0 to 1023 / 0 / 1]
2-141-005	TM/ID Sensor Check Result	Average: Front	ENG*	[0 to 5.5 / 0 / 0.01V]
2-141-006	TM/ID Sensor Check Result	Average: Center	ENG*	[0 to 5.5 / 0 / 0.01V]
2-141-007	TM/ID Sensor Check Result	Average: Rear	ENG*	[0 to 5.5 / 0 / 0.01V]
2-142-005	TM/ID Sensor Check Result	Maximum: Front	ENG*	[0 to 5.5 / 0 / 0.01V]
2-142-006	TM/ID Sensor Check Result	Maximum: Center	ENG*	[0 to 5.5 / 0 / 0.01V]
2-142-007	TM/ID Sensor Check Result	Maximum: Rear	ENG*	[0 to 5.5 / 0 / 0.01V]
2-143-005	TM/ID Sensor Check Result	Minimum: Front	ENG*	[0 to 5.5 / 0 / 0.01V]
2-143-006	TM/ID Sensor Check Result	Minimum: Center	ENG*	[0 to 5.5 / 0 / 0.01V]
2-143-007	TM/ID Sensor Check Result	Minimum: Rear	ENG*	[0 to 5.5 / 0 / 0.01V]
2-144-005	TM/ID Sensor Check Result	Maximum 2: Front	ENG*	[0 to 5.5 / 0 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-144-006	TM/ID Sensor Check Result	Maximum 2: Center	ENG*	[0 to 5.5 / 0 / 0.01V]
2-144-007	TM/ID Sensor Check Result	Maximum 2: Rear	ENG*	[0 to 5.5 / 0 / 0.01V]
2-145-005	TM/ID Sensor Check Result	Minimum 2: Front	ENG*	[0 to 5.5 / 0 / 0.01V]
2-145-006	TM/ID Sensor Check Result	Minimum 2: Center	ENG*	[0 to 5.5 / 0 / 0.01V]
2-145-007	TM/ID Sensor Check Result	Minimum 2: Rear	ENG*	[0 to 5.5 / 0 / 0.01V]
2-146-005	TM-Sensor Test	Number of Edge Detection:Front	ENG*	[0 to 16 / 0 / 1]
2-146-006	TM-Sensor Test	Number of Edge Detection:Center	ENG*	[0 to 16 / 0 / 1]
2-146-007	TM-Sensor Test	Number of Edge Detection:Rear	ENG*	[0 to 16 / 0 / 1]
2-150-027	Area Mag. Correction	Area 0: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-028	Area Mag. Correction	Area 1: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-029	Area Mag. Correction	Area 2: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-030	Area Mag. Correction	Area 3: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-150-031	Area Mag. Correction	Area 4: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-032	Area Mag. Correction	Area 5: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-033	Area Mag. Correction	Area 6: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-034	Area Mag. Correction	Area 7: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-035	Area Mag. Correction	Area 8: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-036	Area Mag. Correction	Area 9: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-037	Area Mag. Correction	Area 10: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-038	Area Mag. Correction	Area 11: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-039	Area Mag. Correction	Area 12: Bk	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-079	Area Mag. Correction	Area 0: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-080	Area Mag. Correction	Area 1: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-081	Area Mag. Correction	Area 2: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-150-082	Area Mag. Correction	Area 3: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-083	Area Mag. Correction	Area 4: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-084	Area Mag. Correction	Area 5: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-085	Area Mag. Correction	Area 6: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-086	Area Mag. Correction	Area 7: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-087	Area Mag. Correction	Area 8: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-088	Area Mag. Correction	Area 9: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-089	Area Mag. Correction	Area 10: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-090	Area Mag. Correction	Area 11: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-091	Area Mag. Correction	Area 12: Ma	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-131	Area Mag. Correction	Area 0: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-132	Area Mag. Correction	Area 1: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-150-133	Area Mag. Correction	Area 2: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-134	Area Mag. Correction	Area 3: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-135	Area Mag. Correction	Area 4: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-136	Area Mag. Correction	Area 5: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-137	Area Mag. Correction	Area 6: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-138	Area Mag. Correction	Area 7: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-139	Area Mag. Correction	Area 8: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-140	Area Mag. Correction	Area 9: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-141	Area Mag. Correction	Area 10: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-142	Area Mag. Correction	Area 11: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-143	Area Mag. Correction	Area 12: Cy	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-183	Area Mag. Correction	Area 0: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-150-184	Area Mag. Correction	Area 1: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-185	Area Mag. Correction	Area 2: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-186	Area Mag. Correction	Area 3: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-187	Area Mag. Correction	Area 4: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-188	Area Mag. Correction	Area 5: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-189	Area Mag. Correction	Area 6: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-190	Area Mag. Correction	Area 7: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-191	Area Mag. Correction	Area 8: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-192	Area Mag. Correction	Area 9: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-193	Area Mag. Correction	Area 10: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-194	Area Mag. Correction	Area 11: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]
2-150-195	Area Mag. Correction	Area 12: Ye	ENG*	[-16 to 16 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-152-001	Shad. Correct Setting	Standard Speed: Bk	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-002	Shad. Correct Setting	Standard Speed: Ma	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-003	Shad. Correct Setting	Standard Speed: Cy	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-004	Shad. Correct Setting	Standard Speed: Ye	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-005	Shad. Correct Setting	Middle Speed: Bk	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-006	Shad. Correct Setting	Middle Speed: Ma	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-007	Shad. Correct Setting	Middle Speed: Cy	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-008	Shad. Correct Setting	Middle Speed: Ye	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-009	Shad. Correct Setting	Low Speed: Bk	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-010	Shad. Correct Setting	Low Speed: Ma	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-011	Shad. Correct Setting	Low Speed: Cy	ENG*	[50 to 120 / 1000 / 0.1%]
2-152-012	Shad. Correct Setting	Low Speed: Ye	ENG*	[50 to 120 / 1000 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-154-002	Shad. Correct Setting	Front End Area: Bk: LD1	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-003	Shad. Correct Setting	Front End Area: Bk: LD2	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-004	Shad. Correct Setting	Front End Area: Bk: LD3	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-005	Shad. Correct Setting	Front End Area: Bk: LD4	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-007	Shad. Correct Setting	Front End Area: Ma: LD1	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-008	Shad. Correct Setting	Front End Area: Ma: LD2	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-009	Shad. Correct Setting	Front End Area: Ma: LD3	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-010	Shad. Correct Setting	Front End Area: Ma: LD4	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-012	Shad. Correct Setting	Front End Area: Cy: LD1	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-013	Shad. Correct Setting	Front End Area: Cy: LD2	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-014	Shad. Correct Setting	Front End Area: Cy: LD3	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-015	Shad. Correct Setting	Front End Area: Cy: LD4	ENG*	[50 to 150 / 1000 / 0.1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-154-017	Shad. Correct Setting	Front End Area: Ye: LD1	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-018	Shad. Correct Setting	Front End Area: Ye: LD2	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-019	Shad. Correct Setting	Front End Area: Ye: LD3	ENG*	[50 to 150 / 1000 / 0.1%]
2-154-020	Shad. Correct Setting	Front End Area: Ye: LD4	ENG*	[50 to 150 / 1000 / 0.1%]
2-160-001	Vertical Line Width	600dpi:Bk	ENG*	[10 to 15 / 15 / 1]
2-160-002	Vertical Line Width	600dpi:Ma	ENG*	[10 to 15 / 15 / 1]
2-160-003	Vertical Line Width	600dpi:Cy	ENG*	[10 to 15 / 15 / 1]
2-160-004	Vertical Line Width	600dpi:Ye	ENG*	[10 to 15 / 15 / 1]
2-160-005	Vertical Line Width	1200dpi:Bk	ENG*	[10 to 15 / 15 / 1]
2-160-006	Vertical Line Width	1200dpi:Ma	ENG*	[10 to 15 / 15 / 1]
2-160-007	Vertical Line Width	1200dpi:Cy	ENG*	[10 to 15 / 15 / 1]
2-160-008	Vertical Line Width	1200dpi:Ye	ENG*	[10 to 15 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-160-009	Vertical Line Width	600dpi:Indet.:Bk	ENG*	[10 to 15 / 14 / 1]
2-160-010	Vertical Line Width	1200dpi:Indet.:Bk	ENG*	[10 to 15 / 15 / 1]
2-180-001	Line Pos. Adj. Clear	Color Regist.	ENG	[0 to 1 / 0 / 1]
2-180-002	Line Pos. Adj. Clear	Main Scan Length Detection	ENG	[0 to 1 / 0 / 1]
2-180-003	Line Pos. Adj. Clear	MUSIC Result	ENG	[0 to 1 / 0 / 1]
2-180-004	Line Pos. Adj. Clear	Area Magnification Correction	ENG	[0 to 1 / 0 / 1]
2-181-003	Line Position Adj. Result	Skew: M	ENG*	[-5000 to 5000 / 0 / 0.001um]
2-181-011	Line Position Adj. Result	M. Cor.: Dot: M	ENG*	[-512 to 511 / 0 / 1dot]
2-181-012	Line Position Adj. Result	M. Cor.: Subdot: M	ENG*	[-1 to 1 / 0 / 0.01dot]
2-181-013	Line Position Adj. Result	S. Cor.: 1200 Line: Middle: M	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-014	Line Position Adj. Result	S. Cor.: 1200 Sub: Middle: M	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-015	Line Position Adj. Result	M. Left Mag.: Subdot: M	ENG*	[-32 to 32 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-181-016	Line Position Adj. Result	M. Right Mag.: Subdot: M	ENG*	[-32 to 32 / 0 / 0.01dot]
2-181-017	Line Position Adj. Result	S. Cor.: 1200 Line: Standard: M	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-018	Line Position Adj. Result	S. Cor.: 1200 Sub: Standard: M	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-019	Line Position Adj. Result	S. Cor.: 1200 Line: Low: M	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-020	Line Position Adj. Result	S. Cor.: 1200 Sub: Low: M	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-021	Line Position Adj. Result	Skew: C	ENG*	[-5000 to 5000 / 0 / 0.001um]
2-181-029	Line Position Adj. Result	M. Cor.: Dot: C	ENG*	[-512 to 511 / 0 / 1dot]
2-181-030	Line Position Adj. Result	M. Cor.: Subdot: C	ENG*	[-1 to 1 / 0 / 0.01dot]
2-181-031	Line Position Adj. Result	S. Cor.: 1200 Line: Middle: C	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-032	Line Position Adj. Result	S. Cor.: 1200 Sub: Middle: C	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-033	Line Position Adj. Result	C. Left Mag.: Subdot: M	ENG*	[-32 to 32 / 0 / 0.01dot]
2-181-034	Line Position Adj. Result	C. Right Mag.: Subdot: M	ENG*	[-32 to 32 / 0 / 0.01dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-181-035	Line Position Adj. Result	S. Cor.: 1200 Line: Standard: C	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-036	Line Position Adj. Result	S. Cor.: 1200 Sub: Standard: C	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-037	Line Position Adj. Result	S. Cor.: 1200 Line: Low: C	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-038	Line Position Adj. Result	S. Cor.: 1200 Sub: Low: C	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-039	Line Position Adj. Result	Skew: Y	ENG*	[-5000 to 5000 / 0 / 0.001um]
2-181-047	Line Position Adj. Result	M. Cor.: Dot: Y	ENG*	[-512 to 511 / 0 / 1dot]
2-181-048	Line Position Adj. Result	M. Cor.: Subdot: Y	ENG*	[-1 to 1 / 0 / 0.01dot]
2-181-049	Line Position Adj. Result	S. Cor.: 1200 Line: Middle: Y	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-050	Line Position Adj. Result	S. Cor.: 1200 Sub: Middle: Y	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-051	Line Position Adj. Result	Y. Left Mag.: Subdot: M	ENG*	[-32 to 32 / 0 / 0.01dot]
2-181-052	Line Position Adj. Result	Y. Right Mag.: Subdot: M	ENG*	[-32 to 32 / 0 / 0.01dot]
2-181-053	Line Position Adj. Result	S. Cor.: 1200 Line: Standard: Y	ENG*	[-16384 to 16383 / 0 / 1line]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-181-054	Line Position Adj. Result	S. Cor.: 1200 Sub: Standard: Y	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-055	Line Position Adj. Result	S. Cor.: 1200 Line: Low: Y	ENG*	[-16384 to 16383 / 0 / 1line]
2-181-056	Line Position Adj. Result	S. Cor.: 1200 Sub: Low: Y	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-057	Line Position Adj. Result	S. Cor.: 600 Sub	ENG*	[-1 to 1 / 0 / 0.001line]
2-181-059	Line Position Adj. Result	S. Cor.: 1200 Sub :High	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-060	Line Position Adj. Result	S. Cor.: 1200 Sub :Low	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-061	Line Position Adj. Result	S. Cor.: 1200 Sub :Middle	ENG*	[-2 to 2 / 0 / 0.001line]
2-181-064	Line Position Adj. Result	M. Cor.: Dot: K	ENG*	[-512 to 511 / 0 / 1dot]
2-181-072	Line Position Adj. Result	LineSift: StandardSpeed: M	ENG*	[0 to 3 / 0 / 1line]
2-181-073	Line Position Adj. Result	LineSift: MidSpeed: M	ENG*	[0 to 1 / 0 / 1line]
2-181-074	Line Position Adj. Result	LineSift: StandardSpeed: C	ENG*	[0 to 3 / 0 / 1line]
2-181-075	Line Position Adj. Result	LineSift: MidSpeed: C	ENG*	[0 to 1 / 0 / 1line]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-181-076	Line Position Adj. Result	LineSift: StandardSpeed: Y	ENG*	[0 to 3 / 0 / 1line]
2-181-077	Line Position Adj. Result	LineSift: MidSpeed: Y	ENG*	[0 to 1 / 0 / 1line]
2-181-080	Line Position Adj. Result	Detect Diff.: M	ENG*	[-1000 to 1000 / 0 / 0.1]
2-181-081	Line Position Adj. Result	Detect Diff.: C	ENG*	[-1000 to 1000 / 0 / 0.1]
2-181-082	Line Position Adj. Result	Detect Diff.: Y	ENG*	[-1000 to 1000 / 0 / 0.1]
2-182-004	Line Position Adj. Offset	M. Scan: Standard: Dot: M	ENG*	[-512 to 511 / 0 / 1dot]
2-182-005	Line Position Adj. Offset	M. Scan: Standard: Subdot: M	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-006	Line Position Adj. Offset	M. Scan: Middle: Dot: M	ENG*	[-512 to 511 / 0 / 1dot]
2-182-007	Line Position Adj. Offset	M. Scan: Middle: Subdot: M	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-008	Line Position Adj. Offset	M. Scan: Low: Dot: M	ENG*	[-512 to 511 / 0 / 1dot]
2-182-009	Line Position Adj. Offset	M. Scan: Low: Subdot: M	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-010	Line Position Adj. Offset	M. Scan: Standard: Dot: C	ENG*	[-512 to 511 / 0 / 1dot]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-182-011	Line Position Adj. Offset	M. Scan: Standard: Subdot: C	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-012	Line Position Adj. Offset	M. Scan: Middle: Dot: C	ENG*	[-512 to 511 / 0 / 1dot]
2-182-013	Line Position Adj. Offset	M. Scan: Middle: Subdot: C	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-014	Line Position Adj. Offset	M. Scan: Low: Dot: C	ENG*	[-512 to 511 / 0 / 1dot]
2-182-015	Line Position Adj. Offset	M. Scan: Low: Subdot: C	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-016	Line Position Adj. Offset	M. Scan: Standard: Dot: Y	ENG*	[-512 to 511 / 0 / 1dot]
2-182-017	Line Position Adj. Offset	M. Scan: Standard: Subdot: Y	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-018	Line Position Adj. Offset	M. Scan: Middle: Dot: Y	ENG*	[-512 to 511 / 0 / 1dot]
2-182-019	Line Position Adj. Offset	M. Scan: Middle: Subdot: Y	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-020	Line Position Adj. Offset	M. Scan: Low: Dot: Y	ENG*	[-512 to 511 / 0 / 1dot]
2-182-021	Line Position Adj. Offset	M. Scan: Low: Subdot: Y	ENG*	[-1 to 1 / 0 / 0.01dot]
2-182-022	Line Position Adj. Offset	S. Scan: Standard: Line: M	ENG*	[-16384 to 16383 / 0 / 1line]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-182-023	Line Position Adj. Offset	S. Scan: Standard: Subline: M	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-024	Line Position Adj. Offset	S. Scan: Middle: Line: M	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-025	Line Position Adj. Offset	S. Scan: Middle: Subline: M	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-026	Line Position Adj. Offset	S. Scan: Low: Line: M	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-027	Line Position Adj. Offset	S. Scan: Low: Subline: M	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-028	Line Position Adj. Offset	S. Scan: Standard: Line: C	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-029	Line Position Adj. Offset	S. Scan: Standard: Subline: C	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-030	Line Position Adj. Offset	S. Scan: Middle: Line: C	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-031	Line Position Adj. Offset	S. Scan: Middle: Subline: C	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-032	Line Position Adj. Offset	S. Scan: Low: Line: C	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-033	Line Position Adj. Offset	S. Scan: Low: Subline: C	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-034	Line Position Adj. Offset	S. Scan: Standard: Line: Y	ENG*	[-16384 to 16383 / 0 / 1line]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-182-035	Line Position Adj. Offset	S. Scan: Standard: Subline: Y	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-036	Line Position Adj. Offset	S. Scan: Middle: Line: Y	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-037	Line Position Adj. Offset	S. Scan: Middle: Subline: Y	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-038	Line Position Adj. Offset	S. Scan: Low: Line: Y	ENG*	[-16384 to 16383 / 0 / 1line]
2-182-039	Line Position Adj. Offset	S. Scan: Low: Subline: Y	ENG*	[-1 to 1 / 0 / 0.01line]
2-182-040	Line Position Adj. Offset	M. Scan: Dot: K	ENG*	[-512 to 511 / 0 / 1dot]
2-187-002	Method Select	MUSIC Pattern Length Adj.	ENG*	[-300 to 300 / 0 / 1dot]
2-187-003	Method Select	Pattern Width Adj.	ENG*	[-512 to 511 / 0 / 1dot]
2-187-004	Method Select	Pattern Interval Adj.	ENG*	[-512 to 511 / 0 / 1dot]
2-190-012	Line Position Adj.	SnSErr Range	ENG*	[0 to 3500 / 200 / 1um]
2-193-002	MUSIC Condition Set	Page: Job End: BW+FC	ENG*	[0 to 999 / 500 / 1page]
2-193-003	MUSIC Condition Set	Page: Job End: FC	ENG*	[0 to 999 / 200 / 1page]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-193-004	MUSIC Condition Set	Page: Interrupt: BW+FC	ENG*	[0 to 999 / 200 / 1page]
2-193-005	MUSIC Condition Set	Page: Interrupt: FC	ENG*	[0 to 999 / 200 / 1page]
2-193-006	MUSIC Condition Set	Page: Stand-By: BW	ENG*	[0 to 999 / 100 / 1page]
2-193-007	MUSIC Condition Set	Page: Stand-By: FC	ENG*	[0 to 999 / 100 / 1page]
2-193-008	MUSIC Condition Set	Temp.	ENG*	[0 to 100 / 5 / 1deg]
2-193-011	MUSIC Condition Set	Temp. 2	ENG*	[0 to 100 / 5 / 1deg]
2-193-013	MUSIC Condition Set	Temp. 3	ENG*	[0 to 100 / 10 / 1deg]
2-193-016	MUSIC Condition Set	Page: Power ON:BW+FC	ENG*	[0 to 999 / 200 / 1page]
2-193-017	MUSIC Condition Set	Skew	ENG*	[0 to 999 / 50 / 1um]
2-193-018	MUSIC Condition Set	Page: Low Speed: BW+FC	ENG*	[0 to 999 / 50 / 1page]
2-193-019	MUSIC Condition Set	Page: Low Speed: FC	ENG*	[0 to 999 / 50 / 1page]
2-194-001	MUSIC Execution Result	Year	ENG*	[0 to 99 / 0 / 1year]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-194-002	MUSIC Execution Result	Month	ENG*	[1 to 12 / 1 / 1month]
2-194-003	MUSIC Execution Result	Day	ENG*	[1 to 31 / 1 / 1day]
2-194-004	MUSIC Execution Result	Hour	ENG*	[0 to 23 / 0 / 1hour]
2-194-005	MUSIC Execution Result	Minute	ENG*	[0 to 59 / 0 / 1minute]
2-194-006	MUSIC Execution Result	Temperature	ENG*	[0 to 100 / 0 / 1deg]
2-194-007	MUSIC Execution Result	Execution Result	ENG*	[0 to 1 / 0 / 1]
2-194-008	MUSIC Execution Result	Number of Execution	ENG*	[0 to 999999 / 0 / 1times]
2-194-009	MUSIC Execution Result	Number of Failure	ENG*	[0 to 999999 / 0 / 1times]
2-194-010	MUSIC Execution Result	Error Result: C	ENG*	[0 to 9 / 0 / 1]
2-194-011	MUSIC Execution Result	Error Result: M	ENG*	[0 to 9 / 0 / 1]
2-194-012	MUSIC Execution Result	Error Result: Y	ENG*	[0 to 9 / 0 / 1]
2-194-013	MUSIC Execution Result	Error Result: K	ENG*	[0 to 9 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-194-014	MUSIC Execution Result	Temperature 2	ENG*	[-10 to 100 / 0 / 1deg]
2-195-001	Realtime MUSIC Condition Set	ON/OFF	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
2-195-002	Realtime MUSIC Condition Set	Page: Interrupt: BW+FC	ENG*	[0 to 999 / 50 / 1page]
2-195-003	Realtime MUSIC Condition Set	Page: Interrupt: FC	ENG*	[0 to 999 / 50 / 1page]
2-195-004	Realtime MUSIC Condition Set	Temperature 4	ENG*	[0 to 100 / 1 / 1deg]
2-195-005	Realtime MUSIC Condition Set	Temperature 5	ENG*	[0 to 100 / 1 / 1deg]
2-220-001	Skew Origin Set	M: Skew Motor	ENG	[0 to 0 / 0 / 0]
2-220-002	Skew Origin Set	C: Skew Motor	ENG	[0 to 0 / 0 / 0]
2-220-003	Skew Origin Set	Y: Skew Motor	ENG	[0 to 0 / 0 / 0]
2-221-001	LD Power: Fixed	K	ENG*	[0 to 217 / 100 / 1%]
2-221-002	LD Power: Fixed	C	ENG*	[0 to 217 / 100 / 1%]
2-221-003	LD Power: Fixed	M	ENG*	[0 to 217 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-221-004	LD Power: Fixed	Y	ENG*	[0 to 217 / 100 / 1%]
2-229-001	Develop DC Vias	Standard Speed: Bk	ENG*	[0 to 800 / 550 / 1-V]
2-229-002	Develop DC Vias	Standard Speed: C	ENG*	[0 to 800 / 550 / 1-V]
2-229-003	Develop DC Vias	Standard Speed: M	ENG*	[0 to 800 / 550 / 1-V]
2-229-004	Develop DC Vias	Standard Speed: Y	ENG*	[0 to 800 / 550 / 1-V]
2-229-005	Develop DC Bias	Middle Speed Bk	ENG*	[0 to 800 / 550 / 1-V]
2-229-006	Develop DC Bias	Middle Speed C	ENG*	[0 to 800 / 550 / 1-V]
2-229-007	Develop DC Bias	Middle Speed M	ENG*	[0 to 800 / 550 / 1-V]
2-229-008	Develop DC Bias	Middle Speed Y	ENG*	[0 to 800 / 550 / 1-V]
2-229-009	Develop DC Vias	Low Speed: Bk	ENG*	[0 to 800 / 550 / 1-V]
2-229-010	Develop DC Vias	Low Speed: C	ENG*	[0 to 800 / 550 / 1-V]
2-229-011	Develop DC Vias	Low Speed: M	ENG*	[0 to 800 / 550 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-229-012	Develop DC Vias	Low Speed: Y	ENG*	[0 to 800 / 550 / 1-V]
2-241-003	Temperature/Humidity: Display	Exec Interval: Extra Fan Control	ENG*	[1 to 3600 / 10 / 1sec]
2-241-004	AIT Temperature	AIT Temperature	ENG	[0 to 70 / 0 / 0.1deg]
2-242-001	TS Operation Env. Log	TS<=A-3	ENG	[0 to 99999999 / 0 / 1mm]
2-242-002	TS Operation Env. Log	A-3<TS<=A	ENG	[0 to 99999999 / 0 / 1mm]
2-242-003	TS Operation Env. Log	A<TS<=A+3	ENG	[0 to 99999999 / 0 / 1mm]
2-242-004	TS Operation Env. Log	A+3<TS	ENG	[0 to 99999999 / 0 / 1mm]
2-242-100	TS Operation Env. Log	Log Clear	ENG	[0 to 1 / 0 / 1]
2-250-001	Interval Downmode	ON/OFF Setting	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
2-302-001	Environmental Correction:Trans	Current Environmental Display	ENG	[0 to 0 / 0 / 0]
2-302-002	Environmental Correction:Trans	Forced Setting	ENG*	[0 to 6 / 0 / 1]
2-302-003	Environmental Correction:Trans	Absolute Humidity:Threshold 1	ENG*	[0 to 100 / 400 / 0.01g/m3]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-302-004	Environmental Correction:Trans	Absolute Humidity:Threshold 2	ENG*	[0 to 100 / 800 / 0.01g/m3]
2-302-005	Environmental Correction:Trans	Absolute Humidity:Threshold 3	ENG*	[0 to 100 / 1600 / 0.01g/m3]
2-302-006	Environmental Correction:Trans	Absolute Humidity:Threshold 4	ENG*	[0 to 100 / 2400 / 0.01g/m3]
2-302-007	Environmental Correction:Trans	Temperature:Threshold	ENG*	[-5 to 30 / 5 / 1deg]
2-303-001	Time-Lapse Correction	Current Div K	ENG*	[0 to 3 / 0 / 1]
2-303-002	Time-Lapse Correction	Current Div C	ENG*	[0 to 3 / 0 / 1]
2-303-003	Time-Lapse Correction	Current Div M	ENG*	[0 to 3 / 0 / 1]
2-303-004	Time-Lapse Correction	Current Div Y	ENG*	[0 to 3 / 0 / 1]
2-303-005	Time-Lapse Correction	Correction Threshold 1_Bk	ENG*	[0 to 600000 / 5000 / 10page]
2-303-006	Time-Lapse Correction	Correction Threshold 1_Color	ENG*	[0 to 600000 / 5000 / 10page]
2-303-007	Time-Lapse Correction	Correction Threshold 2_Bk	ENG*	[0 to 600000 / 20000 / 10page]
2-303-008	Time-Lapse Correction	Correction Threshold 2_Color	ENG*	[0 to 600000 / 20000 / 10page]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-303-009	Time-Lapse Correction	Correction Threshold 3_Bk	ENG*	[0 to 600000 / 50000 / 10page]
2-303-010	Time-Lapse Correction	Correction Threshold 3_Color	ENG*	[0 to 600000 / 50000 / 10page]
2-308-001	Paper Size Correction	Threshold 1	ENG*	[0 to 350 / 297 / 1mm]
2-308-002	Paper Size Correction	Threshold 2	ENG*	[0 to 350 / 257 / 1mm]
2-308-003	Paper Size Correction	Threshold 3	ENG*	[0 to 350 / 210 / 1mm]
2-308-004	Paper Size Correction	Threshold 4	ENG*	[0 to 350 / 148 / 1mm]
2-308-005	Paper Size Correction	Threshold 1	ENG*	[0 to 350 / 297 / 1mm]
2-308-006	Paper Size Correction	Threshold 2	ENG*	[0 to 350 / 257 / 1mm]
2-308-007	Paper Size Correction	Threshold 3	ENG*	[0 to 350 / 210 / 1mm]
2-308-008	Paper Size Correction	Threshold 4	ENG*	[0 to 350 / 148 / 1mm]
2-311-001	Non Image Area:Bias	Image Transfer	ENG*	[10 to 250 / 100 / 5%]
2-311-002	Non Image Area:Bias	Paper Transfer	ENG*	[0 to 230 / 0 / 1-uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-311-003	Non Image Area:Bias	Paper Transfer	ENG*	[0 to 2100 / 500 / 10V]
2-316-001	Power ON:Bias	Image Transfer	ENG*	[0 to 80 / 5 / 1uA]
2-326-001	Transfer Roller CL:Bias	Positive:befor and after JOB	ENG*	[0 to 2100 / 250 / 10V]
2-326-002	Transfer Roller CL:Bias	Negative:befor and after JOB	ENG*	[10 to 995 / 100 / 10%]
2-326-003	Transfer Roller CL:Bias	Positive:befor and afterProcon	ENG*	[0 to 2100 / 2000 / 10V]
2-326-004	Transfer Roller CL:Bias	Negative:befor and afterProcon	ENG*	[10 to 995 / 100 / 10%]
2-326-005	Transfer Roller CL:Bias	Positive:prevention	ENG*	[0 to 2100 / 500 / 10V]
2-326-011	Transfer Roller CL:Env	Positive:befor and after JOB	ENG*	[1 to 110 / 100 / 1]
2-326-013	Transfer Roller CL:Env	Positive:befor and afterProcon	ENG*	[1 to 110 / 100 / 1]
2-326-015	Transfer Roller CL:Env	Positive:prevention	ENG*	[1 to 110 / 100 / 1]
2-351-001	Common:BW:Bias	Image Transfer:standard	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 41 *SP C842DN: 57

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-351-002	Common:BW:Bias	Image Transfer:Middle	ENG	[0 to 80 / 24 / 1uA]
2-351-003	Common:BW:Bias	Image Transfer:low	ENG	[0 to 80 / 16 / 1uA]
2-357-001	Common:FC:Bias	ImageTransfer:standard:Bk	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 41 *SP C842DN: 57
2-357-002	Common:FC:Bias	ImageTransfer:standard:C	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 41 *SP C842DN: 57
2-357-003	Common:FC:Bias	ImageTransfer:standard:M	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 45 *SP C842DN: 62
2-357-004	Common:FC:Bias	ImageTransfer:standard:Y	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 49 *SP C842DN: 67
2-357-005	Common:FC:Bias	ImageTransfer:Middle:Bk	ENG	[0 to 80 / 24 / 1uA]
2-357-006	Common:FC:Bias	ImageTransfer:Middle:C	ENG	[0 to 80 / 24 / 1uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-357-007	Common:FC:Bias	ImageTransfer:Middle:M	ENG	[0 to 80 / 26 / 1uA]
2-357-008	Common:FC:Bias	ImageTransfer:Middle:Y	ENG	[0 to 80 / 28 / 1uA]
2-357-009	Common:FC:Bias	Image Transfer:low:Bk	ENG	[0 to 80 / 16 / 1uA]
2-357-010	Common:FC:Bias	Image Transfer:low:C	ENG	[0 to 80 / 16 / 1uA]
2-357-011	Common:FC:Bias	Image Transfer:low:M	ENG	[0 to 80 / 18 / 1uA]
2-357-012	Common:FC:Bias	Image Transfer:low:Y	ENG	[0 to 80 / 19 / 1uA]
2-358-001	TC adjust Process Control:Bias	ImageTransfer:standard:FC:Bk	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 41 *SP C842DN: 57
2-358-002	TC adjust Process Control:Bias	ImageTransfer:standard:FC:C	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 41 *SP C842DN: 57
2-358-003	TC adjust Process Control:Bias	ImageTransfer:standard:FC:M	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 45 *SP C842DN: 62

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-358-004	TC adjust Process Control:Bias	ImageTransfer:standard:FC:Y	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 49 *SP C842DN: 67
2-358-005	TC adjust Process Control:Bias	ImageTransfer:standard:Bk:Bk	ENG*	[0 to 80 / * / 1uA] *SP C840DN: 41 *SP C842DN: 57
2-360-001	Common:BW:Env.CorrectionTable	Image Transfer:standard	ENG*	[1 to 110 / 2 / 1]
2-360-002	Common:BW:Env.CorrectionTable	Image Transfer:Middle	ENG	[1 to 110 / 2 / 1]
2-360-003	Common:BW:Env.CorrectionTable	Image Transfer:low	ENG	[1 to 110 / 2 / 1]
2-360-004	Common:FC:Env.CorrectionTable	ImageTransfer:standard:Bk	ENG*	[1 to 110 / 1 / 1]
2-360-005	Common:FC:Env.CorrectionTable	ImageTransfer:standard:C	ENG*	[1 to 110 / 2 / 1]
2-360-006	Common:FC:Env.CorrectionTable	ImageTransfer:standard:M	ENG*	[1 to 110 / 3 / 1]
2-360-007	Common:FC:Env.CorrectionTable	ImageTransfer:standard:Y	ENG*	[1 to 110 / 4 / 1]
2-360-008	Common:FC:Env.CorrectionTable	ImageTransfer:Middle:Bk	ENG	[1 to 110 / 1 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-360-009	Common:FC:Env.CorrectionTable	ImageTransfer:Middle:C	ENG	[1 to 110 / 2 / 1]
2-360-010	Common:FC:Env.CorrectionTable	ImageTransfer:Middle:M	ENG	[1 to 110 / 3 / 1]
2-360-011	Common:FC:Env.CorrectionTable	ImageTransfer:Middle:Y	ENG	[1 to 110 / 4 / 1]
2-360-012	Common:FC:Env.CorrectionTable	Image Transfer:low:Bk	ENG	[1 to 110 / 1 / 1]
2-360-013	Common:FC:Env.CorrectionTable	Image Transfer:low:C	ENG	[1 to 110 / 2 / 1]
2-360-014	Common:FC:Env.CorrectionTable	Image Transfer:low:M	ENG	[1 to 110 / 3 / 1]
2-360-015	Common:FC:Env.CorrectionTable	Image Transfer:low:Y	ENG	[1 to 110 / 4 / 1]
2-361-001	Time-Lapse Correction: Div 1	Standard Speed: Bk	ENG*	[1 to 60 / 2 / 1]
2-361-002	Time-Lapse Correction: Div 1	Mid Speed: Bk	ENG	[1 to 60 / 2 / 1]
2-361-003	Time-Lapse Correction: Div 1	Low Speed: Bk	ENG	[1 to 60 / 2 / 1]
2-361-004	Time-Lapse Correction: Div 1	Standard Speed: FC: K	ENG*	[1 to 60 / 1 / 1]
2-361-005	Time-Lapse Correction: Div 1	Standard Speed: FC: C	ENG*	[1 to 60 / 1 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-361-006	Time-Lapse Correction: Div 1	Standard Speed: FC: M	ENG*	[1 to 60 / 1 / 1]
2-361-007	Time-Lapse Correction: Div 1	Standard Speed: FC: Y	ENG*	[1 to 60 / 1 / 1]
2-361-008	Time-Lapse Correction: Div 1	Mid Speed: FC: K	ENG	[1 to 60 / 1 / 1]
2-361-009	Time-Lapse Correction: Div 1	Mid Speed: FC: C	ENG	[1 to 60 / 1 / 1]
2-361-010	Time-Lapse Correction: Div 1	Mid Speed: FC: M	ENG	[1 to 60 / 1 / 1]
2-361-011	Time-Lapse Correction: Div 1	Mid Speed: FC: Y	ENG	[1 to 60 / 1 / 1]
2-361-012	Time-Lapse Correction: Div 1	Low Speed: FC: K	ENG	[1 to 60 / 1 / 1]
2-361-013	Time-Lapse Correction: Div 1	Low Speed: FC: C	ENG	[1 to 60 / 1 / 1]
2-361-014	Time-Lapse Correction: Div 1	Low Speed: FC: M	ENG	[1 to 60 / 1 / 1]
2-361-015	Time-Lapse Correction: Div 1	Low Speed: FC: Y	ENG	[1 to 60 / 1 / 1]
2-362-001	Time-Lapse Correction: Div 2	Standard Speed: Bk	ENG*	[1 to 60 / 3 / 1]
2-362-002	Time-Lapse Correction: Div 2	Mid Speed: Bk	ENG	[1 to 60 / 3 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-362-003	Time-Lapse Correction: Div 2	Low Speed: Bk	ENG	[1 to 60 / 3 / 1]
2-362-004	Time-Lapse Correction: Div 2	Standard Speed: FC: K	ENG*	[1 to 60 / 1 / 1]
2-362-005	Time-Lapse Correction: Div 2	Standard Speed: FC: C	ENG*	[1 to 60 / 1 / 1]
2-362-006	Time-Lapse Correction: Div 2	Standard Speed: FC: M	ENG*	[1 to 60 / 1 / 1]
2-362-007	Time-Lapse Correction: Div 2	Standard Speed: FC: Y	ENG*	[1 to 60 / 1 / 1]
2-362-008	Time-Lapse Correction: Div 2	Mid Speed: FC: K	ENG	[1 to 60 / 1 / 1]
2-362-009	Time-Lapse Correction: Div 2	Mid Speed: FC: C	ENG	[1 to 60 / 1 / 1]
2-362-010	Time-Lapse Correction: Div 2	Mid Speed: FC: M	ENG	[1 to 60 / 1 / 1]
2-362-011	Time-Lapse Correction: Div 2	Mid Speed: FC: Y	ENG	[1 to 60 / 1 / 1]
2-362-012	Time-Lapse Correction: Div 2	Low Speed: FC: K	ENG	[1 to 60 / 1 / 1]
2-362-013	Time-Lapse Correction: Div 2	Low Speed: FC: C	ENG	[1 to 60 / 1 / 1]
2-362-014	Time-Lapse Correction: Div 2	Low Speed: FC: M	ENG	[1 to 60 / 1 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-362-015	Time-Lapse Correction: Div 2	Low Speed: FC: Y	ENG	[1 to 60 / 1 / 1]
2-363-001	Time-Lapse Correction: Div 3	Standard Speed: Bk	ENG*	[1 to 60 / 4 / 1]
2-363-002	Time-Lapse Correction: Div 3	Mid Speed: Bk	ENG	[1 to 60 / 4 / 1]
2-363-003	Time-Lapse Correction: Div 3	Low Speed: Bk	ENG	[1 to 60 / 4 / 1]
2-363-004	Time-Lapse Correction: Div 3	Standard Speed: FC: K	ENG*	[1 to 60 / 1 / 1]
2-363-005	Time-Lapse Correction: Div 3	Standard Speed: FC: C	ENG*	[1 to 60 / 1 / 1]
2-363-006	Time-Lapse Correction: Div 3	Standard Speed: FC: M	ENG*	[1 to 60 / 1 / 1]
2-363-007	Time-Lapse Correction: Div 3	Standard Speed: FC: Y	ENG*	[1 to 60 / 1 / 1]
2-363-008	Time-Lapse Correction: Div 3	Mid Speed: FC: K	ENG	[1 to 60 / 1 / 1]
2-363-009	Time-Lapse Correction: Div 3	Mid Speed: FC: C	ENG	[1 to 60 / 1 / 1]
2-363-010	Time-Lapse Correction: Div 3	Mid Speed: FC: M	ENG	[1 to 60 / 1 / 1]
2-363-011	Time-Lapse Correction: Div 3	Mid Speed: FC: Y	ENG	[1 to 60 / 1 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-363-012	Time-Lapse Correction: Div 3	Low Speed: FC: K	ENG	[1 to 60 / 1 / 1]
2-363-013	Time-Lapse Correction: Div 3	Low Speed: FC: C	ENG	[1 to 60 / 1 / 1]
2-363-014	Time-Lapse Correction: Div 3	Low Speed: FC: M	ENG	[1 to 60 / 1 / 1]
2-363-015	Time-Lapse Correction: Div 3	Low Speed: FC: Y	ENG	[1 to 60 / 1 / 1]
2-400-001	Paper Transfer Roller Settings	Width of Paper Transfer Roller	ENG*	[0 to 1 / 0 / 1] 0:Default roller 1:Wide roller
2-400-002	Paper Transfer Roller Settings	Detatch timing in waiting	ENG	[0 to 600 / 240 / 1min]
2-403-001	Plain1:Bias:BW	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-403-002	Plain1:Bias:BW	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-403-003	Plain1:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-403-004	Plain1:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 11 / 1-uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-407-001	Plain1:Bias:FC	PaperTransfer:standard:1side	ENG*	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-407-002	Plain1:Bias:FC	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-407-003	Plain1:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-407-004	Plain1:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 14 / 1-uA]
2-411-001	Plain1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-411-002	Plain1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-411-003	Plain1:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-411-004	Plain1:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-411-005	Plain1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-411-006	Plain1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-411-007	Plain1:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-411-008	Plain1:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-411-009	Plain1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-411-010	Plain1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-411-011	Plain1:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-411-012	Plain1:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-411-013	Plain1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-411-014	Plain1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-411-015	Plain1:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-411-016	Plain1:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-411-017	Plain1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-411-018	Plain1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-411-019	Plain1:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-411-020	Plain1:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-411-021	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-411-022	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-411-023	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-411-024	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-411-025	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-411-026	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-411-027	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-411-028	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-411-029	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-411-030	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-411-031	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-411-032	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-411-033	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-411-034	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-411-035	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-411-036	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-411-037	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-411-038	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-411-039	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-411-040	Plain1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-412-001	Plain1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-412-002	Plain1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-412-003	Plain1:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-412-004	Plain1:SizeCorrection:FC	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-412-005	Plain1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-412-006	Plain1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-412-007	Plain1:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-412-008	Plain1:SizeCorrection:FC	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-412-009	Plain1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-412-010	Plain1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-412-011	Plain1:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-412-012	Plain1:SizeCorrection:FC	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-412-013	Plain1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-412-014	Plain1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-412-015	Plain1:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-412-016	Plain1:SizeCorrection:FC	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-412-017	Plain1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-412-018	Plain1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-412-019	Plain1:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-412-020	Plain1:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-412-021	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-412-022	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-412-023	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-412-024	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-412-025	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-412-026	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-412-027	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-412-028	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-412-029	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-412-030	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-412-031	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-412-032	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-412-033	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-412-034	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-412-035	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-412-036	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-412-037	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-412-038	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-412-039	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-412-040	Plain1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-413-001	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-413-002	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-413-003	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-413-004	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-413-005	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-413-006	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-413-007	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-413-008	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-413-009	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-413-010	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-413-011	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-413-012	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-413-013	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-413-014	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-413-015	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-413-016	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-413-017	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-413-018	Plain1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-413-019	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-413-020	Plain1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-413-021	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-413-022	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-413-023	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-413-024	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-413-025	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-413-026	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-413-027	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-413-028	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-413-029	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-413-030	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-413-031	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-413-032	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-413-033	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-413-034	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-413-035	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-413-036	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-413-037	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-413-038	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-413-039	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-413-040	Plain1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-414-001	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S1	ENG*	[1 to 110 / 20 / 1]
2-414-002	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-414-003	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-414-004	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-414-005	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-414-006	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-414-007	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-414-008	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-414-009	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-414-010	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-414-011	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-414-012	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-414-013	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-414-014	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-414-015	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-414-016	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-414-017	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-414-018	Plain1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-414-019	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-414-020	Plain1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-414-021	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG*	[1 to 110 / 20 / 1]
2-414-022	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-414-023	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-414-024	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-414-025	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-414-026	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-414-027	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-414-028	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-414-029	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-414-030	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-414-031	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-414-032	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-414-033	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-414-034	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-414-035	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-414-036	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-414-037	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-414-038	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-414-039	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-414-040	Plain1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-415-001	Plain1:LeadingEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-415-002	Plain1:LeadingEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-415-003	Plain1:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-415-004	Plain1:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-416-001	Plain1:SwitchTimingLeadEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-416-002	Plain1:SwitchTimingLeadEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-416-003	Plain1:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-416-004	Plain1:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-417-001	Plain1:TrailEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-417-002	Plain1:TrailEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-417-003	Plain1:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-417-004	Plain1:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-418-001	Plain1:SwitchTimingTrailEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-418-002	Plain1:SwitchTimingTrailEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-418-003	Plain1:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-418-004	Plain1:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-423-001	Plain2:Bias:BW	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-423-002	Plain2:Bias:BW	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-423-003	Plain2:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-423-004	Plain2:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 11 / 1-uA]
2-425-001	HHsmall:LeadEdgeCorrection	PaperTransfer:1side	ENG	[0 to 995 / 100 / 5%]
2-425-002	HHsmall:LeadEdgeCorrection	PaperTransfer:2stSide	ENG	[0 to 995 / 100 / 5%]
2-427-001	Plain2:Bias:FC	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-427-002	Plain2:Bias:FC	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-427-003	Plain2:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-427-004	Plain2:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 14 / 1-uA]
2-431-001	Plain2:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-431-002	Plain2:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-431-003	Plain2:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-431-004	Plain2:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-431-005	Plain2:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-431-006	Plain2:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-431-007	Plain2:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-431-008	Plain2:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-431-009	Plain2:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-431-010	Plain2:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-431-011	Plain2:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-431-012	Plain2:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-431-013	Plain2:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-431-014	Plain2:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-431-015	Plain2:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-431-016	Plain2:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-431-017	Plain2:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-431-018	Plain2:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-431-019	Plain2:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-431-020	Plain2:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-431-021	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-431-022	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-431-023	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-431-024	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-431-025	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-431-026	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-431-027	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-431-028	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-431-029	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-431-030	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-431-031	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-431-032	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-431-033	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-431-034	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-431-035	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-431-036	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-431-037	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-431-038	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-431-039	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-431-040	Plain2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-432-001	Plain2:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-432-002	Plain2:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-432-003	Plain2:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-432-004	Plain2:SizeCorrection:FC	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-432-005	Plain2:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-432-006	Plain2:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-432-007	Plain2:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-432-008	Plain2:SizeCorrection:FC	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-432-009	Plain2:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-432-010	Plain2:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-432-011	Plain2:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-432-012	Plain2:SizeCorrection:FC	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-432-013	Plain2:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-432-014	Plain2:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-432-015	Plain2:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-432-016	Plain2:SizeCorrection:FC	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-432-017	Plain2:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-432-018	Plain2:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-432-019	Plain2:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-432-020	Plain2:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-432-021	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-432-022	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-432-023	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-432-024	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-432-025	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-432-026	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-432-027	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-432-028	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-432-029	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-432-030	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-432-031	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-432-032	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-432-033	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-432-034	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-432-035	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-432-036	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-432-037	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-432-038	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-432-039	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-432-040	Plain2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-433-001	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-433-002	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-433-003	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-433-004	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-433-005	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-433-006	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-433-007	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-433-008	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-433-009	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-433-010	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-433-011	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-433-012	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-433-013	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-433-014	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-433-015	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-433-016	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-433-017	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-433-018	Plain2:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-433-019	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-433-020	Plain2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-433-021	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-433-022	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-433-023	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-433-024	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-433-025	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-433-026	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-433-027	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-433-028	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-433-029	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-433-030	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-433-031	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-433-032	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-433-033	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-433-034	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-433-035	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-433-036	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-433-037	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-433-038	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-433-039	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-433-040	Plain2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-434-001	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-434-002	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-434-003	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-434-004	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-434-005	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-434-006	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-434-007	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-434-008	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-434-009	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-434-010	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-434-011	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-434-012	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-434-013	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-434-014	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-434-015	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-434-016	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-434-017	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-434-018	Plain2:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-434-019	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-434-020	Plain2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-434-021	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-434-022	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-434-023	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-434-024	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-434-025	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-434-026	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-434-027	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-434-028	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-434-029	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-434-030	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-434-031	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-434-032	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-434-033	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-434-034	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-434-035	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-434-036	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-434-037	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-434-038	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-434-039	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-434-040	Plain2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-435-001	Plain2:LeadingEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-435-002	Plain2:LeadingEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-435-003	Plain2:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-435-004	Plain2:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-436-001	Plain2:SwitchTimingLeadEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-436-002	Plain2:SwitchTimingLeadEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-436-003	Plain2:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-436-004	Plain2:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-437-001	Plain2:TrailEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-437-002	Plain2:TrailEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-437-003	Plain2:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-437-004	Plain2:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-438-001	Plain2:SwitchTimingTrailEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-438-002	Plain2:SwitchTimingTrailEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-438-003	Plain2:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-438-004	Plain2:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-443-001	Middle:Bias:BW	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-443-002	Middle:Bias:BW	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-443-003	Middle:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-443-004	Middle:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 11 / 1-uA]
2-447-001	Middle:Bias:FC	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-447-002	Middle:Bias:FC	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 39 *SP C842DN: 53
2-447-003	Middle:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-447-004	Middle:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 15 / 1-uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-451-001	Middle:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-451-002	Middle:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-451-003	Middle:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-451-004	Middle:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-451-005	Middle:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-451-006	Middle:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 106 / 1%]
2-451-007	Middle:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-451-008	Middle:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 106 / 1%]
2-451-009	Middle:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-451-010	Middle:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 110 / 1%]
2-451-011	Middle:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-451-012	Middle:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 110 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-451-013	Middle:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 113 / 1%]
2-451-014	Middle:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 120 / 1%]
2-451-015	Middle:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 113 / 1%]
2-451-016	Middle:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 120 / 1%]
2-451-017	Middle:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 118 / 1%]
2-451-018	Middle:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-451-019	Middle:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 118 / 1%]
2-451-020	Middle:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 140 / 1%]
2-451-021	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-451-022	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-451-023	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-451-024	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-451-025	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-451-026	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 106 / 1%]
2-451-027	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-451-028	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 106 / 1%]
2-451-029	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-451-030	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 110 / 1%]
2-451-031	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-451-032	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 110 / 1%]
2-451-033	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 113 / 1%]
2-451-034	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 120 / 1%]
2-451-035	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 113 / 1%]
2-451-036	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 120 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-451-037	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 118 / 1%]
2-451-038	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-451-039	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 118 / 1%]
2-451-040	Middle:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 140 / 1%]
2-452-001	Middle:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-452-002	Middle:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-452-003	Middle:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-452-004	Middle:SizeCorrection:FC	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-452-005	Middle:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 106 / 1%]
2-452-006	Middle:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 132 / 1%]
2-452-007	Middle:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 106 / 1%]
2-452-008	Middle:SizeCorrection:FC	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 132 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-452-009	Middle:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 110 / 1%]
2-452-010	Middle:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 170 / 1%]
2-452-011	Middle:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 110 / 1%]
2-452-012	Middle:SizeCorrection:FC	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 170 / 1%]
2-452-013	Middle:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 120 / 1%]
2-452-014	Middle:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 189 / 1%]
2-452-015	Middle:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 120 / 1%]
2-452-016	Middle:SizeCorrection:FC	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 189 / 1%]
2-452-017	Middle:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-452-018	Middle:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 245 / 1%]
2-452-019	Middle:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-452-020	Middle:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 245 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-452-021	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-452-022	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-452-023	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-452-024	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-452-025	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 106 / 1%]
2-452-026	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 132 / 1%]
2-452-027	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 106 / 1%]
2-452-028	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 132 / 1%]
2-452-029	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 110 / 1%]
2-452-030	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 170 / 1%]
2-452-031	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 110 / 1%]
2-452-032	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 170 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-452-033	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 120 / 1%]
2-452-034	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 189 / 1%]
2-452-035	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 120 / 1%]
2-452-036	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 189 / 1%]
2-452-037	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-452-038	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 245 / 1%]
2-452-039	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-452-040	Middle:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 245 / 1%]
2-453-001	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-453-002	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 41 / 1]
2-453-003	Middle:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-453-004	Middle:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 41 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-453-005	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 39 / 1]
2-453-006	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 42 / 1]
2-453-007	Middle:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 39 / 1]
2-453-008	Middle:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 42 / 1]
2-453-009	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 40 / 1]
2-453-010	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 43 / 1]
2-453-011	Middle:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 40 / 1]
2-453-012	Middle:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 43 / 1]
2-453-013	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 40 / 1]
2-453-014	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 44 / 1]
2-453-015	Middle:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 40 / 1]
2-453-016	Middle:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 44 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-453-017	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 40 / 1]
2-453-018	Middle:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 45 / 1]
2-453-019	Middle:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 40 / 1]
2-453-020	Middle:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 45 / 1]
2-453-021	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-453-022	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 41 / 1]
2-453-023	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-453-024	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 41 / 1]
2-453-025	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 39 / 1]
2-453-026	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 42 / 1]
2-453-027	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 39 / 1]
2-453-028	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 42 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-453-029	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 40 / 1]
2-453-030	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 43 / 1]
2-453-031	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 40 / 1]
2-453-032	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 43 / 1]
2-453-033	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 40 / 1]
2-453-034	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 44 / 1]
2-453-035	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 40 / 1]
2-453-036	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 44 / 1]
2-453-037	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 40 / 1]
2-453-038	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 45 / 1]
2-453-039	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 40 / 1]
2-453-040	Middle:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 45 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-454-001	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-454-002	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 49 / 1]
2-454-003	Middle:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-454-004	Middle:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 49 / 1]
2-454-005	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 46 / 1]
2-454-006	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 50 / 1]
2-454-007	Middle:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 46 / 1]
2-454-008	Middle:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 50 / 1]
2-454-009	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 47 / 1]
2-454-010	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 51 / 1]
2-454-011	Middle:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 47 / 1]
2-454-012	Middle:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 51 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-454-013	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 48 / 1]
2-454-014	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 52 / 1]
2-454-015	Middle:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 48 / 1]
2-454-016	Middle:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 52 / 1]
2-454-017	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 48 / 1]
2-454-018	Middle:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 53 / 1]
2-454-019	Middle:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 48 / 1]
2-454-020	Middle:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 53 / 1]
2-454-021	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-454-022	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 49 / 1]
2-454-023	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-454-024	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 49 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-454-025	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 46 / 1]
2-454-026	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 50 / 1]
2-454-027	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 46 / 1]
2-454-028	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 50 / 1]
2-454-029	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 47 / 1]
2-454-030	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 51 / 1]
2-454-031	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 47 / 1]
2-454-032	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 51 / 1]
2-454-033	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 48 / 1]
2-454-034	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 52 / 1]
2-454-035	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 48 / 1]
2-454-036	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 52 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-454-037	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 48 / 1]
2-454-038	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 53 / 1]
2-454-039	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 48 / 1]
2-454-040	Middle:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 53 / 1]
2-455-001	Middle:LeadingEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-455-002	Middle:LeadingEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-455-003	Middle:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-455-004	Middle:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-456-001	Middle:SwitchTimingLeadEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-456-002	Middle:SwitchTimingLeadEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-456-003	Middle:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-456-004	Middle:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-457-001	Middle:TrailEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-457-002	Middle:TrailEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-457-003	Middle:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-457-004	Middle:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-458-001	Middle:SwitchTimingTrailEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-458-002	Middle:SwitchTimingTrailEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-458-003	Middle:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-458-004	Middle:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-463-001	Thin:Bias:BW	PaperTransfer:Standard:1Sid	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-463-002	Thin:Bias:BW	PaperTransfer:Standard:2Sid	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-463-003	Thin:Bias:BW	Paper Transfer:Low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-463-004	Thin:Bias:BW	Paper Transfer:Low:2side	ENG	[0 to 250 / 11 / 1-uA]
2-467-001	Thin:Bias:FC	PaperTransfer:Standard:1Sid	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-467-002	Thin:Bias:FC	PaperTransfer:Standard:2Sid	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-467-003	Thin:Bias:FC	Paper Transfer:Low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-467-004	Thin:Bias:FC	Paper Transfer:Low:2side	ENG	[0 to 250 / 14 / 1-uA]
2-471-001	Thin:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-471-002	Thin:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-471-003	Thin:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-471-004	Thin:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-471-005	Thin:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-471-006	Thin:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-471-007	Thin:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-471-008	Thin:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-471-009	Thin:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 111 / 1%]
2-471-010	Thin:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 140 / 1%]
2-471-011	Thin:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 111 / 1%]
2-471-012	Thin:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 140 / 1%]
2-471-013	Thin:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 121 / 1%]
2-471-014	Thin:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 175 / 1%]
2-471-015	Thin:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 121 / 1%]
2-471-016	Thin:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 175 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-471-017	Thin:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-471-018	Thin:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 211 / 1%]
2-471-019	Thin:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-471-020	Thin:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 211 / 1%]
2-471-021	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-471-022	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-471-023	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-471-024	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-471-025	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-471-026	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-471-027	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-471-028	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-471-029	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 111 / 1%]
2-471-030	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 140 / 1%]
2-471-031	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 111 / 1%]
2-471-032	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 140 / 1%]
2-471-033	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 121 / 1%]
2-471-034	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 175 / 1%]
2-471-035	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 121 / 1%]
2-471-036	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 175 / 1%]
2-471-037	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-471-038	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 211 / 1%]
2-471-039	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-471-040	Thin:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 211 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-472-001	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-472-002	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-472-003	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-472-004	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-472-005	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 106 / 1%]
2-472-006	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 130 / 1%]
2-472-007	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 106 / 1%]
2-472-008	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 130 / 1%]
2-472-009	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 117 / 1%]
2-472-010	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 153 / 1%]
2-472-011	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 117 / 1%]
2-472-012	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 153 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-472-013	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 128 / 1%]
2-472-014	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 177 / 1%]
2-472-015	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 128 / 1%]
2-472-016	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 177 / 1%]
2-472-017	Thin:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-472-018	Thin:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 200 / 1%]
2-472-019	Thin:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-472-020	Thin:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 200 / 1%]
2-472-021	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-472-022	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-472-023	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-472-024	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-472-025	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 106 / 1%]
2-472-026	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 130 / 1%]
2-472-027	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 106 / 1%]
2-472-028	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 130 / 1%]
2-472-029	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 117 / 1%]
2-472-030	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 153 / 1%]
2-472-031	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 117 / 1%]
2-472-032	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 153 / 1%]
2-472-033	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 128 / 1%]
2-472-034	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 177 / 1%]
2-472-035	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 128 / 1%]
2-472-036	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 177 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-472-037	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-472-038	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 200 / 1%]
2-472-039	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-472-040	Thin:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 200 / 1%]
2-473-001	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-473-002	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 15 / 1]
2-473-003	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-473-004	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 15 / 1]
2-473-005	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-473-006	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 16 / 1]
2-473-007	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-473-008	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 16 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-473-009	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-473-010	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 30 / 1]
2-473-011	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-473-012	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 30 / 1]
2-473-013	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-473-014	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 31 / 1]
2-473-015	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-473-016	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 31 / 1]
2-473-017	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-473-018	Thin:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 32 / 1]
2-473-019	Thin:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-473-020	Thin:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 32 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-473-021	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-473-022	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-473-023	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-473-024	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-473-025	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-473-026	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-473-027	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-473-028	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-473-029	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-473-030	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 30 / 1]
2-473-031	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-473-032	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 30 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-473-033	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-473-034	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 31 / 1]
2-473-035	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-473-036	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 31 / 1]
2-473-037	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-473-038	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 32 / 1]
2-473-039	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-473-040	Thin:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 32 / 1]
2-474-001	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-474-002	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 25 / 1]
2-474-003	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-474-004	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 25 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-474-005	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-474-006	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 35 / 1]
2-474-007	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-474-008	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 35 / 1]
2-474-009	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 33 / 1]
2-474-010	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 36 / 1]
2-474-011	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 33 / 1]
2-474-012	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 36 / 1]
2-474-013	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 34 / 1]
2-474-014	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 37 / 1]
2-474-015	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 34 / 1]
2-474-016	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 37 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-474-017	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-474-018	Thin:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 38 / 1]
2-474-019	Thin:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-474-020	Thin:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 38 / 1]
2-474-021	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-474-022	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-474-023	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-474-024	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-474-025	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-474-026	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 35 / 1]
2-474-027	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-474-028	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 35 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-474-029	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 33 / 1]
2-474-030	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 36 / 1]
2-474-031	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 33 / 1]
2-474-032	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 36 / 1]
2-474-033	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 34 / 1]
2-474-034	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 37 / 1]
2-474-035	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 34 / 1]
2-474-036	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 37 / 1]
2-474-037	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-474-038	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 38 / 1]
2-474-039	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-474-040	Thin:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 38 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-475-001	Thin:LeadingEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-475-002	Thin:LeadingEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-475-003	Thin:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-475-004	Thin:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-476-001	Thin:SwitchTimingLeadEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-476-002	Thin:SwitchTimingLeadEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-476-003	Thin:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-476-004	Thin:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-477-001	Thin:TrailEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-477-002	Thin:TrailEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-477-003	Thin:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-477-004	Thin:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-478-001	Thin:SwitchTimingTrailEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-478-002	Thin:SwitchTimingTrailEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-478-003	Thin:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-478-004	Thin:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-483-001	Thick1:Bias:BW	PaperTransfer:middle:1side	ENG	[0 to 250 / 16 / 1-uA]
2-483-002	Thick1:Bias:BW	PaperTransfer:middle:2side	ENG	[0 to 250 / 13 / 1-uA]
2-483-003	Thick1:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-483-004	Thick1:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 9 / 1-uA]
2-487-001	Thick1:Bias:FC	PaperTransfer:middle:1side	ENG	[0 to 250 / 23 / 1-uA]
2-487-002	Thick1:Bias:FC	PaperTransfer:middle:2side	ENG	[0 to 250 / 26 / 1-uA]
2-487-003	Thick1:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 16 / 1-uA]
2-487-004	Thick1:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 18 / 1-uA]

SP2-491 to SP2-990

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-491-001	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-491-002	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-491-003	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-491-004	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-491-005	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-491-006	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S2	ENG	[100 to 995 / 177 / 1%]
2-491-007	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-491-008	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 177 / 1%]
2-491-009	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S3	ENG	[100 to 995 / 100 / 1%]
2-491-010	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S3	ENG	[100 to 995 / 231 / 1%]
2-	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
491-011				100 / 1%]
2-491-012	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 231 / 1%]
2-491-013	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S4	ENG	[100 to 995 / 100 / 1%]
2-491-014	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S4	ENG	[100 to 995 / 270 / 1%]
2-491-015	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-491-016	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 270 / 1%]
2-491-017	Thick1:SizeCorrection:BW	PaperTransfer:middle:1Sid:S5	ENG	[100 to 995 / 100 / 1%]
2-491-018	Thick1:SizeCorrection:BW	PaperTransfer:middle:2Sid:S5	ENG	[100 to 995 / 308 / 1%]
2-491-019	Thick1:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-491-020	Thick1:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 308 / 1%]
2-491-021	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-491-022	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:2Sid:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-491-023	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-491-024	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-491-025	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-491-026	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:2Sid:S2	ENG	[100 to 995 / 177 / 1%]
2-491-027	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-491-028	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 177 / 1%]
2-491-029	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:1Sid:S3	ENG	[100 to 995 / 100 / 1%]
2-491-030	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:2Sid:S3	ENG	[100 to 995 / 231 / 1%]
2-491-031	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-491-032	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 231 / 1%]
2-491-033	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:1Sid:S4	ENG	[100 to 995 / 100 / 1%]
2-491-034	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:2Sid:S4	ENG	[100 to 995 / 270 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-491-035	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-491-036	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 270 / 1%]
2-491-037	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:1Sid:S5	ENG	[100 to 995 / 100 / 1%]
2-491-038	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:middle:2Sid:S5	ENG	[100 to 995 / 308 / 1%]
2-491-039	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-491-040	Thick1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 308 / 1%]
2-492-001	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-492-002	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-492-003	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-492-004	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-492-005	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-492-006	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S2	ENG	[100 to 995 / 173 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-492-007	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-492-008	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 173 / 1%]
2-492-009	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S3	ENG	[100 to 995 / 100 / 1%]
2-492-010	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S3	ENG	[100 to 995 / 250 / 1%]
2-492-011	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-492-012	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 250 / 1%]
2-492-013	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S4	ENG	[100 to 995 / 100 / 1%]
2-492-014	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S4	ENG	[100 to 995 / 308 / 1%]
2-492-015	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-492-016	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 308 / 1%]
2-492-017	Thick1:SizeCorrection:FC	PaperTransfer:middle:1Sid:S5	ENG	[100 to 995 / 100 / 1%]
2-492-018	Thick1:SizeCorrection:FC	PaperTransfer:middle:2Sid:S5	ENG	[100 to 995 / 385 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-492-019	Thick1:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-492-020	Thick1:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 385 / 1%]
2-492-021	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-492-022	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-492-023	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-492-024	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-492-025	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-492-026	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:2Sid:S2	ENG	[100 to 995 / 173 / 1%]
2-492-027	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-492-028	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 173 / 1%]
2-492-029	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:1Sid:S3	ENG	[100 to 995 / 100 / 1%]
2-492-030	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:2Sid:S3	ENG	[100 to 995 / 250 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-492-031	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-492-032	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 250 / 1%]
2-492-033	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:1Sid:S4	ENG	[100 to 995 / 100 / 1%]
2-492-034	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:2Sid:S4	ENG	[100 to 995 / 308 / 1%]
2-492-035	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-492-036	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 308 / 1%]
2-492-037	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:1Sid:S5	ENG	[100 to 995 / 100 / 1%]
2-492-038	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:middle:2Sid:S5	ENG	[100 to 995 / 385 / 1%]
2-492-039	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-492-040	Thick1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 385 / 1%]
2-493-001	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S1	ENG	[1 to 110 / 54 / 1]
2-493-002	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S1	ENG	[1 to 110 / 57 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-493-003	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 54 / 1]
2-493-004	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 57 / 1]
2-493-005	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S2	ENG	[1 to 110 / 55 / 1]
2-493-006	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S2	ENG	[1 to 110 / 58 / 1]
2-493-007	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 55 / 1]
2-493-008	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 58 / 1]
2-493-009	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S3	ENG	[1 to 110 / 56 / 1]
2-493-010	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S3	ENG	[1 to 110 / 59 / 1]
2-493-011	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 56 / 1]
2-493-012	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 59 / 1]
2-493-013	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S4	ENG	[1 to 110 / 56 / 1]
2-493-014	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S4	ENG	[1 to 110 / 60 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-493-015	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 56 / 1]
2-493-016	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 60 / 1]
2-493-017	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:1Sid:S5	ENG	[1 to 110 / 56 / 1]
2-493-018	Thick1:Size-Env.Correct:BW	PaperTransfer:middle:2Sid:S5	ENG	[1 to 110 / 61 / 1]
2-493-019	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 56 / 1]
2-493-020	Thick1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 61 / 1]
2-493-021	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:1Sid:S1	ENG	[1 to 110 / 54 / 1]
2-493-022	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:2Sid:S1	ENG	[1 to 110 / 57 / 1]
2-493-023	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 54 / 1]
2-493-024	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 57 / 1]
2-493-025	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:1Sid:S2	ENG	[1 to 110 / 55 / 1]
2-493-026	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:2Sid:S2	ENG	[1 to 110 / 58 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-493-027	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 55 / 1]
2-493-028	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 58 / 1]
2-493-029	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:1Sid:S3	ENG	[1 to 110 / 56 / 1]
2-493-030	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:2Sid:S3	ENG	[1 to 110 / 59 / 1]
2-493-031	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 56 / 1]
2-493-032	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 59 / 1]
2-493-033	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:1Sid:S4	ENG	[1 to 110 / 56 / 1]
2-493-034	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:2Sid:S4	ENG	[1 to 110 / 60 / 1]
2-493-035	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 56 / 1]
2-493-036	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 60 / 1]
2-493-037	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:1Sid:S5	ENG	[1 to 110 / 56 / 1]
2-493-038	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:middle:2Sid:S5	ENG	[1 to 110 / 61 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-493-039	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 56 / 1]
2-493-040	Thick1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 61 / 1]
2-494-001	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S1	ENG	[1 to 110 / 62 / 1]
2-494-002	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S1	ENG	[1 to 110 / 65 / 1]
2-494-003	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 62 / 1]
2-494-004	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 65 / 1]
2-494-005	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S2	ENG	[1 to 110 / 63 / 1]
2-494-006	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S2	ENG	[1 to 110 / 66 / 1]
2-494-007	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 63 / 1]
2-494-008	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 66 / 1]
2-494-009	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S3	ENG	[1 to 110 / 63 / 1]
2-494-010	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S3	ENG	[1 to 110 / 67 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-494-011	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 63 / 1]
2-494-012	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 67 / 1]
2-494-013	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S4	ENG	[1 to 110 / 64 / 1]
2-494-014	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S4	ENG	[1 to 110 / 68 / 1]
2-494-015	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 64 / 1]
2-494-016	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 68 / 1]
2-494-017	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:1Sid:S5	ENG	[1 to 110 / 64 / 1]
2-494-018	Thick1:Size-Env.Correct:FC	PaperTransfer:middle:2Sid:S5	ENG	[1 to 110 / 69 / 1]
2-494-019	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 64 / 1]
2-494-020	Thick1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 69 / 1]
2-494-021	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:1Sid:S1	ENG	[1 to 110 / 62 / 1]
2-494-022	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:2Sid:S1	ENG	[1 to 110 / 65 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-494-023	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 62 / 1]
2-494-024	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 65 / 1]
2-494-025	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:1Sid:S2	ENG	[1 to 110 / 63 / 1]
2-494-026	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:2Sid:S2	ENG	[1 to 110 / 66 / 1]
2-494-027	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 63 / 1]
2-494-028	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 66 / 1]
2-494-029	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:1Sid:S3	ENG	[1 to 110 / 63 / 1]
2-494-030	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:2Sid:S3	ENG	[1 to 110 / 67 / 1]
2-494-031	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 63 / 1]
2-494-032	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 67 / 1]
2-494-033	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:1Sid:S4	ENG	[1 to 110 / 64 / 1]
2-494-034	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:2Sid:S4	ENG	[1 to 110 / 68 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-494-035	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 64 / 1]
2-494-036	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 68 / 1]
2-494-037	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:1Sid:S5	ENG	[1 to 110 / 64 / 1]
2-494-038	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:middle:2Sid:S5	ENG	[1 to 110 / 69 / 1]
2-494-039	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 64 / 1]
2-494-040	Thick1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 69 / 1]
2-495-001	Thick1:LeadingEdgeCorrection	PaperTransfer:middle:1Side	ENG	[0 to 995 / 100 / 5%]
2-495-002	Thick1:LeadingEdgeCorrection	PaperTransfer:middle:2Side	ENG	[0 to 995 / 100 / 5%]
2-495-003	Thick1:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-495-004	Thick1:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-496-001	Thick1:SwitchTimingLeadEdge	PaperTransfer:middle:1side	ENG	[0 to 50 / 0 / 2mm]
2-496-002	Thick1:SwitchTimingLeadEdge	PaperTransfer:middle:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-496-003	Thick1:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-496-004	Thick1:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-497-001	Thick1:TrailEdgeCorrection	PaperTransfer:middle:1Side	ENG	[0 to 995 / 100 / 5%]
2-497-002	Thick1:TrailEdgeCorrection	PaperTransfer:middle:2Side	ENG	[0 to 995 / 100 / 5%]
2-497-003	Thick1:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-497-004	Thick1:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-498-001	Thick1:SwitchTimingTrailEdge	PaperTransfer:middle:1Side	ENG	[0 to 50 / 0 / 2mm]
2-498-002	Thick1:SwitchTimingTrailEdge	PaperTransfer:middle:2Side	ENG	[0 to 50 / 0 / 2mm]
2-498-003	Thick1:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-498-004	Thick1:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-503-003	Thick2:Bias:BW	PaperTransfer:1side	ENG	[0 to 250 / 11 / 1-uA]
2-503-004	Thick2:Bias:BW	PaperTransfer:2side	ENG	[0 to 250 / 15 / 1-uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-507-003	Thick2:Bias:FC	PaperTransfer:1side	ENG	[0 to 250 / 19 / 1-uA]
2-507-004	Thick2:Bias:FC	PaperTransfer:2side	ENG	[0 to 250 / 21 / 1-uA]
2-511-003	Thick2:SizeCorrection:BW	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-511-004	Thick2:SizeCorrection:BW	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-511-007	Thick2:SizeCorrection:BW	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-511-008	Thick2:SizeCorrection:BW	PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-511-011	Thick2:SizeCorrection:BW	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-511-012	Thick2:SizeCorrection:BW	PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-511-015	Thick2:SizeCorrection:BW	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-511-016	Thick2:SizeCorrection:BW	PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-511-019	Thick2:SizeCorrection:BW	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-511-020	Thick2:SizeCorrection:BW	PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-511-023	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-511-024	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-511-027	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-511-028	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-511-031	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-511-032	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-511-035	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-511-036	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-511-039	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-511-040	Thick2:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-512-003	Thick2:SizeCorrection:FC	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-512-004	Thick2:SizeCorrection:FC	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-512-007	Thick2:SizeCorrection:FC	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-512-008	Thick2:SizeCorrection:FC	PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-512-011	Thick2:SizeCorrection:FC	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-512-012	Thick2:SizeCorrection:FC	PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-512-015	Thick2:SizeCorrection:FC	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-512-016	Thick2:SizeCorrection:FC	PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-512-019	Thick2:SizeCorrection:FC	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-512-020	Thick2:SizeCorrection:FC	PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-512-023	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-512-024	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-512-027	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-512-028	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-512-031	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-512-032	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-512-035	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-512-036	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-512-039	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-512-040	Thick2:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-513-003	Thick2:Size-Env.Correct:BW	PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-513-004	Thick2:Size-Env.Correct:BW	PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-513-007	Thick2:Size-Env.Correct:BW	PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-513-008	Thick2:Size-Env.Correct:BW	PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-513-011	Thick2:Size-Env.Correct:BW	PaperTransfer:1Side:S3	ENG	[1 to 110 / 71 / 1]
2-513-012	Thick2:Size-Env.Correct:BW	PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-513-015	Thick2:Size-Env.Correct:BW	PaperTransfer:1Side:S4	ENG	[1 to 110 / 71 / 1]
2-513-016	Thick2:Size-Env.Correct:BW	PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]
2-513-019	Thick2:Size-Env.Correct:BW	PaperTransfer:1Side:S5	ENG	[1 to 110 / 71 / 1]
2-513-020	Thick2:Size-Env.Correct:BW	PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-513-023	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-513-024	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-513-027	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-513-028	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-513-031	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 71 / 1]
2-513-032	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-513-035	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 71 / 1]
2-513-036	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-513-039	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 71 / 1]
2-513-040	Thick2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-514-003	Thick2:Size-Env.Correct:FC	PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-514-004	Thick2:Size-Env.Correct:FC	PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-514-007	Thick2:Size-Env.Correct:FC	PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-514-008	Thick2:Size-Env.Correct:FC	PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-514-011	Thick2:Size-Env.Correct:FC	PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-514-012	Thick2:Size-Env.Correct:FC	PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-514-015	Thick2:Size-Env.Correct:FC	PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-514-016	Thick2:Size-Env.Correct:FC	PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-514-019	Thick2:Size-Env.Correct:FC	PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-514-020	Thick2:Size-Env.Correct:FC	PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-514-023	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-514-024	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-514-027	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-514-028	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-514-031	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-514-032	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-514-035	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-514-036	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-514-039	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-514-040	Thick2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-515-003	Thick2:LeadingEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-515-004	Thick2:LeadingEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-516-003	Thick2:SwitchTimingLeadEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-516-004	Thick2:SwitchTimingLeadEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-517-003	Thick2:TrailEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-517-004	Thick2:TrailEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-518-003	Thick2:SwitchTimingTrailEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-518-004	Thick2:SwitchTimingTrailEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-523-003	Thick3:Bias:BW	PaperTransfer:1side	ENG	[0 to 250 / 11 / 1-uA]
2-523-004	Thick3:Bias:BW	PaperTransfer:2side	ENG	[0 to 250 / 15 / 1-uA]
2-527-003	Thick3:Bias:FC	PaperTransfer:1side	ENG	[0 to 250 / 19 / 1-uA]
2-527-004	Thick3:Bias:FC	PaperTransfer:2side	ENG	[0 to 250 / 21 / 1-uA]
2-531-003	Thick3:SizeCorrection:BW	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-531-004	Thick3:SizeCorrection:BW	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-531-007	Thick3:SizeCorrection:BW	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-531-008	Thick3:SizeCorrection:BW	PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-531-011	Thick3:SizeCorrection:BW	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-531-012	Thick3:SizeCorrection:BW	PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-531-015	Thick3:SizeCorrection:BW	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-531-016	Thick3:SizeCorrection:BW	PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-531-019	Thick3:SizeCorrection:BW	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-531-020	Thick3:SizeCorrection:BW	PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-531-023	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-531-024	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-531-027	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-531-028	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-531-031	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-531-032	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-531-035	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-531-036	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-531-039	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-531-040	Thick3:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-532-003	Thick3:SizeCorrection:FC	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-532-004	Thick3:SizeCorrection:FC	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-532-007	Thick3:SizeCorrection:FC	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-532-008	Thick3:SizeCorrection:FC	PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-532-011	Thick3:SizeCorrection:FC	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-532-012	Thick3:SizeCorrection:FC	PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-532-015	Thick3:SizeCorrection:FC	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-532-016	Thick3:SizeCorrection:FC	PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-532-019	Thick3:SizeCorrection:FC	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-532-020	Thick3:SizeCorrection:FC	PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-532-023	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-532-024	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-532-027	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-532-028	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-532-031	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-532-032	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-532-035	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-532-036	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-532-039	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-532-040	Thick3:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-533-003	Thick3:Size-Env.Correct:BW	PaperTransfer:1Side:S1	ENG	[1 to 110 / 85 / 1]
2-533-004	Thick3:Size-Env.Correct:BW	PaperTransfer:2Side:S1	ENG	[1 to 110 / 87 / 1]
2-533-007	Thick3:Size-Env.Correct:BW	PaperTransfer:1Side:S2	ENG	[1 to 110 / 86 / 1]
2-533-008	Thick3:Size-Env.Correct:BW	PaperTransfer:2Side:S2	ENG	[1 to 110 / 88 / 1]
2-533-011	Thick3:Size-Env.Correct:BW	PaperTransfer:1Side:S3	ENG	[1 to 110 / 86 / 1]
2-533-012	Thick3:Size-Env.Correct:BW	PaperTransfer:2Side:S3	ENG	[1 to 110 / 89 / 1]
2-533-015	Thick3:Size-Env.Correct:BW	PaperTransfer:1Side:S4	ENG	[1 to 110 / 86 / 1]
2-533-016	Thick3:Size-Env.Correct:BW	PaperTransfer:2Side:S4	ENG	[1 to 110 / 90 / 1]
2-533-019	Thick3:Size-Env.Correct:BW	PaperTransfer:1Side:S5	ENG	[1 to 110 / 86 / 1]
2-533-020	Thick3:Size-Env.Correct:BW	PaperTransfer:2Side:S5	ENG	[1 to 110 / 91 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-533-023	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 85 / 1]
2-533-024	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 87 / 1]
2-533-027	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 86 / 1]
2-533-028	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 88 / 1]
2-533-031	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 86 / 1]
2-533-032	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 89 / 1]
2-533-035	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 86 / 1]
2-533-036	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 90 / 1]
2-533-039	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 86 / 1]
2-533-040	Thick3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 91 / 1]
2-534-003	Thick3:Size-Env.Correct:FC	PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-534-004	Thick3:Size-Env.Correct:FC	PaperTransfer:2Side:S1	ENG	[1 to 110 / 92 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-534-007	Thick3:Size-Env.Correct:FC	PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-534-008	Thick3:Size-Env.Correct:FC	PaperTransfer:2Side:S2	ENG	[1 to 110 / 93 / 1]
2-534-011	Thick3:Size-Env.Correct:FC	PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-534-012	Thick3:Size-Env.Correct:FC	PaperTransfer:2Side:S3	ENG	[1 to 110 / 94 / 1]
2-534-015	Thick3:Size-Env.Correct:FC	PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-534-016	Thick3:Size-Env.Correct:FC	PaperTransfer:2Side:S4	ENG	[1 to 110 / 95 / 1]
2-534-019	Thick3:Size-Env.Correct:FC	PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-534-020	Thick3:Size-Env.Correct:FC	PaperTransfer:2Side:S5	ENG	[1 to 110 / 96 / 1]
2-534-023	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-534-024	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 92 / 1]
2-534-027	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-534-028	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 93 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-534-031	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-534-032	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 94 / 1]
2-534-035	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-534-036	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 95 / 1]
2-534-039	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-534-040	Thick3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 96 / 1]
2-535-003	Thick3:LeadingEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-535-004	Thick3:LeadingEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-536-003	Thick3:SwitchTimingLeadEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-536-004	Thick3:SwitchTimingLeadEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-537-003	Thick3:TrailEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-537-004	Thick3:TrailEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-538-003	Thick3:SwitchTimingTrailEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-538-004	Thick3:SwitchTimingTrailEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-543-003	OHP:Bias:BW	PaperTransfer	ENG	[0 to 250 / 11 / 1-uA]
2-547-003	OHP:Bias:FC	PaperTransfer	ENG	[0 to 250 / 19 / 1-uA]
2-551-003	OHP:SizeCorrection:BW	PaperTransfer:S1	ENG	[100 to 995 / 100 / 1%]
2-551-007	OHP:SizeCorrection:BW	PaperTransfer:S2	ENG	[100 to 995 / 100 / 1%]
2-551-011	OHP:SizeCorrection:BW	PaperTransfer:S3	ENG	[100 to 995 / 100 / 1%]
2-551-015	OHP:SizeCorrection:BW	PaperTransfer:S4	ENG	[100 to 995 / 100 / 1%]
2-551-019	OHP:SizeCorrection:BW	PaperTransfer:S5	ENG	[100 to 995 / 100 / 1%]
2-551-023	OHP:SizeCorrection:BW	Wide Roller:PaperTransfer:S1	ENG	[100 to 995 / 100 / 1%]
2-551-027	OHP:SizeCorrection:BW	Wide Roller:PaperTransfer:S2	ENG	[100 to 995 / 100 / 1%]
2-551-031	OHP:SizeCorrection:BW	Wide Roller:PaperTransfer:S3	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-551-035	OHP:SizeCorrection:BW	Wide Roller:PaperTransfer:S4	ENG	[100 to 995 / 100 / 1%]
2-551-039	OHP:SizeCorrection:BW	Wide Roller:PaperTransfer:S5	ENG	[100 to 995 / 100 / 1%]
2-552-003	OHP:SizeCorrection:FC	PaperTransfer:S1	ENG	[100 to 995 / 100 / 1%]
2-552-007	OHP:SizeCorrection:FC	PaperTransfer:S2	ENG	[100 to 995 / 181 / 1%]
2-552-011	OHP:SizeCorrection:FC	PaperTransfer:S3	ENG	[100 to 995 / 229 / 1%]
2-552-015	OHP:SizeCorrection:FC	PaperTransfer:S4	ENG	[100 to 995 / 286 / 1%]
2-552-019	OHP:SizeCorrection:FC	PaperTransfer:S5	ENG	[100 to 995 / 381 / 1%]
2-552-023	OHP:SizeCorrection:FC	Wide Roller:PaperTransfer:S1	ENG	[100 to 995 / 100 / 1%]
2-552-027	OHP:SizeCorrection:FC	Wide Roller:PaperTransfer:S2	ENG	[100 to 995 / 181 / 1%]
2-552-031	OHP:SizeCorrection:FC	Wide Roller:PaperTransfer:S3	ENG	[100 to 995 / 229 / 1%]
2-552-035	OHP:SizeCorrection:FC	Wide Roller:PaperTransfer:S4	ENG	[100 to 995 / 286 / 1%]
2-552-039	OHP:SizeCorrection:FC	Wide Roller:PaperTransfer:S5	ENG	[100 to 995 / 381 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-553-003	OHP:Size-Env.Correct:BW	PaperTransfer:S1	ENG	[1 to 110 / 70 / 1]
2-553-007	OHP:Size-Env.Correct:BW	PaperTransfer:S2	ENG	[1 to 110 / 71 / 1]
2-553-011	OHP:Size-Env.Correct:BW	PaperTransfer:S3	ENG	[1 to 110 / 72 / 1]
2-553-015	OHP:Size-Env.Correct:BW	PaperTransfer:S4	ENG	[1 to 110 / 72 / 1]
2-553-019	OHP:Size-Env.Correct:BW	PaperTransfer:S5	ENG	[1 to 110 / 72 / 1]
2-553-023	OHP:Size-Env.Correct:BW	Wide Roller:PaperTransfer:S1	ENG	[1 to 110 / 70 / 1]
2-553-027	OHP:Size-Env.Correct:BW	Wide Roller:PaperTransfer:S2	ENG	[1 to 110 / 71 / 1]
2-553-031	OHP:Size-Env.Correct:BW	Wide Roller:PaperTransfer:S3	ENG	[1 to 110 / 72 / 1]
2-553-035	OHP:Size-Env.Correct:BW	Wide Roller:PaperTransfer:S4	ENG	[1 to 110 / 72 / 1]
2-553-039	OHP:Size-Env.Correct:BW	Wide Roller:PaperTransfer:S5	ENG	[1 to 110 / 72 / 1]
2-554-003	OHP:Size-Env.Correct:FC	PaperTransfer:S1	ENG	[1 to 110 / 77 / 1]
2-554-007	OHP:Size-Env.Correct:FC	PaperTransfer:S2	ENG	[1 to 110 / 78 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-554-011	OHP:Size-Env.Correct:FC	PaperTransfer:S3	ENG	[1 to 110 / 79 / 1]
2-554-015	OHP:Size-Env.Correct:FC	PaperTransfer:S4	ENG	[1 to 110 / 79 / 1]
2-554-019	OHP:Size-Env.Correct:FC	PaperTransfer:S5	ENG	[1 to 110 / 79 / 1]
2-554-023	OHP:Size-Env.Correct:FC	Wide Roller:PaperTransfer:S1	ENG	[1 to 110 / 77 / 1]
2-554-027	OHP:Size-Env.Correct:FC	Wide Roller:PaperTransfer:S2	ENG	[1 to 110 / 78 / 1]
2-554-031	OHP:Size-Env.Correct:FC	Wide Roller:PaperTransfer:S3	ENG	[1 to 110 / 79 / 1]
2-554-035	OHP:Size-Env.Correct:FC	Wide Roller:PaperTransfer:S4	ENG	[1 to 110 / 79 / 1]
2-554-039	OHP:Size-Env.Correct:FC	Wide Roller:PaperTransfer:S5	ENG	[1 to 110 / 79 / 1]
2-555-003	OHP:LeadingEdgeCorrection	Paper Transfer	ENG	[0 to 995 / 100 / 5%]
2-556-003	OHP:SwitchTimingLeadEdge	Paper Transfer	ENG	[0 to 50 / 0 / 2mm]
2-557-003	OHP:TrailEdgeCorrection	Paper Transfer	ENG	[0 to 995 / 100 / 5%]
2-558-003	OHP:SwitchTimingTrailEdge	Paper Transfer	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-563-001	Special1:Bias:BW	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-563-002	Special1:Bias:BW	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-563-003	Special1:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-563-004	Special1:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 11 / 1-uA]
2-567-001	Special1:Bias:FC	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-567-002	Special1:Bias:FC	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-567-003	Special1:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-567-004	Special1:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 14 / 1-uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-571-001	Special1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-571-002	Special1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-571-003	Special1:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-571-004	Special1:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-571-005	Special1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-571-006	Special1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-571-007	Special1:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-571-008	Special1:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-571-009	Special1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-571-010	Special1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-571-011	Special1:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-571-012	Special1:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-571-013	Special1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-571-014	Special1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-571-015	Special1:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-571-016	Special1:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-571-017	Special1:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-571-018	Special1:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-571-019	Special1:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-571-020	Special1:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-571-021	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-571-022	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-571-023	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-571-024	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-571-025	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-571-026	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-571-027	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-571-028	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-571-029	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-571-030	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-571-031	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-571-032	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-571-033	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-571-034	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-571-035	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-571-036	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-571-037	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-571-038	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-571-039	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-571-040	Special1:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-572-001	Special1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-572-002	Special1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-572-003	Special1:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-572-004	Special1:SizeCorrection:FC	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-572-005	Special1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-572-006	Special1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-572-007	Special1:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-572-008	Special1:SizeCorrection:FC	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-572-009	Special1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-572-010	Special1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-572-011	Special1:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-572-012	Special1:SizeCorrection:FC	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-572-013	Special1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-572-014	Special1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-572-015	Special1:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-572-016	Special1:SizeCorrection:FC	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-572-017	Special1:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-572-018	Special1:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-572-019	Special1:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-572-020	Special1:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-572-021	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-572-022	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-572-023	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-572-024	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-572-025	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-572-026	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-572-027	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-572-028	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-572-029	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-572-030	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-572-031	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-572-032	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-572-033	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-572-034	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-572-035	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-572-036	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-572-037	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-572-038	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-572-039	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-572-040	Special1:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-573-001	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-573-002	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-573-003	Special1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-573-004	Special1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-573-005	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-573-006	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-573-007	Special1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-573-008	Special1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-573-009	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-573-010	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-573-011	Special1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-573-012	Special1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-573-013	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-573-014	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-573-015	Special1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-573-016	Special1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-573-017	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-573-018	Special1:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-573-019	Special1:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-573-020	Special1:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-573-021	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-573-022	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-573-023	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-573-024	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-573-025	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-573-026	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-573-027	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-573-028	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-573-029	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-573-030	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-573-031	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-573-032	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-573-033	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-573-034	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-573-035	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-573-036	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-573-037	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-573-038	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-573-039	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-573-040	Special1:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-574-001	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-574-002	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-574-003	Special1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-574-004	Special1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-574-005	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-574-006	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-574-007	Special1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-574-008	Special1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-574-009	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-574-010	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-574-011	Special1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-574-012	Special1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-574-013	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-574-014	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-574-015	Special1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-574-016	Special1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-574-017	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-574-018	Special1:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-574-019	Special1:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-574-020	Special1:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-574-021	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-574-022	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-574-023	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-574-024	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-574-025	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-574-026	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-574-027	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-574-028	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-574-029	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-574-030	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-574-031	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-574-032	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-574-033	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-574-034	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-574-035	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-574-036	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-574-037	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-574-038	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-574-039	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-574-040	Special1:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-575-001	Special1:LeadingEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-575-002	Special1:LeadingEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-575-003	Special1:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-575-004	Special1:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-576-001	Special1:SwitchTimingLeadEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-576-002	Special1:SwitchTimingLeadEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-576-003	Special1:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-576-004	Special1:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-577-001	Special1:TrailEdgeCorrection	PaperTransfer:Standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-577-002	Special1:TrailEdgeCorrection	PaperTransfer:Standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-577-003	Special1:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-577-004	Special1:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-578-001	Special1:SwitchTimingTrailEdge	PaperTransfer:Standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-578-002	Special1:SwitchTimingTrailEdge	PaperTransfer:Standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-578-003	Special1:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-578-004	Special1:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-583-001	Special2:Bias:BW	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-583-002	Special2:Bias:BW	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-583-003	Special2:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-583-004	Special2:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 11 / 1-uA]
2-587-001	Special2:Bias:FC	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-587-002	Special2:Bias:FC	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-587-003	Special2:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-587-004	Special2:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 14 / 1-uA]
2-591-001	Special2:SizeCorrection:BW	PaperTransfer:standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-591-002	Special2:SizeCorrection:BW	PaperTransfer:standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-591-003	Special2:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-591-004	Special2:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-591-005	Special2:SizeCorrection:BW	PaperTransfer:standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-591-006	Special2:SizeCorrection:BW	PaperTransfer:standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-591-007	Special2:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-591-008	Special2:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-591-009	Special2:SizeCorrection:BW	PaperTransfer:standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-591-010	Special2:SizeCorrection:BW	PaperTransfer:standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-591-011	Special2:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-591-012	Special2:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-591-013	Special2:SizeCorrection:BW	PaperTransfer:standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-591-014	Special2:SizeCorrection:BW	PaperTransfer:standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-591-015	Special2:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-591-016	Special2:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-591-017	Special2:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-591-018	Special2:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-591-019	Special2:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-591-020	Special2:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-591-021	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-591-022	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-591-023	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-591-024	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-591-025	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-591-026	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-591-027	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-591-028	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-591-029	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-591-030	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-591-031	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-591-032	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-591-033	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-591-034	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-591-035	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-591-036	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-591-037	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-591-038	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-591-039	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-591-040	Special2:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-592-001	Special2:SizeCorrection:FC	PaperTransfer:standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-592-002	Special2:SizeCorrection:FC	PaperTransfer:standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-592-003	Special2:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-592-004	Special2:SizeCorrection:FC	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-592-005	Special2:SizeCorrection:FC	PaperTransfer:standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-592-006	Special2:SizeCorrection:FC	PaperTransfer:standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-592-007	Special2:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-592-008	Special2:SizeCorrection:FC	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-592-009	Special2:SizeCorrection:FC	PaperTransfer:standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-592-010	Special2:SizeCorrection:FC	PaperTransfer:standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-592-011	Special2:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-592-012	Special2:SizeCorrection:FC	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-592-013	Special2:SizeCorrection:FC	PaperTransfer:standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-592-014	Special2:SizeCorrection:FC	PaperTransfer:standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-592-015	Special2:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-592-016	Special2:SizeCorrection:FC	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-592-017	Special2:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-592-018	Special2:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-592-019	Special2:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-592-020	Special2:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-592-021	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-592-022	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-592-023	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-592-024	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-592-025	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-592-026	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-592-027	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-592-028	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-592-029	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-592-030	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-592-031	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-592-032	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-592-033	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-592-034	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-592-035	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-592-036	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-592-037	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-592-038	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-592-039	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-592-040	Special2:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-593-001	Special2:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-593-002	Special2:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-593-003	Special2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-593-004	Special2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-593-005	Special2:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-593-006	Special2:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-593-007	Special2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-593-008	Special2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-593-009	Special2:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-593-010	Special2:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-593-011	Special2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-593-012	Special2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-593-013	Special2:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-593-014	Special2:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-593-015	Special2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-593-016	Special2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-593-017	Special2:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-593-018	Special2:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-593-019	Special2:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-593-020	Special2:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-593-021	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-593-022	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-593-023	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-593-024	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-593-025	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-593-026	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-593-027	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-593-028	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-593-029	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-593-030	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-593-031	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-593-032	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-593-033	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-593-034	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-593-035	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-593-036	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-593-037	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-593-038	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-593-039	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-593-040	Special2:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-594-001	Special2:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-594-002	Special2:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-594-003	Special2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-594-004	Special2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-594-005	Special2:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-594-006	Special2:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-594-007	Special2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-594-008	Special2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-594-009	Special2:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-594-010	Special2:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-594-011	Special2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-594-012	Special2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-594-013	Special2:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-594-014	Special2:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-594-015	Special2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-594-016	Special2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-594-017	Special2:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-594-018	Special2:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-594-019	Special2:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-594-020	Special2:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-594-021	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-594-022	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-594-023	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-594-024	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-594-025	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-594-026	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-594-027	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-594-028	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-594-029	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-594-030	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-594-031	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-594-032	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-594-033	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-594-034	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-594-035	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-594-036	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-594-037	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-594-038	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-594-039	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-594-040	Special2:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-595-001	Special2:LeadingEdgeCorrection	PaperTransfer:standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-595-002	Special2:LeadingEdgeCorrection	PaperTransfer:standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-595-003	Special2:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-595-004	Special2:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-596-001	Special2:SwitchTimingLeadEdge	PaperTransfer:standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-596-002	Special2:SwitchTimingLeadEdge	PaperTransfer:standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-596-003	Special2:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-596-004	Special2:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-597-001	Special2:TrailEdgeCorrection	PaperTransfer:standard:1Side	ENG	[0 to 995 / 100 / 5%]
2-597-002	Special2:TrailEdgeCorrection	PaperTransfer:standard:2Side	ENG	[0 to 995 / 100 / 5%]
2-597-003	Special2:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-597-004	Special2:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-598-001	Special2:SwitchTimingTrailEdge	PaperTransfer:standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-598-002	Special2:SwitchTimingTrailEdge	PaperTransfer:standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-598-003	Special2:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-598-004	Special2:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-603-001	Special3:Bias:BW	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-603-002	Special3:Bias:BW	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 28 *SP C842DN: 38
2-603-003	Special3:Bias:BW	PaperTransfer:low:1side	ENG	[0 to 250 / 11 / 1-uA]
2-603-004	Special3:Bias:BW	PaperTransfer:low:2side	ENG	[0 to 250 / 11 / 1-uA]
2-607-001	Special3:Bias:FC	PaperTransfer:standard:1side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-607-002	Special3:Bias:FC	PaperTransfer:standard:2side	ENG	[0 to 250 / * / 1-uA] *SP C840DN: 36 *SP C842DN: 50
2-607-003	Special3:Bias:FC	PaperTransfer:low:1side	ENG	[0 to 250 / 14 / 1-uA]
2-607-004	Special3:Bias:FC	PaperTransfer:low:2side	ENG	[0 to 250 / 14 / 1-uA]
2-611-001	Special3:SizeCorrection:BW	PaperTransfer:standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-611-002	Special3:SizeCorrection:BW	PaperTransfer:standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-611-003	Special3:SizeCorrection:BW	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-611-004	Special3:SizeCorrection:BW	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-611-005	Special3:SizeCorrection:BW	PaperTransfer:standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-611-006	Special3:SizeCorrection:BW	PaperTransfer:standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-611-007	Special3:SizeCorrection:BW	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-611-008	Special3:SizeCorrection:BW	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-611-009	Special3:SizeCorrection:BW	PaperTransfer:standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-611-010	Special3:SizeCorrection:BW	PaperTransfer:standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-611-011	Special3:SizeCorrection:BW	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-611-012	Special3:SizeCorrection:BW	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]
2-611-013	Special3:SizeCorrection:BW	PaperTransfer:standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-611-014	Special3:SizeCorrection:BW	PaperTransfer:standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-611-015	Special3:SizeCorrection:BW	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-611-016	Special3:SizeCorrection:BW	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-611-017	Special3:SizeCorrection:BW	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-611-018	Special3:SizeCorrection:BW	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-611-019	Special3:SizeCorrection:BW	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-611-020	Special3:SizeCorrection:BW	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-611-021	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-611-022	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-611-023	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-611-024	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-611-025	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 100 / 1%]
2-611-026	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 105 / 1%]
2-611-027	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-611-028	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 105 / 1%]
2-611-029	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 105 / 1%]
2-611-030	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-611-031	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 105 / 1%]
2-611-032	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 118 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-611-033	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 118 / 1%]
2-611-034	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 131 / 1%]
2-611-035	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 118 / 1%]
2-611-036	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 131 / 1%]
2-611-037	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 132 / 1%]
2-611-038	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 184 / 1%]
2-611-039	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 132 / 1%]
2-611-040	Special3:SizeCorrection:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 184 / 1%]
2-612-001	Special3:SizeCorrection:FC	PaperTransfer:standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-612-002	Special3:SizeCorrection:FC	PaperTransfer:standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-612-003	Special3:SizeCorrection:FC	PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-612-004	Special3:SizeCorrection:FC	PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-612-005	Special3:SizeCorrection:FC	PaperTransfer:standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-612-006	Special3:SizeCorrection:FC	PaperTransfer:standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-612-007	Special3:SizeCorrection:FC	PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-612-008	Special3:SizeCorrection:FC	PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]
2-612-009	Special3:SizeCorrection:FC	PaperTransfer:standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-612-010	Special3:SizeCorrection:FC	PaperTransfer:standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-612-011	Special3:SizeCorrection:FC	PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-612-012	Special3:SizeCorrection:FC	PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-612-013	Special3:SizeCorrection:FC	PaperTransfer:standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-612-014	Special3:SizeCorrection:FC	PaperTransfer:standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-612-015	Special3:SizeCorrection:FC	PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-612-016	Special3:SizeCorrection:FC	PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-612-017	Special3:SizeCorrection:FC	PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-612-018	Special3:SizeCorrection:FC	PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-612-019	Special3:SizeCorrection:FC	PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-612-020	Special3:SizeCorrection:FC	PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]
2-612-021	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-612-022	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[100 to 995 / 100 / 1%]
2-612-023	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-612-024	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-612-025	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[100 to 995 / 120 / 1%]
2-612-026	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[100 to 995 / 140 / 1%]
2-612-027	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[100 to 995 / 120 / 1%]
2-612-028	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[100 to 995 / 140 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-612-029	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[100 to 995 / 118 / 1%]
2-612-030	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[100 to 995 / 180 / 1%]
2-612-031	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[100 to 995 / 118 / 1%]
2-612-032	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[100 to 995 / 180 / 1%]
2-612-033	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[100 to 995 / 130 / 1%]
2-612-034	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[100 to 995 / 200 / 1%]
2-612-035	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[100 to 995 / 130 / 1%]
2-612-036	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[100 to 995 / 200 / 1%]
2-612-037	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[100 to 995 / 140 / 1%]
2-612-038	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[100 to 995 / 240 / 1%]
2-612-039	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[100 to 995 / 140 / 1%]
2-612-040	Special3:SizeCorrection:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[100 to 995 / 240 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-613-001	Special3:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-613-002	Special3:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-613-003	Special3:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-613-004	Special3:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]
2-613-005	Special3:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-613-006	Special3:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-613-007	Special3:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-613-008	Special3:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-613-009	Special3:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-613-010	Special3:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-613-011	Special3:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-613-012	Special3:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-613-013	Special3:Size-Env.Correct:BW	PaperTransfer:standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-613-014	Special3:Size-Env.Correct:BW	PaperTransfer:standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-613-015	Special3:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-613-016	Special3:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]
2-613-017	Special3:Size-Env.Correct:BW	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-613-018	Special3:Size-Env.Correct:BW	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-613-019	Special3:Size-Env.Correct:BW	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-613-020	Special3:Size-Env.Correct:BW	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-613-021	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 10 / 1]
2-613-022	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 15 / 1]
2-613-023	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 10 / 1]
2-613-024	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-613-025	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 11 / 1]
2-613-026	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 16 / 1]
2-613-027	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 11 / 1]
2-613-028	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 16 / 1]
2-613-029	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 12 / 1]
2-613-030	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 17 / 1]
2-613-031	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 12 / 1]
2-613-032	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 17 / 1]
2-613-033	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 13 / 1]
2-613-034	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 18 / 1]
2-613-035	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 13 / 1]
2-613-036	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 18 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-613-037	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 14 / 1]
2-613-038	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 19 / 1]
2-613-039	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 14 / 1]
2-613-040	Special3:Size-Env.Correct:BW	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 19 / 1]
2-614-001	Special3:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-614-002	Special3:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-614-003	Special3:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-614-004	Special3:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-614-005	Special3:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-614-006	Special3:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-614-007	Special3:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-614-008	Special3:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-614-009	Special3:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-614-010	Special3:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-614-011	Special3:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-614-012	Special3:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]
2-614-013	Special3:Size-Env.Correct:FC	PaperTransfer:standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-614-014	Special3:Size-Env.Correct:FC	PaperTransfer:standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-614-015	Special3:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-614-016	Special3:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-614-017	Special3:Size-Env.Correct:FC	PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-614-018	Special3:Size-Env.Correct:FC	PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-614-019	Special3:Size-Env.Correct:FC	PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-614-020	Special3:Size-Env.Correct:FC	PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-614-021	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S1	ENG	[1 to 110 / 20 / 1]
2-614-022	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S1	ENG	[1 to 110 / 25 / 1]
2-614-023	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S1	ENG	[1 to 110 / 20 / 1]
2-614-024	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S1	ENG	[1 to 110 / 25 / 1]
2-614-025	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S2	ENG	[1 to 110 / 21 / 1]
2-614-026	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S2	ENG	[1 to 110 / 26 / 1]
2-614-027	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S2	ENG	[1 to 110 / 21 / 1]
2-614-028	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S2	ENG	[1 to 110 / 26 / 1]
2-614-029	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S3	ENG	[1 to 110 / 22 / 1]
2-614-030	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S3	ENG	[1 to 110 / 27 / 1]
2-614-031	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S3	ENG	[1 to 110 / 22 / 1]
2-614-032	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S3	ENG	[1 to 110 / 27 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-614-033	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S4	ENG	[1 to 110 / 23 / 1]
2-614-034	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S4	ENG	[1 to 110 / 28 / 1]
2-614-035	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S4	ENG	[1 to 110 / 23 / 1]
2-614-036	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S4	ENG	[1 to 110 / 28 / 1]
2-614-037	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:1Sid:S5	ENG	[1 to 110 / 24 / 1]
2-614-038	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Standard:2Sid:S5	ENG	[1 to 110 / 29 / 1]
2-614-039	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:1Side:S5	ENG	[1 to 110 / 24 / 1]
2-614-040	Special3:Size-Env.Correct:FC	Wide Roller:PaperTransfer:Low:2Side:S5	ENG	[1 to 110 / 29 / 1]
2-615-001	Special3:LeadingEdgeCorrection	Paper Transfer:standard:1side	ENG	[0 to 995 / 100 / 5%]
2-615-002	Special3:LeadingEdgeCorrection	Paper Transfer:standard:2side	ENG	[0 to 995 / 100 / 5%]
2-615-003	Special3:LeadingEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-615-004	Special3:LeadingEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-616-001	Special3:SwitchTimingLeadEdge	Paper Transfer:standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-616-002	Special3:SwitchTimingLeadEdge	Paper Transfer:standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-616-003	Special3:SwitchTimingLeadEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-616-004	Special3:SwitchTimingLeadEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]
2-617-001	Special3:TrailEdgeCorrection	Paper Transfer:standard:1side	ENG	[0 to 995 / 100 / 5%]
2-617-002	Special3:TrailEdgeCorrection	Paper Transfer:standard:2side	ENG	[0 to 995 / 100 / 5%]
2-617-003	Special3:TrailEdgeCorrection	Paper Transfer:Low:1side	ENG	[0 to 995 / 100 / 5%]
2-617-004	Special3:TrailEdgeCorrection	Paper Transfer:Low:2side	ENG	[0 to 995 / 100 / 5%]
2-618-001	Special3:SwitchTimingTrailEdge	Paper Transfer:standard:1side	ENG	[0 to 50 / 0 / 2mm]
2-618-002	Special3:SwitchTimingTrailEdge	Paper Transfer:standard:2side	ENG	[0 to 50 / 0 / 2mm]
2-618-003	Special3:SwitchTimingTrailEdge	Paper Transfer:Low:1side	ENG	[0 to 50 / 0 / 2mm]
2-618-004	Special3:SwitchTimingTrailEdge	Paper Transfer:Low:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-623-003	Special1 Thick:Bias:BW	PaperTransfer:1side	ENG	[0 to 250 / 11 / 1-uA]
2-623-004	Special1 Thick:Bias:BW	PaperTransfer:2side	ENG	[0 to 250 / 15 / 1-uA]
2-627-003	Special1 Thick:Bias:FC	PaperTransfer:1side	ENG	[0 to 250 / 19 / 1-uA]
2-627-004	Special1 Thick:Bias:FC	PaperTransfer:2side	ENG	[0 to 250 / 21 / 1-uA]
2-631-003	Special1Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-631-004	Special1Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-631-007	Special1Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-631-008	Special1Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-631-011	Special1Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-631-012	Special1Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-631-015	Special1Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-631-016	Special1Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-631-019	Special1Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-631-020	Special1Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-631-023	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-631-024	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-631-027	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-631-028	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-631-031	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-631-032	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-631-035	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-631-036	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-631-039	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-631-040	Special1Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-632-003	Special1Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-632-004	Special1Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-632-007	Special1Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-632-008	Special1Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-632-011	Special1Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-632-012	Special1Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-632-015	Special1Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-632-016	Special1Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-632-019	Special1Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-632-020	Special1Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-632-023	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-632-024	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-632-027	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-632-028	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-632-031	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-632-032	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-632-035	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-632-036	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-632-039	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-632-040	Special1Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-633-003	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S1	ENG	[1 to 110 / 85 / 1]
2-633-004	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S1	ENG	[1 to 110 / 87 / 1]
2-633-007	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S2	ENG	[1 to 110 / 86 / 1]
2-633-008	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S2	ENG	[1 to 110 / 88 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-633-011	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S3	ENG	[1 to 110 / 86 / 1]
2-633-012	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S3	ENG	[1 to 110 / 89 / 1]
2-633-015	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S4	ENG	[1 to 110 / 86 / 1]
2-633-016	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S4	ENG	[1 to 110 / 90 / 1]
2-633-019	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S5	ENG	[1 to 110 / 86 / 1]
2-633-020	Sp1Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S5	ENG	[1 to 110 / 91 / 1]
2-633-023	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 85 / 1]
2-633-024	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 87 / 1]
2-633-027	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 86 / 1]
2-633-028	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 88 / 1]
2-633-031	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 86 / 1]
2-633-032	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 89 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-633-035	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 86 / 1]
2-633-036	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 90 / 1]
2-633-039	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 86 / 1]
2-633-040	Sp1Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 91 / 1]
2-634-003	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-634-004	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S1	ENG	[1 to 110 / 92 / 1]
2-634-007	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-634-008	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S2	ENG	[1 to 110 / 93 / 1]
2-634-011	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-634-012	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S3	ENG	[1 to 110 / 94 / 1]
2-634-015	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-634-016	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S4	ENG	[1 to 110 / 95 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-634-019	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-634-020	Sp1Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S5	ENG	[1 to 110 / 96 / 1]
2-634-023	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-634-024	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 92 / 1]
2-634-027	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-634-028	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 93 / 1]
2-634-031	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-634-032	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 94 / 1]
2-634-035	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-634-036	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 95 / 1]
2-634-039	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-634-040	Sp1Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 96 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-635-003	Sp1Thick:LeadingEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-635-004	Sp1Thick:LeadingEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-636-003	Sp1Thick:SwitchTimingLeadEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-636-004	Sp1Thick:SwitchTimingLeadEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-637-003	Sp1Thick:TrailEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-637-004	Sp1Thick:TrailEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-638-003	Sp1Thick:SwitchTimingTrailEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-638-004	Sp1Thick:SwitchTimingTrailEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-643-003	Special2 Thick:Bias:BW	PaperTransfer:1side	ENG	[0 to 250 / 11 / 1-uA]
2-643-004	Special2 Thick:Bias:BW	PaperTransfer:2side	ENG	[0 to 250 / 15 / 1-uA]
2-647-003	Special2 Thick:Bias:FC	PaperTransfer:1side	ENG	[0 to 250 / 19 / 1-uA]
2-647-004	Special2 Thick:Bias:FC	PaperTransfer:2side	ENG	[0 to 250 / 21 / 1-uA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-651-003	Special2Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-651-004	Special2Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-651-007	Special2Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-651-008	Special2Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-651-011	Special2Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-651-012	Special2Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-651-015	Special2Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-651-016	Special2Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-651-019	Special2Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-651-020	Special2Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-651-023	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-651-024	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-651-027	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-651-028	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-651-031	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-651-032	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-651-035	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-651-036	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-651-039	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-651-040	Special2Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-652-003	Special2Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-652-004	Special2Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-652-007	Special2Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-652-008	Special2Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-652-011	Special2Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-652-012	Special2Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-652-015	Special2Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-652-016	Special2Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-652-019	Special2Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-652-020	Special2Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-652-023	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-652-024	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-652-027	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-652-028	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-652-031	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-652-032	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-652-035	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-652-036	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-652-039	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-652-040	Special2Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-653-003	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-653-004	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-653-007	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-653-008	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-653-011	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S3	ENG	[1 to 110 / 72 / 1]
2-653-012	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-653-015	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S4	ENG	[1 to 110 / 72 / 1]
2-653-016	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-653-019	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S5	ENG	[1 to 110 / 72 / 1]
2-653-020	Sp2Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-653-023	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-653-024	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-653-027	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-653-028	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-653-031	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 72 / 1]
2-653-032	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-653-035	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 72 / 1]
2-653-036	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]
2-653-039	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 72 / 1]
2-653-040	Sp2Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-654-003	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-654-004	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-654-007	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-654-008	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-654-011	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-654-012	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-654-015	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-654-016	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-654-019	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-654-020	Sp2Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-654-023	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-654-024	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-654-027	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-654-028	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-654-031	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-654-032	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-654-035	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-654-036	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-654-039	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-654-040	Sp2Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-655-003	Sp2Thick:LeadingEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-655-004	Sp2Thick:LeadingEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-656-003	Sp2Thick:SwitchTimingLeadEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-656-004	Sp2Thick:SwitchTimingLeadEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-657-003	Sp2Thick:TrailEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-657-004	Sp2Thick:TrailEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-658-003	Sp2Thick:SwitchTimingTrailEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-658-004	Sp2Thick:SwitchTimingTrailEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-663-003	Special3 Thick:Bias:BW	PaperTransfer:1side	ENG	[0 to 250 / 11 / 1-uA]
2-663-004	Special3 Thick:Bias:BW	PaperTransfer:2side	ENG	[0 to 250 / 15 / 1-uA]
2-667-003	Special3 Thick:Bias:FC	PaperTransfer:1side	ENG	[0 to 250 / 19 / 1-uA]
2-667-004	Special3 Thick:Bias:FC	PaperTransfer:2side	ENG	[0 to 250 / 21 / 1-uA]
2-671-003	Special3Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 5%]
2-671-004	Special3Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 5%]
2-671-007	Special3Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 5%]
2-671-008	Special3Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-671-011	Special3Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 5%]
2-671-012	Special3Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 5%]
2-671-015	Special3Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 5%]
2-671-016	Special3Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 5%]
2-671-019	Special3Thick:PaperSizeCorr:BW	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 5%]
2-671-020	Special3Thick:PaperSizeCorr:BW	PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 5%]
2-671-023	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 5%]
2-671-024	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 5%]
2-671-027	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 5%]
2-671-028	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 5%]
2-671-031	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 5%]
2-671-032	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-671-035	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 5%]
2-671-036	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 5%]
2-671-039	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 5%]
2-671-040	Special3Thick:PaperSizeCorr:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 5%]
2-672-003	Special3Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 5%]
2-672-004	Special3Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 5%]
2-672-007	Special3Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 5%]
2-672-008	Special3Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 5%]
2-672-011	Special3Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 5%]
2-672-012	Special3Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 5%]
2-672-015	Special3Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 5%]
2-672-016	Special3Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-672-019	Special3Thick:PaperSizeCorr:FC	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 5%]
2-672-020	Special3Thick:PaperSizeCorr:FC	PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 5%]
2-672-023	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 5%]
2-672-024	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 5%]
2-672-027	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 5%]
2-672-028	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 5%]
2-672-031	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 5%]
2-672-032	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 5%]
2-672-035	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 5%]
2-672-036	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 5%]
2-672-039	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 5%]
2-672-040	Special3Thick:PaperSizeCorr:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-673-003	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-673-004	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-673-007	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-673-008	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-673-011	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S3	ENG	[1 to 110 / 72 / 1]
2-673-012	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-673-015	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S4	ENG	[1 to 110 / 72 / 1]
2-673-016	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]
2-673-019	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:1Side:S5	ENG	[1 to 110 / 72 / 1]
2-673-020	Sp3Thick:PaperSizeEnvCorr:BW	PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-673-023	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-673-024	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-673-027	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-673-028	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-673-031	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 72 / 1]
2-673-032	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-673-035	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 72 / 1]
2-673-036	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]
2-673-039	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 72 / 1]
2-673-040	Sp3Thick:PaperSizeEnvCorr:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-674-003	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-674-004	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-674-007	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-674-008	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-674-011	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-674-012	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-674-015	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-674-016	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-674-019	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-674-020	Sp3Thick:PaperSizeEnvCorr:FC	PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-674-023	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-674-024	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-674-027	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-674-028	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-674-031	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-674-032	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-674-035	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-674-036	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-674-039	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-674-040	Sp3Thick:PaperSizeEnvCorr:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-675-003	Sp3Thick:LeadingEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-675-004	Sp3Thick:LeadingEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-676-003	Sp3Thick:SwitchTimingLeadEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-676-004	Sp3Thick:SwitchTimingLeadEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-677-003	Sp3Thick:TrailEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-677-004	Sp3Thick:TrailEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-678-003	Sp3Thick:SwitchTimingTrailEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-678-004	Sp3Thick:SwitchTimingTrailEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-690-001	ITB Contact Setting	Thick1	ENG	[0 to 1 / 0 / 1]
2-690-002	ITB Contact Setting	Thick2	ENG	[0 to 1 / 0 / 1]
2-690-003	ITB Contact Setting	Thick3	ENG	[0 to 1 / 0 / 1]
2-690-004	ITB Contact Setting	Thick4	ENG	[0 to 1 / 0 / 1]
2-690-014	ITB Contact Setting	Special1Thick1234	ENG	[0 to 1 / 0 / 1]
2-690-015	ITB Contact Setting	Special2Thick1234	ENG	[0 to 1 / 0 / 1]
2-690-016	ITB Contact Setting	Special3Thick1234	ENG	[0 to 1 / 0 / 1]
2-703-003	Thick4:Bias:BW	PaperTransfer:1side	ENG	[0 to 250 / 11 / 1-uA]
2-703-004	Thick4:Bias:BW	PaperTransfer:2side	ENG	[0 to 250 / 15 / 1-uA]
2-707-003	Thick4:Bias:FC	PaperTransfer:1side	ENG	[0 to 250 / 19 / 1-uA]
2-707-004	Thick4:Bias:FC	PaperTransfer:2side	ENG	[0 to 250 / 21 / 1-uA]
2-711-003	Thick4:SizeCorrection:BW	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-711-004	Thick4:SizeCorrection:BW	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-711-007	Thick4:SizeCorrection:BW	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-711-008	Thick4:SizeCorrection:BW	PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-711-011	Thick4:SizeCorrection:BW	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-711-012	Thick4:SizeCorrection:BW	PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-711-015	Thick4:SizeCorrection:BW	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-711-016	Thick4:SizeCorrection:BW	PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-711-019	Thick4:SizeCorrection:BW	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-711-020	Thick4:SizeCorrection:BW	PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-711-023	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-711-024	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-711-027	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-711-028	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 133 / 1%]
2-711-031	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-711-032	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 167 / 1%]
2-711-035	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-711-036	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 233 / 1%]
2-711-039	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-711-040	Thick4:SizeCorrection:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 267 / 1%]
2-712-003	Thick4:SizeCorrection:FC	PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-712-004	Thick4:SizeCorrection:FC	PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-712-007	Thick4:SizeCorrection:FC	PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-712-008	Thick4:SizeCorrection:FC	PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-712-011	Thick4:SizeCorrection:FC	PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-712-012	Thick4:SizeCorrection:FC	PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-712-015	Thick4:SizeCorrection:FC	PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]
2-712-016	Thick4:SizeCorrection:FC	PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-712-019	Thick4:SizeCorrection:FC	PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-712-020	Thick4:SizeCorrection:FC	PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-712-023	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[100 to 995 / 100 / 1%]
2-712-024	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[100 to 995 / 100 / 1%]
2-712-027	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[100 to 995 / 100 / 1%]
2-712-028	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[100 to 995 / 181 / 1%]
2-712-031	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[100 to 995 / 100 / 1%]
2-712-032	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[100 to 995 / 229 / 1%]
2-712-035	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[100 to 995 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-712-036	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[100 to 995 / 286 / 1%]
2-712-039	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[100 to 995 / 100 / 1%]
2-712-040	Thick4:SizeCorrection:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[100 to 995 / 381 / 1%]
2-713-003	Thick4:Size-Env.Correct:BW	PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-713-004	Thick4:Size-Env.Correct:BW	PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-713-007	Thick4:Size-Env.Correct:BW	PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-713-008	Thick4:Size-Env.Correct:BW	PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-713-011	Thick4:Size-Env.Correct:BW	PaperTransfer:1Side:S3	ENG	[1 to 110 / 72 / 1]
2-713-012	Thick4:Size-Env.Correct:BW	PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-713-015	Thick4:Size-Env.Correct:BW	PaperTransfer:1Side:S4	ENG	[1 to 110 / 72 / 1]
2-713-016	Thick4:Size-Env.Correct:BW	PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]
2-713-019	Thick4:Size-Env.Correct:BW	PaperTransfer:1Side:S5	ENG	[1 to 110 / 72 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-713-020	Thick4:Size-Env.Correct:BW	PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-713-023	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 70 / 1]
2-713-024	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 72 / 1]
2-713-027	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 71 / 1]
2-713-028	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 73 / 1]
2-713-031	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 72 / 1]
2-713-032	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 74 / 1]
2-713-035	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 72 / 1]
2-713-036	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 75 / 1]
2-713-039	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 72 / 1]
2-713-040	Thick4:Size-Env.Correct:BW	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 76 / 1]
2-714-003	Thick4:Size-Env.Correct:FC	PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-714-004	Thick4:Size-Env.Correct:FC	PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-714-007	Thick4:Size-Env.Correct:FC	PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]
2-714-008	Thick4:Size-Env.Correct:FC	PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-714-011	Thick4:Size-Env.Correct:FC	PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-714-012	Thick4:Size-Env.Correct:FC	PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-714-015	Thick4:Size-Env.Correct:FC	PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-714-016	Thick4:Size-Env.Correct:FC	PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-714-019	Thick4:Size-Env.Correct:FC	PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-714-020	Thick4:Size-Env.Correct:FC	PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-714-023	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S1	ENG	[1 to 110 / 77 / 1]
2-714-024	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S1	ENG	[1 to 110 / 80 / 1]
2-714-027	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S2	ENG	[1 to 110 / 78 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-714-028	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S2	ENG	[1 to 110 / 81 / 1]
2-714-031	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S3	ENG	[1 to 110 / 79 / 1]
2-714-032	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S3	ENG	[1 to 110 / 82 / 1]
2-714-035	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S4	ENG	[1 to 110 / 79 / 1]
2-714-036	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S4	ENG	[1 to 110 / 83 / 1]
2-714-039	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:1Side:S5	ENG	[1 to 110 / 79 / 1]
2-714-040	Thick4:Size-Env.Correct:FC	Wide Roller:PaperTransfer:2Side:S5	ENG	[1 to 110 / 84 / 1]
2-715-003	Thick4:LeadingEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]
2-715-004	Thick4:LeadingEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-716-003	Thick4:SwitchTimingLeadEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-716-004	Thick4:SwitchTimingLeadEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-717-003	Thick4:TrailEdgeCorrection	Paper Transfer:1side	ENG	[0 to 995 / 100 / 5%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-717-004	Thick4:TrailEdgeCorrection	Paper Transfer:2side	ENG	[0 to 995 / 100 / 5%]
2-718-003	Thick4:SwitchTimingTrailEdge	Paper Transfer:1side	ENG	[0 to 50 / 0 / 2mm]
2-718-004	Thick4:SwitchTimingTrailEdge	Paper Transfer:2side	ENG	[0 to 50 / 0 / 2mm]
2-901-001	OPC Drum Brake Time	All	ENG*	[50 to 240000 / 50 / 10msec]
2-902-001	OPC Drum Reverse Time	All: BW	ENG*	[0 to 200 / 40 / 10msec]
2-902-002	OPC Drum Reverse Time	All: FC	ENG*	[0 to 200 / 40 / 10msec]
2-903-003	Image Transfer Brake Time	All	ENG*	[50 to 240000 / 50 / 10msec]
2-905-003	Dev Rvs Time	K	ENG*	[0 to 200 / 70 / 10msec]
2-905-004	Dev Rvs Time	Cl	ENG*	[0 to 200 / 90 / 10msec]
2-905-005	Dev Rvs Threshold Counter	ALL	ENG*	[0 to 400000 / 4000 / 10mm]
2-905-006	Dev Rvs Counter	K	ENG*	[0 to 4294967295 / 0 / 1mm]
2-905-007	Dev Rvs Counter	Cl	ENG*	[0 to 4294967295 / 0 / 1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-907-001	ACS Setting (FC to Bk)	Continuous Bk Pages	ENG*	[0 to 10 / 0 / 1sheet]
2-930-001	Transfer:Bias Limiter	Bias	ENG*	[0 to 7000 / 6000 / 10-V]
2-960-001	Process Interval	Additional Time	ENG*	[0 to 10 / 0 / 1sec]
2-972-001	B/W Image Request Timing	T14:standard speed	ENG*	[0 to 4000 / * / 10msec] *SP C840DN: 60 *SP C842DN: 70
2-972-002	B/W Image Request Timing	T14:middle Speed	ENG*	[0 to 4000 / 0 / 10msec]
2-972-003	B/W Image Request Timing	T14:low speed	ENG*	[0 to 4000 / 0 / 10msec]
2-974-001	Trans. Contact Fgate Timing: Y	Fwait:Y std	ENG*	[0 to 3000 / 0 / 10msec]
2-974-002	Trans. Contact Fgate Timing: Y	Fwait:Y mid	ENG*	[0 to 3000 / 0 / 10msec]
2-974-003	Trans. Contact Fgate Timing: Y	Fwait:Y low	ENG*	[0 to 3000 / 0 / 10msec]
2-980-001	LubricantApplication Operation	Lubricant Application Setting	ENG*	[0 to 300 / 100 / 10page]
2-980-002	LubricantApplication Operation	Idle Time: BK	ENG*	[0 to 600 / 30 / 1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-980-003	LubricantApplication Operation	Idle Time: FC	ENG*	[0 to 600 / 30 / 1sec]
2-990-001	Print Duty Control	Duty Control State	ENG*	[0 to 1 / 0 / 1]
2-990-002	Print Duty Control	Exec Interval: Duty Control	ENG*	[60 to 3600 / 60 / 10sec]
2-990-004	Print Duty Control	Forced CPM Down Thresh: No Duty Control	ENG*	[0 to 5000 / 0 / 1page]
2-990-005	Print Duty Control	Down-time_BW: No Duty Control	ENG*	[0 to 20000 / 0 / 10msec]
2-990-006	Print Duty Control	Down-time_FC: No Duty Control	ENG*	[0 to 20000 / 0 / 10msec]
2-990-007	Print Duty Control	Forced CPM Down Thresh: Duty Control	ENG*	[0 to 5000 / 20 / 1page]
2-990-008	Print Duty Control	Down-time_BW: Duty Control	ENG*	[0 to 240000 / 25000 / 10msec]
2-990-009	Print Duty Control	Down-time_FC: Duty Control	ENG*	[0 to 240000 / 25000 / 10msec]
2-990-010	Print Duty Control	Ambient Temp Correction Coeff	ENG*	[-1 to 1 / 0 / 0.1]
2-990-011	Print Duty Control	Execution Temp. Threshold	ENG*	[20 to 70 / 390 / 0.1deg]
2-990-012	Print Duty Control	Cancellation Temp. Threshold	ENG*	[0.1 to 20 / 1 / 0.1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-990-013	Print Duty Control	ON/OFF Setting	ENG*	[0 to 1 / 1 / 1]
2-990-014	Print Duty Control	Duty Control_Down-time_BW	ENG*	[0 to 240000 / 0 / 10msec]
2-990-015	Print Duty Control	Duty Control_Down-time_FC	ENG*	[0 to 240000 / 0 / 10msec]

Engine SP3-XXX (Process)

SP3-011 to SP3-990

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-011-001	Manual ProCon :Exe	Normal ProCon	ENG	[0 to 1 / 0 / 1]
3-011-002	Manual ProCon :Exe	Density Adjustment	ENG	[0 to 1 / 0 / 1]
3-011-003	Manual ProCon :Exe	ACC RunTime ProCon	ENG	[0 to 1 / 0 / 1]
3-011-004	Manual ProCon :Exe	Full MUSIC	ENG	[0 to 1 / 0 / 1]
3-011-005	Manual ProCon :Exe	Normal MUSIC	ENG	[0 to 1 / 0 / 1]
3-012-001	ProCon OK?	History:Last(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-002	ProCon OK?	History:Last 2(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-003	ProCon OK?	History:Last 3(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-004	ProCon OK?	History:Last 4(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-005	ProCon OK?	History:Last 5(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-006	ProCon OK?	History:Last 6(Front)	ENG*	[0 to 99999999 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-012-007	ProCon OK?	History:Last 7(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-008	ProCon OK?	History:Last 8(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-009	ProCon OK?	History:Last 9(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-010	ProCon OK?	History:Last 10(Front)	ENG*	[0 to 99999999 / 0 / 1]
3-012-011	ProCon OK?	History:Last(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-012	ProCon OK?	History:Last 2(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-013	ProCon OK?	History:Last 3(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-014	ProCon OK?	History:Last 4(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-015	ProCon OK?	History:Last 5(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-016	ProCon OK?	History:Last 6(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-017	ProCon OK?	History:Last 7(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-018	ProCon OK?	History:Last 8(Center)	ENG*	[0 to 99999999 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-012-019	ProCon OK?	History:Last 9(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-020	ProCon OK?	History:Last 10(Center)	ENG*	[0 to 99999999 / 0 / 1]
3-012-021	ProCon OK?	History:Last(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-022	ProCon OK?	History:Last 2(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-023	ProCon OK?	History:Last 3(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-024	ProCon OK?	History:Last 4(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-025	ProCon OK?	History:Last 5(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-026	ProCon OK?	History:Last 6(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-027	ProCon OK?	History:Last 7(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-028	ProCon OK?	History:Last 8(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-029	ProCon OK?	History:Last 9(Rear)	ENG*	[0 to 99999999 / 0 / 1]
3-012-030	ProCon OK?	History:Last 10(Rear)	ENG*	[0 to 99999999 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-014-001	IBACC OK?	History:Last	ENG*	[0 to 9999 / 0 / 1]
3-014-002	IBACC OK?	History:Last 2	ENG*	[0 to 9999 / 0 / 1]
3-014-003	IBACC OK?	History:Last 3	ENG*	[0 to 9999 / 0 / 1]
3-014-004	IBACC OK?	History:Last 4	ENG*	[0 to 9999 / 0 / 1]
3-014-005	IBACC OK?	History:Last 5	ENG*	[0 to 9999 / 0 / 1]
3-014-006	IBACC OK?	History:Last 6	ENG*	[0 to 9999 / 0 / 1]
3-014-007	IBACC OK?	History:Last 7	ENG*	[0 to 9999 / 0 / 1]
3-014-008	IBACC OK?	History:Last 8	ENG*	[0 to 9999 / 0 / 1]
3-014-009	IBACC OK?	History:Last 9	ENG*	[0 to 9999 / 0 / 1]
3-014-010	IBACC OK?	History:Last 10	ENG*	[0 to 9999 / 0 / 1]
3-030-001	Init TD Sensor :Exe	Execute: ALL	ENG	[0 to 1 / 0 / 1]
3-030-002	Init TD Sensor :Exe	Execute: Col	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-030-003	Init TD Sensor :Exe	Execute: K	ENG	[0 to 1 / 0 / 1]
3-030-004	Init TD Sensor :Exe	Execute: C	ENG	[0 to 1 / 0 / 1]
3-030-005	Init TD Sensor :Exe	Execute: M	ENG	[0 to 1 / 0 / 1]
3-030-006	Init TD Sensor :Exe	Execute: Y	ENG	[0 to 1 / 0 / 1]
3-030-071	Init TD Sensor :Exe	Init Temp: K	ENG*	[-100 to 100 / 230 / 0.1deg]
3-030-072	Init TD Sensor :Exe	Init Temp: C	ENG*	[-100 to 100 / 230 / 0.1deg]
3-030-073	Init TD Sensor :Exe	Init Temp: M	ENG*	[-100 to 100 / 230 / 0.1deg]
3-030-074	Init TD Sensor :Exe	Init Temp: Y	ENG*	[-100 to 100 / 230 / 0.1deg]
3-030-081	Init TD Sensor :Exe	Init Rel Hum: K	ENG*	[0 to 100 / 500 / 0.1%RH]
3-030-082	Init TD Sensor :Exe	Init Rel Hum: C	ENG*	[0 to 100 / 500 / 0.1%RH]
3-030-083	Init TD Sensor :Exe	Init Rel Hum: M	ENG*	[0 to 100 / 500 / 0.1%RH]
3-030-084	Init TD Sensor :Exe	Init Rel Hum: Y	ENG*	[0 to 100 / 500 / 0.1%RH]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-030-091	Init TD Sensor :Exe	Init Abs Hum: K	ENG*	[0 to 100 / 1030 / 0.01g/m3]
3-030-092	Init TD Sensor :Exe	Init Abs Hum: C	ENG*	[0 to 100 / 1030 / 0.01g/m3]
3-030-093	Init TD Sensor :Exe	Init Abs Hum: M	ENG*	[0 to 100 / 1030 / 0.01g/m3]
3-030-094	Init TD Sensor :Exe	Init Abs Hum: Y	ENG*	[0 to 100 / 1030 / 0.01g/m3]
3-031-001	TD Sens Init OK?	From Left:YMCK	ENG*	[0 to 9999 / 0 / 1]
3-050-001	Force Tnr Supply :Exe	Execute: ALL	ENG	[0 to 1 / 0 / 1]
3-050-002	Force Tnr Supply :Exe	Execute: Col	ENG	[0 to 1 / 0 / 1]
3-050-003	Force Tnr Supply :Exe	Execute: K	ENG	[0 to 1 / 0 / 1]
3-050-004	Force Tnr Supply :Exe	Execute: C	ENG	[0 to 1 / 0 / 1]
3-050-005	Force Tnr Supply :Exe	Execute: M	ENG	[0 to 1 / 0 / 1]
3-050-006	Force Tnr Supply :Exe	Execute: Y	ENG	[0 to 1 / 0 / 1]
3-050-021	Force Tnr Supply :Exe	Supply Quantity:K	ENG*	[0 to 5 / 5 / 0.1wt%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-050-022	Force Tnr Supply :Exe	Supply Quantity:C	ENG*	[0 to 5 / 5 / 0.1wt%]
3-050-023	Force Tnr Supply :Exe	Supply Quantity:M	ENG*	[0 to 5 / 5 / 0.1wt%]
3-050-024	Force Tnr Supply :Exe	Supply Quantity:Y	ENG*	[0 to 5 / 5 / 0.1wt%]
3-050-033	Force Tnr Supply :Exe	RepeatCount	ENG*	[0 to 255 / 8 / 1times]
3-072-001	T Sensor: Check	Execute Check	ENG	[0 to 1 / 0 / 1]
3-073-001	T Sensor Measurement Value:	mu count:K	ENG*	[0 to 65535 / 0 / 1]
3-073-002	T Sensor Measurement Value:	mu count:C	ENG*	[0 to 65535 / 0 / 1]
3-073-003	T Sensor Measurement Value:	mu count:M	ENG*	[0 to 65535 / 0 / 1]
3-073-004	T Sensor Measurement Value:	mu count:Y	ENG*	[0 to 65535 / 0 / 1]
3-100-001	Tonner End Detection: Set	ON/OFF	ENG*	[0 to 1 / 0 / 1] 0:Enable 1:Disable
3-100-002	Tonner End Detection: Set	NE Detection	ENG*	[0 to 1 / 0 / 1] 0:Counter & Toner End Sensor 1:Toner End Sensor Only
3-101-001	Toner Status :Disp	K	ENG*	[0 to 10 / 10 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-101-002	Toner Status :Disp	C	ENG*	[0 to 10 / 10 / 1]
3-101-003	Toner Status :Disp	M	ENG*	[0 to 10 / 10 / 1]
3-101-004	Toner Status :Disp	Y	ENG*	[0 to 10 / 10 / 1]
3-102-001	Toner Remain:Disp	Bottle Motor: Bk	ENG*	[0 to 700 / 560000 / 0.001g]
3-102-002	Toner Remain:Disp	Bottle Motor: C	ENG*	[0 to 700 / 440000 / 0.001g]
3-102-003	Toner Remain:Disp	Bottle Motor: M	ENG*	[0 to 700 / 440000 / 0.001g]
3-102-004	Toner Remain:Disp	Bottle Motor: Y	ENG*	[0 to 700 / 440000 / 0.001g]
3-102-011	Toner Remain:Disp	Pixel: Bk	ENG*	[0 to 700 / 560000 / 0.001g]
3-102-012	Toner Remain:Disp	Pixel: C	ENG*	[0 to 700 / 440000 / 0.001g]
3-102-013	Toner Remain:Disp	Pixel: M	ENG*	[0 to 700 / 440000 / 0.001g]
3-102-014	Toner Remain:Disp	Pixel: Y	ENG*	[0 to 700 / 440000 / 0.001g]
3-102-021	Toner Remaining: Display	Fill Amount: Bk	ENG*	[0 to 600 / 560 / 1g]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-102-022	Toner Remaining: Display	Fill Amount: C	ENG*	[0 to 600 / 440 / 1g]
3-102-023	Toner Remaining: Display	Fill Amount: M	ENG*	[0 to 600 / 440 / 1g]
3-102-024	Toner Remaining: Display	Fill Amount: Y	ENG*	[0 to 600 / 440 / 1g]
3-102-031	Toner Remain:Disp	Pixel: Toner Consumption x 2: Bk	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-032	Toner Remain:Disp	Pixel: Toner Consumption x 2: C	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-033	Toner Remain:Disp	Pixel: Toner Consumption x 2: M	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-034	Toner Remain:Disp	Pixel: Toner Consumption x 2: Y	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-041	Toner Remain:Disp	Drive Motor: Toner Consumption x 1: Bk	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-042	Toner Remain:Disp	Drive Motor: Toner Consumption x 1: C	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-043	Toner Remain:Disp	Drive Motor: Toner Consumption x 1: M	ENG*	[0 to 1000 / 0 / 0.001g]
3-102-044	Toner Remain:Disp	Drive Motor: Toner Consumption x 1: Y	ENG*	[0 to 1000 / 0 / 0.001g]
3-104-001	Flag: Display	NE Toner: Bk	ENG*	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-104-002	Flag: Display	NE Toner: C	ENG*	[0 to 1 / 0 / 1]
3-104-003	Flag: Display	NE Toner: M	ENG*	[0 to 1 / 0 / 1]
3-104-004	Flag: Display	NE Toner: Y	ENG*	[0 to 1 / 0 / 1]
3-104-011	Flag: Display	Vt end:Bk	ENG*	[0 to 1 / 0 / 1]
3-104-012	Flag: Display	Vt end:C	ENG*	[0 to 1 / 0 / 1]
3-104-013	Flag: Display	Vt end:M	ENG*	[0 to 1 / 0 / 1]
3-104-014	Flag: Display	Vt end:Y	ENG*	[0 to 1 / 0 / 1]
3-110-001	Near End Thresh	Bk	ENG*	[0 to 500 / 65 / 1g]
3-110-002	Near End Thresh	C	ENG*	[0 to 500 / 55 / 1g]
3-110-003	Near End Thresh	M	ENG*	[0 to 500 / 55 / 1g]
3-110-004	Near End Thresh	Y	ENG*	[0 to 500 / 55 / 1g]
3-121-001	TE Counter: Disp	Bk	ENG*	[0 to 99 / 0 / 1times]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-121-002	TE Counter: Disp	C	ENG*	[0 to 99 / 0 / 1times]
3-121-003	TE Counter: Disp	M	ENG*	[0 to 99 / 0 / 1times]
3-121-004	TE Counter: Disp	Y	ENG*	[0 to 99 / 0 / 1times]
3-121-011	TE Counter: Clearcount	Bk	ENG*	[0 to 10 / 0 / 1times]
3-121-012	TE Counter: Clearcount	C	ENG*	[0 to 10 / 0 / 1times]
3-121-013	TE Counter: Clearcount	M	ENG*	[0 to 10 / 0 / 1times]
3-121-014	TE Counter: Clearcount	Y	ENG*	[0 to 10 / 0 / 1times]
3-131-001	Vt TE Thresh	Delta Vt Thresh	ENG*	[0 to 5 / 50 / 0.01V]
3-131-002	Vt TE Thresh	Delta Vt Sum Thresh	ENG*	[0 to 99 / 10 / 1V]
3-131-011	Vt TE Thresh	Delta Vt Thresh BF NE	ENG*	[0 to 5 / 50 / 0.01V]
3-131-012	Vt TE Thresh	Delta Vt Sum Thresh BF NE	ENG*	[0 to 99 / 10 / 1V]
3-132-001	Delta Vt Sum	Bk	ENG*	[0 to 99 / 0 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-132-002	Delta Vt Sum	C	ENG*	[0 to 99 / 0 / 0.01V]
3-132-003	Delta Vt Sum	M	ENG*	[0 to 99 / 0 / 0.01V]
3-132-004	Delta Vt Sum	Y	ENG*	[0 to 99 / 0 / 0.01V]
3-133-001	TE Detect :Set	Set Sheets(Min)	ENG*	[0 to 50 / 10 / 1sheets]
3-133-002	TE Detect :Set	Set Sheets(Max)	ENG*	[0 to 5000 / 1000 / 1sheets]
3-133-011	TE Detect :Set	Page Cnt:K	ENG*	[0 to 5000 / 0 / 1sheets]
3-133-012	TE Detect :Set	Page Cnt:C	ENG*	[0 to 5000 / 0 / 1sheets]
3-133-013	TE Detect :Set	Page Cnt:M	ENG*	[0 to 5000 / 0 / 1sheets]
3-133-014	TE Detect :Set	Page Cnt:Y	ENG*	[0 to 5000 / 0 / 1sheets]
3-133-021	TE Detect :Set	Set Pxl Cnt	ENG*	[0 to 1000000 / 7000 / 1cm2]
3-133-031	TE Detect :Set	Pxl Cnt:K	ENG*	[0 to 1000000 / 0 / 1cm2]
3-133-032	TE Detect :Set	Pxl Cnt:C	ENG*	[0 to 1000000 / 0 / 1cm2]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-133-033	TE Detect :Set	Pxl Cnt:M	ENG*	[0 to 1000000 / 0 / 1cm2]
3-133-034	TE Detect :Set	Pxl Cnt:Y	ENG*	[0 to 1000000 / 0 / 1cm2]
3-150-001	TE Sensor :Set	SamplingCount	ENG*	[4 to 20 / 10 / 1counts]
3-150-002	TE Sensor :Set	Judge:p	ENG*	[0.2 to 1 / 8 / 0.1]
3-150-003	TE Sensor :Set	result:K	ENG*	[0 to 1 / 5 / 0.1]
3-150-004	TE Sensor :Set	result:C	ENG*	[0 to 1 / 5 / 0.1]
3-150-005	TE Sensor :Set	result:M	ENG*	[0 to 1 / 5 / 0.1]
3-150-006	TE Sensor :Set	result:Y	ENG*	[0 to 1 / 5 / 0.1]
3-160-001	Bottle Drive :Set	Bottle Drive System	ENG*	[0 to 1 / 0 / 1] 0:TE Sensor Control 1:TonerSupplyMotor Track Control
3-200-001	TnrDensity	K	ENG*	[0 to 25.5 / 0 / 0.1wt%]
3-200-002	TnrDensity	C	ENG*	[0 to 25.5 / 0 / 0.1wt%]
3-200-003	TnrDensity	M	ENG*	[0 to 25.5 / 0 / 0.1wt%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-200-004	TnrDensity	Y	ENG*	[0 to 25.5 / 0 / 0.1wt%]
3-201-001	TnrDensity	Upper TC	ENG*	[1 to 15 / 90 / 0.1wt%]
3-201-002	TnrDensity	Lower TC	ENG*	[-1 to 15 / * / 0.1wt%] *SP C840DN: 0 *SP C842DN: -10
3-205-051	TD.Sens Sensitivity	Mu Cnv Coef:K	ENG*	[0.001 to 0.1 / * / 0.001V/count] *SP C840DN: 0.018 *SP C842DN: 0.019
3-205-052	TD.Sens Sensitivity	Mu Cnv Coef:C	ENG*	[0.001 to 0.1 / * / 0.001V/count] *SP C840DN: 0.017 *SP C842DN: 0.018
3-205-053	TD.Sens Sensitivity	Mu Cnv Coef:M	ENG*	[0.001 to 0.1 / 18 / 0.001V/count]
3-205-054	TD.Sens Sensitivity	Mu Cnv Coef:Y	ENG*	[0.001 to 0.1 / 18 / 0.001V/count]
3-205-101	TD.Sens Sensitivity	Bulk Density: K	ENG*	[-5 to 0.05 / 0 / 0.01V]
3-205-102	TD.Sens Sensitivity	Bulk Density: C	ENG*	[-5 to 0.05 / 0 / 0.01V]
3-205-103	TD.Sens Sensitivity	Bulk Density: M	ENG*	[-5 to 5 / 0 / 0.01V]
3-205-104	TD.Sens Sensitivity	Bulk Density: Y	ENG*	[-5 to 5 / 0 / 0.01V]
3-210-	TD.Sens:Vt :Disp	Current: K	ENG*	[0 to 5.5 / 0 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
3-210-002	TD.Sens:Vt :Disp	Current: C	ENG*	[0 to 5.5 / 0 / 0.01V]
3-210-003	TD.Sens:Vt :Disp	Current: M	ENG*	[0 to 5.5 / 0 / 0.01V]
3-210-004	TD.Sens:Vt :Disp	Current: Y	ENG*	[0 to 5.5 / 0 / 0.01V]
3-212-101	Vt Shift :Set	TC Cor.(ON/OFF)	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
3-212-111	Vt Shift :Set	TC Mid Spd:K	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-112	Vt Shift :Set	TC Mid Spd:C	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-113	Vt Shift :Set	TC Mid Spd:M	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-114	Vt Shift :Set	TC Mid Spd:Y	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-121	Vt Shift :Set	TC Low Spd:K	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-122	Vt Shift :Set	TC Low Spd:C	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-123	Vt Shift :Set	TC Low Spd:M	ENG*	[-0.5 to 0.5 / 0 / 0.01V]
3-212-	Vt Shift :Set	TC Low Spd:Y	ENG*	[-0.5 to 0.5 / 0 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
124				
3-214-001	Vt Save :Set	Coverage Thresh	ENG*	[0 to 100 / 20 / 1%]
3-230-001	Vtref :Disp/Set	Current: K	ENG*	[0 to 5 / 180 / 0.01V]
3-230-002	Vtref :Disp/Set	Current: C	ENG*	[0 to 5 / 180 / 0.01V]
3-230-003	Vtref :Disp/Set	Current: M	ENG*	[0 to 5 / 180 / 0.01V]
3-230-004	Vtref :Disp/Set	Current: Y	ENG*	[0 to 5 / 180 / 0.01V]
3-232-001	Vtref Correct:Pixel	ON/OFF	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-232-011	Vtref Correct:Pixel	Low Coverage Coef:K	ENG*	[0 to 5 / 10 / 0.1]
3-232-012	Vtref Correct:Pixel	Low Coverage Coef:C	ENG*	[0 to 5 / 10 / 0.1]
3-232-013	Vtref Correct:Pixel	Low Coverage Coef:M	ENG*	[0 to 5 / 10 / 0.1]
3-232-014	Vtref Correct:Pixel	Low Coverage Coef:Y	ENG*	[0 to 5 / 10 / 0.1]
3-232-021	Vtref Correct:Pixel	High Coverage Coeff:K	ENG*	[0 to 5 / 5 / 0.1]
3-232-	Vtref Correct:Pixel	High Coverage Coeff:C	ENG*	[0 to 5 / 5 / 0.1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
022				
3-232-023	Vtref Correct:Pixel	High Coverage Coeff:M	ENG*	[0 to 5 / 5 / 0.1]
3-232-024	Vtref Correct:Pixel	High Coverage Coeff:Y	ENG*	[0 to 5 / 5 / 0.1]
3-232-040	Vtref Correct:Pixel	Initial ProCon Thresh	ENG*	[0 to 255 / 100 / 1times]
3-232-041	Vtref Correct:Pixel	High Coverage Thresh:H	ENG*	[0 to 100 / 100 / 1%]
3-232-050	Vtref Correct:Pixel	ProCon Thresh	ENG*	[0 to 255 / 100 / 1times]
3-232-060	Vtref Correct:Pixel	Low Coverage Thresh	ENG*	[0 to 20 / 30 / 0.1%]
3-232-070	Vtref Correct:Pixel	TC Upper Limit Correction	ENG*	[0 to 5 / 5 / 0.1wt%]
3-232-071	Vtref Correct:Pixel	TC Upper Limit:Display:Bk	ENG*	[1 to 15 / 90 / 0.1wt%]
3-232-072	Vtref Correct:Pixel	TC Upper Limit:Display:C	ENG*	[1 to 15 / 90 / 0.1wt%]
3-232-073	Vtref Correct:Pixel	TC Upper Limit:Display:M	ENG*	[1 to 15 / 90 / 0.1wt%]
3-232-074	Vtref Correct:Pixel	TC Upper Limit:Display:Y	ENG*	[1 to 15 / 90 / 0.1wt%]
3-233-	RTP Vtref Corr :Disp/Set	ON/OFF	ENG*	[0 to 1 / 1 / 1] 0:OFF

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				1:ON
3-233-011	RTP Vtref Corr :Disp/Set	Corr Amt(+):K	ENG*	[0 to 1 / 3 / 0.01V]
3-233-012	RTP Vtref Corr :Disp/Set	Corr Amt(+):C	ENG*	[0 to 1 / 3 / 0.01V]
3-233-013	RTP Vtref Corr :Disp/Set	Corr Amt(+):M	ENG*	[0 to 1 / 3 / 0.01V]
3-233-014	RTP Vtref Corr :Disp/Set	Corr Amt(+):Y	ENG*	[0 to 1 / 3 / 0.01V]
3-233-021	RTP Vtref Corr :Disp/Set	Corr Amt(-):K	ENG*	[0 to 1 / 3 / 0.01V]
3-233-022	RTP Vtref Corr :Disp/Set	Corr Amt(-):C	ENG*	[0 to 1 / 3 / 0.01V]
3-233-023	RTP Vtref Corr :Disp/Set	Corr Amt(-):M	ENG*	[0 to 1 / 3 / 0.01V]
3-233-024	RTP Vtref Corr :Disp/Set	Corr Amt(-):Y	ENG*	[0 to 1 / 3 / 0.01V]
3-233-031	RTP Vtref Corr :Disp/Set	Corr Thresh:K	ENG*	[0 to 0.1 / 5 / 0.001mg/cm2]
3-233-032	RTP Vtref Corr :Disp/Set	Corr Thresh:C	ENG*	[0 to 0.1 / 10 / 0.001mg/cm2]
3-233-033	RTP Vtref Corr :Disp/Set	Corr Thresh:M	ENG*	[0 to 0.1 / 10 / 0.001mg/cm2]
3-233-	RTP Vtref Corr :Disp/Set	Corr Thresh:Y	ENG*	[0 to 0.1 / 10 / 0.001mg/cm2]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
034				
3-233-041	RTP Vtref Corr :Disp/Set	Vtavg Weight Coeff (H)	ENG*	[0 to 100 / 30 / 1%]
3-233-051	RTP Vtref Corr :Disp/Set	Vtavg Weight Coeff (M)	ENG*	[0 to 100 / 0 / 1%]
3-233-061	RTP Vtref Corr :Disp/Set	Vtavg Weight Coeff (L)	ENG*	[0 to 100 / 5 / 1%]
3-234-001	Vtref Corr :Disp/Set	ON/OFF	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-234-011	Vtref Corr :Disp/Set	Corr Amt(+):K	ENG*	[0 to 1 / 1 / 0.01V]
3-234-012	Vtref Corr :Disp/Set	Corr Amt(+):C	ENG*	[0 to 1 / 1 / 0.01V]
3-234-013	Vtref Corr :Disp/Set	Corr Amt(+):M	ENG*	[0 to 1 / 1 / 0.01V]
3-234-014	Vtref Corr :Disp/Set	Corr Amt(+):Y	ENG*	[0 to 1 / 1 / 0.01V]
3-234-021	Vtref Corr :Disp/Set	Corr Amt(-):K	ENG*	[0 to 1 / 1 / 0.01V]
3-234-022	Vtref Corr :Disp/Set	Corr Amt(-):C	ENG*	[0 to 1 / 1 / 0.01V]
3-234-023	Vtref Corr :Disp/Set	Corr Amt(-):M	ENG*	[0 to 1 / 1 / 0.01V]
3-234-	Vtref Corr :Disp/Set	Corr Amt(-):Y	ENG*	[0 to 1 / 1 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
024				
3-234-031	Vtref Corr :Disp/Set	P Rank 1 Threshold	ENG*	[0 to 2 / 15 / 0.01]
3-234-032	Vtref Corr :Disp/Set	P Rank 2 Threshold	ENG*	[0 to 2 / 5 / 0.01]
3-234-033	Vtref Corr :Disp/Set	P Rank 3 Threshold	ENG*	[-2 to 0 / -5 / 0.01]
3-234-034	Vtref Corr :Disp/Set	P Rank 4 Threshold	ENG*	[-2 to 0 / -25 / 0.01]
3-234-041	Vtref Corr :Disp/Set	T Rank 1 Threshold	ENG*	[-1 to 0 / -20 / 0.01V]
3-234-042	Vtref Corr :Disp/Set	T Rank 2 Threshold	ENG*	[0 to 1 / 20 / 0.01V]
3-234-050	Vtref Corr :Disp/Set	Correction Coefficient	ENG*	[1 to 10 / 100 / 0.1]
3-250-001	ImgArea :Disp	ImgArea:K	ENG*	[0 to 9999 / 0 / 1cm2]
3-250-002	ImgArea :Disp	ImgArea:C	ENG*	[0 to 9999 / 0 / 1cm2]
3-250-003	ImgArea :Disp	ImgArea:M	ENG*	[0 to 9999 / 0 / 1cm2]
3-250-004	ImgArea :Disp	ImgArea:Y	ENG*	[0 to 9999 / 0 / 1cm2]
3-251-	DotCoverage :Disp	DotCoverage:K	ENG*	[0 to 100 / 0 / 0.01%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
3-251-002	DotCoverage :Disp	DotCoverage:C	ENG*	[0 to 100 / 0 / 0.01%]
3-251-003	DotCoverage :Disp	DotCoverage:M	ENG*	[0 to 100 / 0 / 0.01%]
3-251-004	DotCoverage :Disp	DotCoverage:Y	ENG*	[0 to 100 / 0 / 0.01%]
3-251-011	DotCoverage :Disp	DC Avg.:S:K	ENG*	[0 to 100 / 500 / 0.01%]
3-251-012	DotCoverage :Disp	DC Avg.:S:C	ENG*	[0 to 100 / 500 / 0.01%]
3-251-013	DotCoverage :Disp	DC Avg.:S:M	ENG*	[0 to 100 / 500 / 0.01%]
3-251-014	DotCoverage :Disp	DC Avg.:S:Y	ENG*	[0 to 100 / 500 / 0.01%]
3-251-021	DotCoverage :Disp	DC Avg.:M:K	ENG*	[0 to 100 / 500 / 0.01%]
3-251-022	DotCoverage :Disp	DC Avg.:M:C	ENG*	[0 to 100 / 500 / 0.01%]
3-251-023	DotCoverage :Disp	DC Avg.:M:M	ENG*	[0 to 100 / 500 / 0.01%]
3-251-024	DotCoverage :Disp	DC Avg.:M:Y	ENG*	[0 to 100 / 500 / 0.01%]
3-251-	DotCoverage :Disp	DC Avg.:L:K	ENG*	[0 to 100 / 500 / 0.01%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
031				
3-251-032	DotCoverage :Disp	DC Avg.:L:C	ENG*	[0 to 100 / 500 / 0.01%]
3-251-033	DotCoverage :Disp	DC Avg.:L:M	ENG*	[0 to 100 / 500 / 0.01%]
3-251-034	DotCoverage :Disp	DC Avg.:L:Y	ENG*	[0 to 100 / 500 / 0.01%]
3-251-041	DotCoverage :Disp	TotalPage:S:Set	ENG*	[1 to 255 / 50 / 1counts]
3-251-042	DotCoverage :Disp	TotalPage:S:Set	ENG*	[1 to 500 / 50 / 1counts]
3-251-043	DotCoverage :Disp	TotalPage:S:Set	ENG*	[1 to 999 / 250 / 1counts]
3-251-051	DotCoverage :Disp	TotalPage:S:Set	ENG*	[1 to 255 / 100 / 1counts]
3-251-052	DotCoverage :Disp	TotalPage:S:Set	ENG*	[1 to 500 / 50 / 1counts]
3-251-053	DotCoverage :Disp	TotalPage:S:Set	ENG*	[1 to 999 / 250 / 1counts]
3-251-151	DotCoverage :Disp	Total DC: Dev: K	ENG*	[0 to 100 / 0 / 0.01%]
3-251-152	DotCoverage :Disp	Total DC: Dev: C	ENG*	[0 to 100 / 0 / 0.01%]
3-251-	DotCoverage :Disp	Total DC: Dev: M	ENG*	[0 to 100 / 0 / 0.01%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
153				
3-251-154	DotCoverage :Disp	Total DC: Dev: Y	ENG*	[0 to 100 / 0 / 0.01%]
3-252-001	AccumImgArea :Disp	ImgArea:K	ENG*	[0 to 65535 / 0 / 1cm^2]
3-252-002	AccumImgArea :Disp	ImgArea:C	ENG*	[0 to 65535 / 0 / 1cm^2]
3-252-003	AccumImgArea :Disp	ImgArea:M	ENG*	[0 to 65535 / 0 / 1cm^2]
3-252-004	AccumImgArea :Disp	ImgArea:Y	ENG*	[0 to 65535 / 0 / 1cm^2]
3-252-011	AccumImgArea :Disp	Tatal dev:K	ENG*	[0 to 4294967295 / 0 / 1cm2]
3-252-012	AccumImgArea :Disp	Tatal dev:C	ENG*	[0 to 4294967295 / 0 / 1cm2]
3-252-013	AccumImgArea :Disp	Tatal dev:M	ENG*	[0 to 4294967295 / 0 / 1cm2]
3-252-014	AccumImgArea :Disp	Tatal dev:Y	ENG*	[0 to 4294967295 / 0 / 1cm2]
3-260-001	Temperature/Humidity: Display	Temperature	ENG	[-5 to 45 / 0 / 0.1deg]
3-260-002	Temperature/Humidity: Display	Relative Humidity	ENG	[0 to 100 / 0 / 0.1%RH]
3-260-	Temperature/Humidity: Display	Absolute Humidity	ENG	[0 to 100 / 0 / 0.01g/m3]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
3-300-001	RTP Pattern :Disp	M/A(Latest):K	ENG*	[0 to 1 / 0 / 0.001mg/cm2]
3-300-002	RTP Pattern :Disp	M/A(Latest):C	ENG*	[0 to 2 / 0 / 0.001mg/cm2]
3-300-003	RTP Pattern :Disp	M/A(Latest):M	ENG*	[0 to 2 / 0 / 0.001mg/cm2]
3-300-004	RTP Pattern :Disp	M/A(Latest):Y	ENG*	[0 to 2 / 0 / 0.001mg/cm2]
3-300-011	RTP Pattern :Disp	M/A(Target):K	ENG*	[0 to 1 / 225 / 0.001mg/cm2]
3-300-012	RTP Pattern :Disp	M/A(Target):C	ENG*	[0 to 1 / 400 / 0.001mg/cm2]
3-300-013	RTP Pattern :Disp	M/A(Target):M	ENG*	[0 to 1 / 450 / 0.001mg/cm2]
3-300-014	RTP Pattern :Disp	M/A(Target):Y	ENG*	[0 to 1 / 400 / 0.001mg/cm2]
3-301-001	RTP Pattern :Set	Create Intrvl:BW	ENG	[0 to 200 / 10 / 1pages]
3-301-002	RTP Pattern :Set	Create Intrvl:FC	ENG	[0 to 200 / 10 / 1pages]
3-301-011	RTP Pattern :Set	Page Cnt:BW	ENG*	[0 to 200 / 0 / 1pages]
3-301-	RTP Pattern :Set	Page Cnt:FC	ENG*	[0 to 200 / 0 / 1pages]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
3-301-021	RTP Pattern :Set	M/A UppErr:K	ENG	[0 to 1 / 600 / 0.001mg/cm2]
3-301-022	RTP Pattern :Set	M/A UppErr:Col	ENG	[0 to 2 / 1200 / 0.001mg/cm2]
3-301-023	RTP Pattern :Set	M/A LowErr:K	ENG	[0 to 1 / 100 / 0.001mg/cm2]
3-301-024	RTP Pattern :Set	M/A LowErr:Col	ENG	[0 to 1 / 200 / 0.001mg/cm2]
3-301-031	RTP Pattern :Set	Feed Cnt :Set	ENG*	[0 to 99999999 / 50000 / 1ms]
3-301-041	RTP Pattern :Set	Feed Cnt :K	ENG*	[0 to 99999999 / 0 / 1ms]
3-301-042	RTP Pattern :Set	Feed Cnt :C	ENG*	[0 to 99999999 / 0 / 1ms]
3-301-043	RTP Pattern :Set	Feed Cnt :M	ENG*	[0 to 99999999 / 0 / 1ms]
3-301-044	RTP Pattern :Set	Feed Cnt :Y	ENG*	[0 to 99999999 / 0 / 1ms]
3-301-081	RTP Pattern :Set	M/A(RTP)_Std	ENG*	[0 to 1 / 225 / 0.001mg/cm2]
3-301-091	RTP Pattern :Set	M/A Thresh_Upp:K	ENG*	[0 to 1 / 86 / 0.001mg/cm2]
3-301-	RTP Pattern :Set	M/A Thresh_Upp:C	ENG*	[0 to 1 / 50 / 0.001mg/cm2]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
092				
3-301-093	RTP Pattern :Set	M/A Thresh_Upp:M	ENG*	[0 to 1 / 50 / 0.001mg/cm2]
3-301-094	RTP Pattern :Set	M/A Thresh_Upp:Y	ENG*	[0 to 1 / 50 / 0.001mg/cm2]
3-301-101	RTP Pattern :Set	M/A Thresh_Low:K	ENG*	[0 to 1 / 86 / 0.001mg/cm2]
3-301-102	RTP Pattern :Set	M/A Thresh_Low:C	ENG*	[0 to 1 / 100 / 0.001mg/cm2]
3-301-103	RTP Pattern :Set	M/A Thresh_Low:M	ENG*	[0 to 1 / 100 / 0.001mg/cm2]
3-301-104	RTP Pattern :Set	M/A Thresh_Low:Y	ENG*	[0 to 1 / 100 / 0.001mg/cm2]
3-301-111	RTP Pattern :Set	Weight Coeff:K	ENG*	[1 to 10 / 1 / 1]
3-301-112	RTP Pattern :Set	Weight Coeff:Col	ENG*	[1 to 10 / 1 / 1]
3-310-001	ID.Sens :Voffset	Voffset reg (Front)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-002	ID.Sens :Voffset	Voffset reg (Center)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-003	ID.Sens :Voffset	Voffset reg (Rear)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-	ID.Sens :Voffset	Voffset dif (Front)	ENG*	[0 to 5.5 / 0 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
3-310-012	ID.Sens :Voffset	Voffset dif (Center)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-013	ID.Sens :Voffset	Voffset dif (Rear)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-021	ID.Sens :Voffset	Voffset TM(Front)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-022	ID.Sens :Voffset	Voffset TM(Center)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-023	ID.Sens :Voffset	Voffset TM(Rear)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-311-001	ID.Sens :Vmin	Vmin_K(Front)	ENG*	[0 to 5 / 0 / 0.001V]
3-311-002	ID.Sens :Vmin	Vmin_K(Center)	ENG*	[0 to 5 / 0 / 0.001V]
3-311-003	ID.Sens :Vmin	Vmin_K(Rear)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-001	ID.Sens :Vct	Vct_reg(Front)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-002	ID.Sens :Vct	Vct_reg(Center)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-003	ID.Sens :Vct	Vct_reg(Rear)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-	ID.Sens :Vct	Vct_dif(Front)	ENG*	[0 to 5 / 0 / 0.001V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
3-312-012	ID.Sens :Vct	Vct_dif(Center)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-013	ID.Sens :Vct	Vct_dif(Rear)	ENG*	[0 to 5 / 0 / 0.001V]
3-320-001	Vsg Adj: Execute	P Sensor	ENG	[0 to 1 / 0 / 1]
3-320-031	Vsg Adj: Execute	Vsg Error Counter (Front)	ENG*	[0 to 99 / 0 / 1times]
3-320-032	Vsg Adj: Execute	Vsg Error Counter (Center)	ENG*	[0 to 99 / 0 / 1times]
3-320-033	Vsg Adj: Execute	Vsg Error Counter (Rear)	ENG*	[0 to 99 / 0 / 1times]
3-321-001	Adjusted Vsg	Vsg reg (Front)	ENG*	[0 to 5.5 / 400 / 0.01V]
3-321-002	Adjusted Vsg	Vsg reg (Center)	ENG*	[0 to 5.5 / 400 / 0.01V]
3-321-003	Adjusted Vsg	Vsg reg (Rear)	ENG*	[0 to 5.5 / 400 / 0.01V]
3-321-011	Adjusted Vsg	Vsg dif (Front)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-321-012	Adjusted Vsg	Vsg dif (Center)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-321-	Adjusted Vsg	Vsg dif (Rear)	ENG*	[0 to 5.5 / 0 / 0.01V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
3-321-041	Adjusted Vsg	Vsg TM(Front)	ENG*	[0 to 5.5 / 400 / 0.01V]
3-321-042	Adjusted Vsg	Vsg TM(Center)	ENG*	[0 to 5.5 / 400 / 0.01V]
3-321-043	Adjusted Vsg	Vsg TM(Rear)	ENG*	[0 to 5.5 / 400 / 0.01V]
3-322-001	Adjusted Ifsg	Ifsg RTP (Front)	ENG*	[0 to 50 / 10000 / 0.001mA]
3-322-002	Adjusted Ifsg	Ifsg RTP (Center)	ENG*	[0 to 50 / 10000 / 0.001mA]
3-322-003	Adjusted Ifsg	Ifsg RTP (Rear)	ENG*	[0 to 50 / 10000 / 0.001mA]
3-322-011	Adjusted Ifsg	Ifsg Min (Front)	ENG*	[0 to 50 / 27000 / 0.001mA]
3-322-012	Adjusted Ifsg	Ifsg Min (Center)	ENG*	[0 to 50 / 27000 / 0.001mA]
3-322-013	Adjusted Ifsg	Ifsg Min (Rear)	ENG*	[0 to 50 / 27000 / 0.001mA]
3-322-021	Adjusted Ifsg	Ifsg: TM(Front)	ENG*	[0 to 50 / 10000 / 0.001mA]
3-322-022	Adjusted Ifsg	Ifsg: TM(Center)	ENG*	[0 to 50 / 10000 / 0.001mA]
3-322-	Adjusted Ifsg	Ifsg: TM(Rear)	ENG*	[0 to 50 / 10000 / 0.001mA]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
023				
3-323-001	Vsg Adj OK?	Latest	ENG*	[0 to 999 / 0 / 1]
3-323-002	Vsg Adj OK?	Latest 2	ENG*	[0 to 999 / 0 / 1]
3-323-003	Vsg Adj OK?	Latest 3	ENG*	[0 to 999 / 0 / 1]
3-323-004	Vsg Adj OK?	Latest 4	ENG*	[0 to 999 / 0 / 1]
3-323-005	Vsg Adj OK?	Latest 5	ENG*	[0 to 999 / 0 / 1]
3-323-006	Vsg Adj OK?	Latest 6	ENG*	[0 to 999 / 0 / 1]
3-323-007	Vsg Adj OK?	Latest 7	ENG*	[0 to 999 / 0 / 1]
3-323-008	Vsg Adj OK?	Latest 8	ENG*	[0 to 999 / 0 / 1]
3-323-009	Vsg Adj OK?	Latest 9	ENG*	[0 to 999 / 0 / 1]
3-323-010	Vsg Adj OK?	Latest 10	ENG*	[0 to 999 / 0 / 1]
3-330-001	ID.Sens Coef :Disp	K2(Latest) (Front)	ENG*	[0 to 5 / 0 / 0.0001]
3-330-	ID.Sens Coef :Disp	K2(Latest) (Center)	ENG*	[0 to 5 / 0 / 0.0001]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
3-330-003	ID.Sens Coef :Disp	K2(Latest) (Rear)	ENG*	[0 to 5 / 0 / 0.0001]
3-330-011	ID.Sens Coef :Disp	K5(Latest) (Front)	ENG*	[0 to 10 / 50000 / 0.0001]
3-330-012	ID.Sens Coef :Disp	K5(Latest) (Center)	ENG*	[0 to 10 / 50000 / 0.0001]
3-330-013	ID.Sens Coef :Disp	K5(Latest) (Rear)	ENG*	[0 to 10 / 50000 / 0.0001]
3-333-001	ID.Sens TestVal:F	K2: Check	ENG*	[0 to 1 / 516 / 0.001]
3-333-002	ID.Sens TestVal:F	Diffuse Corr	ENG*	[0.75 to 1.35 / 100 / 0.01]
3-333-003	ID.Sens TestVal:F	Vct_reg Check:Slope	ENG*	[0 to 200 / 0 / 0.1mV/mA]
3-333-004	ID.Sens TestVal:F	Vct_reg Check:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-333-005	ID.Sens TestVal:F	Vct_dif Check:Slope	ENG*	[0 to 200 / 0 / 0.1mV/mA]
3-333-006	ID.Sens TestVal:F	Vct_dif Check:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-334-001	ID.Sens TestVal:C	K2: Check	ENG*	[0 to 1 / 516 / 0.001]
3-334-	ID.Sens TestVal:C	Diffuse Corr	ENG*	[0.75 to 1.35 / 100 / 0.01]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
3-334-003	ID.Sens TestVal:C	Vct_reg Check:Slope	ENG*	[0 to 200 / 0 / 0.1mV/mA]
3-334-004	ID.Sens TestVal:C	Vct_reg Check:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-334-005	ID.Sens TestVal:C	Vct_dif Check:Slope	ENG*	[0 to 200 / 0 / 0.1mV/mA]
3-334-006	ID.Sens TestVal:C	Vct_dif Check:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-335-001	ID.Sens TestVal:R	K2: Check	ENG*	[0 to 1 / 516 / 0.001]
3-335-002	ID.Sens TestVal:R	Diffuse Corr	ENG*	[0.75 to 1.35 / 100 / 0.01]
3-335-003	ID.Sens TestVal:R	Vct_reg Check:Slope	ENG*	[0 to 200 / 0 / 0.1mV/mA]
3-335-004	ID.Sens TestVal:R	Vct_reg Check:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-335-005	ID.Sens TestVal:R	Vct_dif Check:Slope	ENG*	[0 to 200 / 0 / 0.1mV/mA]
3-335-006	ID.Sens TestVal:R	Vct_dif Check:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-400-001	Toner Supply Type	K	ENG*	[0 to 4 / 4 / 1] 0:FIXED 2:PID 4:DANC
3-	Toner Supply Type	C	ENG*	[0 to 4 / 4 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
400-002				0:FIXED 2:PID 4:DANC
3-400-003	Toner Supply Type	M	ENG*	[0 to 4 / 4 / 1] 0:FIXED 2:PID 4:DANC
3-400-004	Toner Supply Type	Y	ENG*	[0 to 4 / 4 / 1] 0:FIXED 2:PID 4:DANC
3-411-001	Toner Supply Qty	K	ENG	[0 to 40000 / 0 / 0.1mg]
3-411-002	Toner Supply Qty	C	ENG	[0 to 40000 / 0 / 0.1mg]
3-411-003	Toner Supply Qty	M	ENG	[0 to 40000 / 0 / 0.1mg]
3-411-004	Toner Supply Qty	Y	ENG	[0 to 40000 / 0 / 0.1mg]
3-420-001	DeveloperWeight	Total_Weight:K	ENG*	[50 to 2000 / 380 / 1g]
3-420-002	DeveloperWeight	Total_Weight:CMY	ENG*	[50 to 2000 / 380 / 1g]
3-421-001	TnrSplyAbility	K	ENG*	[0.001 to 2 / 710 / 0.001mg/msec]
3-421-002	TnrSplyAbility	C	ENG*	[0.001 to 2 / 710 / 0.001mg/msec]
3-421-	TnrSplyAbility	M	ENG*	[0.001 to 2 / 710 / 0.001mg/msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
3-421-004	TnrSplyAbility	Y	ENG*	[0.001 to 2 / 710 / 0.001mg/msec]
3-421-011	TnrSplyAbility	TnrSplyAbilityCoef1	ENG*	[0.5 to 2 / 112 / 0.01]
3-421-012	TnrSplyAbility	TnrSplyAbilityCoef2	ENG*	[0.5 to 2 / 112 / 0.01]
3-421-013	TnrSplyAbility	TnrSplyAbilityCoef3	ENG*	[0.5 to 2 / 110 / 0.01]
3-421-014	TnrSplyAbility	TnrSplyAbilityCoef4	ENG*	[0.5 to 2 / 106 / 0.01]
3-421-015	TnrSplyAbility	TnrSplyAbilityCoef5	ENG*	[0.5 to 2 / 100 / 0.01]
3-421-016	TnrSplyAbility	TnrSplyAbilityCoef6	ENG*	[0.5 to 2 / 99 / 0.01]
3-421-017	TnrSplyAbility	TnrSplyAbilityCoef7	ENG*	[0.5 to 2 / 98 / 0.01]
3-421-018	TnrSplyAbility	TnrSplyAbilityCoef8	ENG*	[0.5 to 2 / 95 / 0.01]
3-421-019	TnrSplyAbility	TnrSplyAbilityCoef9	ENG*	[0.5 to 2 / 95 / 0.01]
3-421-020	TnrSplyAbility	TnrSplyAbilityCoef10	ENG*	[0.5 to 2 / 95 / 0.01]
3-421-	TnrSplyAbility	AbsHum Threshold:1	ENG*	[0 to 65 / 60 / 0.1g/m3]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
031				
3-421-032	TnrSplyAbility	AbsHum Threshold:2	ENG*	[0 to 65 / 120 / 0.1g/m3]
3-421-033	TnrSplyAbility	AbsHum Threshold:3	ENG*	[0 to 65 / 240 / 0.1g/m3]
3-421-041	TnrSplyAbility	Environ Coef1	ENG*	[0.5 to 2 / 100 / 0.01]
3-421-042	TnrSplyAbility	Environ Coef2	ENG*	[0.5 to 2 / 100 / 0.01]
3-421-043	TnrSplyAbility	Environ Coef3	ENG*	[0.5 to 2 / 100 / 0.01]
3-421-044	TnrSplyAbility	Environ Coef4	ENG*	[0.5 to 2 / 100 / 0.01]
3-422-001	Tnr Supply Limits :Set	Max Supply Rate:K	ENG*	[0 to 255 / 87 / 1%]
3-422-002	Tnr Supply Limits :Set	Max Supply Rate:C	ENG*	[0 to 255 / 87 / 1%]
3-422-003	Tnr Supply Limits :Set	Max Supply Rate:M	ENG*	[0 to 255 / 87 / 1%]
3-422-004	Tnr Supply Limits :Set	Max Supply Rate:Y	ENG*	[0 to 255 / 87 / 1%]
3-422-011	Tnr Supply Limits :Set	Min Supply Time: K	ENG*	[0 to 255 / 100 / 1msec]
3-422-	Tnr Supply Limits :Set	Min Supply Time: C	ENG*	[0 to 255 / 100 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
3-422-013	Tnr Supply Limits :Set	Min Supply Time: M	ENG*	[0 to 255 / 100 / 1msec]
3-422-014	Tnr Supply Limits :Set	Min Supply Time: Y	ENG*	[0 to 255 / 100 / 1msec]
3-428-001	TnrSplyDelay : Setting	Delay	ENG*	[0 to 255 / 0 / 1msec]
3-440-001	Fixed Supply Mode	Fixed Rate: K	ENG*	[0 to 100 / 10 / 1%]
3-440-002	Fixed Supply Mode	Fixed Rate: C	ENG*	[0 to 100 / 10 / 1%]
3-440-003	Fixed Supply Mode	Fixed Rate: M	ENG*	[0 to 100 / 10 / 1%]
3-440-004	Fixed Supply Mode	Fixed Rate: Y	ENG*	[0 to 100 / 10 / 1%]
3-460-011	TonerSupply :DANC	Time_Min	ENG*	[0 to 250 / 0 / 1msec]
3-460-012	TonerSupply :DANC	Time_Max	ENG*	[0 to 1000 / 200 / 1msec]
3-460-022	TonerSupply :DANC	SMITH_Weight:K	ENG*	[1 to 500 / 140 / 1mg]
3-460-023	TonerSupply :DANC	SMITH_Weight:CMY	ENG*	[1 to 500 / 140 / 1mg]
3-460-	TonerSupply :DANC	Rev_Fix:K	ENG*	[1 to 1.5 / 100 / 0.01]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
111				
3-460-112	TonerSupply :DANC	Rev_Fix:C	ENG*	[1 to 1.5 / 100 / 0.01]
3-460-113	TonerSupply :DANC	Rev_Fix:M	ENG*	[1 to 1.5 / 100 / 0.01]
3-460-114	TonerSupply :DANC	Rev_Fix:Y	ENG*	[1 to 1.5 / 100 / 0.01]
3-461-001	TonerSupply :DANC	PI:Power	ENG*	[5 to 200 / 100 / 1%]
3-461-011	TonerSupply :DANC	PI:P Gain:K	ENG*	[0 to 1 / 100 / 0.0001]
3-461-012	TonerSupply :DANC	PI:P Limits:Up:K	ENG*	[0 to 1 / 10 / 0.01]
3-461-013	TonerSupply :DANC	PI:P Limits:Low:K	ENG*	[0 to 1 / 10 / 0.01]
3-461-021	TonerSupply :DANC	PI:I Gain:K	ENG*	[0 to 0.1 / 10 / 0.0001]
3-461-022	TonerSupply :DANC	PI:I Limits:Up:K	ENG*	[0 to 1 / 10 / 0.01]
3-461-023	TonerSupply :DANC	PI:I Limits:Low:K	ENG*	[0 to 1 / 10 / 0.01]
3-461-031	TonerSupply :DANC	PI:P Gain:CMY	ENG*	[0 to 1 / 100 / 0.0001]
3-461-	TonerSupply :DANC	PI:P Limits:Up:CMY	ENG*	[0 to 1 / 10 / 0.01]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
032				
3-461-033	TonerSupply :DANC	PI:P Limits:Low:CMY	ENG*	[0 to 1 / 10 / 0.01]
3-461-041	TonerSupply :DANC	PI:I Gain:CMY	ENG*	[0 to 0.1 / 10 / 0.0001]
3-461-042	TonerSupply :DANC	PI:I Limits:Up:CMY	ENG*	[0 to 1 / 10 / 0.01]
3-461-043	TonerSupply :DANC	PI:I Limits:Low:CMY	ENG*	[0 to 1 / 10 / 0.01]
3-461-052	TonerSupply :DANC	AW:AWIpni:K	ENG*	[0 to 2000 / 1000 / 1]
3-461-062	TonerSupply :DANC	AW:AWIpni:CMY	ENG*	[0 to 2000 / 1000 / 1]
3-461-102	TonerSupply :DANC	PI:LineSpdCoef:MidSpd:K	ENG*	[0.05 to 1 / 50 / 0.01]
3-461-103	TonerSupply :DANC	PI:LineSpdCoef:LowSpd:K	ENG*	[0.05 to 1 / 50 / 0.01]
3-461-112	TonerSupply :DANC	PI:LineSpdCoef:StdSpd:CMY	ENG*	[0.05 to 1 / 50 / 0.01]
3-461-113	TonerSupply :DANC	PI:LineSpdCoef:LowSpd:CMY	ENG*	[0.05 to 1 / 50 / 0.01]
3-461-121	TonerSupply :DANC	SMITH:Gain:K	ENG*	[0 to 2 / 100 / 0.01]
3-461-	TonerSupply :DANC	SMITH:MidSpd:K	ENG*	[0 to 1 / 100 / 0.01]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
122				
3-461-123	TonerSupply :DANC	SMITH:LowSpd:K	ENG*	[0 to 1 / 100 / 0.01]
3-461-131	TonerSupply :DANC	SMITH:Gain:CMY	ENG*	[0 to 2 / 100 / 0.01]
3-461-132	TonerSupply :DANC	SMITH:MidSpd:CMY	ENG*	[0 to 1 / 100 / 0.01]
3-461-133	TonerSupply :DANC	SMITH:LowSpd:CMY	ENG*	[0 to 1 / 100 / 0.01]
3-462-001	TonerSupply :DANC	ANC:Power	ENG*	[0 to 200 / 100 / 1%]
3-462-101	TonerSupply :DANC	ANC:Gain:K	ENG*	[0 to 2 / 100 / 0.01]
3-462-102	TonerSupply :DANC	ANC:MidSpd:K	ENG*	[0.05 to 1 / 100 / 0.01]
3-462-103	TonerSupply :DANC	ANC:LowSpd:K	ENG*	[0.05 to 1 / 100 / 0.01]
3-462-111	TonerSupply :DANC	ANC:Gain:CMY	ENG*	[0 to 2 / 100 / 0.01]
3-462-112	TonerSupply :DANC	ANC:MidSpd:CMY	ENG*	[0.05 to 1 / 100 / 0.01]
3-462-113	TonerSupply :DANC	ANC:LowSpd:CMY	ENG*	[0.05 to 1 / 100 / 0.01]
3-463-	TonerSupply :DANC	Int:I:K	ENG*	[-1000 to 1000 / 0 / 0.0001]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
101				
3-463-102	TonerSupply :DANC	Int:I:C	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-103	TonerSupply :DANC	Int:I:M	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-104	TonerSupply :DANC	Int:I:Y	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-111	TonerSupply :DANC	ANC:ref Sum:K	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-112	TonerSupply :DANC	ANC:ref Sum:C	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-113	TonerSupply :DANC	ANC:ref Sum:M	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-114	TonerSupply :DANC	ANC:ref Sum:Y	ENG*	[-1000 to 1000 / 0 / 0.0001]
3-463-201	TonerSupply :DANC	ImgArea:K	ENG	[0 to 9999 / 0 / 1cm2]
3-463-202	TonerSupply :DANC	ImgArea:C	ENG	[0 to 9999 / 0 / 1cm2]
3-463-203	TonerSupply :DANC	ImgArea:M	ENG	[0 to 9999 / 0 / 1cm2]
3-463-204	TonerSupply :DANC	ImgArea:Y	ENG	[0 to 9999 / 0 / 1cm2]
3-500-	ImgQltyAdj :ON/OFF	ALL	ENG*	[0 to 1 / 1 / 1] 0:OFF

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				1:ON
3-500-002	ImgQltyAdj :ON/OFF	ProCon	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-500-003	ImgQltyAdj :ON/OFF	MUSIC Condition:Auto Exe	ENG*	[0 to 1 / 1 / 1]
3-500-004	ImgQltyAdj :ON/OFF	Init TD Sensor	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-500-006	ImgQltyAdj :ON/OFF	PresetSealWindup Exe	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-509-011	ImgQltyAdj :ModeSelect	ImgQltyAdj Mode Setting	ENG*	[0 to 2 / 0 / 1] 0:Standard mode A 1:Standard mode B 2:High Imaging Quality mode
3-510-024	ImgQltyAdj :ExeFlag	MUSIC	ENG*	[0 to 3 / 0 / 1] 0:OFF 1:Mode:b 2:Mode:a 3:Mode:e
3-520-001	ImgQltyAdj :Interval	During Job	ENG*	[0 to 100 / 30 / 1pages]
3-520-002	ImgQltyAdj :Interval	During Stand-by	ENG*	[0 to 100 / 5 / 1minute]
3-521-001	Drum Stop Time :Disp	Year	ENG*	[0 to 99 / 0 / 1year]
3-521-002	Drum Stop Time :Disp	Month	ENG*	[1 to 12 / 1 / 1month]
3-521-	Drum Stop Time :Disp	Day	ENG*	[1 to 31 / 1 / 1day]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
3-521-004	Drum Stop Time :Disp	Hour	ENG*	[0 to 23 / 0 / 1hour]
3-521-005	Drum Stop Time :Disp	Minute	ENG*	[0 to 59 / 0 / 1minute]
3-521-011	Drum Stop Time :Disp	Year:Col	ENG*	[0 to 99 / 0 / 1year]
3-521-012	Drum Stop Time :Disp	Month:Col	ENG*	[1 to 12 / 1 / 1month]
3-521-013	Drum Stop Time :Disp	Day:Col	ENG*	[1 to 31 / 1 / 1day]
3-521-014	Drum Stop Time :Disp	Hour:Col	ENG*	[0 to 23 / 0 / 1hour]
3-521-015	Drum Stop Time :Disp	Minute:Col	ENG*	[0 to 59 / 0 / 1minute]
3-522-001	Drum Stop Environ :Disp	Temperature	ENG*	[-1280 to 1270 / 0 / 0.1deg]
3-522-002	Drum Stop Environ :Disp	Rel Humidity	ENG*	[0 to 1000 / 0 / 0.1%RH]
3-522-003	Drum Stop Environ :Disp	Abs Humidity	ENG*	[0 to 1000 / 0 / 0.1g/m3]
3-522-011	Drum Stop Environ :Disp	Temperature:Col	ENG*	[-1280 to 1270 / 0 / 0.1deg]
3-522-	Drum Stop Environ :Disp	Rel Humidity:Col	ENG*	[0 to 1000 / 0 / 0.1%RH]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
3-522-013	Drum Stop Environ :Disp	Abs Humidity:Col	ENG*	[0 to 1000 / 0 / 0.1g/m3]
3-529-001	ProCon Interval Control :Set	Gamma Corr	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-529-002	ProCon Interval Control :Set	Environ Corr	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-529-003	ProCon Interval Control :Set	AbsHum Threshhold	ENG*	[0 to 99 / 43 / 0.1g/m3]
3-529-004	ProCon Interval Control :Set	Max Cnt Threshhold	ENG*	[0 to 99 / 2 / 1counts]
3-529-005	ProCon Interval Control :Set	Exe Cnt	ENG	[0 to 255 / 0 / 1counts]
3-529-006	ProCon Interval Control :Set	Page Cnt:BW	ENG*	[0 to 5000 / 0 / 1sheets]
3-529-007	ProCon Interval Control :Set	Page Cnt:FC	ENG*	[0 to 5000 / 0 / 1sheets]
3-530-001	PowerON ProCon :Set	Non-use Time Setting	ENG*	[0 to 1440 / 360 / 1minute]
3-530-002	PowerON ProCon :Set	Temperature Range	ENG*	[0 to 99 / 10 / 1deg]
3-530-003	PowerON ProCon :Set	Relative Humidity Range	ENG*	[0 to 99 / 50 / 1%RH]
3-530-	PowerON ProCon :Set	Absolute Humidity Range	ENG*	[0 to 99 / 6 / 1g/m3]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
3-530-005	PowerON ProCon :Set	Interval:BW	ENG*	[0 to 5000 / 250 / 1sheets]
3-530-006	PowerON ProCon :Set	Interval:FC	ENG*	[0 to 5000 / 100 / 1sheets]
3-530-007	PowerON ProCon :Set	Page Cnt:BW	ENG*	[0 to 5000 / 0 / 1sheets]
3-530-008	PowerON ProCon :Set	Page Cnt:FC	ENG*	[0 to 5000 / 0 / 1sheets]
3-531-001	Non-useTime Procon :Set	Non-use Time Setting	ENG*	[0 to 1440 / 360 / 1minute]
3-531-002	Non-useTime Procon :Set	Temperature Range	ENG*	[0 to 99 / 10 / 1deg]
3-531-003	Non-useTime Procon :Set	Relative Humidity Range	ENG*	[0 to 99 / 50 / 1%RH]
3-531-004	Non-useTime Procon :Set	Absolute Humidity Range	ENG*	[0 to 99 / 6 / 1g/m3]
3-531-005	Non-useTime Procon :Set	Maximum Execution Number	ENG*	[0 to 99 / 10 / 1times]
3-532-001	Prediction Control :Set	Prediction ControlON/OFF	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-533-001	Interrupt ProCon :Set	Interval:Set:BW	ENG*	[0 to 5000 / 500 / 1sheets]
3-533-	Interrupt ProCon :Set	Interval:Disp:BW	ENG*	[0 to 5000 / 500 / 1sheets]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
3-533-003	Interrupt ProCon :Set	Corr(Short):BW	ENG*	[0 to 1 / 100 / 0.01]
3-533-004	Interrupt ProCon :Set	Corr(Mid):BW	ENG*	[0 to 1 / 100 / 0.01]
3-533-011	Interrupt ProCon :Set	Interval:Set:FC	ENG*	[0 to 5000 / 200 / 1sheets]
3-533-012	Interrupt ProCon :Set	Interval:Disp:FC	ENG*	[0 to 5000 / 200 / 1sheets]
3-533-013	Interrupt ProCon :Set	Corr(Short):FC	ENG*	[0 to 1 / 100 / 0.01]
3-533-014	Interrupt ProCon :Set	Corr(Mid):FC	ENG*	[0 to 1 / 100 / 0.01]
3-534-001	JobEnd ProCon :Set	Interval:Set:BW	ENG*	[0 to 5000 / 500 / 1sheets]
3-534-002	JobEnd ProCon :Set	Interval:Disp:BW	ENG*	[0 to 5000 / 500 / 1sheets]
3-534-003	JobEnd ProCon :Set	Corr(Short):BW	ENG*	[0 to 1 / 100 / 0.01]
3-534-004	JobEnd ProCon :Set	Corr(Mid):BW	ENG*	[0 to 1 / 100 / 0.01]
3-534-011	JobEnd ProCon :Set	Interval:Set:FC	ENG*	[0 to 1000 / 200 / 1sheets]
3-534-	JobEnd ProCon :Set	Interval:Disp:FC	ENG*	[0 to 5000 / 200 / 1sheets]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
3-534-013	JobEnd ProCon :Set	Corr(Short):FC	ENG*	[0 to 1 / 100 / 0.01]
3-534-014	JobEnd ProCon :Set	Corr(Mid):FC	ENG*	[0 to 1 / 100 / 0.01]
3-539-001	Dev Agitating Time :Set	Time	ENG*	[0 to 3000 / 10 / 1sec]
3-539-010	Dev Agitating Time :Set	ON/OFF(by AbsHum)	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-539-011	Dev Agitating Time :Set	by AbsHum:1	ENG*	[0 to 3000 / 0 / 1sec]
3-539-012	Dev Agitating Time :Set	by AbsHum:2	ENG*	[0 to 3000 / 5 / 1sec]
3-539-013	Dev Agitating Time :Set	by AbsHum:3	ENG*	[0 to 3000 / 5 / 1sec]
3-539-014	Dev Agitating Time :Set	by AbsHum:4	ENG*	[0 to 3000 / 5 / 1sec]
3-539-015	Dev Agitating Time :Set	by AbsHum:5	ENG*	[0 to 3000 / 5 / 1sec]
3-539-016	Dev Agitating Time :Set	by AbsHum:6	ENG*	[0 to 3000 / 5 / 1sec]
3-539-021	Dev Agitating Time :Set	AbsHum Threshold:1	ENG*	[0 to 100 / 4 / 1g/cm3]
3-539-	Dev Agitating Time :Set	AbsHum Threshold:2	ENG*	[0 to 100 / 8 / 1g/cm3]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
022				
3-539-023	Dev Agitating Time :Set	AbsHum Threshold:3	ENG*	[0 to 100 / 12 / 1g/cm3]
3-539-024	Dev Agitating Time :Set	AbsHum Threshold:4	ENG*	[0 to 100 / 16 / 1g/cm3]
3-539-025	Dev Agitating Time :Set	AbsHum Threshold:5	ENG*	[0 to 100 / 24 / 1g/cm3]
3-539-030	Dev Agitating Time :Set	ON/OFF(by Non-use Time)	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-539-050	Dev Agitating Time :Set	ON/OFF(by Non-use Time)	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-539-051	Dev Agitating Time :Set	by DotCoverage :1	ENG*	[0 to 3000 / 0 / 1sec]
3-539-052	Dev Agitating Time :Set	by DotCoverage :2	ENG*	[0 to 3000 / 0 / 1sec]
3-539-053	Dev Agitating Time :Set	by DotCoverage :3	ENG*	[0 to 3000 / 5 / 1sec]
3-539-054	Dev Agitating Time :Set	by DotCoverage :4	ENG*	[0 to 3000 / 5 / 1sec]
3-539-055	Dev Agitating Time :Set	by DotCoverage :5	ENG*	[0 to 3000 / 5 / 1sec]
3-539-056	Dev Agitating Time :Set	by DotCoverage :6	ENG*	[0 to 3000 / 5 / 1sec]
3-539-	Dev Agitating Time :Set	DotCoverage Threshhold:1	ENG*	[0 to 5000 / 10 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
061				
3-539-062	Dev Agitating Time :Set	DotCoverage Threshhold:2	ENG*	[0 to 5000 / 20 / 1%]
3-539-063	Dev Agitating Time :Set	DotCoverage Threshhold:3	ENG*	[0 to 5000 / 30 / 1%]
3-539-064	Dev Agitating Time :Set	DotCoverage Threshhold:4	ENG*	[0 to 5000 / 40 / 1%]
3-539-065	Dev Agitating Time :Set	DotCoverage Threshhold:5	ENG*	[0 to 5000 / 50 / 1%]
3-539-099	Dev Agitating Time :Set	UpperLimit	ENG*	[0 to 3600 / 30 / 1sec]
3-541-001	Music Interval :Set	Page Cnt:BW	ENG*	[0 to 5000 / 0 / 1sheets]
3-541-002	Music Interval :Set	Page Cnt:FC	ENG*	[0 to 5000 / 0 / 1sheets]
3-550-001	Refresh Mode	Required Area: K	ENG*	[0 to 65535 / 0 / 1cm^2]
3-550-002	Refresh Mode	Required Area: C	ENG*	[0 to 65535 / 0 / 1cm^2]
3-550-003	Refresh Mode	Required Area: M	ENG*	[0 to 65535 / 0 / 1cm^2]
3-550-004	Refresh Mode	Required Area: Y	ENG*	[0 to 65535 / 0 / 1cm^2]
3-550-	Refresh Mode	Dev. Unit Rotation: Display: Bk	ENG*	[0 to 1000 / 0 / 0.1m]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
3-550-012	Refresh Mode	Dev. Unit Rotation: Display: C	ENG*	[0 to 1000 / 0 / 0.1m]
3-550-013	Refresh Mode	Dev. Unit Rotation: Display: M	ENG*	[0 to 1000 / 0 / 0.1m]
3-550-014	Refresh Mode	Dev. Unit Rotation: Display: Y	ENG*	[0 to 1000 / 0 / 0.1m]
3-550-031	Refresh Mode	Reflesh Threshold: Bk	ENG*	[0 to 255 / 17 / 1cm^2]
3-550-032	Refresh Mode	Reflesh Threshold: C	ENG*	[0 to 255 / 17 / 1cm^2]
3-550-033	Refresh Mode	Reflesh Threshold: M	ENG*	[0 to 255 / 17 / 1cm^2]
3-550-034	Refresh Mode	Reflesh Threshold: Y	ENG*	[0 to 255 / 17 / 1cm^2]
3-550-041	Refresh Mode	Job End Area Coefficient:K	ENG*	[0.1 to 25.5 / 10 / 0.1]
3-550-042	Refresh Mode	Job End Vb Coefficient:K	ENG*	[0 to 100 / 40 / 1%]
3-550-043	Refresh Mode	Job End Length:K	ENG*	[0 to 255 / 25 / 1mm]
3-550-044	Refresh Mode	Job End Supply	ENG*	[0 to 1 / 0 / 0.001mg/cm^2]
3-550-	Refresh Mode	Job End Area Coefficient:YMC	ENG*	[0.1 to 25.5 / 10 / 0.1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
045				
3-550-046	Refresh Mode	Job End Vb Coefficient:YMC	ENG*	[0 to 100 / 40 / 1%]
3-550-047	Refresh Mode	Job End Length:YMC	ENG*	[0 to 255 / 25 / 1mm]
3-550-050	Refresh Mode	Threshold	ENG*	[0 to 65535 / 3400 / 1cm^2]
3-550-081	Refresh Mode	TC Adj. Consume(Upp Limit)	ENG*	[0 to 255 / 0 / 1times]
3-553-001	Transfer belt cleaning	TransferIdleTime Temperature:H	ENG*	[0 to 3 / 0 / 0.1revolutions]
3-553-002	Transfer belt cleaning	TransferIdleTime Temperature:M	ENG*	[0 to 3 / 0 / 0.1revolutions]
3-553-003	Transfer belt cleaning	TransferIdleTime Temperature:L	ENG*	[0 to 3 / 0 / 0.1revolutions]
3-553-004	Transfer belt cleaning	TransferIdleTime Temperature:L:ON	ENG*	[0 to 3 / 0 / 0.1revolutions]
3-553-005	Transfer belt cleaning	Temperature Threshold:T2	ENG*	[20 to 30 / 25 / 1deg]
3-553-006	Transfer belt cleaning	Temperature Threshold:T1	ENG*	[0 to 15 / 15 / 1deg]
3-553-007	Transfer belt cleaning	Temperature Threshold:T3	ENG*	[0 to 30 / 5 / 1deg]
3-553-	Transfer belt cleaning	TransferIdleTime Rotation :Initial	ENG*	[0 to 3 / 0 / 0.1revolutions]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
008				
3-553-009	Transfer belt cleaning	TransferIdleTime Rotation :Middle	ENG*	[0 to 3 / 0 / 0.1revolutions]
3-553-010	Transfer belt cleaning	TransferIdleTime Rotation :End	ENG*	[0 to 3 / 0 / 0.1revolutions]
3-553-011	Transfer belt cleaning	Transfer Rotation Threshold:L1	ENG*	[0 to 999999999 / 24000000 / 1mm]
3-553-012	Transfer belt cleaning	Transfer Rotation Threshold:L2	ENG*	[0 to 999999999 / 96000000 / 1mm]
3-555-001	ImageQuality Adj. Counter:Disp	Charge AC Control	ENG*	[0 to 2000 / 0 / 1page]
3-600-001	Select ProCon	Potential Control	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-600-002	Select ProCon	LD Control	ENG*	[0 to 3 / 1 / 1]
3-600-003	Select ProCon	TC Adj. Mode	ENG*	[0 to 4 / 4 / 1] 0:Do Not Execute 1:1st Power On 2:1st Power On & Job End 3:1st P_On & JE &printing 4:devgammajudgement
3-600-004	Select ProCon	ACC Before ProCon	ENG*	[0 to 3 / 2 / 1] 0:NotExecute 1:ProcessControl 2:TCContorol
3-600-010	Select ProCon	ActivePotentialControl	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-600-030	Select ProCon	IBACC:ON/OFF	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-600-060	Select ProCon	Vsg ITB Internal Circumference Correction	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-610-001	Chrg AC Control	Std Speed: K	ENG*	[0 to 3 / 220 / 0.01kV]
3-610-002	Chrg AC Control	Std Speed: C	ENG*	[0 to 3 / 220 / 0.01kV]
3-610-003	Chrg AC Control	Std Speed: M	ENG*	[0 to 3 / 220 / 0.01kV]
3-610-004	Chrg AC Control	Std Speed: Y	ENG*	[0 to 3 / 220 / 0.01kV]
3-611-001	Chrg DC Control	Std Speed: K	ENG*	[300 to 1000 / 690 / 1-V]
3-611-002	Chrg DC Control	Std Speed: C	ENG*	[300 to 1000 / 690 / 1-V]
3-611-003	Chrg DC Control	Std Speed: M	ENG*	[300 to 1000 / 690 / 1-V]
3-611-004	Chrg DC Control	Std Speed: Y	ENG*	[300 to 1000 / 690 / 1-V]
3-611-011	Chrg DC Control	Mid Speed: K	ENG*	[300 to 1000 / 690 / 1-V]
3-611-012	Chrg DC Control	Mid Speed: C	ENG*	[300 to 1000 / 690 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-611-013	Chrg DC Control	Mid Speed: M	ENG*	[300 to 1000 / 690 / 1-V]
3-611-014	Chrg DC Control	Mid Speed: Y	ENG*	[300 to 1000 / 690 / 1-V]
3-611-021	Chrg DC Control	Low Speed: K	ENG*	[300 to 1000 / 690 / 1-V]
3-611-022	Chrg DC Control	Low Speed: C	ENG*	[300 to 1000 / 690 / 1-V]
3-611-023	Chrg DC Control	Low Speed: M	ENG*	[300 to 1000 / 690 / 1-V]
3-611-024	Chrg DC Control	Low Speed: Y	ENG*	[300 to 1000 / 690 / 1-V]
3-611-201	Chrg DC Control	Now:Std Speed: K	ENG	[300 to 1000 / 690 / 1-V]
3-611-202	Chrg DC Control	Now:Std Speed: C	ENG	[300 to 1000 / 690 / 1-V]
3-611-203	Chrg DC Control	Now:Std Speed: M	ENG	[300 to 1000 / 690 / 1-V]
3-611-204	Chrg DC Control	Now:Std Speed: Y	ENG	[300 to 1000 / 690 / 1-V]
3-611-211	Chrg DC Control	Now:Mid Speed: K	ENG	[300 to 1000 / 690 / 1-V]
3-611-212	Chrg DC Control	Now:Mid Speed: C	ENG	[300 to 1000 / 690 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-611-213	Chrg DC Control	Now:Mid Speed: M	ENG	[300 to 1000 / 690 / 1-V]
3-611-214	Chrg DC Control	Now:Mid Speed: Y	ENG	[300 to 1000 / 690 / 1-V]
3-611-221	Chrg DC Control	Now:Low Speed: K	ENG	[300 to 1000 / 690 / 1-V]
3-611-222	Chrg DC Control	Now:Low Speed: C	ENG	[300 to 1000 / 690 / 1-V]
3-611-223	Chrg DC Control	Now:Low Speed: M	ENG	[300 to 1000 / 690 / 1-V]
3-611-224	Chrg DC Control	Now:Low Speed: Y	ENG	[300 to 1000 / 690 / 1-V]
3-612-001	Dev DC Control	Std Speed: K	ENG*	[200 to 800 / 550 / 1-V]
3-612-002	Dev DC Control	Std Speed: C	ENG*	[200 to 800 / 550 / 1-V]
3-612-003	Dev DC Control	Std Speed: M	ENG*	[200 to 800 / 550 / 1-V]
3-612-004	Dev DC Control	Std Speed: Y	ENG*	[200 to 800 / 550 / 1-V]
3-612-011	Dev DC Control	Mid Speed: K	ENG*	[200 to 800 / 550 / 1-V]
3-612-012	Dev DC Control	Mid Speed: C	ENG*	[200 to 800 / 550 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-612-013	Dev DC Control	Mid Speed: M	ENG*	[200 to 800 / 550 / 1-V]
3-612-014	Dev DC Control	Mid Speed: Y	ENG*	[200 to 800 / 550 / 1-V]
3-612-021	Dev DC Control	Low Speed: K	ENG*	[200 to 800 / 550 / 1-V]
3-612-022	Dev DC Control	Low Speed: C	ENG*	[200 to 800 / 550 / 1-V]
3-612-023	Dev DC Control	Low Speed: M	ENG*	[200 to 800 / 550 / 1-V]
3-612-024	Dev DC Control	Low Speed: Y	ENG*	[200 to 800 / 550 / 1-V]
3-612-120	Dev DC Control	Set:Vb Limit	ENG*	[0 to 500 / 50 / 1V]
3-612-121	Dev DC Control	Set:Limit TC1	ENG*	[1 to 15 / 65 / 0.1wt%]
3-612-122	Dev DC Control	Set:Limit TC2	ENG*	[1 to 15 / 70 / 0.1wt%]
3-612-123	Dev DC Control	Set:Page Thresh	ENG*	[0 to 999999 / 35000 / 1page]
3-612-131	Dev DC Control	Set:Upper Vb Current:K	ENG*	[0 to 800 / 600 / 1V]
3-612-132	Dev DC Control	Set:Upper Vb Current:C	ENG*	[0 to 800 / 600 / 1V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-612-133	Dev DC Control	Set:Upper Vb Current:M	ENG*	[0 to 800 / 600 / 1V]
3-612-134	Dev DC Control	Set:Upper Vb Current:Y	ENG*	[0 to 800 / 600 / 1V]
3-612-201	Dev DC Control	Now:Std Speed: K	ENG	[200 to 800 / 690 / 1-V]
3-612-202	Dev DC Control	Now:Std Speed: C	ENG	[200 to 800 / 690 / 1-V]
3-612-203	Dev DC Control	Now:Std Speed: M	ENG	[200 to 800 / 690 / 1-V]
3-612-204	Dev DC Control	Now:Std Speed: Y	ENG	[200 to 800 / 690 / 1-V]
3-612-211	Dev DC Control	Now:Mid Speed: K	ENG	[200 to 800 / 690 / 1-V]
3-612-212	Dev DC Control	Now:Mid Speed: C	ENG	[200 to 800 / 690 / 1-V]
3-612-213	Dev DC Control	Now:Mid Speed: M	ENG	[200 to 800 / 690 / 1-V]
3-612-214	Dev DC Control	Now:Mid Speed: Y	ENG	[200 to 800 / 690 / 1-V]
3-612-221	Dev DC Control	Now:Low Speed: K	ENG	[200 to 800 / 690 / 1-V]
3-612-222	Dev DC Control	Now:Low Speed: C	ENG	[200 to 800 / 690 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-612-223	Dev DC Control	Now:Low Speed: M	ENG	[200 to 800 / 690 / 1-V]
3-612-224	Dev DC Control	Now:Low Speed: Y	ENG	[200 to 800 / 690 / 1-V]
3-613-001	LD Power Control	Std Speed: K	ENG*	[0 to 200 / 100 / 1%]
3-613-002	LD Power Control	Std Speed: C	ENG*	[0 to 200 / 100 / 1%]
3-613-003	LD Power Control	Std Speed: M	ENG*	[0 to 200 / 100 / 1%]
3-613-004	LD Power Control	Std Speed: Y	ENG*	[0 to 200 / 100 / 1%]
3-613-011	LD Power Control	Mid Speed: K	ENG*	[0 to 200 / 100 / 1%]
3-613-012	LD Power Control	Mid Speed: C	ENG*	[0 to 200 / 100 / 1%]
3-613-013	LD Power Control	Mid Speed: M	ENG*	[0 to 200 / 100 / 1%]
3-613-014	LD Power Control	Mid Speed: Y	ENG*	[0 to 200 / 100 / 1%]
3-613-021	LD Power Control	Low Speed: K	ENG*	[0 to 200 / 100 / 1%]
3-613-022	LD Power Control	Low Speed: C	ENG*	[0 to 200 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-613-023	LD Power Control	Low Speed: M	ENG*	[0 to 200 / 100 / 1%]
3-613-024	LD Power Control	Low Speed: Y	ENG*	[0 to 200 / 100 / 1%]
3-613-101	LD Power Control	PrcsCntrlCorrect:K	ENG*	[0 to 200 / 140 / 1%]
3-613-102	LD Power Control	PrcsCntrlCorrect:C	ENG*	[0 to 200 / 140 / 1%]
3-613-103	LD Power Control	PrcsCntrlCorrect:M	ENG*	[0 to 200 / 140 / 1%]
3-613-104	LD Power Control	PrcsCntrlCorrect:Y	ENG*	[0 to 200 / 140 / 1%]
3-613-201	LD Power Control	Now:Std Speed: K	ENG	[0 to 200 / 100 / 1%]
3-613-202	LD Power Control	Now:Std Speed: C	ENG	[0 to 200 / 100 / 1%]
3-613-203	LD Power Control	Now:Std Speed: M	ENG	[0 to 200 / 100 / 1%]
3-613-204	LD Power Control	Now:Std Speed: Y	ENG	[0 to 200 / 100 / 1%]
3-613-211	LD Power Control	Now:Mid Speed: K	ENG	[0 to 200 / 100 / 1%]
3-613-212	LD Power Control	Now:Mid Speed: C	ENG	[0 to 200 / 100 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-613-213	LD Power Control	Now:Mid Speed: M	ENG	[0 to 200 / 100 / 1%]
3-613-214	LD Power Control	Now:Mid Speed: Y	ENG	[0 to 200 / 100 / 1%]
3-613-221	LD Power Control	Now:Low Speed: K	ENG	[0 to 200 / 100 / 1%]
3-613-222	LD Power Control	Now:Low Speed: C	ENG	[0 to 200 / 100 / 1%]
3-613-223	LD Power Control	Now:Low Speed: M	ENG	[0 to 200 / 100 / 1%]
3-613-224	LD Power Control	Now:Low Speed: Y	ENG	[0 to 200 / 100 / 1%]
3-619-011	Bias:Spd Corr	VbCoef:Mid Spd: K	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-012	Bias:Spd Corr	VbCoef:Mid Spd: C	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-013	Bias:Spd Corr	VbCoef:Mid Spd: M	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-014	Bias:Spd Corr	VbCoef:Mid Spd: Y	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-021	Bias:Spd Corr	VbCoef:Low Spd: K	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-022	Bias:Spd Corr	VbCoef:Low Spd: C	ENG*	[0.5 to 1.5 / 100 / 0.01]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-619-023	Bias:Spd Corr	VbCoef:Low Spd: M	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-024	Bias:Spd Corr	VbCoef:Low Spd: Y	ENG*	[0.5 to 1.5 / 100 / 0.01]
3-619-051	Bias:Spd Corr	Offset: Std Spd: K	ENG*	[-128 to 127 / 39 / 1V]
3-619-052	Bias:Spd Corr	Offset: Std Spd: C	ENG*	[-128 to 127 / 39 / 1V]
3-619-053	Bias:Spd Corr	Offset: Std Spd: M	ENG*	[-128 to 127 / 39 / 1V]
3-619-054	Bias:Spd Corr	Offset: Std Spd: Y	ENG*	[-128 to 127 / 39 / 1V]
3-619-061	Bias:Spd Corr	Offset: Mid Spd: K	ENG*	[-128 to 127 / 39 / 1V]
3-619-062	Bias:Spd Corr	Offset: Mid Spd: C	ENG*	[-128 to 127 / 39 / 1V]
3-619-063	Bias:Spd Corr	Offset: Mid Spd: M	ENG*	[-128 to 127 / 39 / 1V]
3-619-064	Bias:Spd Corr	Offset: Mid Spd: Y	ENG*	[-128 to 127 / 39 / 1V]
3-619-071	Bias:Spd Corr	Offset: Low Spd: K	ENG*	[-128 to 127 / 39 / 1V]
3-619-072	Bias:Spd Corr	Offset: Low Spd: C	ENG*	[-128 to 127 / 39 / 1V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-619-073	Bias:Spd Corr	Offset: Low Spd: M	ENG*	[-128 to 127 / 39 / 1V]
3-619-074	Bias:Spd Corr	Offset: Low Spd: Y	ENG*	[-128 to 127 / 39 / 1V]
3-620-001	ProCon Target M/A	Maximum M/A:K	ENG*	[0.25 to 0.75 / 370 / 0.001mg/cm2]
3-620-002	ProCon Target M/A	Maximum M/A:C	ENG*	[0.25 to 0.75 / 400 / 0.001mg/cm2]
3-620-003	ProCon Target M/A	Maximum M/A:M	ENG*	[0.25 to 0.75 / 450 / 0.001mg/cm2]
3-620-004	ProCon Target M/A	Maximum M/A:Y	ENG*	[0.25 to 0.75 / 400 / 0.001mg/cm2]
3-622-001	Dev Pot :Set	Current:K	ENG*	[0 to 800 / 0 / 1V]
3-622-002	Dev Pot :Set	Current:C	ENG*	[0 to 800 / 0 / 1V]
3-622-003	Dev Pot :Set	Current:M	ENG*	[0 to 800 / 0 / 1V]
3-622-004	Dev Pot :Set	Current:Y	ENG*	[0 to 800 / 0 / 1V]
3-622-011	Dev Pot :Set	Current:F_K	ENG	[0 to 800 / 0 / 1V]
3-622-012	Dev Pot :Set	Current:F_C	ENG	[0 to 800 / 0 / 1V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-622-013	Dev Pot :Set	Current:F_M	ENG	[0 to 800 / 0 / 1V]
3-622-014	Dev Pot :Set	Current:F_Y	ENG	[0 to 800 / 0 / 1V]
3-622-021	Dev Pot :Set	Current:C_K	ENG	[0 to 800 / 0 / 1V]
3-622-022	Dev Pot :Set	Current:C_C	ENG	[0 to 800 / 0 / 1V]
3-622-023	Dev Pot :Set	Current:C_M	ENG	[0 to 800 / 0 / 1V]
3-622-024	Dev Pot :Set	Current:C_Y	ENG	[0 to 800 / 0 / 1V]
3-622-031	Dev Pot :Set	Current:R_K	ENG	[0 to 800 / 0 / 1V]
3-622-032	Dev Pot :Set	Current:R_C	ENG	[0 to 800 / 0 / 1V]
3-622-033	Dev Pot :Set	Current:R_M	ENG	[0 to 800 / 0 / 1V]
3-622-034	Dev Pot :Set	Current:R_Y	ENG	[0 to 800 / 0 / 1V]
3-622-051	Dev Pot :Set	UpperLimit	ENG*	[400 to 800 / 700 / 1V]
3-622-052	Dev Pot :Set	UpperLimit	ENG*	[400 to 800 / 700 / 1V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-622-053	Dev Pot :Set	UpperLimit	ENG*	[400 to 800 / 700 / 1V]
3-622-054	Dev Pot :Set	UpperLimit	ENG*	[400 to 800 / 700 / 1V]
3-622-061	Dev Pot :Set	LowerLimit	ENG*	[0 to 400 / 200 / 1V]
3-622-062	Dev Pot :Set	LowerLimit	ENG*	[0 to 400 / 200 / 1V]
3-622-063	Dev Pot :Set	LowerLimit	ENG*	[0 to 400 / 200 / 1V]
3-622-064	Dev Pot :Set	LowerLimit	ENG*	[0 to 400 / 200 / 1V]
3-622-101	Dev DC Spd Correct:Set	Target:K	ENG*	[0 to 800 / 0 / 1V]
3-622-102	Dev DC Spd Correct:Set	Target:C	ENG*	[0 to 800 / 0 / 1V]
3-622-103	Dev DC Spd Correct:Set	Target:M	ENG*	[0 to 800 / 0 / 1V]
3-622-104	Dev DC Spd Correct:Set	Target:Y	ENG*	[0 to 800 / 0 / 1V]
3-622-111	Dev DC Spd Correct:Set	Target Corr:K	ENG*	[-128 to 127 / 0 / 1]
3-622-112	Dev DC Spd Correct:Set	Target Corr:C	ENG*	[-128 to 127 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-622-113	Dev DC Spd Correct:Set	Target Corr:M	ENG*	[-128 to 127 / 0 / 1]
3-622-114	Dev DC Spd Correct:Set	Target Corr:Y	ENG*	[-128 to 127 / 0 / 1]
3-622-121	Dev DC Spd Correct:Set	Vk:Upper_K	ENG*	[0 to 255 / 30 / 1-V]
3-622-122	Dev DC Spd Correct:Set	Vk:Upper_Col	ENG*	[0 to 255 / 30 / 1-V]
3-622-123	Dev DC Spd Correct:Set	Vk:Lower_K	ENG*	[-128 to 0 / -90 / 1-V]
3-622-124	Dev DC Spd Correct:Set	Vk:Lower_Col	ENG*	[-128 to 0 / -60 / 1-V]
3-623-001	LD Power :Set	Std Speed Slope:K	ENG*	[-1000 to 1000 / 233 / 1]
3-623-002	LD Power :Set	Std Speed Slope:C	ENG*	[-1000 to 1000 / 233 / 1]
3-623-003	LD Power :Set	Std Speed Slope:M	ENG*	[-1000 to 1000 / 233 / 1]
3-623-004	LD Power :Set	Std Speed Slope:Y	ENG*	[-1000 to 1000 / 233 / 1]
3-623-011	LD Power :Set	Std Speed intercept:K	ENG*	[-1000 to 1000 / -18 / 1]
3-623-012	LD Power :Set	Std Speed intercept:C	ENG*	[-1000 to 1000 / -18 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-623-013	LD Power :Set	Std Speed intercept:M	ENG*	[-1000 to 1000 / -18 / 1]
3-623-014	LD Power :Set	Std Speed intercept:Y	ENG*	[-1000 to 1000 / -18 / 1]
3-623-021	LD Power :Set	Mid Speed Slope:K	ENG*	[-1000 to 1000 / 213 / 1]
3-623-022	LD Power :Set	Mid Speed Slope:C	ENG*	[-1000 to 1000 / 213 / 1]
3-623-023	LD Power :Set	Mid Speed Slope:M	ENG*	[-1000 to 1000 / 213 / 1]
3-623-024	LD Power :Set	Mid Speed Slope:Y	ENG*	[-1000 to 1000 / 213 / 1]
3-623-031	LD Power :Set	Mid Speed intercept:K	ENG*	[-1000 to 1000 / -15 / 1]
3-623-032	LD Power :Set	Mid Speed intercept:C	ENG*	[-1000 to 1000 / -15 / 1]
3-623-033	LD Power :Set	Mid Speed intercept:M	ENG*	[-1000 to 1000 / -15 / 1]
3-623-034	LD Power :Set	Mid Speed intercept:Y	ENG*	[-1000 to 1000 / -15 / 1]
3-623-041	LD Power :Set	Low Speed Slope:K	ENG*	[-1000 to 1000 / 204 / 1]
3-623-042	LD Power :Set	Low Speed Slope:C	ENG*	[-1000 to 1000 / 204 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-623-043	LD Power :Set	Low Speed Slope:M	ENG*	[-1000 to 1000 / 204 / 1]
3-623-044	LD Power :Set	Low Speed Slope:Y	ENG*	[-1000 to 1000 / 204 / 1]
3-623-051	LD Power :Set	Low Speed intercept:K	ENG*	[-1000 to 1000 / -15 / 1]
3-623-052	LD Power :Set	Low Speed intercept:C	ENG*	[-1000 to 1000 / -15 / 1]
3-623-053	LD Power :Set	Low Speed intercept:M	ENG*	[-1000 to 1000 / -15 / 1]
3-623-054	LD Power :Set	Low Speed intercept:Y	ENG*	[-1000 to 1000 / -15 / 1]
3-624-001	TC Adj. Mode	Target(Upp Limit)	ENG*	[0 to 1 / 15 / 0.01mg/cm2/-kV]
3-624-002	TC Adj. Mode	Target(Lwr Limit)	ENG*	[-1 to 0 / -12 / 0.01mg/cm2/-kV]
3-624-021	TC Adj. Mode	Consumption Pat: DUTY: K	ENG*	[0 to 15 / 15 / 1]
3-624-022	TC Adj. Mode	Consumption Pat: DUTY: C	ENG*	[0 to 15 / 15 / 1]
3-624-023	TC Adj. Mode	Consumption Pat: DUTY: M	ENG*	[0 to 15 / 15 / 1]
3-624-024	TC Adj. Mode	Consumption Pat: DUTY: Y	ENG*	[0 to 15 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-624-031	TC Adj. Mode	Max Counts:PowerON	ENG*	[0 to 10 / 1 / 1]
3-624-032	TC Adj. Mode	Max Counts:Job In	ENG*	[0 to 10 / 0 / 1]
3-624-033	TC Adj. Mode	Max Counts:Printing	ENG*	[0 to 10 / 0 / 1]
3-624-034	TC Adj. Mode	Max Counts:Job End	ENG*	[0 to 10 / 1 / 1]
3-624-035	TC Adj. Mode	Max Counts:ACC	ENG*	[0 to 10 / 2 / 1]
3-624-036	TC Adj. Mode	Max Counts:Initial Setting	ENG*	[0 to 10 / 3 / 1]
3-624-037	TC Adj. Mode	Max Counts:Replenishment	ENG*	[0 to 10 / 3 / 1]
3-624-038	TC Adj. Mode	Max Counts:Recovery	ENG*	[0 to 10 / 3 / 1]
3-624-071	TC Adj. Mode	AbsHumThresh(Upp)	ENG*	[0 to 100 / 1800 / 0.01g/m3]
3-624-072	TC Adj. Mode	AbsHumThresh(Low)	ENG*	[0 to 100 / 400 / 0.01g/m3]
3-624-073	TC Adj. Mode	AbsHumThresh(Range)	ENG*	[0 to 100 / 1200 / 0.01g/m3]
3-627-001	P Pattern Extraction :Set	Edge Detection Threshold :K	ENG*	[0 to 5 / 20 / 0.1V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-627-002	P Pattern Extraction :Set	Edge Detection Threshold :C	ENG*	[0 to 5 / 25 / 0.1V]
3-627-003	P Pattern Extraction :Set	Edge Detection Threshold :M	ENG*	[0 to 5 / 25 / 0.1V]
3-627-004	P Pattern Extraction :Set	Edge Detection Threshold :Y	ENG*	[0 to 5 / 25 / 0.1V]
3-627-011	P Pattern Extraction :Set	Edge Upper Limit:Potential Control	ENG*	[7 to 10 / 90 / 0.1mm]
3-627-012	P Pattern Extraction :Set	Edge Upper Limit:IBACC	ENG*	[10 to 13 / 120 / 0.1mm]
3-627-013	P Pattern Extraction :Set	Edge Upper Limit:RTP	ENG*	[5 to 8 / 70 / 0.1mm]
3-627-021	P Pattern Extraction :Set	Edge Lower Limit:Potential Control	ENG*	[4 to 7 / 50 / 0.1mm]
3-627-022	P Pattern Extraction :Set	Edge Lower Limit:IBACC	ENG*	[7 to 10 / 80 / 0.1mm]
3-627-023	P Pattern Extraction :Set	Edge Lower Limit:RTP	ENG*	[2 to 5 / 30 / 0.1mm]
3-628-001	ID Pattern Timing :Set	Scan: YCMK	ENG*	[-500 to 500 / 0 / 0.1mm]
3-628-002	ID Pattern Timing :Set	Detection Delay Time	ENG*	[0 to 2500 / 0 / 1msec]
3-628-003	ID Pattern Timing :Set	Delay Time	ENG*	[0 to 2500 / 778 / 1msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-628-004	ID Pattern Timing :Set	MUSIC Delay Time	ENG*	[0 to 2500 / 150 / 1msec]
3-630-001	Dev gamma :Disp/Set	Current:K	ENG*	[0.1 to 6 / 81 / 0.01mg/cm2/-kV]
3-630-002	Dev gamma :Disp/Set	Current:C	ENG*	[0.1 to 6 / 88 / 0.01mg/cm2/-kV]
3-630-003	Dev gamma :Disp/Set	Current:M	ENG*	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-004	Dev gamma :Disp/Set	Current:Y	ENG*	[0.1 to 6 / 88 / 0.01mg/cm2/-kV]
3-630-011	Dev gamma :Disp/Set	Target:K	ENG*	[0.5 to 2.55 / 81 / 0.01mg/cm2/-kV]
3-630-012	Dev gamma :Disp/Set	Target:C	ENG*	[0.5 to 2.55 / 88 / 0.01mg/cm2/-kV]
3-630-013	Dev gamma :Disp/Set	Target:M	ENG*	[0.5 to 2.55 / 80 / 0.01mg/cm2/-kV]
3-630-014	Dev gamma :Disp/Set	Target:Y	ENG*	[0.5 to 2.55 / 88 / 0.01mg/cm2/-kV]
3-630-061	Dev gamma :Disp/Set	TnrDensity:K	ENG*	[0 to 25.5 / 0 / 0.1wt%]
3-630-062	Dev gamma :Disp/Set	TnrDensity:C	ENG*	[0 to 25.5 / 0 / 0.1wt%]
3-630-063	Dev gamma :Disp/Set	TnrDensity:M	ENG*	[0 to 25.5 / 0 / 0.1wt%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-630-064	Dev gamma :Disp/Set	TnrDensity:Y	ENG*	[0 to 25.5 / 0 / 0.1wt%]
3-630-111	Dev gamma :Disp/Set	Current:F_K	ENG	[0.1 to 6 / 90 / 0.01mg/cm2/-kV]
3-630-112	Dev gamma :Disp/Set	Current:F_C	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-113	Dev gamma :Disp/Set	Current:F_M	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-114	Dev gamma :Disp/Set	Current:F_Y	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-121	Dev gamma :Disp/Set	Current:C_K	ENG	[0.1 to 6 / 90 / 0.01mg/cm2/-kV]
3-630-122	Dev gamma :Disp/Set	Current:C_C	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-123	Dev gamma :Disp/Set	Current:C_M	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-124	Dev gamma :Disp/Set	Current:C_Y	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-131	Dev gamma :Disp/Set	Current:R_K	ENG	[0.1 to 6 / 90 / 0.01mg/cm2/-kV]
3-630-132	Dev gamma :Disp/Set	Current:R_C	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-133	Dev gamma :Disp/Set	Current:R_M	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-630-134	Dev gamma :Disp/Set	Current:R_Y	ENG	[0.1 to 6 / 80 / 0.01mg/cm2/-kV]
3-630-141	Dev gamma :Disp/Set	Range M/A Upp:K	ENG*	[0.2 to 1 / 40 / 0.01mg/cm2]
3-630-142	Dev gamma :Disp/Set	Range M/A Low:K	ENG*	[0 to 0.2 / 5 / 0.01mg/cm2]
3-630-143	Dev gamma :Disp/Set	Range M/A Upp:Col	ENG*	[0.2 to 1 / 50 / 0.01mg/cm2]
3-630-144	Dev gamma :Disp/Set	Range M/A Low:Col	ENG*	[0 to 0.2 / 5 / 0.01mg/cm2]
3-631-001	Vk :Disp	Current:K	ENG*	[-300 to 300 / 0 / 1-V]
3-631-002	Vk :Disp	Current:C	ENG*	[-300 to 300 / 0 / 1-V]
3-631-003	Vk :Disp	Current:M	ENG*	[-300 to 300 / 0 / 1-V]
3-631-004	Vk :Disp	Current:Y	ENG*	[-300 to 300 / 0 / 1-V]
3-631-111	Vk :Disp	Current:F_K	ENG	[-300 to 300 / 0 / 1-V]
3-631-112	Vk :Disp	Current:F_C	ENG	[-300 to 300 / 0 / 1-V]
3-631-113	Vk :Disp	Current:F_M	ENG	[-300 to 300 / 0 / 1-V]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-631-114	Vk :Disp	Current:F_Y	ENG	[-300 to 300 / 0 / 1-V]
3-631-121	Vk :Disp	Current:C_K	ENG	[-300 to 300 / 0 / 1-V]
3-631-122	Vk :Disp	Current:C_C	ENG	[-300 to 300 / 0 / 1-V]
3-631-123	Vk :Disp	Current:C_M	ENG	[-300 to 300 / 0 / 1-V]
3-631-124	Vk :Disp	Current:C_Y	ENG	[-300 to 300 / 0 / 1-V]
3-631-131	Vk :Disp	Current:R_K	ENG	[-300 to 300 / 0 / 1-V]
3-631-132	Vk :Disp	Current:R_C	ENG	[-300 to 300 / 0 / 1-V]
3-631-133	Vk :Disp	Current:R_M	ENG	[-300 to 300 / 0 / 1-V]
3-631-134	Vk :Disp	Current:R_Y	ENG	[-300 to 300 / 0 / 1-V]
3-680-001	Shading Compensation	Plus Image Quantity: K	ENG*	[-20 to 16 / 0 / 1]
3-680-002	Shading Compensation	Plus Image Quantity: C	ENG*	[-20 to 16 / 0 / 1]
3-680-003	Shading Compensation	Plus Image Quantity: M	ENG*	[-20 to 16 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-680-004	Shading Compensation	Plus Image Quantity: Y	ENG*	[-20 to 16 / 0 / 1]
3-680-011	Shading Compensation	Minus Image Quantity: K	ENG*	[-20 to 16 / 0 / 1]
3-680-012	Shading Compensation	Minus Image Quantity: C	ENG*	[-20 to 16 / 0 / 1]
3-680-013	Shading Compensation	Minus Image Quantity: M	ENG*	[-20 to 16 / 0 / 1]
3-680-014	Shading Compensation	Minus Image Quantity: Y	ENG*	[-20 to 16 / 0 / 1]
3-700-001	New Unit Detection	ON/OFF Setting	ENG*	[0 to 1 / 1 / 1]
3-701-002	Manual New Unit Set	# PCU:K	ENG*	[0 to 1 / 0 / 1]
3-701-003	Manual New Unit Set	# Dev Unit:K	ENG*	[0 to 1 / 0 / 1]
3-701-025	Manual New Unit Set	# PCU:C	ENG*	[0 to 1 / 0 / 1]
3-701-026	Manual New Unit Set	# Dev Unit:C	ENG*	[0 to 1 / 0 / 1]
3-701-048	Manual New Unit Set	# PCU:M	ENG*	[0 to 1 / 0 / 1]
3-701-049	Manual New Unit Set	# Dev Unit:M	ENG*	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-701-071	Manual New Unit Set	# PCU:Y	ENG*	[0 to 1 / 0 / 1]
3-701-072	Manual New Unit Set	# Dev Unit:Y	ENG*	[0 to 1 / 0 / 1]
3-701-093	Manual New Unit Set	# ITB Unit	ENG*	[0 to 1 / 0 / 1]
3-701-102	Manual New Unit Set	# ITB Cleaning Unit	ENG*	[0 to 1 / 0 / 1]
3-701-109	Manual New Unit Set	# PTR Unit	ENG*	[0 to 1 / 0 / 1]
3-701-115	Manual New Unit Set	# Fusing Unit	ENG*	[0 to 1 / 0 / 1]
3-701-116	Manual New Unit Set	Fusing Belt	ENG*	[0 to 1 / 0 / 1]
3-701-118	Manual New Unit Set	Pressure Roller	ENG*	[0 to 1 / 0 / 1]
3-701-131	Manual New Unit Set	Dust Filter	ENG*	[0 to 1 / 0 / 1]
3-701-142	Manual New Unit Set	Waste Toner Bottle	ENG*	[0 to 1 / 0 / 1]
3-800-001	Waste Toner Full Detection	Condition	ENG*	[0 to 4 / 0 / 1]
3-800-002	Waste Toner Full Detection	Page Count 1 After Near Full	ENG*	[0 to 1000000 / 0 / 1sheet]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-800-003	Waste Toner Full Detection	Volume Count 1 After Near Full	ENG*	[0 to 10000000 / 0 / 0.1mg]
3-800-004	Waste Toner Full Detection	Volume Count 1 After Replacement	ENG*	[0 to 10000000 / 0 / 0.1mg]
3-800-005	Waste Toner Full Detection	Volume Count 2 After Replacement	ENG*	[0 to 10000000 / 0 / 0.1mg]
3-800-006	Waste Toner Full Detection	Page Count 2 After Near Full	ENG*	[0 to 1000000 / 0 / 1sheet]
3-800-007	Waste Toner Full Detection	Volume Count 2 After Near Full	ENG*	[0 to 10000000 / 0 / 0.1mg]
3-800-014	Waste Toner Full Detection	Threshold : Remainder days	ENG*	[1 to 255 / 5 / 1day]
3-800-024	Waste Toner Full Detection	Date of detection for near full	ENG*	[0 to 1 / 0 / 1]
3-905-001	Recycled Parts: New/Old Flag	OPC:K	ENG*	[0 to 1 / 0 / 1]
3-905-002	Recycled Parts: New/Old Flag	OPC:C	ENG*	[0 to 1 / 0 / 1]
3-905-003	Recycled Parts: New/Old Flag	OPC:M	ENG*	[0 to 1 / 0 / 1]
3-905-004	Recycled Parts: New/Old Flag	OPC:Y	ENG*	[0 to 1 / 0 / 1]
3-990-001	Abs Temp.:Get Charge Load	Temperature: Display	ENG*	[0 to 70 / 0 / 0.1deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-990-002	Abs Humidity:Get Charge Load	Abs Humidity: Display	ENG*	[0 to 100 / 0 / 0.01g/m3]

Engine SP4-XXX (IBACC)

SP4-201 to SP4-905

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-201-001	LoCPP edge lv:K	600dpi 2bit edge1	ENG*	[0 to 15 / 11 / 1]
4-201-002	LoCPP edge lv:K	600dpi 2bit edge2	ENG*	[0 to 15 / 11 / 1]
4-201-003	LoCPP edge lv:K	600dpi 4bit edge1	ENG*	[0 to 15 / 11 / 1]
4-201-004	LoCPP edge lv:K	600dpi 4bit edge2	ENG*	[0 to 15 / 11 / 1]
4-201-005	LoCPP edge lv:K	600dpi 1bit edge1	ENG*	[0 to 15 / 15 / 1]
4-201-006	LoCPP edge lv:K	600dpi 1bit edge2	ENG*	[0 to 15 / 15 / 1]
4-201-011	LoCPP edge lv:K	1200dpi1bit edge12	ENG*	[0 to 15 / 12 / 1]
4-201-012	LoCPP edge lv:K	1200dpi1bit edge34	ENG*	[0 to 15 / 12 / 1]
4-201-013	LoCPP edge lv:K	1200dpi2bit edge12	ENG*	[0 to 15 / 15 / 1]
4-201-014	LoCPP edge lv:K	1200dpi2bit edge34	ENG*	[0 to 15 / 15 / 1]
4-202-001	LoCPP edge lv:C	600dpi 2bit edge1	ENG*	[0 to 15 / 15 / 1]
4-202-002	LoCPP edge lv:C	600dpi 2bit edge2	ENG*	[0 to 15 / 15 / 1]
4-202-003	LoCPP edge lv:C	600dpi 4bit edge1	ENG*	[0 to 15 / 15 / 1]
4-202-004	LoCPP edge lv:C	600dpi 4bit edge2	ENG*	[0 to 15 / 15 / 1]
4-202-005	LoCPP edge lv:C	600dpi 1bit edge1	ENG*	[0 to 15 / 15 / 1]
4-202-006	LoCPP edge lv:C	600dpi 1bit edge2	ENG*	[0 to 15 / 15 / 1]
4-202-011	LoCPP edge lv:C	1200dpi1bit edge12	ENG*	[0 to 15 / 15 / 1]
4-202-012	LoCPP edge lv:C	1200dpi1bit edge34	ENG*	[0 to 15 / 15 / 1]
4-202-013	LoCPP edge lv:C	1200dpi2bit edge12	ENG*	[0 to 15 / 15 / 1]
4-202-014	LoCPP edge lv:C	1200dpi2bit edge34	ENG*	[0 to 15 / 15 / 1]
4-203-001	LoCPP edge lv:M	600dpi 2bit edge1	ENG*	[0 to 15 / 15 / 1]
4-203-002	LoCPP edge lv:M	600dpi 2bit edge2	ENG*	[0 to 15 / 15 / 1]
4-203-003	LoCPP edge lv:M	600dpi 4bit edge1	ENG*	[0 to 15 / 15 / 1]
4-203-004	LoCPP edge lv:M	600dpi 4bit edge2	ENG*	[0 to 15 / 15 / 1]
4-203-005	LoCPP edge lv:M	600dpi 1bit edge1	ENG*	[0 to 15 / 15 / 1]
4-203-006	LoCPP edge lv:M	600dpi 1bit edge2	ENG*	[0 to 15 / 15 / 1]
4-203-011	LoCPP edge lv:M	1200dpi 1bit edge12	ENG*	[0 to 15 / 15 / 1]
4-203-012	LoCPP edge lv:M	1200dpi 1bit edge34	ENG*	[0 to 15 / 15 / 1]
4-203-013	LoCPP edge lv:M	1200dpi 2bit edge12	ENG*	[0 to 15 / 15 / 1]
4-203-014	LoCPP edge lv:M	1200dpi 2bit edge34	ENG*	[0 to 15 / 15 / 1]
4-204-001	LoCPP edge lv:Y	600dpi 2bit edge1	ENG*	[0 to 15 / 15 / 1]
4-204-002	LoCPP edge lv:Y	600dpi 2bit edge2	ENG*	[0 to 15 / 15 / 1]
4-204-003	LoCPP edge lv:Y	600dpi 4bit edge1	ENG*	[0 to 15 / 15 / 1]
4-204-004	LoCPP edge lv:Y	600dpi 4bit edge2	ENG*	[0 to 15 / 15 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-204-005	LoCPP edge lv:Y	600dpi 1bit edge1	ENG*	[0 to 15 / 15 / 1]
4-204-006	LoCPP edge lv:Y	600dpi 1bit edge2	ENG*	[0 to 15 / 15 / 1]
4-204-011	LoCPP edge lv:Y	1200dpi 1bit edge12	ENG*	[0 to 15 / 15 / 1]
4-204-012	LoCPP edge lv:Y	1200dpi 1bit edge34	ENG*	[0 to 15 / 15 / 1]
4-204-013	LoCPP edge lv:Y	1200dpi 2bit edge12	ENG*	[0 to 15 / 15 / 1]
4-204-014	LoCPP edge lv:Y	1200dpi 2bit edge34	ENG*	[0 to 15 / 15 / 1]
4-417-001	IPU Test Pattern	Test Pattern	ENG	[0 to 8 / 0 / 1] 0:Scanned image 1:Gradation main scan A 2:Patch 16C 3:Grid pattern A 4:Slant grid pattern B 5:Slant grid pattern C 6:Slant grid pattern D 7:Scanned+Slant Grid C 8:Scanned+Slant Grid D
4-520-001	IBACC:DetectedValue	Latest:K_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-002	IBACC:DetectedValue	Latest:K_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-003	IBACC:DetectedValue	Latest:K_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-004	IBACC:DetectedValue	Latest:K_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-005	IBACC:DetectedValue	Latest:K_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-006	IBACC:DetectedValue	Latest:K_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-007	IBACC:DetectedValue	Latest:K_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-008	IBACC:DetectedValue	Latest:K_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-021	IBACC:DetectedValue	Latest:C_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-022	IBACC:DetectedValue	Latest:C_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-023	IBACC:DetectedValue	Latest:C_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-024	IBACC:DetectedValue	Latest:C_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-025	IBACC:DetectedValue	Latest:C_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-026	IBACC:DetectedValue	Latest:C_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-027	IBACC:DetectedValue	Latest:C_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-028	IBACC:DetectedValue	Latest:C_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-041	IBACC:DetectedValue	Latest:M_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-042	IBACC:DetectedValue	Latest:M_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-043	IBACC:DetectedValue	Latest:M_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-044	IBACC:DetectedValue	Latest:M_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-045	IBACC:DetectedValue	Latest:M_P5	ENG*	[0 to 1023 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-520-046	IBACC:DetectedValue	Latest:M_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-047	IBACC:DetectedValue	Latest:M_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-048	IBACC:DetectedValue	Latest:M_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-061	IBACC:DetectedValue	Latest:Y_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-062	IBACC:DetectedValue	Latest:Y_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-063	IBACC:DetectedValue	Latest:Y_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-064	IBACC:DetectedValue	Latest:Y_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-065	IBACC:DetectedValue	Latest:Y_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-066	IBACC:DetectedValue	Latest:Y_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-067	IBACC:DetectedValue	Latest:Y_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-068	IBACC:DetectedValue	Latest:Y_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-101	IBACC:DetectedValue	Previous:K_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-102	IBACC:DetectedValue	Previous:K_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-103	IBACC:DetectedValue	Previous:K_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-104	IBACC:DetectedValue	Previous:K_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-105	IBACC:DetectedValue	Previous:K_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-106	IBACC:DetectedValue	Previous:K_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-107	IBACC:DetectedValue	Previous:K_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-108	IBACC:DetectedValue	Previous:K_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-121	IBACC:DetectedValue	Previous:C_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-122	IBACC:DetectedValue	Previous:C_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-123	IBACC:DetectedValue	Previous:C_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-124	IBACC:DetectedValue	Previous:C_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-125	IBACC:DetectedValue	Previous:C_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-126	IBACC:DetectedValue	Previous:C_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-127	IBACC:DetectedValue	Previous:C_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-128	IBACC:DetectedValue	Previous:C_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-141	IBACC:DetectedValue	Previous:M_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-142	IBACC:DetectedValue	Previous:M_P2	ENG*	[0 to 1023 / 0 / 1]
4-520-143	IBACC:DetectedValue	Previous:M_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-144	IBACC:DetectedValue	Previous:M_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-145	IBACC:DetectedValue	Previous:M_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-146	IBACC:DetectedValue	Previous:M_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-147	IBACC:DetectedValue	Previous:M_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-148	IBACC:DetectedValue	Previous:M_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-161	IBACC:DetectedValue	Previous:Y_P1	ENG*	[0 to 1023 / 0 / 1]
4-520-162	IBACC:DetectedValue	Previous:Y_P2	ENG*	[0 to 1023 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-520-163	IBACC:DetectedValue	Previous:Y_P3	ENG*	[0 to 1023 / 0 / 1]
4-520-164	IBACC:DetectedValue	Previous:Y_P4	ENG*	[0 to 1023 / 0 / 1]
4-520-165	IBACC:DetectedValue	Previous:Y_P5	ENG*	[0 to 1023 / 0 / 1]
4-520-166	IBACC:DetectedValue	Previous:Y_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-167	IBACC:DetectedValue	Previous:Y_P6	ENG*	[0 to 1023 / 0 / 1]
4-520-168	IBACC:DetectedValue	Previous:Y_P6	ENG*	[0 to 1023 / 0 / 1]
4-905-001	Select Gradation Level		ENG*	[0 to 255 / 0 / 1]

Engine SP5-XXX (Mode)

SP5-131 to 5-998

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-131-001	Paper Size Type Selection		ENG*	[0 to 2 / * / 1] *SP C840DN (NA/TWN): 1 *SP C840DN (EU/AP/CHN): 2 *SP C842DN (NA/TWN): 1 *SP C842DN (EU/AP/CHN): 2 0:JP 1:NA 2:EU
5-135-001	LG_Oficio Change		ENG*	[0 to 1 / 0 / 1]
5-181-001	Size Adjust	TRAY 1	ENG*	[0 to 3 / 0 / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0:A4LEF 1:8.5"x11" LEF 2:B5LEF 3:A5LEF
5-181-002	Size Adjust	TRAY 2: 1	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 1:A4LEF 2:8.5"x11" LEF
5-181-003	Size Adjust	TRAY 2: 2	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				(EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0:A3 1:11"x17"
5-181-004	Size Adjust	TRAY 2: 3	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: B4 1: 8.5"x14" SEF
5-181-005	Size Adjust	TRAY 2: 4	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: B5LEF 1: 7.25"x10.5"LEF
5-181-006	Size Adjust	TRAY 2: 5	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: SRA3 1: 12X18
5-181-007	Size Adjust	TRAY 3/T-LCT: 1	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				*SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A4LEF 1: LTLEF
5-181-008	Size Adjust	TRAY 3: 2	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A3 1: DLT
5-181-009	Size Adjust	TRAY 3: 3	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: B4 1: LG
5-181-010	Size Adjust	TRAY 3: 4	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: B5LEF 1: ExeLEF
5-181-011	Size Adjust	TRAY 3: 5	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				*SP C842DN (EU/AP/CHN/TWN): 0 0: 12.6X17.7 1: 12X18
5-181-012	Size Adjust	TRAY 4: 1	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A4LEF 1: LTLEF
5-181-013	Size Adjust	TRAY 4: 2	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A3 1: DLT
5-181-014	Size Adjust	TRAY 4: 3	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: B4 1: LG
5-181-015	Size Adjust	TRAY 4: 4	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				(EU/AP/CHN/TWN): 0 0: B5LEF 1: ExeLEF
5-181-016	Size Adjust	TRAY 4: 5	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: 12.6X17.7 1: 12X18
5-181-017	Size Adjust	TRAY 5: 1	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A4LEF 1: LTLEF
5-181-018	Size Adjust	TRAY 5: 2	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A3 1: DLT
5-181-019	Size Adjust	TRAY 5: 3	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				0: B4 1: LG
5-181-020	Size Adjust	TRAY 5: 4	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: B5LEF 1: ExeLEF
5-181-021	Size Adjust	TRAY 5: 5	ENG*	[0 to 1 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: 12.6X17.7 1: 12X18
5-181-022	Size Adjust	LCT	ENG*	[0 to 2 / * / 1] *SP C840DN (NA): 1 *SP C840DN (EU/AP/CHN/TWN): 0 *SP C842DN (NA): 1 *SP C842DN (EU/AP/CHN/TWN): 0 0: A4LEF 1: LTLEF 2: B5LEF
5-186-001	RK4		ENG*	[0 to 1 / 0 / 1]
5-610-004	Base Gamma Ctrl Pt:Execute	Get Factory Default	ENG	[0 to 1 / 0 / 1]
5-610-005	Base Gamma Ctrl Pt:Execute	Set Factory Default	ENG	[0 to 1 / 0 / 1]
5-610-	Base Gamma Ctrl	Restore Orginal Value	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
006	Pt:Execute			
5-801-002	Memory Clear	Engine	ENG	[0 to 1 / 0 / 1]
5-805-001	Anti-Condensation Heater	0:OFF / 1:ON	ENG*	[0 to 1 / 0 / 1]
5-810-001	SC Reset	Fusing SC Reset	ENG	[0 to 1 / 0 / 1]
5-810-002	SC Reset	Hard High Temp. Detection	ENG	[0 to 1 / 0 / 1]
5-811-002	MachineSerial	Display	ENG*	[0 to 255 / 0 / 1]
5-811-004	MachineSerial Set	BCU	ENG	[0 to 255 / 0 / 1]
5-811-021	Machine Serial: Update Date	Latest	ENG*	[0 to 1 / 0 / 1]
5-811-022	Machine Serial: Update Date	Previous	ENG*	[0 to 1 / 0 / 1]
5-811-023	Machine Serial	Previous	ENG*	[0 to 255 / 0 / 1]
5-811-024	Machine Serial: Update Date	Latest (BCU)	ENG*	[0 to 1 / 0 / 1]
5-811-025	Machine Serial: Update Date	Previous (BCU)	ENG*	[0 to 1 / 0 / 1]
5-811-026	Machine Serial	Previous (BCU)	ENG*	[0 to 255 / 0 / 1]
5-894-001	External Mech Count Setting	Mech Counter Switch Setting	ENG*	[0 to 2 / 0 / 1]
5-900-001	Engine Log Upload	Pattern	ENG*	[0 to 4 / 0 / 1]
5-900-002	Engine Log Upload	Trigger	ENG*	[0 to 3 / 0 / 1]
5-930-001	MeterClick Ch.	MeterClick Ch.	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
5-930-010	MeterClick Ch.	PCU	ENG*	[0 to 1 / 0 / 1] 0: OFF

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				1: ON
5-930-014	MeterClick Ch.	Mid Trans Unit	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
5-930-016	MeterClick Ch.	Fusing Unit	ENG*	[0 to 1 / 0 / 1] 0: OFF 1: ON
5-998-001	Fusing Warm UP	Warm Up In Advance ON/OFF	ENG*	[0 to 1 / 1 / 1] 0: Silent 1: Fast

Engine SP6-XXX (Peripherals)

SP6-100 to SP6-327

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-100-001	Sub-scanPunchPosAdj:2K/3K FIN	JPN/EU: 2-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-100-002	Sub-scanPunchPosAdj:2K/3K FIN	NA: 3-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-100-003	Sub-scanPunchPosAdj:2K/3K FIN	Europe: 4-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-100-004	Sub-scanPunchPosAdj:2K/3K FIN	NEU: 4-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-100-005	Sub-scanPunchPosAdj:2K/3K FIN	NA: 2-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-100-006	Sub-scanPunchPosAdj:2K/3K FIN	JPN: 1-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-101-001	Main-scanPunchPosAdj:2K/3K FIN	JPN/EU: 2-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-101-002	Main-scanPunchPosAdj:2K/3K FIN	NA: 3-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-101-003	Main-scanPunchPosAdj:2K/3K FIN	Europe: 4-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-101-004	Main-scanPunchPosAdj:2K/3K FIN	NEU: 4-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-101-005	Main-scanPunchPosAdj:2K/3K FIN	NA: 2-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-101-006	Main-scanPunchPosAdj:2K/3K FIN	JPN:1-1Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-102-001	SkewCorrectBuckleAdj:2K/3K FIN	A3 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-002	SkewCorrectBuckleAdj:2K/3K FIN	B4 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-003	SkewCorrectBuckleAdj:2K/3K FIN	A4 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-004	SkewCorrectBuckleAdj:2K/3K FIN	A4 LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-	SkewCorrectBuckleAdj:2K/3K FIN	B5 SEF	ENG	[-10 to 5 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				0.2mm]
6-102-006	SkewCorrectBuckleAdj:2K/3K FIN	B5 LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-007	SkewCorrectBuckleAdj:2K/3K FIN	A5 LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-008	SkewCorrectBuckleAdj:2K/3K FIN	DLT SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-009	SkewCorrectBuckleAdj:2K/3K FIN	LG SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-010	SkewCorrectBuckleAdj:2K/3K FIN	Oficio SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-011	SkewCorrectBuckleAdj:2K/3K FIN	LT SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-012	SkewCorrectBuckleAdj:2K/3K FIN	LT LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-013	SkewCorrectBuckleAdj:2K/3K FIN	HLT LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-014	SkewCorrectBuckleAdj:2K/3K FIN	12"x18"	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-015	SkewCorrectBuckleAdj:2K/3K FIN	8K SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-016	SkewCorrectBuckleAdj:2K/3K FIN	16K SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-017	SkewCorrectBuckleAdj:2K/3K FIN	16K LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-102-018	SkewCorrectBuckleAdj:2K/3K FIN	Other	ENG	[-10 to 5 / 0 / 0.2mm]
6-103-001	SkewCorrectCtrlSW:2K/3K FIN	A3 SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-002	SkewCorrectCtrlSW:2K/3K FIN	B4 SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-	SkewCorrectCtrlSW:2K/3K FIN	A4 SEF	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				0: With Buckle Adj 1: Without Buckle Adj
6-103-004	SkewCorrectCtrlSW:2K/3K FIN	A4 LEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-005	SkewCorrectCtrlSW:2K/3K FIN	B5 SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-006	SkewCorrectCtrlSW:2K/3K FIN	B5 LEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-007	SkewCorrectCtrlSW:2K/3K FIN	A5 LEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-008	SkewCorrectCtrlSW:2K/3K FIN	DLT SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-009	SkewCorrectCtrlSW:2K/3K FIN	LG SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-010	SkewCorrectCtrlSW:2K/3K FIN	Oficio SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-011	SkewCorrectCtrlSW:2K/3K FIN	LT SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-012	SkewCorrectCtrlSW:2K/3K FIN	LT LEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				1: Without Buckle Adj
6-103-013	SkewCorrectCtrlSW:2K/3K FIN	HLT LEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-014	SkewCorrectCtrlSW:2K/3K FIN	12"x18"	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-015	SkewCorrectCtrlSW:2K/3K FIN	8K SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-016	SkewCorrectCtrlSW:2K/3K FIN	16K SEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-017	SkewCorrectCtrlSW:2K/3K FIN	16K LEF	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-103-018	SkewCorrectCtrlSW:2K/3K FIN	Other	ENG	[0 to 1 / 0 / 1] 0: With Buckle Adj 1: Without Buckle Adj
6-104-001	ShiftTrayJogPosAdj:2K/3K FIN	A3 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-002	ShiftTrayJogPosAdj:2K/3K FIN	B4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-003	ShiftTrayJogPosAdj:2K/3K FIN	A4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-004	ShiftTrayJogPosAdj:2K/3K FIN	A4 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-005	ShiftTrayJogPosAdj:2K/3K FIN	B5 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-104-006	ShiftTrayJogPosAdj:2K/3K FIN	A5 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-007	ShiftTrayJogPosAdj:2K/3K FIN	DLT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-008	ShiftTrayJogPosAdj:2K/3K FIN	LG SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-009	ShiftTrayJogPosAdj:2K/3K FIN	Oficio SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-010	ShiftTrayJogPosAdj:2K/3K FIN	LT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-011	ShiftTrayJogPosAdj:2K/3K FIN	LT LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-012	ShiftTrayJogPosAdj:2K/3K FIN	HLT LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-013	ShiftTrayJogPosAdj:2K/3K FIN	8K SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-014	ShiftTrayJogPosAdj:2K/3K FIN	16K LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-104-015	ShiftTrayJogPosAdj:2K/3K FIN	Other	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-105-001	ShftTJogRtrctAngAdj:2K/3K FIN	A3 SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-002	ShftTJogRtrctAngAdj:2K/3K FIN	B4 SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-003	ShftTJogRtrctAngAdj:2K/3K FIN	A4 SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-004	ShftTJogRtrctAngAdj:2K/3K FIN	DLT SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-005	ShftTJogRtrctAngAdj:2K/3K FIN	LG SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-006	ShftTJogRtrctAngAdj:2K/3K FIN	Oficio SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-007	ShftTJogRtrctAngAdj:2K/3K FIN	LT SEF	ENG	[-10 to 10 / 0 / 5deg]
6-105-008	ShftTJogRtrctAngAdj:2K/3K FIN	8K SEF	ENG	[-10 to 10 / 0 / 5deg]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-105-009	ShftTJogRtrctAngAdj:2K/3K FIN	Other	ENG	[-10 to 10 / 0 / 5deg]
6-106-001	Use Paper Jogger: 2K/3K FIN	A3 SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-002	Use Paper Jogger: 2K/3K FIN	B4 SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-003	Use Paper Jogger: 2K/3K FIN	A4 SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-004	Use Paper Jogger: 2K/3K FIN	A4 LEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-005	Use Paper Jogger: 2K/3K FIN	B5 LEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-006	Use Paper Jogger: 2K/3K FIN	A5 LEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-007	Use Paper Jogger: 2K/3K FIN	DLT SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-008	Use Paper Jogger: 2K/3K FIN	LG SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-009	Use Paper Jogger: 2K/3K FIN	Oficio SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-010	Use Paper Jogger: 2K/3K FIN	LT SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-011	Use Paper Jogger: 2K/3K FIN	LT LEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-	Use Paper Jogger: 2K/3K FIN	HLT LEF	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				0: Jogging On 1: Jogging Off
6-106-013	Use Paper Jogger: 2K/3K FIN	8K SEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-014	Use Paper Jogger: 2K/3K FIN	16K LEF	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-106-015	Use Paper Jogger: 2K/3K FIN	Other	ENG	[0 to 1 / 0 / 1] 0: Jogging On 1: Jogging Off
6-107-001	JogPosAdj(CrnrStplr):2K/3K FIN	A3 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-002	JogPosAdj(CrnrStplr):2K/3K FIN	B4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-003	JogPosAdj(CrnrStplr):2K/3K FIN	A4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-004	JogPosAdj(CrnrStplr):2K/3K FIN	A4 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-005	JogPosAdj(CrnrStplr):2K/3K FIN	B5 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-006	JogPosAdj(CrnrStplr):2K/3K FIN	B5 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-007	JogPosAdj(CrnrStplr):2K/3K FIN	DLT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-008	JogPosAdj(CrnrStplr):2K/3K FIN	LG SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-009	JogPosAdj(CrnrStplr):2K/3K FIN	Oficio SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-010	JogPosAdj(CrnrStplr):2K/3K FIN	LT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-011	JogPosAdj(CrnrStplr):2K/3K FIN	LT LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-012	JogPosAdj(CrnrStplr):2K/3K FIN	8K SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-	JogPosAdj(CrnrStplr):2K/3K FIN	16K SEF	ENG	[-7.5 to 1.5 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				0.5mm]
6-107-014	JogPosAdj(CrnrStplr):2K/3K FIN	16K LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-107-015	JogPosAdj(CrnrStplr):2K/3K FIN	Other	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-001	JogPosAdj(BookStplr):2K/3K FIN	A3 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-002	JogPosAdj(BookStplr):2K/3K FIN	B4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-003	JogPosAdj(BookStplr):2K/3K FIN	A4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-004	JogPosAdj(BookStplr):2K/3K FIN	B5 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-005	JogPosAdj(BookStplr):2K/3K FIN	DLT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-006	JogPosAdj(BookStplr):2K/3K FIN	LG SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-007	JogPosAdj(BookStplr):2K/3K FIN	Oficio SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-008	JogPosAdj(BookStplr):2K/3K FIN	LT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-009	JogPosAdj(BookStplr):2K/3K FIN	12"x18"	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-010	JogPosAdj(BookStplr):2K/3K FIN	8K SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-108-011	JogPosAdj(BookStplr):2K/3K FIN	Other	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-109-001	CrnrStplrJogTimeAdj:2K/3K FIN	A3 SEF	ENG	[0 to 2 / 0 / 1times]
6-109-002	CrnrStplrJogTimeAdj:2K/3K FIN	B4 SEF	ENG	[0 to 2 / 0 / 1times]
6-109-003	CrnrStplrJogTimeAdj:2K/3K FIN	A4 SEF	ENG	[0 to 2 / 0 / 1times]
6-109-004	CrnrStplrJogTimeAdj:2K/3K FIN	A4 LEF	ENG	[0 to 2 / 0 / 1times]
6-109-	CrnrStplrJogTimeAdj:2K/3K FIN	B5 SEF	ENG	[0 to 2 / 0 / 1times]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
6-109-006	CrnrStplrJogTimeAdj:2K/3K FIN	B5 LEF	ENG	[0 to 2 / 0 / 1times]
6-109-007	CrnrStplrJogTimeAdj:2K/3K FIN	DLT SEF	ENG	[0 to 2 / 0 / 1times]
6-109-008	CrnrStplrJogTimeAdj:2K/3K FIN	LG SEF	ENG	[0 to 2 / 0 / 1times]
6-109-009	CrnrStplrJogTimeAdj:2K/3K FIN	Oficio SEF	ENG	[0 to 2 / 0 / 1times]
6-109-010	CrnrStplrJogTimeAdj:2K/3K FIN	LT SEF	ENG	[0 to 2 / 0 / 1times]
6-109-011	CrnrStplrJogTimeAdj:2K/3K FIN	LT LEF	ENG	[0 to 2 / 0 / 1times]
6-109-012	CrnrStplrJogTimeAdj:2K/3K FIN	8K SEF	ENG	[0 to 2 / 0 / 1times]
6-109-013	CrnrStplrJogTimeAdj:2K/3K FIN	16K SEF	ENG	[0 to 2 / 0 / 1times]
6-109-014	CrnrStplrJogTimeAdj:2K/3K FIN	16K LEF	ENG	[0 to 2 / 0 / 1times]
6-109-015	CrnrStplrJogTimeAdj:2K/3K FIN	Other	ENG	[0 to 2 / 0 / 1times]
6-110-001	BookStplrJogTimeAdj:2K/3K FIN	A3 SEF	ENG	[0 to 2 / 0 / 1times]
6-110-002	BookStplrJogTimeAdj:2K/3K FIN	B4 SEF	ENG	[0 to 2 / 0 / 1times]
6-110-003	BookStplrJogTimeAdj:2K/3K FIN	A4 SEF	ENG	[0 to 2 / 0 / 1times]
6-110-004	BookStplrJogTimeAdj:2K/3K FIN	B5 SEF	ENG	[0 to 2 / 0 / 1times]
6-110-005	BookStplrJogTimeAdj:2K/3K FIN	DLT SEF	ENG	[0 to 2 / 0 / 1times]
6-110-006	BookStplrJogTimeAdj:2K/3K FIN	LG SEF	ENG	[0 to 2 / 0 / 1times]
6-110-007	BookStplrJogTimeAdj:2K/3K FIN	Oficio SEF	ENG	[0 to 2 / 0 / 1times]
6-110-	BookStplrJogTimeAdj:2K/3K FIN	LT SEF	ENG	[0 to 2 / 0 / 1times]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
008				
6-110-009	BookStplrJogTimeAdj:2K/3K FIN	12"x18"	ENG	[0 to 2 / 0 / 1times]
6-110-010	BookStplrJogTimeAdj:2K/3K FIN	8K SEF	ENG	[0 to 2 / 0 / 1times]
6-110-011	BookStplrJogTimeAdj:2K/3K FIN	Other	ENG	[0 to 2 / 0 / 1times]
6-111-001	Staple Position Adj: 2K/3K FIN	A3 SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-002	Staple Position Adj: 2K/3K FIN	B4 SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-003	Staple Position Adj: 2K/3K FIN	A4 SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-004	Staple Position Adj: 2K/3K FIN	A4 LEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-005	Staple Position Adj: 2K/3K FIN	B5 SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-006	Staple Position Adj: 2K/3K FIN	B5 LEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-007	Staple Position Adj: 2K/3K FIN	DLT SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-008	Staple Position Adj: 2K/3K FIN	LG SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-009	Staple Position Adj: 2K/3K FIN	Oficio SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-010	Staple Position Adj: 2K/3K FIN	LT SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-011	Staple Position Adj: 2K/3K FIN	LT LEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-012	Staple Position Adj: 2K/3K FIN	8K SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-013	Staple Position Adj: 2K/3K FIN	16K SEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-014	Staple Position Adj: 2K/3K FIN	16K LEF	ENG	[-17.5 to 3.5 / 0 / 0.5mm]
6-111-	Staple Position Adj: 2K/3K FIN	Other	ENG	[-17.5 to 3.5 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
015				0.5mm]
6-112-001	BookletStaplerPosAdj:2K/3K FIN	A3 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-002	BookletStaplerPosAdj:2K/3K FIN	B4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-003	BookletStaplerPosAdj:2K/3K FIN	A4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-004	BookletStaplerPosAdj:2K/3K FIN	B5 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-005	BookletStaplerPosAdj:2K/3K FIN	DLT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-006	BookletStaplerPosAdj:2K/3K FIN	LG SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-007	BookletStaplerPosAdj:2K/3K FIN	Oficio SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-008	BookletStaplerPosAdj:2K/3K FIN	LT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-009	BookletStaplerPosAdj:2K/3K FIN	12"x18"	ENG	[-3.6 to 1.8 / 0 / 0.2mm]
6-112-010	BookletStaplerPosAdj:2K/3K FIN	8K SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-112-011	BookletStaplerPosAdj:2K/3K FIN	Other	ENG	[-3.6 to 1.8 / 0 / 0.2mm]
6-113-001	BookletFolderPosAdj:2K/3K FIN	A3 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-002	BookletFolderPosAdj:2K/3K FIN	B4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-003	BookletFolderPosAdj:2K/3K FIN	A4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-004	BookletFolderPosAdj:2K/3K FIN	B5 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-005	BookletFolderPosAdj:2K/3K FIN	DLT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-006	BookletFolderPosAdj:2K/3K FIN	LG SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-	BookletFolderPosAdj:2K/3K FIN	Oficio SEF	ENG	[-6 to 3 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
007				
6-113-008	BookletFolderPosAdj:2K/3K FIN	LT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-009	BookletFolderPosAdj:2K/3K FIN	12"x18"	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-010	BookletFolderPosAdj:2K/3K FIN	8K SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-011	BookletFolderPosAdj:2K/3K FIN	Other	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-012	BookletFolderPosAdj:2K/3K FIN	A3 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-013	BookletFolderPosAdj:2K/3K FIN	A3 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-014	BookletFolderPosAdj:2K/3K FIN	A3 SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-015	BookletFolderPosAdj:2K/3K FIN	A3 SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-016	BookletFolderPosAdj:2K/3K FIN	B4 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-017	BookletFolderPosAdj:2K/3K FIN	B4 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-018	BookletFolderPosAdj:2K/3K FIN	B4 SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-019	BookletFolderPosAdj:2K/3K FIN	B4 SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-020	BookletFolderPosAdj:2K/3K FIN	A4 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-021	BookletFolderPosAdj:2K/3K FIN	A4 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-022	BookletFolderPosAdj:2K/3K FIN	A4 SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-023	BookletFolderPosAdj:2K/3K FIN	A4 SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-024	BookletFolderPosAdj:2K/3K FIN	B5 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-	BookletFolderPosAdj:2K/3K FIN	B5 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
025				
6-113-026	BookletFolderPosAdj:2K/3K FIN	B5 SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-027	BookletFolderPosAdj:2K/3K FIN	B5 SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-028	BookletFolderPosAdj:2K/3K FIN	DLT SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-029	BookletFolderPosAdj:2K/3K FIN	DLT SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-030	BookletFolderPosAdj:2K/3K FIN	DLT SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-031	BookletFolderPosAdj:2K/3K FIN	DLT SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-032	BookletFolderPosAdj:2K/3K FIN	LG SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-033	BookletFolderPosAdj:2K/3K FIN	LG SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-034	BookletFolderPosAdj:2K/3K FIN	LG SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-035	BookletFolderPosAdj:2K/3K FIN	LG SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-036	BookletFolderPosAdj:2K/3K FIN	Oficio SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-037	BookletFolderPosAdj:2K/3K FIN	Oficio SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-038	BookletFolderPosAdj:2K/3K FIN	Oficio SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-039	BookletFolderPosAdj:2K/3K FIN	Oficio SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-040	BookletFolderPosAdj:2K/3K FIN	LT SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-041	BookletFolderPosAdj:2K/3K FIN	LT SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-042	BookletFolderPosAdj:2K/3K FIN	LT SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-	BookletFolderPosAdj:2K/3K FIN	LT SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
043				
6-113-044	BookletFolderPosAdj:2K/3K FIN	12"x18"(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-045	BookletFolderPosAdj:2K/3K FIN	12"x18"(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-046	BookletFolderPosAdj:2K/3K FIN	12"x18"(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-047	BookletFolderPosAdj:2K/3K FIN	12"x18"(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-048	BookletFolderPosAdj:2K/3K FIN	8K SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-049	BookletFolderPosAdj:2K/3K FIN	8K SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-050	BookletFolderPosAdj:2K/3K FIN	8K SEF(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-051	BookletFolderPosAdj:2K/3K FIN	8K SEF(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-052	BookletFolderPosAdj:2K/3K FIN	Other(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-053	BookletFolderPosAdj:2K/3K FIN	Other(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-054	BookletFolderPosAdj:2K/3K FIN	Other(11-15)	ENG	[-6 to 3 / 0 / 0.2mm]
6-113-055	BookletFolderPosAdj:2K/3K FIN	Other(16-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-114-001	Fold Speed Adj.: 2K/3K FIN	A3 SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-002	Fold Speed Adj.: 2K/3K FIN	B4 SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-003	Fold Speed Adj.: 2K/3K FIN	A4 SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				2: Low Speed
6-114-004	Fold Speed Adj.: 2K/3K FIN	B5 SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-005	Fold Speed Adj.: 2K/3K FIN	DLT SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-006	Fold Speed Adj.: 2K/3K FIN	LG SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-007	Fold Speed Adj.: 2K/3K FIN	Oficio SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-008	Fold Speed Adj.: 2K/3K FIN	LT SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-009	Fold Speed Adj.: 2K/3K FIN	12"x18"	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-010	Fold Speed Adj.: 2K/3K FIN	8K SEF	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-114-011	Fold Speed Adj.: 2K/3K FIN	Other	ENG	[0 to 2 / 0 / 1] 0: Std Speed 1: Middle Speed 2: Low Speed
6-115-001	Finisher Free Run: 2K/3K FIN	Free Run 1	ENG	[0 to 1 / 0 / 1]
6-115-002	Finisher Free Run: 2K/3K FIN	Free Run 2	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-115-003	Finisher Free Run: 2K/3K FIN	Free Run 3	ENG	[0 to 1 / 0 / 1]
6-115-004	Finisher Free Run: 2K/3K FIN	Free Run 4	ENG	[0 to 1 / 0 / 1]
6-115-005	Finisher Free Run: 2K/3K FIN	Free Run 5	ENG	[0 to 1 / 0 / 1]
6-116-001	CrnrStplrMxPrstkShAdj:2K/3KFIN	A3 SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-002	CrnrStplrMxPrstkShAdj:2K/3KFIN	B4 SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-003	CrnrStplrMxPrstkShAdj:2K/3KFIN	A4 SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-004	CrnrStplrMxPrstkShAdj:2K/3KFIN	A4 LEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-005	CrnrStplrMxPrstkShAdj:2K/3KFIN	B5 SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-006	CrnrStplrMxPrstkShAdj:2K/3KFIN	B5 LEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-007	CrnrStplrMxPrstkShAdj:2K/3KFIN	DLT SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-008	CrnrStplrMxPrstkShAdj:2K/3KFIN	LG SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-009	CrnrStplrMxPrstkShAdj:2K/3KFIN	Oficio SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-010	CrnrStplrMxPrstkShAdj:2K/3KFIN	LT SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-011	CrnrStplrMxPrstkShAdj:2K/3KFIN	LT LEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-012	CrnrStplrMxPrstkShAdj:2K/3KFIN	8K SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-013	CrnrStplrMxPrstkShAdj:2K/3KFIN	16K SEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-014	CrnrStplrMxPrstkShAdj:2K/3KFIN	16K LEF	ENG	[-1 to 0 / 0 / 1sheets]
6-116-015	CrnrStplrMxPrstkShAdj:2K/3KFIN	Other	ENG	[-1 to 0 / 0 / 1sheets]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-117-001	BookStplrMxPrstkShAdj:2K/3KFIN	A3 SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-002	BookStplrMxPrstkShAdj:2K/3KFIN	B4 SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-003	BookStplrMxPrstkShAdj:2K/3KFIN	A4 SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-004	BookStplrMxPrstkShAdj:2K/3KFIN	B5 SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-005	BookStplrMxPrstkShAdj:2K/3KFIN	DLT SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-006	BookStplrMxPrstkShAdj:2K/3KFIN	LG SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-007	BookStplrMxPrstkShAdj:2K/3KFIN	Oficio SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-008	BookStplrMxPrstkShAdj:2K/3KFIN	LT SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-009	BookStplrMxPrstkShAdj:2K/3KFIN	12"x18"	ENG	[-2 to 0 / 0 / 1sheets]
6-117-010	BookStplrMxPrstkShAdj:2K/3KFIN	8K SEF	ENG	[-2 to 0 / 0 / 1sheets]
6-117-011	BookStplrMxPrstkShAdj:2K/3KFIN	Other	ENG	[-2 to 0 / 0 / 1sheets]
6-118-001	CrnrStplrPrstkOffsAdj:2K/3KFIN	A3 SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-002	CrnrStplrPrstkOffsAdj:2K/3KFIN	B4 SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-003	CrnrStplrPrstkOffsAdj:2K/3KFIN	A4 SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-004	CrnrStplrPrstkOffsAdj:2K/3KFIN	A4 LEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-005	CrnrStplrPrstkOffsAdj:2K/3KFIN	B5 SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-006	CrnrStplrPrstkOffsAdj:2K/3KFIN	B5 LEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-007	CrnrStplrPrstkOffsAdj:2K/3KFIN	DLT SEF	ENG	[-16 to 16 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-118-008	CrnrStplrPrstkOffsAdj:2K/3KFIN	LG SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-009	CrnrStplrPrstkOffsAdj:2K/3KFIN	Oficio SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-010	CrnrStplrPrstkOffsAdj:2K/3KFIN	LT SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-011	CrnrStplrPrstkOffsAdj:2K/3KFIN	LT LEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-012	CrnrStplrPrstkOffsAdj:2K/3KFIN	8K SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-013	CrnrStplrPrstkOffsAdj:2K/3KFIN	16K SEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-014	CrnrStplrPrstkOffsAdj:2K/3KFIN	16K LEF	ENG	[-16 to 16 / 0 / 2mm]
6-118-015	CrnrStplrPrstkOffsAdj:2K/3KFIN	Other	ENG	[-16 to 16 / 0 / 2mm]
6-119-001	BookStplrPrstkOffsAdj:2K/3KFIN	A3 SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-002	BookStplrPrstkOffsAdj:2K/3KFIN	B4 SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-003	BookStplrPrstkOffsAdj:2K/3KFIN	A4 SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-004	BookStplrPrstkOffsAdj:2K/3KFIN	B5 SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-005	BookStplrPrstkOffsAdj:2K/3KFIN	DLT SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-006	BookStplrPrstkOffsAdj:2K/3KFIN	LG SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-007	BookStplrPrstkOffsAdj:2K/3KFIN	Oficio SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-008	BookStplrPrstkOffsAdj:2K/3KFIN	LT SEF	ENG	[-30 to 30 / 0 / 2mm]
6-119-009	BookStplrPrstkOffsAdj:2K/3KFIN	12"x18"	ENG	[-30 to 30 / 0 / 2mm]
6-119-010	BookStplrPrstkOffsAdj:2K/3KFIN	8K SEF	ENG	[-30 to 30 / 0 / 2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-119-011	BookStplrPrstkOffsAdj:2K/3KFIN	Other	ENG	[-30 to 30 / 0 / 2mm]
6-120-001	CrnStpPosExFeedAmtAdj:2K/3KFIN	A3 SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-002	CrnStpPosExFeedAmtAdj:2K/3KFIN	B4 SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-003	CrnStpPosExFeedAmtAdj:2K/3KFIN	A4 SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-004	CrnStpPosExFeedAmtAdj:2K/3KFIN	A4 LEF	ENG	[0 to 30 / 0 / 10mm]
6-120-005	CrnStpPosExFeedAmtAdj:2K/3KFIN	B5 SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-006	CrnStpPosExFeedAmtAdj:2K/3KFIN	B5 LEF	ENG	[0 to 30 / 0 / 10mm]
6-120-007	CrnStpPosExFeedAmtAdj:2K/3KFIN	DLT SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-008	CrnStpPosExFeedAmtAdj:2K/3KFIN	LG SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-009	CrnStpPosExFeedAmtAdj:2K/3KFIN	Oficio SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-010	CrnStpPosExFeedAmtAdj:2K/3KFIN	LT SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-011	CrnStpPosExFeedAmtAdj:2K/3KFIN	LT LEF	ENG	[0 to 30 / 0 / 10mm]
6-120-012	CrnStpPosExFeedAmtAdj:2K/3KFIN	8K SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-013	CrnStpPosExFeedAmtAdj:2K/3KFIN	16K SEF	ENG	[0 to 30 / 0 / 10mm]
6-120-014	CrnStpPosExFeedAmtAdj:2K/3KFIN	16K LEF	ENG	[0 to 30 / 0 / 10mm]
6-120-015	CrnStpPosExFeedAmtAdj:2K/3KFIN	Other	ENG	[0 to 30 / 0 / 10mm]
6-121-001	NV Adj. Data Mod.	Jogger Pos. Factory Adj.	ENG	[-15 to 3 / 0 / 0.5mm]
6-121-002	NV Adj. Data Mod.	Folding Pos. Factory Adj.	ENG	[-2.8 to 1.4 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-122-001	BkFoldJogSolMovAmtAdj:2K/3KFIN	A3 SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-002	BkFoldJogSolMovAmtAdj:2K/3KFIN	B4 SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-003	BkFoldJogSolMovAmtAdj:2K/3KFIN	A4 SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-004	BkFoldJogSolMovAmtAdj:2K/3KFIN	B5 SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-005	BkFoldJogSolMovAmtAdj:2K/3KFIN	DLT SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-006	BkFoldJogSolMovAmtAdj:2K/3KFIN	LG SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-007	BkFoldJogSolMovAmtAdj:2K/3KFIN	Oficio SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-008	BkFoldJogSolMovAmtAdj:2K/3KFIN	LT SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-009	BkFoldJogSolMovAmtAdj:2K/3KFIN	12"x18"	ENG	[-5 to 5 / 0 / 1mm]
6-122-010	BkFoldJogSolMovAmtAdj:2K/3KFIN	8K SEF	ENG	[-5 to 5 / 0 / 1mm]
6-122-011	BkFoldJogSolMovAmtAdj:2K/3KFIN	Other	ENG	[-5 to 5 / 0 / 1mm]
6-125-001	Use Paper Guide(Big Size)	All Size	ENG	[0 to 1 / 0 / 1] 0: Guide ON 1: Guide OFF
6-126-001	Use Paper Guide(Small Size)	All Size	ENG	[0 to 1 / 0 / 1] 0: Guide ON 1: Guide OFF
6-127-001	Paper Guide PossAdj:2K/3K FIN	All Size	ENG	[-10 to 10 / 0 / 1mm]
6-128-001	Paper Guide RetraAdj:2K/3K FIN	All Size	ENG	[-50 to 50 / 0 / 5mm]
6-129-001	Paper Guide AceptAdj:2K/3K FIN	All Size	ENG	[-50 to 50 / 0 / 5msec]
6-140-001	Staple Position Adj: 1K FIN	Staple Stapler	ENG	[-17.5 to 3.5 / 0 / 0.5mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-140-002	Staple Position Adj: 1K FIN	Stapleless Stapler	ENG	[-9 to 3 / 0 / 0.3mm]
6-141-001	Booklet Stapler Pos Adj:1K FIN	A3 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-002	Booklet Stapler Pos Adj:1K FIN	B4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-003	Booklet Stapler Pos Adj:1K FIN	A4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-004	Booklet Stapler Pos Adj:1K FIN	B5 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-005	Booklet Stapler Pos Adj:1K FIN	DLT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-006	Booklet Stapler Pos Adj:1K FIN	LG SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-007	Booklet Stapler Pos Adj:1K FIN	Oficio SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-008	Booklet Stapler Pos Adj:1K FIN	LT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-141-009	Booklet Stapler Pos Adj:1K FIN	12"x18"	ENG	[-6 to 3 / 0 / 0.2mm]
6-142-001	Sub-scan Punch Pos Adj:1K FIN	JPN/EU: 2-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-142-002	Sub-scan Punch Pos Adj:1K FIN	NA: 3-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-142-003	Sub-scan Punch Pos Adj:1K FIN	Europe: 4-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-142-004	Sub-scan Punch Pos Adj:1K FIN	NEU: 4-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-142-005	Sub-scan Punch Pos Adj:1K FIN	NA: 2-Hole	ENG	[-37.5 to 7.5 / 0 / 0.5mm]
6-143-001	Jogger Pos Adj:1K FIN	A3 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-002	Jogger Pos Adj:1K FIN	B4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-003	Jogger Pos Adj:1K FIN	A4 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-143-004	Jogger Pos Adj:1K FIN	A4 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-005	Jogger Pos Adj:1K FIN	B5 SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-006	Jogger Pos Adj:1K FIN	B5 LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-007	Jogger Pos Adj:1K FIN	DLT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-008	Jogger Pos Adj:1K FIN	LG SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-009	Jogger Pos Adj:1K FIN	Oficio SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-010	Jogger Pos Adj:1K FIN	LT SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-011	Jogger Pos Adj:1K FIN	LT LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-012	Jogger Pos Adj:1K FIN	12"x18"	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-013	Jogger Pos Adj:1K FIN	8K SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-014	Jogger Pos Adj:1K FIN	16K SEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-015	Jogger Pos Adj:1K FIN	16K LEF	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-143-016	Jogger Pos Adj:1K FIN	Other	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-144-001	Main-scan Punch Pos Adj:1K FIN	JPN/EU: 2-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-144-002	Main-scan Punch Pos Adj:1K FIN	NA: 3-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-144-003	Main-scan Punch Pos Adj:1K FIN	Europe: 4-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-144-004	Main-scan Punch Pos Adj:1K FIN	NEU: 4-Hole	ENG	[-8 to 2 / 0 / 0.4mm]
6-144-005	Main-scan Punch Pos Adj:1K FIN	NA: 2-Hole	ENG	[-8 to 2 / 0 / 0.4mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-145-001	Skew Correct Buckle Adj:1K FIN	A3 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-002	Skew Correct Buckle Adj:1K FIN	B4 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-003	Skew Correct Buckle Adj:1K FIN	A4 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-004	Skew Correct Buckle Adj:1K FIN	A4 LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-005	Skew Correct Buckle Adj:1K FIN	B5 SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-006	Skew Correct Buckle Adj:1K FIN	B5 LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-007	Skew Correct Buckle Adj:1K FIN	A5 LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-008	Skew Correct Buckle Adj:1K FIN	DLT SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-009	Skew Correct Buckle Adj:1K FIN	LG SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-010	Skew Correct Buckle Adj:1K FIN	Oficio SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-011	Skew Correct Buckle Adj:1K FIN	LT SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-012	Skew Correct Buckle Adj:1K FIN	LT LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-013	Skew Correct Buckle Adj:1K FIN	HLT LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-014	Skew Correct Buckle Adj:1K FIN	12"x18"	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-015	Skew Correct Buckle Adj:1K FIN	8K SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-016	Skew Correct Buckle Adj:1K FIN	16K SEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-017	Skew Correct Buckle Adj:1K FIN	16K LEF	ENG	[-10 to 5 / 0 / 0.2mm]
6-145-018	Skew Correct Buckle Adj:1K FIN	Other	ENG	[-10 to 5 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-146-001	Skew Correct Ctrl SW:1K FIN	A3 SEF	ENG	[0 to 1 / 0 / 1]
6-146-002	Skew Correct Ctrl SW:1K FIN	B4 SEF	ENG	[0 to 1 / 0 / 1]
6-146-003	Skew Correct Ctrl SW:1K FIN	A4 SEF	ENG	[0 to 1 / 0 / 1]
6-146-004	Skew Correct Ctrl SW:1K FIN	A4 LEF	ENG	[0 to 1 / 0 / 1]
6-146-005	Skew Correct Ctrl SW:1K FIN	B5 SEF	ENG	[0 to 1 / 0 / 1]
6-146-006	Skew Correct Ctrl SW:1K FIN	B5 LEF	ENG	[0 to 1 / 0 / 1]
6-146-007	Skew Correct Ctrl SW:1K FIN	A5 LEF	ENG	[0 to 1 / 0 / 1]
6-146-008	Skew Correct Ctrl SW:1K FIN	DLT SEF	ENG	[0 to 1 / 0 / 1]
6-146-009	Skew Correct Ctrl SW:1K FIN	LG SEF	ENG	[0 to 1 / 0 / 1]
6-146-010	Skew Correct Ctrl SW:1K FIN	Oficio SEF	ENG	[0 to 1 / 0 / 1]
6-146-011	Skew Correct Ctrl SW:1K FIN	LT SEF	ENG	[0 to 1 / 0 / 1]
6-146-012	Skew Correct Ctrl SW:1K FIN	LT LEF	ENG	[0 to 1 / 0 / 1]
6-146-013	Skew Correct Ctrl SW:1K FIN	HLT LEF	ENG	[0 to 1 / 0 / 1]
6-146-014	Skew Correct Ctrl SW:1K FIN	12"x18"	ENG	[0 to 1 / 0 / 1]
6-146-015	Skew Correct Ctrl SW:1K FIN	8K SEF	ENG	[0 to 1 / 0 / 1]
6-146-016	Skew Correct Ctrl SW:1K FIN	16K SEF	ENG	[0 to 1 / 0 / 1]
6-146-017	Skew Correct Ctrl SW:1K FIN	16K LEF	ENG	[0 to 1 / 0 / 1]
6-146-018	Skew Correct Ctrl SW:1K FIN	Other	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-147-001	Booklet Folder Pos Adj:1K FIN	A3 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-002	Booklet Folder Pos Adj:1K FIN	B4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-003	Booklet Folder Pos Adj:1K FIN	A4 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-004	Booklet Folder Pos Adj:1K FIN	B5 SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-005	Booklet Folder Pos Adj:1K FIN	DLT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-006	Booklet Folder Pos Adj:1K FIN	LG SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-007	Booklet Folder Pos Adj:1K FIN	Oficio SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-008	Booklet Folder Pos Adj:1K FIN	LT SEF	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-009	Booklet Folder Pos Adj:1K FIN	12"x18"	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-010	Booklet Folder Pos Adj:1K FIN	A3 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-011	Booklet Folder Pos Adj:1K FIN	A3 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-012	Booklet Folder Pos Adj:1K FIN	A3 SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-013	Booklet Folder Pos Adj:1K FIN	B4 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-014	Booklet Folder Pos Adj:1K FIN	B4 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-015	Booklet Folder Pos Adj:1K FIN	B4 SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-016	Booklet Folder Pos Adj:1K FIN	A4 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-017	Booklet Folder Pos Adj:1K FIN	A4 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-018	Booklet Folder Pos Adj:1K FIN	A4 SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-147-019	Booklet Folder Pos Adj:1K FIN	B5 SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-020	Booklet Folder Pos Adj:1K FIN	B5 SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-021	Booklet Folder Pos Adj:1K FIN	B5 SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-022	Booklet Folder Pos Adj:1K FIN	DLT SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-023	Booklet Folder Pos Adj:1K FIN	DLT SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-024	Booklet Folder Pos Adj:1K FIN	DLT SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-025	Booklet Folder Pos Adj:1K FIN	LG SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-026	Booklet Folder Pos Adj:1K FIN	LG SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-027	Booklet Folder Pos Adj:1K FIN	LG SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-028	Booklet Folder Pos Adj:1K FIN	Oficio SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-029	Booklet Folder Pos Adj:1K FIN	Oficio SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-030	Booklet Folder Pos Adj:1K FIN	Oficio SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-031	Booklet Folder Pos Adj:1K FIN	LT SEF(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-032	Booklet Folder Pos Adj:1K FIN	LT SEF(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-033	Booklet Folder Pos Adj:1K FIN	LT SEF(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-034	Booklet Folder Pos Adj:1K FIN	12"x18"(1-5)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-035	Booklet Folder Pos Adj:1K FIN	12"x18"(6-10)	ENG	[-6 to 3 / 0 / 0.2mm]
6-147-036	Booklet Folder Pos Adj:1K FIN	12"x18"(11-over)	ENG	[-6 to 3 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-148-001	Fold Times Adj: 1K FIN		ENG	[0 to 29 / 0 / 1sec]
6-149-001	Last Paper Pos Time Adj:1K FIN		ENG	[0 to 1 / 0 / 1times]
6-150-001	PositioningStrtTimingAdj:1KFIN	A3 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-002	PositioningStrtTimingAdj:1KFIN	B4 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-003	PositioningStrtTimingAdj:1KFIN	A4 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-004	PositioningStrtTimingAdj:1KFIN	A4 LEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-005	PositioningStrtTimingAdj:1KFIN	B5 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-006	PositioningStrtTimingAdj:1KFIN	B5 LEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-007	PositioningStrtTimingAdj:1KFIN	DLT SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-008	PositioningStrtTimingAdj:1KFIN	LG SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-009	PositioningStrtTimingAdj:1KFIN	Oficio SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-010	PositioningStrtTimingAdj:1KFIN	LT SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-011	PositioningStrtTimingAdj:1KFIN	LT LEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-012	PositioningStrtTimingAdj:1KFIN	12"x18"	ENG	[-100 to 100 / 0 / 10msec]
6-150-013	PositioningStrtTimingAdj:1KFIN	8K SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-014	PositioningStrtTimingAdj:1KFIN	16K SEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-015	PositioningStrtTimingAdj:1KFIN	16K LEF	ENG	[-100 to 100 / 0 / 10msec]
6-150-016	PositioningStrtTimingAdj:1KFIN	Other	ENG	[-100 to 100 / 0 / 10msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-151-001	PosTimeAdj(LstPr2ndTime):1KFIN		ENG	[-100 to 100 / 0 / 10msec]
6-152-001	PosTiAdj(ExcLstPr3rdTi):1KFIN	A3 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-002	PosTiAdj(ExcLstPr3rdTi):1KFIN	B4 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-003	PosTiAdj(ExcLstPr3rdTi):1KFIN	A4 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-004	PosTiAdj(ExcLstPr3rdTi):1KFIN	A4 LEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-005	PosTiAdj(ExcLstPr3rdTi):1KFIN	B5 SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-006	PosTiAdj(ExcLstPr3rdTi):1KFIN	B5 LEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-007	PosTiAdj(ExcLstPr3rdTi):1KFIN	DLT SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-008	PosTiAdj(ExcLstPr3rdTi):1KFIN	LG SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-009	PosTiAdj(ExcLstPr3rdTi):1KFIN	Oficio SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-010	PosTiAdj(ExcLstPr3rdTi):1KFIN	LT SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-011	PosTiAdj(ExcLstPr3rdTi):1KFIN	LT LEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-012	PosTiAdj(ExcLstPr3rdTi):1KFIN	12"x18"	ENG	[-100 to 100 / 0 / 10msec]
6-152-013	PosTiAdj(ExcLstPr3rdTi):1KFIN	8K SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-014	PosTiAdj(ExcLstPr3rdTi):1KFIN	16K SEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-015	PosTiAdj(ExcLstPr3rdTi):1KFIN	16K LEF	ENG	[-100 to 100 / 0 / 10msec]
6-152-016	PosTiAdj(ExcLstPr3rdTi):1KFIN	Other	ENG	[-100 to 100 / 0 / 10msec]
6-154-001	Pos Time Adj By Sheet: 1K FIN	1 - 10 Sheets	ENG	[-100 to 100 / 0 / 10msec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-154-002	Pos Time Adj By Sheet: 1K FIN	11 - 20 Sheets	ENG	[-100 to 100 / 0 / 10msec]
6-154-003	Pos Time Adj By Sheet: 1K FIN	21 - 30 Sheets	ENG	[-100 to 100 / 0 / 10msec]
6-154-004	Pos Time Adj By Sheet: 1K FIN	31 - 40 Sheets	ENG	[-100 to 100 / 0 / 10msec]
6-154-005	Pos Time Adj By Sheet: 1K FIN	41 - 50 Sheets	ENG	[-100 to 100 / 0 / 10msec]
6-155-001	Paper Guide Poss Adj: 1K FIN		ENG	[-10 to 10 / 0 / 1mm]
6-156-001	Paper Guide Retra Adj: 1K FIN		ENG	[-50 to 50 / 0 / 5mm]
6-157-001	Paper Guide Acept Adj: 1K FIN		ENG	[-50 to 50 / 0 / 5msec]
6-158-001	Bind Speed Setting: 1K FIN_HY		ENG	[1 to 3 / 3 / 2] 1: Bind Speed 1(Low) 3: Bind Speed 3(High)
6-159-001	Bind Times: 1K FIN_HY		ENG*	[1 to 2 / 2 / 1] 1: Once 2: Twice
6-160-001	Finisher Free Run: 1K FIN	Free Run 1	ENG	[0 to 1 / 0 / 1]
6-160-002	Finisher Free Run: 1K FIN	Free Run 2	ENG	[0 to 1 / 0 / 1]
6-160-003	Finisher Free Run: 1K FIN	Free Run 3	ENG	[0 to 1 / 0 / 1]
6-160-004	Finisher Free Run: 1K FIN	Maintenance Part Positioning Free Run	ENG	[0 to 1 / 0 / 1]
6-163-001	Use Paper Guide	Big Size	ENG	[0 to 1 / 1 / 1] 0: Guide On 1: Guide Off
6-163-002	Use Paper Guide	Small Size	ENG	[0 to 1 / 1 / 1] 0: Guide On 1: Guide Off

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-164-001	NV Adj. Data Mod. 1KShtFIN	Jogger Pos. Factory Adj.	ENG	[-7.5 to 1.5 / 0 / 0.5mm]
6-164-002	NV Adj. Data Mod. 1KShtFIN	Stapling Pos. Factory Adj.	ENG	[-10 to 2 / 0 / 0.5mm]
6-164-003	NV Adj. Data Mod. 1KShtFIN HY	Stapling Pos. Factory Adj. (HY)	ENG	[-6.3 to 2.1 / 0 / 0.3mm]
6-164-004	NV Adj. Data Mod. 1KShtFIN HY	Stapleless Stapling Pos. Factory Adj.	ENG	[-6.3 to 2.1 / 0 / 0.3mm]
6-164-005	NV Adj. Data Mod. 1KShtFIN	Folding Pos. Factory Adj.	ENG	[-2 to 2 / 0 / 0.1mm]
6-202-001	Free Run Print Post	Free Run1	ENG	[0 to 1 / 0 / 1]
6-202-002	Free Run Print Post	Free Run2	ENG	[0 to 1 / 0 / 1]
6-202-003	Free Run Print Post	Free Run3	ENG	[0 to 1 / 0 / 1]
6-301-001	Z-Fold:FineAdj 1st	A3 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-002	Z-Fold:FineAdj 1st	B4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-003	Z-Fold:FineAdj 1st	A4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-004	Z-Fold:FineAdj 1st	DLT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-005	Z-Fold:FineAdj 1st	LG SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-006	Z-Fold:FineAdj 1st	LT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-007	Z-Fold:FineAdj 1st	8K SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-008	Z-Fold:FineAdj 1st	Oficio SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-301-009	Z-Fold:FineAdj 1st	Other	ENG	[-4 to 4 / 0 / 0.1mm]
6-302-001	Z-Fold:FineAdj 2nd	A3 SEF	ENG	[-8 to 4 / 0 / 0.2mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-302-002	Z-Fold:FineAdj 2nd	B4 SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-003	Z-Fold:FineAdj 2nd	A4 SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-004	Z-Fold:FineAdj 2nd	DLT SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-005	Z-Fold:FineAdj 2nd	LG SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-006	Z-Fold:FineAdj 2nd	LT SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-007	Z-Fold:FineAdj 2nd	8K SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-008	Z-Fold:FineAdj 2nd	Oficio SEF	ENG	[-8 to 4 / 0 / 0.2mm]
6-302-009	Z-Fold:FineAdj 2nd	Other	ENG	[-8 to 4 / 0 / 0.2mm]
6-304-001	Equal 1/2:FineAdjFld	A3 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-002	Equal 1/2:FineAdjFld	B4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-003	Equal 1/2:FineAdjFld	A4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-004	Equal 1/2:FineAdjFld	DLT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-005	Equal 1/2:FineAdjFld	LG SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-006	Equal 1/2:FineAdjFld	LT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-007	Equal 1/2:FineAdjFld	8K SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-008	Equal 1/2:FineAdjFld	12"x18"	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-009	Equal 1/2:FineAdjFld	Oficio SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-304-010	Equal 1/2:FineAdjFld	Other	ENG	[-4 to 4 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-307-001	Equal 3rds:Fine Adj 1st	A3 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-307-002	Equal 3rds:Fine Adj 1st	DLT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-307-003	Equal 3rds:Fine Adj 1st	A4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-307-004	Equal 3rds:Fine Adj 1st	LG SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-307-005	Equal 3rds:Fine Adj 1st	LT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-307-006	Equal 3rds:Fine Adj 1st	Oficio SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-307-007	Equal 3rds:Fine Adj 1st	Other	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-001	Equal 3rds:Fine Adj 2nd	A3 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-002	Equal 3rds:Fine Adj 2nd	DLT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-003	Equal 3rds:Fine Adj 2nd	A4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-004	Equal 3rds:Fine Adj 2nd	LG SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-005	Equal 3rds:Fine Adj 2nd	LT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-006	Equal 3rds:Fine Adj 2nd	Oficio SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-308-007	Equal 3rds:Fine Adj 2nd	Other	ENG	[-4 to 4 / 0 / 0.1mm]
6-311-001	3rds 1 Flap:Fine Adj 1st	A3 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-311-002	3rds 1 Flap:Fine Adj 1st	DLT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-311-003	3rds 1 Flap:Fine Adj 1st	A4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-311-004	3rds 1 Flap:Fine Adj 1st	LG SEF	ENG	[-4 to 4 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-311-005	3rds 1 Flap:Fine Adj 1st	LT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-311-006	3rds 1 Flap:Fine Adj 1st	Oficio SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-311-007	3rds 1 Flap:Fine Adj 1st	Other	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-001	3rds 1 Flap:Fine Adj 2nd	A3 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-002	3rds 1 Flap:Fine Adj 2nd	DLT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-003	3rds 1 Flap:Fine Adj 2nd	A4 SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-004	3rds 1 Flap:Fine Adj 2nd	LG SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-005	3rds 1 Flap:Fine Adj 2nd	LT SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-006	3rds 1 Flap:Fine Adj 2nd	Oficio SEF	ENG	[-4 to 4 / 0 / 0.1mm]
6-312-007	3rds 1 Flap:Fine Adj 2nd	Other	ENG	[-4 to 4 / 0 / 0.1mm]
6-313-001	Registration Buckle Adjust	A3 SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-002	Registration Buckle Adjust	B4 SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-003	Registration Buckle Adjust	A4 SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-004	Registration Buckle Adjust	DLT SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-005	Registration Buckle Adjust	LG SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-006	Registration Buckle Adjust	LT SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-007	Registration Buckle Adjust	8K SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-008	Registration Buckle Adjust	12"x18"	ENG	[0 to 5 / 20 / 0.5mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-313-009	Registration Buckle Adjust	Oficio SEF	ENG	[0 to 5 / 20 / 0.5mm]
6-313-010	Registration Buckle Adjust	Other	ENG	[0 to 5 / 20 / 0.5mm]
6-314-001	Registration Buckle Select		ENG	[0 to 1 / 0 / 1] 0: Mode1 1: Mode2
6-315-001	Set Number of Creasing		ENG	[0 to 4 / 1 / 1times] 0: -1 1: 0 2: 1 3: 2 4: 3
6-316-001	Silent Mode Select		ENG	[0 to 1 / 0 / 1] 0: OFF 1: ON
6-317-001	Not Fold Exit Speed	Plain: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-002	Not Fold Exit Speed	Plain: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-003	Not Fold Exit Speed	Plain: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				4: Exit Speed 4 5: Exit Speed 5(High)
6-317-004	Not Fold Exit Speed	Thick: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-005	Not Fold Exit Speed	Thick: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-006	Not Fold Exit Speed	Thick: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-007	Not Fold Exit Speed	Thin: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-008	Not Fold Exit Speed	Thin: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-317-009	Not Fold Exit Speed	Thin: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-318-001	Z-Fold Exit Speed	Plain: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-318-002	Z-Fold Exit Speed	Plain: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-318-003	Z-Fold Exit Speed	Plain: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				5(High)
6-319-001	Equal 1/2 Exit Speed	Plain: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-319-002	Equal 1/2 Exit Speed	Plain: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-319-003	Equal 1/2 Exit Speed	Plain: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-320-001	Equal 3rds Exit Speed	Plain: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-320-002	Equal 3rds Exit Speed	Plain: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-320-003	Equal 3rds Exit Speed	Plain: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-321-001	3rds 1 Flap Exit Fold	Plain: Large-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-321-002	3rds 1 Flap Exit Fold	Plain: Middle-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-321-003	3rds 1 Flap Exit Fold	Plain: Small-Size	ENG	[1 to 5 / 2 / 1] 1: Exit Speed 1(Low) 2: Exit Speed 2 3: Exit Speed 3 4: Exit Speed 4 5: Exit Speed 5(High)
6-324-	NV Adj. Data Mod.	1st Fold Pos. Factory	ENG	[-3 to 3 / 0 / 0.1mm]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001		Setting		
6-324-002	NV Adj. Data Mod.	2nd Fold Pos. Factory Setting	ENG	[-3 to 3 / 0 / 0.1mm]
6-324-003	NV Adj. Data Mod.	Crease Pos. Factory Setting	ENG	[-3 to 3 / 0 / 0.1mm]
6-325-001	Folder. Free Run	Free Run1(Not Fold)	ENG	[0 to 1 / 0 / 1]
6-325-002	Folder. Free Run	Free Run2(Z-Fold)	ENG	[0 to 1 / 0 / 1]
6-325-003	Folder. Free Run	Free Run3(Equal 1/2)	ENG	[0 to 1 / 0 / 1]
6-325-004	Folder. Free Run	Free Run4(Equal 3rds)	ENG	[0 to 1 / 0 / 1]
6-325-005	Folder. Free Run	Free Run5(3rds 1 Flap)	ENG	[0 to 1 / 0 / 1]
6-326-001	Z-Fold Full Detact Adjust	Large Size	ENG	[-2 to 1 / 0 / 0.2v]
6-326-002	Z-Fold Full Detact Adjust	Middle Size	ENG	[-2 to 1 / 0 / 0.2v]
6-326-003	Z-Fold Full Detact Adjust	Small Size	ENG	[-2 to 1 / 0 / 0.2v]
6-327-001	Equal 1/2 Full Detact Adjust	Large Size	ENG	[-2 to 1 / 0 / 0.2v]
6-327-002	Equal 1/2 Full Detact Adjust	Middle Size	ENG	[-2 to 1 / 0 / 0.2v]
6-327-003	Equal 1/2 Full Detact Adjust	Small Size	ENG	[-2 to 1 / 0 / 0.2v]

Engine SP7-XXX (Data Log)

SP7-621 to SP7-986

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-621-002	PM Counter Display: Pages	# PCU:K	ENG	[0 to 99999999 / 0 / 1page]
7-621-003	PM Counter Display: Pages	# Dev Unit:K	ENG*	[0 to 99999999 / 0 / 1page]
7-621-004	PM Counter Display: Pages	Developer:K	ENG	[0 to 99999999 / 0 / 1page]
7-621-025	PM Counter Display: Pages	# PCU:C	ENG	[0 to 99999999 / 0 / 1page]
7-621-026	PM Counter Display: Pages	# Dev Unit:C	ENG*	[0 to 99999999 / 0 / 1page]
7-621-027	PM Counter Display: Pages	Developer:C	ENG	[0 to 99999999 / 0 / 1page]
7-621-048	PM Counter Display: Pages	# PCU:M	ENG	[0 to 99999999 / 0 / 1page]
7-621-049	PM Counter Display: Pages	# Dev Unit:M	ENG*	[0 to 99999999 / 0 / 1page]
7-621-050	PM Counter Display: Pages	Developer:M	ENG	[0 to 99999999 / 0 / 1page]
7-621-071	PM Counter Display: Pages	# PCU:Y	ENG	[0 to 99999999 / 0 / 1page]
7-621-072	PM Counter Display: Pages	# Dev Unit:Y	ENG*	[0 to 99999999 / 0 / 1page]
7-621-073	PM Counter Display: Pages	Developer:Y	ENG	[0 to 99999999 / 0 / 1page]
7-621-093	PM Counter Display: Pages	# ITB Unit	ENG	[0 to 99999999 / 0 / 1page]
7-621-102	PM Counter Display: Pages	# ITB Cleaning Unit	ENG	[0 to 99999999 / 0 / 1page]
7-621-109	PM Counter Display: Pages	# PTR Unit	ENG	[0 to 99999999 / 0 / 1page]
7-621-115	PM Counter Display: Pages	# Fusing Unit	ENG	[0 to 99999999 / 0 / 1page]
7-621-	PM Counter Display: Pages	Fusing Belt	ENG	[0 to 99999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
116				1page]
7-621-118	PM Counter Display: Pages	Pressure Roller	ENG	[0 to 99999999 / 0 / 1page]
7-621-131	PM Counter Display: Pages	Dust Filter	ENG	[0 to 99999999 / 0 / 1page]
7-621-142	PM Counter Display: Pages	Waste Toner Bottle	ENG	[0 to 999999999 / 0 / 1mg]
7-622-002	PM Counter Reset	# PCU:K	ENG	[0 to 1 / 0 / 1]
7-622-003	PM Counter Reset	# Dev Unit:K	ENG	[0 to 1 / 0 / 1]
7-622-004	PM Counter Reset	Developer:K	ENG	[0 to 1 / 0 / 1]
7-622-025	PM Counter Reset	# PCU:C	ENG	[0 to 1 / 0 / 1]
7-622-026	PM Counter Reset	# Dev Unit:C	ENG	[0 to 1 / 0 / 1]
7-622-027	PM Counter Reset	Developer:C	ENG	[0 to 1 / 0 / 1]
7-622-048	PM Counter Reset	# PCU:M	ENG	[0 to 1 / 0 / 1]
7-622-049	PM Counter Reset	# Dev Unit:M	ENG	[0 to 1 / 0 / 1]
7-622-050	PM Counter Reset	Developer:M	ENG	[0 to 1 / 0 / 1]
7-622-071	PM Counter Reset	# PCU:Y	ENG	[0 to 1 / 0 / 1]
7-622-072	PM Counter Reset	# Dev Unit:Y	ENG	[0 to 1 / 0 / 1]
7-622-073	PM Counter Reset	Developer:Y	ENG	[0 to 1 / 0 / 1]
7-622-093	PM Counter Reset	# ITB Unit	ENG	[0 to 1 / 0 / 1]
7-622-102	PM Counter Reset	# ITB Cleaning Unit	ENG	[0 to 1 / 0 / 1]
7-622-	PM Counter Reset	# PTR Unit	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
109				
7-622-115	PM Counter Reset	# Fusing Unit	ENG	[0 to 1 / 0 / 1]
7-622-116	PM Counter Reset	Fusing Belt	ENG	[0 to 1 / 0 / 1]
7-622-118	PM Counter Reset	Pressure Roller	ENG	[0 to 1 / 0 / 1]
7-622-131	PM Counter Reset	Dust Filter	ENG	[0 to 1 / 0 / 1]
7-622-245	PM Counter Reset	PCU:All Colors	ENG	[0 to 1 / 0 / 1]
7-622-246	PM Counter Reset	Development Unit:All Colors	ENG	[0 to 1 / 0 / 1]
7-622-247	PM Counter Reset	Developer:All Colors	ENG	[0 to 1 / 0 / 1]
7-622-250	PM Counter Reset	SCS	ENG	[0 to 1 / 0 / 1]
7-623-002	PM Value Setting: Life Pages	# PCU:K	ENG	[0 to 99999999 / 0 / 1page]
7-623-003	PM Value Setting: Life Pages	# Dev Unit:K	ENG	[0 to 99999999 / 0 / 1page]
7-623-004	PM Value Setting: Life Pages	Developer:K	ENG	[0 to 99999999 / 0 / 1page]
7-623-025	PM Value Setting: Life Pages	# PCU:C	ENG	[0 to 99999999 / 0 / 1page]
7-623-026	PM Value Setting: Life Pages	# Dev Unit:C	ENG	[0 to 99999999 / 0 / 1page]
7-623-027	PM Value Setting: Life Pages	Developer:C	ENG	[0 to 99999999 / 0 / 1page]
7-623-048	PM Value Setting: Life Pages	# PCU:M	ENG	[0 to 99999999 / 0 / 1page]
7-623-049	PM Value Setting: Life Pages	# Dev Unit:M	ENG	[0 to 99999999 / 0 / 1page]
7-623-050	PM Value Setting: Life Pages	Developer:M	ENG	[0 to 99999999 / 0 / 1page]
7-623-	PM Value Setting: Life Pages	# PCU:Y	ENG	[0 to 99999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
071				1page]
7-623-072	PM Value Setting: Life Pages	# Dev Unit:Y	ENG	[0 to 99999999 / 0 / 1page]
7-623-073	PM Value Setting: Life Pages	Developer:Y	ENG	[0 to 99999999 / 0 / 1page]
7-623-093	PM Value Setting: Life Pages	# ITB Unit	ENG	[0 to 99999999 / 0 / 1page]
7-623-102	PM Value Setting: Life Pages	# ITB Cleaning Unit	ENG	[0 to 99999999 / 0 / 1page]
7-623-109	PM Value Setting: Life Pages	# PTR Unit	ENG	[0 to 99999999 / 0 / 1page]
7-623-115	PM Value Setting: Life Pages	# Fusing Unit	ENG	[0 to 99999999 / 0 / 1page]
7-623-116	PM Value Setting: Life Pages	Fusing Belt	ENG	[0 to 99999999 / 0 / 1page]
7-623-118	PM Value Setting: Life Pages	Pressure Roller	ENG	[0 to 99999999 / 0 / 1page]
7-623-131	PM Value Setting: Life Pages	Dust Filter	ENG	[0 to 99999999 / 0 / 1page]
7-623-142	PM Value Setting: Life Pages	Waste Toner Bottle	ENG	[0 to 999999999 / 1200000 / 1mg]
7-625-002	Previous Unit Counter: Pages	# PCU:K	ENG	[0 to 99999999 / 0 / 1page]
7-625-003	Previous Unit Counter: Pages	# Dev Unit:K	ENG	[0 to 99999999 / 0 / 1page]
7-625-004	Previous Unit Counter: Pages	Developer:K	ENG	[0 to 99999999 / 0 / 1page]
7-625-025	Previous Unit Counter: Pages	# PCU:C	ENG	[0 to 99999999 / 0 / 1page]
7-625-026	Previous Unit Counter: Pages	# Dev Unit:C	ENG	[0 to 99999999 / 0 / 1page]
7-625-027	Previous Unit Counter: Pages	Developer:C	ENG	[0 to 99999999 / 0 / 1page]
7-625-048	Previous Unit Counter: Pages	# PCU:M	ENG	[0 to 99999999 / 0 / 1page]
7-625-	Previous Unit Counter: Pages	# Dev Unit:M	ENG	[0 to 99999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
049				1page]
7-625-050	Previous Unit Counter: Pages	Developer:M	ENG	[0 to 99999999 / 0 / 1page]
7-625-071	Previous Unit Counter: Pages	# PCU:Y	ENG	[0 to 99999999 / 0 / 1page]
7-625-072	Previous Unit Counter: Pages	# Dev Unit:Y	ENG	[0 to 99999999 / 0 / 1page]
7-625-073	Previous Unit Counter: Pages	Developer:Y	ENG	[0 to 99999999 / 0 / 1page]
7-625-093	Previous Unit Counter: Pages	# ITB Unit	ENG	[0 to 99999999 / 0 / 1page]
7-625-102	Previous Unit Counter: Pages	# ITB Cleaning Unit	ENG	[0 to 99999999 / 0 / 1page]
7-625-109	Previous Unit Counter: Pages	# PTR Unit	ENG	[0 to 99999999 / 0 / 1page]
7-625-115	Previous Unit Counter: Pages	# Fusing Unit	ENG	[0 to 99999999 / 0 / 1page]
7-625-116	Previous Unit Counter: Pages	Fusing Belt	ENG	[0 to 99999999 / 0 / 1page]
7-625-118	Previous Unit Counter: Pages	Pressure Roller	ENG	[0 to 99999999 / 0 / 1page]
7-625-131	Previous Unit Counter: Pages	Dust Filter	ENG	[0 to 99999999 / 0 / 1page]
7-625-142	Previous Unit Counter: Pages	Waste Toner Bottle	ENG	[0 to 999999999 / 0 / 1mg]
7-626-002	Previous Unit Counter2: Pages	# PCU:K	ENG	[0 to 99999999 / 0 / 1page]
7-626-003	Previous Unit Counter2: Pages	# Dev Unit:K	ENG	[0 to 99999999 / 0 / 1page]
7-626-004	Previous Unit Counter2: Pages	Developer:K	ENG	[0 to 99999999 / 0 / 1page]
7-626-025	Previous Unit Counter2: Pages	# PCU:C	ENG	[0 to 99999999 / 0 / 1page]
7-626-026	Previous Unit Counter2: Pages	# Dev Unit:C	ENG	[0 to 99999999 / 0 / 1page]
7-626-	Previous Unit Counter2: Pages	Developer:C	ENG	[0 to 99999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
027				1page]
7-626-048	Previous Unit Counter2: Pages	# PCU:M	ENG	[0 to 99999999 / 0 / 1page]
7-626-049	Previous Unit Counter2: Pages	# Dev Unit:M	ENG	[0 to 99999999 / 0 / 1page]
7-626-050	Previous Unit Counter2: Pages	Developer:M	ENG	[0 to 99999999 / 0 / 1page]
7-626-071	Previous Unit Counter2: Pages	# PCU:Y	ENG	[0 to 99999999 / 0 / 1page]
7-626-072	Previous Unit Counter2: Pages	# Dev Unit:Y	ENG	[0 to 99999999 / 0 / 1page]
7-626-073	Previous Unit Counter2: Pages	Developer:Y	ENG	[0 to 99999999 / 0 / 1page]
7-626-093	Previous Unit Counter2: Pages	# ITB Unit	ENG	[0 to 99999999 / 0 / 1page]
7-626-102	Previous Unit Counter2: Pages	# ITB Cleaning Unit	ENG	[0 to 99999999 / 0 / 1page]
7-626-109	Previous Unit Counter2: Pages	# PTR Unit	ENG	[0 to 99999999 / 0 / 1page]
7-626-115	Previous Unit Counter2: Pages	# Fusing Unit	ENG	[0 to 99999999 / 0 / 1page]
7-626-116	Previous Unit Counter2: Pages	Fusing Belt	ENG	[0 to 99999999 / 0 / 1page]
7-626-118	Previous Unit Counter2: Pages	Pressure Roller	ENG	[0 to 99999999 / 0 / 1page]
7-626-131	Previous Unit Counter2: Pages	Dust Filter	ENG	[0 to 99999999 / 0 / 1page]
7-626-142	Previous Unit Counter2: Pages	Waste Toner Bottle	ENG	[0 to 999999999 / 0 / 1mg]
7-628-002	PM Counter Reset	SCS	ENG	[0 to 1 / 0 / 1]
7-720-001	Ave. Cvrg for Eng.	K	ENG*	[0 to 100 / 0 / 0.01%]
7-720-002	Ave. Cvrg for Eng.	C	ENG*	[0 to 100 / 0 / 0.01%]
7-720-	Ave. Cvrg for Eng.	M	ENG*	[0 to 100 / 0 / 0.01%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
7-720-004	Ave. Cvrg for Eng.	Y	ENG*	[0 to 100 / 0 / 0.01%]
7-801-002	ROM No.	Engine	ENG	[0 to 0 / 0 / 0]
7-801-007	ROM No.	Finisher	ENG	[0 to 0 / 0 / 0]
7-801-009	ROM No.	PTU	ENG	[0 to 0 / 0 / 0]
7-801-010	ROM No.	LCT	ENG	[0 to 0 / 0 / 0]
7-801-011	ROM No.	MailBox	ENG	[0 to 0 / 0 / 0]
7-801-019	ROM No.	PTU2	ENG	[0 to 0 / 0 / 0]
7-801-025	ROM No.	Folder	ENG	[0 to 0 / 0 / 0]
7-801-102	Firmware Version	Engine	ENG	[0 to 0 / 0 / 0]
7-801-107	Firmware Version	Finisher	ENG	[0 to 0 / 0 / 0]
7-801-109	Firmware Version	PTU	ENG	[0 to 0 / 0 / 0]
7-801-110	Firmware Version	LCT	ENG	[0 to 0 / 0 / 0]
7-801-111	Firmware Version	MailBox	ENG	[0 to 0 / 0 / 0]
7-801-119	Firmware Version	PTU2	ENG	[0 to 0 / 0 / 0]
7-801-125	Firmware Version	Folder	ENG	[0 to 0 / 0 / 0]
7-853-002	Replace Counter	# PCU:K	ENG	[0 to 255 / 0 / 1]
7-853-003	Replace Counter	# Dev Unit:K	ENG	[0 to 255 / 0 / 1]
7-853-	Replace Counter	Developer:K	ENG	[0 to 255 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
7-853-025	Replace Counter	# PCU:C	ENG	[0 to 255 / 0 / 1]
7-853-026	Replace Counter	# Dev Unit:C	ENG	[0 to 255 / 0 / 1]
7-853-027	Replace Counter	Developer:C	ENG	[0 to 255 / 0 / 1]
7-853-048	Replace Counter	# PCU:M	ENG	[0 to 255 / 0 / 1]
7-853-049	Replace Counter	# Dev Unit:M	ENG	[0 to 255 / 0 / 1]
7-853-050	Replace Counter	Developer:M	ENG	[0 to 255 / 0 / 1]
7-853-071	Replace Counter	# PCU:Y	ENG	[0 to 255 / 0 / 1]
7-853-072	Replace Counter	# Dev Unit:Y	ENG	[0 to 255 / 0 / 1]
7-853-073	Replace Counter	Developer:Y	ENG	[0 to 255 / 0 / 1]
7-853-093	Replace Counter	# ITB Unit	ENG	[0 to 255 / 0 / 1]
7-853-102	Replace Counter	# ITB Cleaning Unit	ENG	[0 to 255 / 0 / 1]
7-853-109	Replace Counter	# PTR Unit	ENG	[0 to 255 / 0 / 1]
7-853-115	Replace Counter	# Fusing Unit	ENG	[0 to 255 / 0 / 1]
7-853-116	Replace Counter	Fusing Belt	ENG	[0 to 255 / 0 / 1]
7-853-118	Replace Counter	Pressure Roller	ENG	[0 to 255 / 0 / 1]
7-853-131	Replace Counter	Dust Filter	ENG	[0 to 255 / 0 / 1]
7-853-142	Replace Counter	Waste Toner Bottle	ENG	[0 to 255 / 0 / 1]
7-904-	Near End Setting	PCU:K	ENG*	[0 to 2 / 1 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
7-904-002	Near End Setting	PCU:Col	ENG*	[0 to 2 / 1 / 1]
7-904-004	Near End Setting	ITB	ENG*	[0 to 2 / 1 / 1]
7-904-006	Near End Setting	Fusing Unit	ENG*	[0 to 2 / 1 / 1]
7-904-007	Near End Setting	PTR Unit	ENG*	[0 to 2 / 1 / 1]
7-906-002	Previous Unit Counter:Distance	# PCU:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-003	Previous Unit Counter:Distance	# Dev Unit:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-004	Previous Unit Counter:Distance	Developer:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-025	Previous Unit Counter:Distance	# PCU:C	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-026	Previous Unit Counter:Distance	# Dev Unit:C	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-027	Previous Unit Counter:Distance	Developer: C	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-048	Previous Unit Counter:Distance	# PCU:M	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-049	Previous Unit Counter:Distance	# Dev Unit:M	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-050	Previous Unit Counter:Distance	Developer: M	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-071	Previous Unit Counter:Distance	# PCU:Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-072	Previous Unit Counter:Distance	# Dev Unit:Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-073	Previous Unit Counter:Distance	Developer: Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-093	Previous Unit Counter:Distance	# ITB Unit	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-	Previous Unit Counter:Distance	# ITB Cleaning Unit	ENG	[0 to 4294967295 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
102				1mm]
7-906-109	Previous Unit Counter:Distance	# PTR Unit	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-115	Previous Unit Counter:Distance	# Fusing Unit	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-116	Previous Unit Counter:Distance	Fusing Belt	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-118	Previous Unit Counter:Distance	Pressure Roller	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-230	Previous Unit Counter:Distance	Low Speed: # PCU:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-231	Previous Unit Counter:Distance	Low Speed: # PCU:C	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-232	Previous Unit Counter:Distance	Low Speed: # PCU:M	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-233	Previous Unit Counter:Distance	Low Speed: # PCU:Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-234	Previous Unit Counter:Distance	Middle Speed: # PCU:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-235	Previous Unit Counter:Distance	Middle Speed: # PCU:C	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-236	Previous Unit Counter:Distance	Middle Speed: # PCU:M	ENG	[0 to 4294967295 / 0 / 1mm]
7-906-237	Previous Unit Counter:Distance	Middle Speed: # PCU:Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-907-002	Previous Unit Cntr:Distance(%)	# PCU:K	ENG	[0 to 255 / 0 / 1%]
7-907-003	Previous Unit Cntr:Distance(%)	# Dev Unit:K	ENG	[0 to 255 / 0 / 1%]
7-907-004	Previous Unit Cntr:Distance(%)	Developer:K	ENG	[0 to 255 / 0 / 1%]
7-907-025	Previous Unit Cntr:Distance(%)	# PCU:C	ENG	[0 to 255 / 0 / 1%]
7-907-026	Previous Unit Cntr:Distance(%)	# Dev Unit:C	ENG	[0 to 255 / 0 / 1%]
7-907-	Previous Unit Cntr:Distance(%)	Developer:C	ENG	[0 to 255 / 0 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
027				
7-907-048	Previous Unit Cntr:Distance(%)	# PCU:M	ENG	[0 to 255 / 0 / 1%]
7-907-049	Previous Unit Cntr:Distance(%)	# Dev Unit:M	ENG	[0 to 255 / 0 / 1%]
7-907-050	Previous Unit Cntr:Distance(%)	Developer:M	ENG	[0 to 255 / 0 / 1%]
7-907-071	Previous Unit Cntr:Distance(%)	# PCU:Y	ENG	[0 to 255 / 0 / 1%]
7-907-072	Previous Unit Cntr:Distance(%)	# Dev Unit:Y	ENG	[0 to 255 / 0 / 1%]
7-907-073	Previous Unit Cntr:Distance(%)	Developer:Y	ENG	[0 to 255 / 0 / 1%]
7-907-093	Previous Unit Cntr:Distance(%)	# ITB Unit	ENG	[0 to 255 / 0 / 1%]
7-907-102	Previous Unit Cntr:Distance(%)	# ITB Cleaning Unit	ENG	[0 to 255 / 0 / 1%]
7-907-109	Previous Unit Cntr:Distance(%)	# PTR Unit	ENG	[0 to 255 / 0 / 1%]
7-907-115	Previous Unit Cntr:Distance(%)	# Fusing Unit	ENG	[0 to 255 / 0 / 1%]
7-907-116	Previous Unit Cntr:Distance(%)	Fusing Belt	ENG	[0 to 255 / 0 / 1%]
7-907-118	Previous Unit Cntr:Distance(%)	Pressure Roller	ENG	[0 to 255 / 0 / 1%]
7-908-002	Previous Unit Counter:Pages(%)	# PCU:K	ENG	[0 to 255 / 0 / 1%]
7-908-003	Previous Unit Counter:Pages(%)	# Dev Unit:K	ENG	[0 to 255 / 0 / 1%]
7-908-004	Previous Unit Counter:Pages(%)	Developer:K	ENG	[0 to 255 / 0 / 1%]
7-908-025	Previous Unit Counter:Pages(%)	# PCU:C	ENG	[0 to 255 / 0 / 1%]
7-908-026	Previous Unit Counter:Pages(%)	# Dev Unit:C	ENG	[0 to 255 / 0 / 1%]
7-908-	Previous Unit	Developer:C	ENG	[0 to 255 / 0 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
027	Counter:Pages(%)			
7-908-048	Previous Unit Counter:Pages(%)	# PCU:M	ENG	[0 to 255 / 0 / 1%]
7-908-049	Previous Unit Counter:Pages(%)	# Dev Unit:M	ENG	[0 to 255 / 0 / 1%]
7-908-050	Previous Unit Counter:Pages(%)	Developer:M	ENG	[0 to 255 / 0 / 1%]
7-908-071	Previous Unit Counter:Pages(%)	# PCU:Y	ENG	[0 to 255 / 0 / 1%]
7-908-072	Previous Unit Counter:Pages(%)	# Dev Unit:Y	ENG	[0 to 255 / 0 / 1%]
7-908-073	Previous Unit Counter:Pages(%)	Developer:Y	ENG	[0 to 255 / 0 / 1%]
7-908-093	Previous Unit Counter:Pages(%)	# ITB Unit	ENG	[0 to 255 / 0 / 1%]
7-908-102	Previous Unit Counter:Pages(%)	# ITB Cleaning Unit	ENG	[0 to 255 / 0 / 1%]
7-908-109	Previous Unit Counter:Pages(%)	# PTR Unit	ENG	[0 to 255 / 0 / 1%]
7-908-115	Previous Unit Counter:Pages(%)	# Fusing Unit	ENG	[0 to 255 / 0 / 1%]
7-908-116	Previous Unit Counter:Pages(%)	Fusing Belt	ENG	[0 to 255 / 0 / 1%]
7-908-118	Previous Unit Counter:Pages(%)	Pressure Roller	ENG	[0 to 255 / 0 / 1%]
7-908-131	Previous Unit Counter:Pages(%)	Dust Filter	ENG	[0 to 255 / 0 / 1%]
7-908-142	Previous Unit Counter:Pages(%)	Waste Toner Bottle	ENG	[0 to 255 / 0 / 1%]
7-931-001	Toner Bottle Bk	Machine Serial ID	ENG*	[0 to 255 / 0 / 1]
7-931-002	Toner Bottle Bk	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-931-003	Toner Bottle Bk	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-931-	Toner Bottle Bk	Area ID	ENG*	[0 to 255 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
7-931-005	Toner Bottle Bk	Product ID	ENG*	[0 to 255 / 0 / 1]
7-931-006	Toner Bottle Bk	Color ID	ENG*	[0 to 255 / 0 / 1]
7-931-007	Toner Bottle Bk	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-931-008	Toner Bottle Bk	New Product Information	ENG*	[0 to 255 / 0 / 1]
7-931-009	Toner Bottle Bk	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-931-010	Toner Bottle Bk	Date	ENG*	[0 to 1 / 0 / 1]
7-931-011	Toner Bottle Bk	SerialNo.	ENG*	[0 to 1 / 0 / 1]
7-931-012	Toner Bottle Bk	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-931-013	Toner Bottle Bk	EDP Code	ENG*	[0 to 1 / 0 / 1]
7-931-014	Toner Bottle Bk	End History	ENG*	[0 to 1 / 0 / 1]
7-931-015	Toner Bottle Bk	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-931-016	Toner Bottle Bk	Attachment: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-931-017	Toner Bottle Bk	Attachment: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-931-018	Toner Bottle Bk	End: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-931-019	Toner Bottle Bk	End: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-931-020	Toner Bottle Bk	Attachment Date	ENG*	[0 to 1 / 0 / 1]
7-931-021	Toner Bottle Bk	End Date	ENG*	[0 to 1 / 0 / 1]
7-932-	Toner Bottle M	Machine Serial ID	ENG*	[0 to 255 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
7-932-002	Toner Bottle M	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-932-003	Toner Bottle M	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-932-004	Toner Bottle M	Area ID	ENG*	[0 to 255 / 0 / 1]
7-932-005	Toner Bottle M	Product ID	ENG*	[0 to 255 / 0 / 1]
7-932-006	Toner Bottle M	Color ID	ENG*	[0 to 255 / 0 / 1]
7-932-007	Toner Bottle M	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-932-008	Toner Bottle M	New Product Information	ENG*	[0 to 255 / 0 / 1]
7-932-009	Toner Bottle M	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-932-010	Toner Bottle M	Date	ENG*	[0 to 1 / 0 / 1]
7-932-011	Toner Bottle M	SerialNo.	ENG*	[0 to 1 / 0 / 1]
7-932-012	Toner Bottle M	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-932-013	Toner Bottle M	EDP Code	ENG*	[0 to 1 / 0 / 1]
7-932-014	Toner Bottle M	End History	ENG*	[0 to 1 / 0 / 1]
7-932-015	Toner Bottle M	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-932-016	Toner Bottle M	Attachment: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-932-017	Toner Bottle M	Attachment: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-932-018	Toner Bottle M	End: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-932-	Toner Bottle M	End: Color Counter	ENG*	[0 to 99999999 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
019				
7-932-020	Toner Bottle M	Attachment Date	ENG*	[0 to 1 / 0 / 1]
7-932-021	Toner Bottle M	End Date	ENG*	[0 to 1 / 0 / 1]
7-933-001	Toner Bottle C	MachineSerialID	ENG*	[0 to 255 / 0 / 1]
7-933-002	Toner Bottle C	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-933-003	Toner Bottle C	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-933-004	Toner Bottle C	Area ID	ENG*	[0 to 255 / 0 / 1]
7-933-005	Toner Bottle C	Product ID	ENG*	[0 to 255 / 0 / 1]
7-933-006	Toner Bottle C	Color ID	ENG*	[0 to 255 / 0 / 1]
7-933-007	Toner Bottle C	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-933-008	Toner Bottle C	New Product Information	ENG*	[0 to 255 / 0 / 1]
7-933-009	Toner Bottle C	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-933-010	Toner Bottle C	Date	ENG*	[0 to 1 / 0 / 1]
7-933-011	Toner Bottle C	SerialNo.	ENG*	[0 to 1 / 0 / 1]
7-933-012	Toner Bottle C	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-933-013	Toner Bottle C	EDP Code	ENG*	[0 to 1 / 0 / 1]
7-933-014	Toner Bottle C	End History	ENG*	[0 to 1 / 0 / 1]
7-933-015	Toner Bottle C	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-933-	Toner Bottle C	Attachment: Total Counter	ENG*	[0 to 99999999 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
016				
7-933-017	Toner Bottle C	Attachment: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-933-018	Toner Bottle C	End: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-933-019	Toner Bottle C	End: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-933-020	Toner Bottle C	Attachment Date	ENG*	[0 to 1 / 0 / 1]
7-933-021	Toner Bottle C	End Date	ENG*	[0 to 1 / 0 / 1]
7-934-001	Toner Bottle Y	MachineSerialID	ENG*	[0 to 255 / 0 / 1]
7-934-002	Toner Bottle Y	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-934-003	Toner Bottle Y	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-934-004	Toner Bottle Y	Area ID	ENG*	[0 to 255 / 0 / 1]
7-934-005	Toner Bottle Y	Product ID	ENG*	[0 to 255 / 0 / 1]
7-934-006	Toner Bottle Y	Color ID	ENG*	[0 to 255 / 0 / 1]
7-934-007	Toner Bottle Y	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-934-008	Toner Bottle Y	New Product Information	ENG*	[0 to 255 / 0 / 1]
7-934-009	Toner Bottle Y	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-934-010	Toner Bottle Y	Date	ENG*	[0 to 1 / 0 / 1]
7-934-011	Toner Bottle Y	SerialNo.	ENG*	[0 to 1 / 0 / 1]
7-934-012	Toner Bottle Y	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-934-	Toner Bottle Y	EDP Code	ENG*	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
7-934-014	Toner Bottle Y	End History	ENG*	[0 to 1 / 0 / 1]
7-934-015	Toner Bottle Y	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-934-016	Toner Bottle Y	Attachment: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-934-017	Toner Bottle Y	Attachment: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-934-018	Toner Bottle Y	End: Total Counter	ENG*	[0 to 99999999 / 0 / 1]
7-934-019	Toner Bottle Y	End: Color Counter	ENG*	[0 to 99999999 / 0 / 1]
7-934-020	Toner Bottle Y	Attachment Date	ENG*	[0 to 1 / 0 / 1]
7-934-021	Toner Bottle Y	End Date	ENG*	[0 to 1 / 0 / 1]
7-935-001	Toner Bottle Log 1: Bk	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-935-002	Toner Bottle Log 1: Bk	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-935-003	Toner Bottle Log 1: Bk	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-935-004	Toner Bottle Log 1: Bk	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-935-011	Toner Bottle Log 2: Bk	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-935-012	Toner Bottle Log 2: Bk	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-935-013	Toner Bottle Log 2: Bk	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-935-014	Toner Bottle Log 2: Bk	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-935-021	Toner Bottle Log 3: Bk	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-935-	Toner Bottle Log 3: Bk	Attachment Date	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
022				
7-935-023	Toner Bottle Log 3: Bk	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-935-024	Toner Bottle Log 3: Bk	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-935-031	Toner Bottle Log 4: Bk	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-935-032	Toner Bottle Log 4: Bk	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-935-033	Toner Bottle Log 4: Bk	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-935-034	Toner Bottle Log 4: Bk	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-935-041	Toner Bottle Log 5: Bk	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-935-042	Toner Bottle Log 5: Bk	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-935-043	Toner Bottle Log 5: Bk	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-935-044	Toner Bottle Log 5: Bk	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-936-001	Toner Bottle Log 1: M	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-936-002	Toner Bottle Log 1: M	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-936-003	Toner Bottle Log 1: M	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-936-004	Toner Bottle Log 1: M	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-936-011	Toner Bottle Log 2: M	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-936-012	Toner Bottle Log 2: M	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-936-013	Toner Bottle Log 2: M	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-936-	Toner Bottle Log 2: M	Refill Information	ENG*	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
014				
7-936-021	Toner Bottle Log 3: M	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-936-022	Toner Bottle Log 3: M	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-936-023	Toner Bottle Log 3: M	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-936-024	Toner Bottle Log 3: M	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-936-031	Toner Bottle Log 4: M	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-936-032	Toner Bottle Log 4: M	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-936-033	Toner Bottle Log 4: M	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-936-034	Toner Bottle Log 4: M	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-936-041	Toner Bottle Log 5: M	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-936-042	Toner Bottle Log 5: M	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-936-043	Toner Bottle Log 5: M	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-936-044	Toner Bottle Log 5: M	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-937-001	Toner Bottle Log 1: C	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-937-002	Toner Bottle Log 1: C	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-937-003	Toner Bottle Log 1: C	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-937-004	Toner Bottle Log 1: C	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-937-011	Toner Bottle Log 2: C	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-937-	Toner Bottle Log 2: C	Attachment Date	ENG	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
7-937-013	Toner Bottle Log 2: C	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-937-014	Toner Bottle Log 2: C	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-937-021	Toner Bottle Log 3: C	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-937-022	Toner Bottle Log 3: C	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-937-023	Toner Bottle Log 3: C	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-937-024	Toner Bottle Log 3: C	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-937-031	Toner Bottle Log 4: C	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-937-032	Toner Bottle Log 4: C	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-937-033	Toner Bottle Log 4: C	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-937-034	Toner Bottle Log 4: C	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-937-041	Toner Bottle Log 5: C	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-937-042	Toner Bottle Log 5: C	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-937-043	Toner Bottle Log 5: C	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-937-044	Toner Bottle Log 5: C	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-938-001	Toner Bottle Log 1: Y	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-938-002	Toner Bottle Log 1: Y	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-938-003	Toner Bottle Log 1: Y	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-938-	Toner Bottle Log 1: Y	Refill Information	ENG*	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
7-938-011	Toner Bottle Log 2: Y	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-938-012	Toner Bottle Log 2: Y	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-938-013	Toner Bottle Log 2: Y	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-938-014	Toner Bottle Log 2: Y	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-938-021	Toner Bottle Log 3: Y	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-938-022	Toner Bottle Log 3: Y	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-938-023	Toner Bottle Log 3: Y	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-938-024	Toner Bottle Log 3: Y	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-938-031	Toner Bottle Log 4: Y	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-938-032	Toner Bottle Log 4: Y	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-938-033	Toner Bottle Log 4: Y	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-938-034	Toner Bottle Log 4: Y	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-938-041	Toner Bottle Log 5: Y	SerialNo.	ENG	[0 to 1 / 0 / 1]
7-938-042	Toner Bottle Log 5: Y	Attachment Date	ENG	[0 to 1 / 0 / 1]
7-938-043	Toner Bottle Log 5: Y	Attachment: Total Counter	ENG	[0 to 99999999 / 0 / 1]
7-938-044	Toner Bottle Log 5: Y	Refill Information	ENG*	[0 to 1 / 0 / 1]
7-940-002	PM Value Setting:Life Distance	# PCU:K	ENG	[0 to 999999999 / 0 / 1mm]
7-940-	PM Value Setting:Life Distance	# Dev Unit:K	ENG	[0 to 999999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				1mm]
7-940-004	PM Value Setting:Life Distance	Developer:K	ENG	[0 to 999999999 / 0 / 1mm]
7-940-025	PM Value Setting:Life Distance	# PCU:C	ENG	[0 to 999999999 / 0 / 1mm]
7-940-026	PM Value Setting:Life Distance	# Dev Unit:C	ENG	[0 to 999999999 / 0 / 1mm]
7-940-027	PM Value Setting:Life Distance	Developer:C	ENG	[0 to 999999999 / 0 / 1mm]
7-940-048	PM Value Setting:Life Distance	# PCU:M	ENG	[0 to 999999999 / 0 / 1mm]
7-940-049	PM Value Setting:Life Distance	# Dev Unit:M	ENG	[0 to 999999999 / 0 / 1mm]
7-940-050	PM Value Setting:Life Distance	Developer:M	ENG	[0 to 999999999 / 0 / 1mm]
7-940-071	PM Value Setting:Life Distance	# PCU:Y	ENG	[0 to 999999999 / 0 / 1mm]
7-940-072	PM Value Setting:Life Distance	# Dev Unit:Y	ENG	[0 to 999999999 / 0 / 1mm]
7-940-073	PM Value Setting:Life Distance	Developer:Y	ENG	[0 to 999999999 / 0 / 1mm]
7-940-093	PM Value Setting:Life Distance	# ITB Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-940-102	PM Value Setting:Life Distance	# ITB Cleaning Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-940-109	PM Value Setting:Life Distance	# PTR Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-940-115	PM Value Setting:Life Distance	# Fusing Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-940-116	PM Value Setting:Life Distance	Fusing Belt	ENG	[0 to 999999999 / 0 / 1mm]
7-940-118	PM Value Setting:Life Distance	Pressure Roller	ENG	[0 to 999999999 / 0 / 1mm]
7-942-002	PM Counter Display:Distance(%)	# PCU:K	ENG	[0 to 255 / 0 / 1%]
7-942-	PM Counter	# Dev Unit:K	ENG	[0 to 255 / 0 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003	Display:Distance(%)			
7-942-004	PM Counter Display:Distance(%)	Developer:K	ENG	[0 to 255 / 0 / 1%]
7-942-025	PM Counter Display:Distance(%)	# PCU:C	ENG	[0 to 255 / 0 / 1%]
7-942-026	PM Counter Display:Distance(%)	# Dev Unit:C	ENG	[0 to 255 / 0 / 1%]
7-942-027	PM Counter Display:Distance(%)	Developer:C	ENG	[0 to 255 / 0 / 1%]
7-942-048	PM Counter Display:Distance(%)	# PCU:M	ENG	[0 to 255 / 0 / 1%]
7-942-049	PM Counter Display:Distance(%)	# Dev Unit:M	ENG	[0 to 255 / 0 / 1%]
7-942-050	PM Counter Display:Distance(%)	Developer:M	ENG	[0 to 255 / 0 / 1%]
7-942-071	PM Counter Display:Distance(%)	# PCU:Y	ENG	[0 to 255 / 0 / 1%]
7-942-072	PM Counter Display:Distance(%)	# Dev Unit:Y	ENG	[0 to 255 / 0 / 1%]
7-942-073	PM Counter Display:Distance(%)	Developer:Y	ENG	[0 to 255 / 0 / 1%]
7-942-093	PM Counter Display:Distance(%)	# ITB Unit	ENG	[0 to 255 / 0 / 1%]
7-942-102	PM Counter Display:Distance(%)	# ITB Cleaning Unit	ENG	[0 to 255 / 0 / 1%]
7-942-109	PM Counter Display:Distance(%)	# PTR Unit	ENG	[0 to 255 / 0 / 1%]
7-942-115	PM Counter Display:Distance(%)	# Fusing Unit	ENG	[0 to 255 / 0 / 1%]
7-942-116	PM Counter Display:Distance(%)	Fusing Belt	ENG	[0 to 255 / 0 / 1%]
7-942-118	PM Counter Display:Distance(%)	Pressure Roller	ENG	[0 to 255 / 0 / 1%]
7-944-002	PM Counter Display: Distance	# PCU:K	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-	PM Counter Display: Distance	# Dev Unit:K	ENG*	[0 to 4294967295 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				1mm]
7-944-004	PM Counter Display: Distance	Developer:K	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-025	PM Counter Display: Distance	# PCU:C	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-026	PM Counter Display: Distance	# Dev Unit:C	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-027	PM Counter Display: Distance	Developer:C	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-048	PM Counter Display: Distance	# PCU:M	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-049	PM Counter Display: Distance	# Dev Unit:M	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-050	PM Counter Display: Distance	Developer:M	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-071	PM Counter Display: Distance	# PCU:Y	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-072	PM Counter Display: Distance	# Dev Unit:Y	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-073	PM Counter Display: Distance	Developer:Y	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-093	PM Counter Display: Distance	# ITB Unit	ENG*	[0 to 4294967295 / 0 / 1mm]
7-944-102	PM Counter Display: Distance	# ITB Cleaning Unit	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-109	PM Counter Display: Distance	# PTR Unit	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-115	PM Counter Display: Distance	# Fusing Unit	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-116	PM Counter Display: Distance	Fusing Belt	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-118	PM Counter Display: Distance	Pressure Roller	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-230	PM Counter Display: Distance	Low Speed: # PCU:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-	PM Counter Display: Distance	Low Speed: # PCU:C	ENG	[0 to 4294967295 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
231				1mm]
7-944-232	PM Counter Display: Distance	Low Speed: # PCU:M	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-233	PM Counter Display: Distance	Low Speed: # PCU:Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-234	PM Counter Display: Distance	Middle Speed: # PCU:K	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-235	PM Counter Display: Distance	Middle Speed: # PCU:C	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-236	PM Counter Display: Distance	Middle Speed: # PCU:M	ENG	[0 to 4294967295 / 0 / 1mm]
7-944-237	PM Counter Display: Distance	Middle Speed: # PCU:Y	ENG	[0 to 4294967295 / 0 / 1mm]
7-950-002	Unit Replacement Date	# PCU:K	ENG*	[0 to 1 / 0 / 1]
7-950-003	Unit Replacement Date	# Dev Unit:K	ENG*	[0 to 1 / 0 / 1]
7-950-004	Unit Replacement Date	Developer:K	ENG*	[0 to 1 / 0 / 1]
7-950-025	Unit Replacement Date	# PCU:C	ENG*	[0 to 1 / 0 / 1]
7-950-026	Unit Replacement Date	# Dev Unit:C	ENG*	[0 to 1 / 0 / 1]
7-950-027	Unit Replacement Date	Developer:C	ENG*	[0 to 1 / 0 / 1]
7-950-048	Unit Replacement Date	# PCU:M	ENG*	[0 to 1 / 0 / 1]
7-950-049	Unit Replacement Date	# Dev Unit:M	ENG*	[0 to 1 / 0 / 1]
7-950-050	Unit Replacement Date	Developer:M	ENG*	[0 to 1 / 0 / 1]
7-950-071	Unit Replacement Date	# PCU:Y	ENG*	[0 to 1 / 0 / 1]
7-950-072	Unit Replacement Date	# Dev Unit:Y	ENG*	[0 to 1 / 0 / 1]
7-950-	Unit Replacement Date	Developer:Y	ENG*	[0 to 1 / 0 / 1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
073				
7-950-093	Unit Replacement Date	# ITB Unit	ENG*	[0 to 1 / 0 / 1]
7-950-102	Unit Replacement Date	# ITB Cleaning Unit	ENG*	[0 to 1 / 0 / 1]
7-950-109	Unit Replacement Date	# PTR Unit	ENG*	[0 to 1 / 0 / 1]
7-950-115	Unit Replacement Date	# Fusing Unit	ENG*	[0 to 1 / 0 / 1]
7-950-116	Unit Replacement Date	Fusing Belt	ENG*	[0 to 1 / 0 / 1]
7-950-118	Unit Replacement Date	Pressure Roller	ENG*	[0 to 1 / 0 / 1]
7-950-131	Unit Replacement Date	Dust Filter	ENG*	[0 to 1 / 0 / 1]
7-950-142	Unit Replacement Date	Waste Toner Bottle	ENG*	[0 to 1 / 0 / 1]
7-951-002	Remain Day Counter: Pages	# PCU:K	ENG	[0 to 255 / 255 / 1days]
7-951-003	Remain Day Counter: Pages	# Dev Unit:K	ENG	[0 to 255 / 255 / 1days]
7-951-004	Remain Day Counter: Pages	Developer:K	ENG	[0 to 255 / 255 / 1days]
7-951-025	Remain Day Counter: Pages	# PCU:C	ENG	[0 to 255 / 255 / 1days]
7-951-026	Remain Day Counter: Pages	# Dev Unit:C	ENG	[0 to 255 / 255 / 1days]
7-951-027	Remain Day Counter: Pages	Developer:C	ENG	[0 to 255 / 255 / 1days]
7-951-048	Remain Day Counter: Pages	# PCU:M	ENG	[0 to 255 / 255 / 1days]
7-951-049	Remain Day Counter: Pages	# Dev Unit:M	ENG	[0 to 255 / 255 / 1days]
7-951-050	Remain Day Counter: Pages	Developer:M	ENG	[0 to 255 / 255 / 1days]
7-951-	Remain Day Counter: Pages	# PCU:Y	ENG	[0 to 255 / 255 / 1days]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
071				
7-951-072	Remain Day Counter: Pages	# Dev Unit:Y	ENG	[0 to 255 / 255 / 1days]
7-951-073	Remain Day Counter: Pages	Developer:Y	ENG	[0 to 255 / 255 / 1days]
7-951-093	Remain Day Counter: Pages	# ITB Unit	ENG	[0 to 255 / 255 / 1days]
7-951-102	Remain Day Counter: Pages	# ITB Cleaning Unit	ENG	[0 to 255 / 255 / 1days]
7-951-109	Remain Day Counter: Pages	# PTR Unit	ENG	[0 to 255 / 255 / 1days]
7-951-115	Remain Day Counter: Pages	# Fusing Unit	ENG	[0 to 255 / 255 / 1days]
7-951-116	Remain Day Counter: Pages	Fusing Belt	ENG	[0 to 255 / 255 / 1days]
7-951-118	Remain Day Counter: Pages	Pressure Roller	ENG	[0 to 255 / 255 / 1days]
7-951-131	Remain Day Counter: Pages	Dust Filter	ENG	[0 to 255 / 255 / 1days]
7-951-142	Remain Day Counter: Pages	Waste Toner Bottle	ENG	[0 to 255 / 255 / 1days]
7-952-002	Remain Day Counter: Distance	# PCU:K	ENG	[0 to 255 / 255 / 1days]
7-952-003	Remain Day Counter: Distance	# Dev Unit:K	ENG	[0 to 255 / 255 / 1days]
7-952-004	Remain Day Counter: Distance	Developer:K	ENG	[0 to 255 / 255 / 1days]
7-952-025	Remain Day Counter: Distance	# PCU:C	ENG	[0 to 255 / 255 / 1days]
7-952-026	Remain Day Counter: Distance	# Dev Unit:C	ENG	[0 to 255 / 255 / 1days]
7-952-027	Remain Day Counter: Distance	Developer:C	ENG	[0 to 255 / 255 / 1days]
7-952-048	Remain Day Counter: Distance	# PCU:M	ENG	[0 to 255 / 255 / 1days]
7-952-	Remain Day Counter: Distance	# Dev Unit:M	ENG	[0 to 255 / 255 / 1days]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
049				
7-952-050	Remain Day Counter: Distance	Developer:M	ENG	[0 to 255 / 255 / 1days]
7-952-071	Remain Day Counter: Distance	# PCU:Y	ENG	[0 to 255 / 255 / 1days]
7-952-072	Remain Day Counter: Distance	# Dev Unit:Y	ENG	[0 to 255 / 255 / 1days]
7-952-073	Remain Day Counter: Distance	Developer:Y	ENG	[0 to 255 / 255 / 1days]
7-952-093	Remain Day Counter: Distance	# ITB Unit	ENG	[0 to 255 / 255 / 1days]
7-952-102	Remain Day Counter: Distance	# ITB Cleaning Unit	ENG	[0 to 255 / 255 / 1days]
7-952-109	Remain Day Counter: Distance	# PTR Unit	ENG	[0 to 255 / 255 / 1days]
7-952-115	Remain Day Counter: Distance	# Fusing Unit	ENG	[0 to 255 / 255 / 1days]
7-952-116	Remain Day Counter: Distance	Fusing Belt	ENG	[0 to 255 / 255 / 1days]
7-952-118	Remain Day Counter: Distance	Pressure Roller	ENG	[0 to 255 / 255 / 1days]
7-953-001	Operation Env. Log: PCU: K	T<=0	ENG	[0 to 999999999 / 0 / 1mm]
7-953-002	Operation Env. Log: PCU: K	0<T<=5:0<=H<30	ENG	[0 to 999999999 / 0 / 1mm]
7-953-003	Operation Env. Log: PCU: K	0<T<=5:30<=H<70	ENG	[0 to 999999999 / 0 / 1mm]
7-953-004	Operation Env. Log: PCU: K	0<T<=5:70<=H<=100	ENG	[0 to 999999999 / 0 / 1mm]
7-953-005	Operation Env. Log: PCU: K	5<T<15:0<=H<30	ENG	[0 to 999999999 / 0 / 1mm]
7-953-006	Operation Env. Log: PCU: K	5<T<15:30<=H<55	ENG	[0 to 999999999 / 0 / 1mm]
7-953-007	Operation Env. Log: PCU: K	5<T<15:55<=H<80	ENG	[0 to 999999999 / 0 / 1mm]
7-953-	Operation Env. Log: PCU: K	5<T<15:80<=H<=100	ENG	[0 to 999999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
008				1mm]
7-953-009	Operation Env. Log: PCU: K	15<=T<25:0<=H<30	ENG	[0 to 999999999 / 0 / 1mm]
7-953-010	Operation Env. Log: PCU: K	15<=T<25:30<=H<55	ENG	[0 to 999999999 / 0 / 1mm]
7-953-011	Operation Env. Log: PCU: K	15<=T<25:55<=H<80	ENG	[0 to 999999999 / 0 / 1mm]
7-953-012	Operation Env. Log: PCU: K	15<=T<25:80<=H<=100	ENG	[0 to 999999999 / 0 / 1mm]
7-953-013	Operation Env. Log: PCU: K	25<=T<30:0<=H<30	ENG	[0 to 999999999 / 0 / 1mm]
7-953-014	Operation Env. Log: PCU: K	25<=T<30:30<=H<55	ENG	[0 to 999999999 / 0 / 1mm]
7-953-015	Operation Env. Log: PCU: K	25<=T<30:55<=H<80	ENG	[0 to 999999999 / 0 / 1mm]
7-953-016	Operation Env. Log: PCU: K	25<=T<30:80<=H<=100	ENG	[0 to 999999999 / 0 / 1mm]
7-953-017	Operation Env. Log: PCU: K	30<=T:0<=H<30	ENG	[0 to 999999999 / 0 / 1mm]
7-953-018	Operation Env. Log: PCU: K	30<=T:30<=H<55	ENG	[0 to 999999999 / 0 / 1mm]
7-953-019	Operation Env. Log: PCU: K	30<=T:55<=H<80	ENG	[0 to 999999999 / 0 / 1mm]
7-953-020	Operation Env. Log: PCU: K	30<=T:80<=H<=100	ENG	[0 to 999999999 / 0 / 1mm]
7-953-021	Operation Env. Log: PCU: K	35<=T:0<=H<=100	ENG	[0 to 999999999 / 0 / 1mm]
7-953-100	Operation Env. Log Clear		ENG	[0 to 1 / 0 / 1]
7-954-002	PM Counter Display: Pages (%)	# PCU:K	ENG	[0 to 255 / 0 / 1%]
7-954-003	PM Counter Display: Pages (%)	# Dev Unit:K	ENG	[0 to 255 / 0 / 1%]
7-954-004	PM Counter Display: Pages (%)	Developer:K	ENG	[0 to 255 / 0 / 1%]
7-954-	PM Counter Display: Pages (%)	# PCU:C	ENG	[0 to 255 / 0 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
025				
7-954-026	PM Counter Display: Pages (%)	# Dev Unit:C	ENG	[0 to 255 / 0 / 1%]
7-954-027	PM Counter Display: Pages (%)	Developer:C	ENG	[0 to 255 / 0 / 1%]
7-954-048	PM Counter Display: Pages (%)	# PCU:M	ENG	[0 to 255 / 0 / 1%]
7-954-049	PM Counter Display: Pages (%)	# Dev Unit:M	ENG	[0 to 255 / 0 / 1%]
7-954-050	PM Counter Display: Pages (%)	Developer:M	ENG	[0 to 255 / 0 / 1%]
7-954-071	PM Counter Display: Pages (%)	# PCU:Y	ENG	[0 to 255 / 0 / 1%]
7-954-072	PM Counter Display: Pages (%)	# Dev Unit:Y	ENG	[0 to 255 / 0 / 1%]
7-954-073	PM Counter Display: Pages (%)	Developer:Y	ENG	[0 to 255 / 0 / 1%]
7-954-093	PM Counter Display: Pages (%)	# ITB Unit	ENG	[0 to 255 / 0 / 1%]
7-954-102	PM Counter Display: Pages (%)	# ITB Cleaning Unit	ENG	[0 to 255 / 0 / 1%]
7-954-109	PM Counter Display: Pages (%)	# PTR Unit	ENG	[0 to 255 / 0 / 1%]
7-954-115	PM Counter Display: Pages (%)	# Fusing Unit	ENG	[0 to 255 / 0 / 1%]
7-954-116	PM Counter Display: Pages (%)	Fusing Belt	ENG	[0 to 255 / 0 / 1%]
7-954-118	PM Counter Display: Pages (%)	Pressure Roller	ENG	[0 to 255 / 0 / 1%]
7-954-131	PM Counter Display: Pages (%)	Dust Filter	ENG	[0 to 255 / 0 / 1%]
7-954-142	PM Counter Display: Pages (%)	Waste Toner Bottle	ENG	[0 to 255 / 0 / 1%]
7-955-002	Estimated Remain Pages	# PCU:K	ENG	[0 to 9999999 / 0 / 1page]
7-955-	Estimated Remain Pages	# Dev Unit:K	ENG	[0 to 9999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				1page]
7-955-004	Estimated Remain Pages	Developer:K	ENG	[0 to 9999999 / 0 / 1page]
7-955-025	Estimated Remain Pages	# PCU:C	ENG	[0 to 9999999 / 0 / 1page]
7-955-026	Estimated Remain Pages	# Dev Unit:C	ENG	[0 to 9999999 / 0 / 1page]
7-955-027	Estimated Remain Pages	Developer:C	ENG	[0 to 9999999 / 0 / 1page]
7-955-048	Estimated Remain Pages	# PCU:M	ENG	[0 to 9999999 / 0 / 1page]
7-955-049	Estimated Remain Pages	# Dev Unit:M	ENG	[0 to 9999999 / 0 / 1page]
7-955-050	Estimated Remain Pages	Developer:M	ENG	[0 to 9999999 / 0 / 1page]
7-955-071	Estimated Remain Pages	# PCU:Y	ENG	[0 to 9999999 / 0 / 1page]
7-955-072	Estimated Remain Pages	# Dev Unit:Y	ENG	[0 to 9999999 / 0 / 1page]
7-955-073	Estimated Remain Pages	Developer:Y	ENG	[0 to 9999999 / 0 / 1page]
7-955-093	Estimated Remain Pages	# ITB Unit	ENG	[0 to 9999999 / 0 / 1page]
7-955-102	Estimated Remain Pages	# ITB Cleaning Unit	ENG	[0 to 9999999 / 0 / 1page]
7-955-109	Estimated Remain Pages	# PTR Unit	ENG	[0 to 9999999 / 0 / 1page]
7-955-115	Estimated Remain Pages	# Fusing Unit	ENG	[0 to 9999999 / 0 / 1page]
7-955-116	Estimated Remain Pages	Fusing Belt	ENG	[0 to 9999999 / 0 / 1page]
7-955-118	Estimated Remain Pages	Pressure Roller	ENG	[0 to 9999999 / 0 / 1page]
7-956-002	Estimated Remain Days	# PCU:K	ENG	[0 to 255 / 255 / 1days]
7-956-	Estimated Remain Days	# Dev Unit:K	ENG	[0 to 255 / 255 / 1days]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
7-956-004	Estimated Remain Days	Developer:K	ENG	[0 to 255 / 255 / 1days]
7-956-025	Estimated Remain Days	# PCU:C	ENG	[0 to 255 / 255 / 1days]
7-956-026	Estimated Remain Days	# Dev Unit:C	ENG	[0 to 255 / 255 / 1days]
7-956-027	Estimated Remain Days	Developer:C	ENG	[0 to 255 / 255 / 1days]
7-956-048	Estimated Remain Days	# PCU:M	ENG	[0 to 255 / 255 / 1days]
7-956-049	Estimated Remain Days	# Dev Unit:M	ENG	[0 to 255 / 255 / 1days]
7-956-050	Estimated Remain Days	Developer:M	ENG	[0 to 255 / 255 / 1days]
7-956-071	Estimated Remain Days	# PCU:Y	ENG	[0 to 255 / 255 / 1days]
7-956-072	Estimated Remain Days	# Dev Unit:Y	ENG	[0 to 255 / 255 / 1days]
7-956-073	Estimated Remain Days	Developer:Y	ENG	[0 to 255 / 255 / 1days]
7-956-093	Estimated Remain Days	# ITB Unit	ENG	[0 to 255 / 255 / 1days]
7-956-102	Estimated Remain Days	# ITB Cleaning Unit	ENG	[0 to 255 / 255 / 1days]
7-956-109	Estimated Remain Days	# PTR Unit	ENG	[0 to 255 / 255 / 1days]
7-956-115	Estimated Remain Days	# Fusing Unit	ENG	[0 to 255 / 255 / 1days]
7-956-116	Estimated Remain Days	Fusing Belt	ENG	[0 to 255 / 255 / 1days]
7-956-118	Estimated Remain Days	Pressure Roller	ENG	[0 to 255 / 255 / 1days]
7-956-131	Estimated Remain Days	Dust Filter	ENG	[0 to 255 / 255 / 1days]
7-956-	Estimated Remain Days	Waste Toner Bottle	ENG	[0 to 255 / 255 / 1days]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
142				
7-957-002	Monthly Average Pages	# PCU:K	ENG	[0 to 9999999 / 0 / 1page]
7-957-003	Monthly Average Pages	# Dev Unit:K	ENG	[0 to 9999999 / 0 / 1page]
7-957-004	Monthly Average Pages	Developer:K	ENG	[0 to 9999999 / 0 / 1page]
7-957-025	Monthly Average Pages	# PCU:C	ENG	[0 to 9999999 / 0 / 1page]
7-957-026	Monthly Average Pages	# Dev Unit:C	ENG	[0 to 9999999 / 0 / 1page]
7-957-027	Monthly Average Pages	Developer:C	ENG	[0 to 9999999 / 0 / 1page]
7-957-048	Monthly Average Pages	# PCU:M	ENG	[0 to 9999999 / 0 / 1page]
7-957-049	Monthly Average Pages	# Dev Unit:M	ENG	[0 to 9999999 / 0 / 1page]
7-957-050	Monthly Average Pages	Developer:M	ENG	[0 to 9999999 / 0 / 1page]
7-957-071	Monthly Average Pages	# PCU:Y	ENG	[0 to 9999999 / 0 / 1page]
7-957-072	Monthly Average Pages	# Dev Unit:Y	ENG	[0 to 9999999 / 0 / 1page]
7-957-073	Monthly Average Pages	Developer:Y	ENG	[0 to 9999999 / 0 / 1page]
7-957-093	Monthly Average Pages	# ITB Unit	ENG	[0 to 9999999 / 0 / 1page]
7-957-102	Monthly Average Pages	# ITB Cleaning Unit	ENG	[0 to 9999999 / 0 / 1page]
7-957-109	Monthly Average Pages	# PTR Unit	ENG	[0 to 9999999 / 0 / 1page]
7-957-115	Monthly Average Pages	# Fusing Unit	ENG	[0 to 9999999 / 0 / 1page]
7-957-116	Monthly Average Pages	Fusing Belt	ENG	[0 to 9999999 / 0 / 1page]
7-957-	Monthly Average Pages	Pressure Roller	ENG	[0 to 9999999 / 0 /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
118				1page]
7-958-002	PM Value Setting:DaysThreshold	# PCU:K	ENG	[1 to 30 / 15 / 1days]
7-958-003	PM Value Setting:DaysThreshold	# Dev Unit:K	ENG	[1 to 30 / 15 / 1days]
7-958-004	PM Value Setting:DaysThreshold	Developer:K	ENG	[1 to 30 / 15 / 1days]
7-958-025	PM Value Setting:DaysThreshold	# PCU:C	ENG	[1 to 30 / 15 / 1days]
7-958-026	PM Value Setting:DaysThreshold	# Dev Unit:C	ENG	[1 to 30 / 15 / 1days]
7-958-027	PM Value Setting:DaysThreshold	Developer:C	ENG	[1 to 30 / 15 / 1days]
7-958-048	PM Value Setting:DaysThreshold	# PCU:M	ENG	[1 to 30 / 15 / 1days]
7-958-049	PM Value Setting:DaysThreshold	# Dev Unit:M	ENG	[1 to 30 / 15 / 1days]
7-958-050	PM Value Setting:DaysThreshold	Developer:M	ENG	[1 to 30 / 15 / 1days]
7-958-071	PM Value Setting:DaysThreshold	# PCU:Y	ENG	[1 to 30 / 15 / 1days]
7-958-072	PM Value Setting:DaysThreshold	# Dev Unit:Y	ENG	[1 to 30 / 15 / 1days]
7-958-073	PM Value Setting:DaysThreshold	Developer:Y	ENG	[1 to 30 / 15 / 1days]
7-958-093	PM Value Setting:DaysThreshold	# ITB Unit	ENG	[1 to 30 / 15 / 1days]
7-958-102	PM Value Setting:DaysThreshold	# ITB Cleaning Unit	ENG	[1 to 30 / 15 / 1days]
7-958-109	PM Value Setting:DaysThreshold	# PTR Unit	ENG	[1 to 30 / 15 / 1days]
7-958-115	PM Value Setting:DaysThreshold	# Fusing Unit	ENG	[1 to 30 / 15 / 1days]
7-958-116	PM Value Setting:DaysThreshold	Fusing Belt	ENG	[1 to 30 / 15 / 1days]
7-958-	PM Value	Pressure Roller	ENG	[1 to 30 / 15 / 1days]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
118	Setting:DaysThreshold			
7-958-131	PM Value Setting:DaysThreshold	Dust Filter	ENG	[1 to 30 / 15 / 1days]
7-958-142	PM Value Setting:DaysThreshold	Waste Toner Bottle	ENG	[1 to 30 / 15 / 1days]
7-959-001	Fusing: Stop	Near End: Page	ENG	[0 to 99999999 / 415000 / 1page]
7-959-002	Fusing: Stop	End: Page	ENG	[0 to 99999999 / 430000 / 1page]
7-959-003	Fusing: Stop	Near End: Rotation	ENG	[0 to 999999999 / 302229000 / 1mm]
7-959-004	Fusing: Stop	End: Rotation	ENG	[0 to 999999999 / 313153000 / 1mm]
7-960-002	Estimated Usage Rate	# PCU:K	ENG	[0 to 255 / 0 / 1%]
7-960-003	Estimated Usage Rate	# Dev Unit:K	ENG	[0 to 255 / 0 / 1%]
7-960-004	Estimated Usage Rate	Developer:K	ENG	[0 to 255 / 0 / 1%]
7-960-025	Estimated Usage Rate	# PCU:C	ENG	[0 to 255 / 0 / 1%]
7-960-026	Estimated Usage Rate	# Dev Unit:C	ENG	[0 to 255 / 0 / 1%]
7-960-027	Estimated Usage Rate	Developer:C	ENG	[0 to 255 / 0 / 1%]
7-960-048	Estimated Usage Rate	# PCU:M	ENG	[0 to 255 / 0 / 1%]
7-960-049	Estimated Usage Rate	# Dev Unit:M	ENG	[0 to 255 / 0 / 1%]
7-960-050	Estimated Usage Rate	Developer:M	ENG	[0 to 255 / 0 / 1%]
7-960-071	Estimated Usage Rate	# PCU:Y	ENG	[0 to 255 / 0 / 1%]
7-960-072	Estimated Usage Rate	# Dev Unit:Y	ENG	[0 to 255 / 0 / 1%]
7-960-	Estimated Usage Rate	Developer:Y	ENG	[0 to 255 / 0 / 1%]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
073				
7-960-093	Estimated Usage Rate	# ITB Unit	ENG	[0 to 255 / 0 / 1%]
7-960-102	Estimated Usage Rate	# ITB Cleaning Unit	ENG	[0 to 255 / 0 / 1%]
7-960-109	Estimated Usage Rate	# PTR Unit	ENG	[0 to 255 / 0 / 1%]
7-960-115	Estimated Usage Rate	# Fusing Unit	ENG	[0 to 255 / 0 / 1%]
7-960-116	Estimated Usage Rate	Fusing Belt	ENG	[0 to 255 / 0 / 1%]
7-960-118	Estimated Usage Rate	Pressure Roller	ENG	[0 to 255 / 0 / 1%]
7-960-131	Estimated Usage Rate	Dust Filter	ENG	[0 to 255 / 0 / 1%]
7-960-142	Estimated Usage Rate	Waste Toner Bottle	ENG	[0 to 255 / 0 / 1%]
7-979-001	ENG Reset Log	Data1	ENG*	[0x00 to 0xFF / 0x00 / 1]
7-979-002	ENG Reset Log	Data2	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-003	ENG Reset Log	Data3	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-004	ENG Reset Log	Data4	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-005	ENG Reset Log	Data5	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-006	ENG Reset Log	Data6	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-007	ENG Reset Log	Data7	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-008	ENG Reset Log	Data8	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-009	ENG Reset Log	Data9	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-	ENG Reset Log	Data10	ENG*	[0x0000 to 0xFFFF /

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
010				0x0000 / 1]
7-979-011	ENG Reset Log	Data11	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-012	ENG Reset Log	Data12	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-013	ENG Reset Log	Data13	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-014	ENG Reset Log	Data14	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-015	ENG Reset Log	Data15	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-016	ENG Reset Log	Data16	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-017	ENG Reset Log	Data17	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-018	ENG Reset Log	Data18	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-019	ENG Reset Log	Data19	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-020	ENG Reset Log	Data20	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-979-021	ENG Reset Log	Data21	ENG*	[0x0000 to 0xFFFF / 0x0000 / 1]
7-980-001	Current for Torque Calculation	OPCTransferMotor	ENG*	[0 to 9.999 / 0 / 0.001A]
7-980-002	Current for Torque Calculation	BkDevMotor	ENG*	[0 to 9.999 / 0 / 0.001A]
7-980-003	Current for Torque Calculation	ColorOpcMotor	ENG*	[0 to 9.999 / 0 / 0.001A]
7-980-004	Current for Torque Calculation	ColorDevMotor	ENG*	[0 to 9.999 / 0 / 0.001A]
7-980-005	Current for Torque Calculation	FusingMotor	ENG*	[0 to 9.999 / 0 / 0.001A]
7-981-001	Edict:OffsetValueForTorqCalcu	ManualExe	ENG	[0 to 1 / 0 / 1]
7-982-	OffsetValueForTorqCalculation	OPCTransferMotor	ENG*	[0 to 655.35 / 0 / 0.01-]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
7-982-002	OffsetValueForTorqCalculation	BkDevMotor	ENG*	[0 to 655.35 / 0 / 0.01-]
7-982-003	OffsetValueForTorqCalculation	ColorOpcMotor	ENG*	[0 to 655.35 / 0 / 0.01-]
7-982-004	OffsetValueForTorqCalculation	ColorDevMotor	ENG*	[0 to 655.35 / 0 / 0.01-]
7-982-005	OffsetValueForTorqCalculation	FusingMotor	ENG*	[0 to 655.35 / 0 / 0.01-]
7-983-001	OutputLevel1CountNo.	OPCTransferMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-983-002	OutputLevel1CountNo.	BkDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-983-003	OutputLevel1CountNo.	ColorOpcMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-983-004	OutputLevel1CountNo.	ColorDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-983-005	OutputLevel1CountNo.	FusingMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-984-001	OutputLevel2CountNo.	OPCTransferMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-984-002	OutputLevel2CountNo.	BkDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-984-003	OutputLevel2CountNo.	ColorOpcMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-984-004	OutputLevel2CountNo.	ColorDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-984-005	OutputLevel2CountNo.	FusingMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-985-001	OutputLevel3CountNo.	OPCTransferMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-985-002	OutputLevel3CountNo.	BkDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-985-003	OutputLevel3CountNo.	ColorOpcMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-985-	OutputLevel3CountNo.	ColorDevMotor	ENG*	[0 to 65535 / 0 / 1Count]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
7-985-005	OutputLevel3CountNo.	FusingMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-986-001	VelocityErr.CountNo.	OPCTransferMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-986-002	VelocityErr.CountNo.	BkDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-986-003	VelocityErr.CountNo.	ColorOpcMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-986-004	VelocityErr.CountNo.	ColorDevMotor	ENG*	[0 to 65535 / 0 / 1Count]
7-986-005	VelocityErr.CountNo.	FusingMotor	ENG*	[0 to 65535 / 0 / 1Count]

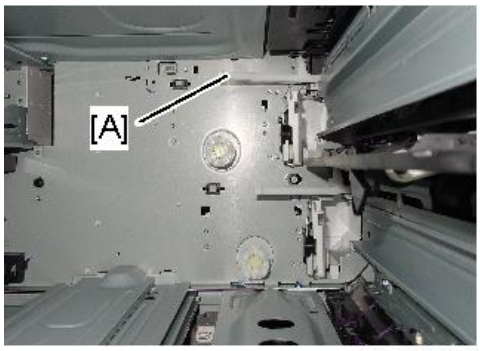
Input and Output Check

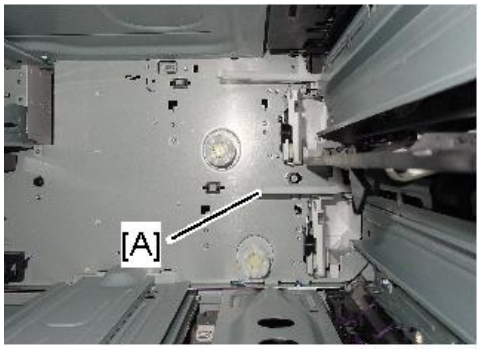
Input Check Table

Main Machine, Paper Feed Tray

5803	**[INPUT Check]**		
5-803-001	Registration Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on register sensor position. (0: paper exist, 1: paper non exist)		
5-803-002	Paper Feed Sensor 1	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on 1st paper feed sensor position. (0: paper exist, 1: paper non exist)		
5-803-003	Transport Sensor 1	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on 1st carry sensor position. (0: paper exist, 1: paper non exist)		
5-803-004	Paper Feed Sensor 2	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on 2nd paper feed sensor position. (0: paper exist, 1: paper non exist)		
5-803-005	Transport Sensor 2	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on 2nd carry sensor position. (0: paper exist, 1: paper non exist)		
5-803-006	Fusing Entrance Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on fusing entrance sensor position. (0: paper exist, 1: paper non exist)		
5-803-007	Fusing Exit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist

	Responds to paper existence on fusing exit sensor position. (0: paper exist, 1: paper non exist)		
5-803-008	Paper Exit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on paper exit sensor position. (0: paper exist, 1: paper non exist)		
5-803-009	Inverter Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on reverse sensor position. (0: paper exist, 1: paper non exist)		
5-803-010	Duplex Exit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on duplex exit sensor position. (0: paper exist, 1: paper non exist)		
5-803-011	Duplex Entrance Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on duplex entrance sensor position. (0: paper exist, 1: paper non exist)		
5-803-012	Tray Full Exit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Not full 1: full
	Detects paper full of main unit paper exit tray. (0: Not full, 1: full)		
5-803-013	Tray 1: Paper Height Sensor	ENG	[0 to 3 / **0** / 1/step] When full is 100%, 11: 71 to 100% 01: 31 to 70% 00: 11 to 30% 10: 1 to 10%
	Detects remaining paper amount of 1st paper feed tray. (When full is 100%, 11: 71 to 100%, 01: 31 to 70%, 00: 11 to 30%, 10: 1 to 10%) *Check SP5-803-015 for paper end. * As long as you do not press the white arm [A] of the machine side in the tray back, not output.		

	 m0ajm0106		
5-803-014	Tray 1: Upper Limit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: less then limit 1: high then limit
	Detects the height of paper loaded in 1st paper feed tray. (0: less then limit, 1: high then limit) * As long as you do not press the white bar of the machine side in the tray back, not output.		
5-803-015	Tray 1: Paper End Detection	ENG	[0 or 1 / **0** / 1/step] 0: No paper 1: paper remaining
	Detects paper is running out on 1st paper feed tray. (0: No paper, 1: paper remaining)		
5-803-016	Tray 1: Set Sensor	ENG	[0 or 1 / **0** / 1/step] 0: set 1:not set
	Detects that 1st paper feed tray is set to main unit. (0: set, 1:not set)		
5-803-017	Tray 2: Paper Height Sensor	ENG	[0 to 3 / **0** / 1/step] When full is 100%, 11: 71 to 100% 01: 31 to 70% 00: 11 to 30% 10: 1 to 10%
	Detects remaining paper amount of 2nd paper feed tray. (When full is 100%, 11: 71 to 100%, 01: 31 to 70%, 00: 11 to 30%, 10: 1 to 10%) *Check SP5-803-019 for paper end.		
5-803-018	Tray 2: Paper End Sensor	ENG	[0 or 1 / **0** / 1/step] 0: less then limit 1: high then limit
	Detects the height of paper loaded in 2nd paper feed tray. (0: less then limit, 1: high then limit)		

	* As long as you do not press the white arm [A] of the machine side in the tray back, not output.  m0ajm0105		
5-803-019	Tray 2: Paper End Detection	ENG	[0 or 1 / **0** / 1/step] 0: No paper 1: paper remaining
	Detects paper running out of 2nd paper feed tray. (0: No paper, 1: paper remaining)		
5-803-020	Tray 2: Set Sensor	ENG	[0 or 1 / **0** / 1/step] 0: set 1: not set
	Detects that 2nd paper feed tray is set to main unit. (0: set, 1:not set)		
5-803-021	Tray 2: Size Sensor	ENG	[0 to 15 / **0** / 1/step]
	Value changes depending on paper size (fence position) set to 2nd paper feed tray.		
5-803-022	By-pass: Paper End Sensor	ENG	[0 or 1 / **0** / 1/step] 0: No paper 1: paper remaining
	Detects paper is running out on bypass tray. (0: No paper, 1: paper remaining)		
5-803-023	By-pass: Main Scan Length Sensor	ENG	[0 to 31 / **0** / 1/step]
	Value changes depending on main scan direction of paper set to bypass tray.		
5-803-024	By-pass: Sub Scan Length Sensor	ENG	[0 or 1 / **0** / 1/step]
	Value changes depending on sub scan direction of paper set to bypass tray.		
5-803-025	Interlock Release Detection	ENG	[0 to 1 / **0** / 1/step] 00: Unlocked 11: Locked
	Detects open/close of interlock switch (front cover/right cover). (00: Unlocked, 11: Locked)		
5-803-026	Right Door Open/Close Sensor	ENG	[0 or 1 / **0** / 1/step] 0: close 1: open

	Detects right door status. (0: close, 1: open)		
5-803-027	Duplex Guide Plate Open/Close Sensor	ENG	[0 or 1 / **0** / 1/step] 0: close 1: open
	Detects duplex guide plate status. (0: close, 1: open)		
5-803-028	PTR Open/Close Sensor	ENG	[0 or 1 / **0** / 1/step] 0: open 1: close
	Detects paper transfer unit status. (0: open, 1: close)		
5-803-029	ITB Contact Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Abutting 1: Alienate
	Detects image transfer roller (Y, M, and C) and photoreceptors distance. (0: Abutting, 1: Alienate)		
5-803-030	PTR Contact Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Abutting 1: Alienate
	Detects image transfer belt and paper transfer rollers distance. (0: Abutting, 1: Alienate)		
5-803-031	New ITB Unit Detection	ENG	[0 or 1 / **0** / 1/step] 0: New 1: Old
	Detects New/Old of Image transfer unit.		
5-803-032	Toner Collection Full Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Not full 1: full
	Detects full of waste toner bottle. (0: Not full, 1: full)		
5-803-033	Toner Collection Bottle Set Sensor	ENG	[0 or 1 / **0** / 1/step] 0: set 1: not set
	Detects that waste toner bottle is set to main unit. (0: set, 1:not set)		
5-803-034	Toner End Sensor:Y	ENG	[0 or 1 / **0** / 1/step] 0: End

			1: Not End
	Detects remaining toner amount. *Power with SP5-804-173 before checking. (0: End, 1: Not End)		
5-803-035	Toner End Sensor:M	ENG	[0 or 1 / **0** / 1/step] 0: End 1: Not End
	Detects remaining toner amount. *Power with SP5-804-173 before checking. (0: End, 1: Not End)		
5-803-036	Toner End Sensor:C	ENG	[0 or 1 / **0** / 1/step] 0: End 1: Not End
	Detects remaining toner amount. *Power with SP5-804-173 before checking. (0: End, 1: Not End)		
5-803-037	Toner End Sensor:K	ENG	[0 or 1 / **0** / 1/step] 0: End 1: Not End
	Detects remaining toner amount. *Power with SP5-804-172 before checking. (0: End, 1: Not End)		
5-803-038	Fusing:Area Detection	ENG	[0 to 15 / **0** / 1/step] 01: 200V system 10: 100V System 00 or 11: Unit set error
	Detects region of fusing unit.		
5-803-039	Fusing:New Unit Detection	ENG	[0 or 1 / **0** / 1/step] 0: New 1: Old
	Detects New/Old of fusing unit. (0: New, 1: Old)		
5-803-040	Fusing Temp Detect	ENG	[0 or 1 / **0** / 1/step] 0: Normal 1: High temperature
	Detects whether high temperature is detected from fusing unit. (0: Normal, 1: High temperature)		
5-803-	NC Sensor Temp Detection/ 2	ENG	[0 or 1 / **0** / 1/step]

041			0: Normal 1: High temperature
	Detects whether high temperature is detected from fusing unit. (0: Normal, 1: High temperature)		
5-803-042	NC Sensor Temp Detection/ 1	ENG	[0 or 1 / **0** / 1/step] 0: Normal 1: High temperature
	Detects whether high temperature is detected from fusing unit. (0: Normal, 1: High temperature)		
5-803-043	Reverse Open/Close Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Close 1: Open
	Detects open/close of the inverter guide cover sensor. Always outputs "1: Open" when connecting the mailbox.		
5-803-047	Nip Pres. Release Home Position Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Pressured 1: Not pressured
	Detects state of fusing nip pressure.		
5-803-048	Fusing Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of fusing exhaust heat fan. (0: Running, 1: Stopped, or locked)		
5-803-049	Dev Fan: Right: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of developer air intake fan (right). (0: Running, 1: Stopped, or locked)		
5-803-051	PSU Cooling Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of PSU cooling fan. (0: Running, 1: Stopped, or locked)		
5-803-052	Ozone Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of ozone exhaust air fan. (0: Running, 1: Stopped, or locked)		

5-803-055	PCB Box Cooling Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of electric box cooling fan. (0: Running, 1: Stopped, or locked)		
5-803-056	Drive Cooling Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of drive cooling fan. (0: Running, 1: Stopped, or locked)		
5-803-057	Ventilation Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of main unit exhaust heat fan. (0: Running, 1: Stopped, or locked)		
5-803-058	Paper Exit Cooling Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of paper exit cooling fan. (0: Running, 1: Stopped, or locked)		
5-803-060	Toner Supply Cooling Fan: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of toner supply cooling fan. (0: Running, 1: Stopped, or locked)		
5-803-061	Development Motor K: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Running 1: Stopped, or locked
	Detects locking of developer motor (K). (0: Running, 1: Stopped, or locked)		
5-803-063	Development Motor FC: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Stopped, or locked 1: Running
	Detects locking of developer motor (FC). (0: Running, 1: Stopped, or locked)		
5-803-064	Drum Motor FC: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Stopped, or locked 1: Running

	Detects locking of drum motor (FC). (0: Running, 1: Stopped, or locked)		
5-803-065	Fusing Motor: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Stopped, or locked 1: Running
	Detects locking of fusing motor. (0: Running, 1: Stopped, or locked)		
5-803-066	Transfer Drum Motor K: Lock	ENG	[0 or 1 / **0** / 1/step] 0: Stopped, or locked 1: Running
	Detects locking of transfer drum motor K. (0: Running, 1: Stopped, or locked)		
5-803-068	PP:CB:SC Detection	ENG	[0 or 1 / **0** / 1/step] 0: SC detected 1: Normal
	Detects SC of HVP (electrify/develop). (0: SC detected, 1: Normal)		
5-803-069	PP:TTS:SC Detection	ENG	[0 or 1 / **0** / 1/step] 0: SC detected 1: Normal
	Detects SC of HVP (transfer). (0: SC detected, 1: Normal)		
5-803-072	Key Counter: Set 1	ENG	[0 or 1 / **0** / 1/step] 0: set 1:unset key counter: set 1=0, 2=1 for set, others for unset
	Detects setting of key counter. (0: set, 1:unset) (key counter: set 1=0, 2=1 for set, others for unset)		
5-803-073	Key Counter: Set 2	ENG	[0 or 1 / **0** / 1/step] 0: unset 1: set key counter: set 1=0, 2=1 for set, others for unset
	Detects setting of key counter. (0: unset, 1:set) (key counter: set 1=0, 2=1 for set, others for unset)		

5-803-074	Key Card Set	ENG	[0 or 1 / **0** / 1/step] 0: set 1: not set
	Detects that key card is set to main unit. (0: set, 1:not set)		
5-803-075	1 Bin Tray: Paper Sensor	ENG	**Not used.**
5-803-076	1 Bin Tray: Set Detection System	ENG	**Not used.**
5-803-077	Bridge Relay Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper exist 1: paper non exist
	Responds to paper existence on carry sensor position or bridge unit. (0: paper exist, 1: paper non exist)		
5-803-078	Bridge Exit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Paper exist 1: Paper do not exist
	Responds to paper existence on paper exit sensor position or bridge unit. (0: paper exist, 1: paper non exist)		
5-803-079	Bridge Set Detection System	ENG	[0 or 1 / **0** / 1/step] 10: set 11:not set
	Detects that bridge unit is set to main unit. (10: set, 11:not set)		
5-803-082	Bridge Relay/Left Exit Cover Sensor	ENG	[0 or 1 / **0** / 1/step] 0: close 1: open
	Detects open/close of the relay carry cover open/close sensor (bridge unit). (0: close, 1: open)		
5-803-083	Bridge Exit/Upper Exit Cover Sensor	ENG	[0 or 1 / **0** / 1/step] 0: close 1: open
	Detects open/close of the relay paper exit cover open/close sensor (bridge unit). (0: close, 1: open)		
5-803-084	Shift Tray: Set Detection System	ENG	**Not used.**
5-803-085	Shift Tray: Position Sensor 1	ENG	**Not used.**

5-803-086	Shift Tray: Position Sensor 2	ENG	**Not used.**
5-803-094	GAVD Open/Close Detection	ENG	[0 or 1 / **0** / 1/step]
	For checking door open/close during process. No need to operate.		
5-803-095	Bridge 24V Fuse Detection	ENG	[0 or 1 / **0** / 1/step] 0: Not cut 1: Cut
	Detects state of 24V fuse on the bridge unit. (0: Not cut, 1: Cut)		
5-803-096	Bridge 5V Fuse Detection	ENG	[0 or 1 / **0** / 1/step] 0: Not cut 1: Cut
	Detects state of 5V fuse on the bridge unit. (0: Not cut, 1: Cut)		
5-803-097	Fusing Shading Plate Sensor /1	ENG	[0 or 1 / **0** / 1/step] 0: Not shading 1: shading
	Detects position of fusing shade plate. (0: Not shading 1: shading)		
5803	**[INPUT Check]**		
	Gets information of specified sensor.		
5-803-211	Bank: Tray3: Feed Sensor	ENG	[0 or 1 / **0** / 1/step] 0: paper not detected 1: paper detected.
5-803-212	Bank: Tray4: Feed Sensor	ENG	
5-803-213	Bank: Tray5: Feed Sensor	ENG	
5-803-214	Bank: Tray3: Transport Sensor	ENG	
5-803-215	Bank: Tray4: Transport Sensor	ENG	
5-803-216	Bank: Tray5: Transport Sensor	ENG	
5-803-217	Bank: Feed Cover Open Detection 1	ENG	[0 or 1 / **0** / 1/step] 0: cover open 1: cover closed
5-803-218	Bank: Feed Cover Open Detection 2	ENG	
5-803-	LCT Paper Supply Open/Close	ENG	

219			
5-803-220	LCT Slide Open/Close	ENG	[0 or 1 / **0** / 1/step] 0: slide open 1: slide closed

Finisher / Mail Box / Bridge Unit / Folding Unit

3000-sheet finisher

6123	**[INPUT Check: 2K/3K FIN]**		
6-123-001	Entrance Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-002	Horizontal Transport Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-003	Switchback Transport Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-004	Proof Tray Exit Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-005	Shift Tray Exit Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-006	Booklet Stapler Exit Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-007	Paper Exit Open/Close Guide HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-008	Punch HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-009	Punch Move HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-010	S-to-S Registration Detection HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-011	Lower Junction Solenoid HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-012	Jogger HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-013	Positioning Roller HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-014	Feed-out HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-015	Stapler Moving HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		

6-123-016	Booklet Stapler HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-017	Booklet Jogger HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-018	Booklet Jog Solenoid HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-019	Booklet Standard Fence HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-020	Booklet Stapler HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-022	Folder Blade Cam HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-023	Folder Blade HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-024	Shift Roller HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-028	Drag Roller Vibrating HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-029	LE Guide HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-030	TE Stack Plate HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-031	Staple Tray Paper Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-032	ITB Paper Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-033	Booklet Stapler Transport Paper Sn: Upper	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-034	Booklet Stapler Transport Paper Sn: Lower	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-035	Paper Height Sensor: Shift	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-036	Corner Stapler Paper Height Sensor 1	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-037	Corner Stapler Paper Height Sensor 2	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-038	Proof Tray Full Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		

6-123-039	Booklet Stapler Full Sensor 1	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-040	Booklet Stapler Full Sensor 2	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-041	S-to-S Registration Detection Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-042	Punch RPS Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-043	Corner Stapler Leading Edge Detection Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-044	Corner Stapler Staple End Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-045	Booklet Stapler Staple End Sensor: Front	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-046	Booklet Stapler Staple End Sensor: Rear	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-047	Shift Tray Lower Limit Sensor 1	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-048	Shift Tray Lower Limit Sensor 2	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-049	Shift Tray Lower Limit Sensor 3	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-050	Shift Tray Lower Limit Sensor 4	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-051	Shift Tray Lower Limit Sensor 5	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-052	Punch Chad Full Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-123-053	Punch Set Detection	ENG	[0 or 1 / **0** / 1/step] 0: connected 1: not connected
	Gets connection status of punch unit.		
6-123-054	Shift Jogger Set Detection	ENG	[0 or 1 / **0** / 1/step] 0: connected 1: not connected
	Gets connection status of output jogger unit (optional).		
6-123-055	Booklet Stapler Set Detection	ENG	[0 or 1 / **0** / 1/step] 0: not connected

			1: connected
	Gets connection status of saddle stitch unit.		
6-123-056	Front Door SW	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-057	Dynamic Roller Open/Close Guide Plate Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-058	Tray Upper Limit SW	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-059	Paper Exit Open/Close Guide Plate Limit SW	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-060	Punch Selection DIPSW 1	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-061	Punch Selection DIPSW 2	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-065	Paper Guide HP Sensor	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-066	Shift Jogger HP Sensor: Front	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-067	Shift Jogger HP Sensor: Rear	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-068	Shift Jogger Retraction HP Sensor: Upper	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		
6-123-069	Shift Jogger Retraction HP Sensor: Lower	ENG	[0 or 1 / **0** / 1/step]
	Gets information of specified switch. Displays signal level of switch as it is.		

1000-sheet finisher / 1000-sheet booklet finisher

6161	**[FIN (1K FIN) INPUT Check]**		
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-161-001	Entrance Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-002	Upper Cover Open/Close Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-003	Proof Tray Exit Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-004	Proof Tray Full Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-005	Shift HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-006	Exit Guide Plate Open/Close HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-007	Shift Paper Exit (Lift Tray Exit) Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-008	Positioning Roller HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-009	Lift Tray Paper Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-010	Jogger HP Sensor	ENG	[0 or 1 / **0** / 1/step]

6-161-011	Feed Out HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-012	Lift Tray Lower Limit Sensor (Upper)	ENG	[0 or 1 / **0** / 1/step]
6-161-013	Lift Tray Lower Limit Sensor (Lower)	ENG	[0 or 1 / **0** / 1/step]
6-161-014	Staple Tray Paper Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-015	Stapler Moving HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-016	Near End Sensor (Common: Corner/Bklt Stplr)	ENG	[0 or 1 / **0** / 1/step]
6-161-017	Self Priming Sensor (Common:Crnr/Bklt Stplr)	ENG	[0 or 1 / **0** / 1/step]
6-161-018	Driver HP Sensor (Corner/Booklet Stapler)	ENG	[0 or 1 / **0** / 1/step]
6-161-020	Clincher HP Sensor (Corner/Booklet Stapler)	ENG	[0 or 1 / **0** / 1/step]
6-161-022	Stapler Retraction Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-023	Untitled	ENG	[0 or 1 / **0** / 1/step]
6-161-024	Untitled	ENG	[0 or 1 / **0** / 1/step]
6-161-025	Untitled	ENG	[0 or 1 / **0** / 1/step]
6-161-026	Punch HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-027	Punch RP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-028	Punch Hopper Full Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-029	Punch Move HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-030	S-to-S Registration Detection HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-031	S-to-S Registration Detection Sensor	ENG	[0 or 1 / **0** / 1/step]
6161	**[FIN (1K FIN) INPUT Check]**		
	Gets information of specified switch. Displays signal level of switch as it is.		
6-161-032	Punch Selection DIPSW 1	ENG	[0 or 1 / **0** / 1/step]
6-161-033	Punch Selection DIPSW 2	ENG	[0 or 1 / **0** / 1/step]
6161	**[FIN (1K FIN) INPUT Check]**		
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-161-034	ITB Transport Sensor: Right	ENG	[0 or 1 / **0** / 1/step]
6-161-035	ITB Transport Sensor: Left	ENG	[0 or 1 / **0** / 1/step]
6-161-036	Stack Transport Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-037	Stack Trans Upper Pressure Release HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-038	Stack Trans Lower Pressure Release HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-039	Fold Blade HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-040	Fold Cam HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-041	TE Stopper Transport Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-042	TE Stopper HP Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-043	Booklet Folder Exit Sensor	ENG	[0 or 1 / **0** / 1/step]
6-161-044	Booklet Folder Tray Full Sensor: Upper	ENG	[0 or 1 / **0** / 1/step]
6-161-045	Booklet Folder Tray Full Sensor: Lower	ENG	[0 or 1 / **0** / 1/step]
6161	**[FIN (1K FIN) INPUT Check]**		

	Gets information of specified switch. Displays signal level of switch as it is.		
6-161-046	Door Open/Close SW	ENG	[0 or 1 / **0** / 1/step]
6-161-047	Lift Tray Upper Limit SW	ENG	[0 or 1 / **0** / 1/step]
6161	**[FIN (1K FIN) INPUT Check]**		
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-161-048	Paper Guide HP Sensor	ENG	[0 or 1 / **0** / 1/step]

Mail Box

6200	**[INPUT Check Print Post]**		
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-200-001	Entrance Sn	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-002	Relay Sensor 1	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-003	Relay Sensor 2	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-004	Paper Sensor 1	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-005	Paper Sensor 2	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-006	Paper Sensor 3	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-007	Paper Sensor 4	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-008	Full Sensor 1	ENG	[0 or 1 / **0** / 1/step] 0: Not full 1: Full
6-200-009	Full Sensor 2	ENG	[0 or 1 / **0** / 1/step] 0: Not full 1: Full
6-200-010	Full Sensor 3	ENG	[0 or 1 / **0** / 1/step] 0: Not full

			1: Full
6-200-011	Full Sensor 4	ENG	[0 or 1 / **0** / 1/step] 0: Not full 1: Full
6-200-012	Right Cover Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Open 1: Close
6-200-013	Left Lower Cover Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Open 1: Close

Folding Unit

6322	**[INPUT Check Print Post]**		
	Gets information of specified sensor. Displays signal level of sensor as it is.		
6-322-001	Registration Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-322-002	Folding Junction HP Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Not HP 1: HP
6-322-003	1st 2-direction Paper Feed SN	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-322-004	2nd 2-direction Paper Feed SN	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-322-005	Crease Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-200-006	Crease HP Sensor	ENG	[0 or 1 / **0** / 1/step] 0: HP 1: Not HP
6-322-007	Top Tray Exit Sensor	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-322-008	Top Tray Full Sensor 1	ENG	[0 or 1 / **0** / 1/step] 0: Full 1: Not full

6-322-009	Top Tray Full Sensor 2	ENG	[0 or 1 / **0** / 1/step] 0: Not full 1: Full
6-322-010	Bridge Exit	ENG	[0 or 1 / **0** / 1/step] 0: Paper detected 1: No paper detected
6-322-011	Cover SW	ENG	[0 or 1 / **0** / 1/step] 0: Close 1: Open
6-322-012	Exit Unit Open/Close SW	ENG	[0 or 1 / **0** / 1/step] 0: Close 1: Open

Output Check Table

Main Machine, Paper Feed Tray

5804	**[OUTPUT Check]**		
5-804-001	Feed Pickup Solenoid 1	ENG	OFF/ON
	Moves 1st paper feed tray pick up solenoid.		
5-804-002	Feed Pickup Solenoid 2	ENG	OFF/ON
	Moves 2nd paper feed tray pick up solenoid.		
5-804-003	Bypass Pickup Solenoid	ENG	OFF/ON
	Moves bypass pick up solenoid.		
5-804-004	Exit Junction Solenoid	ENG	OFF/ON
	Moves output paper divide solenoid.		
5804	**[OUTPUT Check]**		
	Moves paper feed tray rising motor. * Do not execute SP 5-804-006/008 without removing the paper tray. Otherwise, the tray might be damaged.		
5-804-005	Tray 1 Lift Motor:CW	ENG	OFF/ON
5-804-006	Tray 1 Lift Motor:CCW	ENG	
5-804-007	Tray 2 Lift Motor:CW	ENG	

5-804-008	Tray 2 Lift Motor:CCW	ENG	
5804	**[OUTPUT Check]**		
	Moves register motor.		
5-804-009	Regist Motor:CCW:Standard Speed	ENG	OFF/ON
5-804-010	Regist Motor:CCW:Middle Speed	ENG	
5-804-011	Regist Motor:CCW:Low Speed	ENG	
5804	**[OUTPUT Check]**		
5-804-015	Regist Motor:Position Hold	ENG	OFF/ON
	Holds position of register motor.		
5804	**[OUTPUT Check]**		
	Moves paper feed motor. * It is fed if there is paper in the paper tray.		
5-804-016	Feed Motor:CW:Standard Speed	ENG	OFF/ON
5-804-017	Feed Motor:CW:Middle Speed	ENG	
5-804-018	Feed Motor:CW:Low Speed	ENG	
5-804-022	Feed Motor:CCW:Standard Speed	ENG	
5-804-023	Feed Motor:CCW:Middle Speed	ENG	
5-804-024	Feed Motor:CCW:Low Speed	ENG	
5804	**[OUTPUT Check]**		
	Moves vertical carry motor.		
5-804-028	Bypass V-Transport Motor:CW:Std Speed	ENG	OFF/ON
5-804-029	Bypass V-Transport Motor:CW:Middle Speed	ENG	
5-804-030	Bypass V-Transport Motor:CW:Low Speed	ENG	
5804	**[OUTPUT Check]**		
5-804-	Bypass V-Transport Motor:Position Hold	ENG	OFF/ON

034	Holds position of vertical carry motor.		
5-804-037	Exit Motor: CW: Fusing Pressure Release	ENG	OFF/ON
	Moves fusing dis-pressure. * If driving this motor while attaching the fusing unit, be sure to stop it less than 5 seconds. Otherwise, the unit might be damaged.		
5804	**[OUTPUT Check]**		
	Moves paper exit motor. * If driving this motor while attaching the fusing unit, be sure to stop it less than 5 seconds. Otherwise, the unit might be damaged.		
5-804-041	Exit Motor:CCW:Standard Speed	ENG	OFF/ON
5-804-042	Exit Motor:CCW:Middle Speed	ENG	
5-804-043	Exit Motor:CCW:Low Speed	ENG	
5804	**[OUTPUT Check]**		
	Moves reverse motor.		
5-804-047	Inverter Motor:CW:Standard Speed	ENG	OFF/ON
5-804-048	Inverter Motor:CW:Middle Speed	ENG	
5-804-049	Inverter Motor:CW:Low Speed	ENG	
5-804-052	Inverter Mt: CW: Normal Speed: Duplex	ENG	
5-804-054	Inverter Mt: CW: Low Speed: Duplex	ENG	
5-804-056	Inverter Motor:CCW:Standard Speed	ENG	
5-804-057	Inverter Motor:CCW:Middle Speed	ENG	
5-804-058	Inverter Motor:CCW:Low Speed	ENG	
5-804-061	Inverter Mt: CCW: Normal Speed: Inc Speed	ENG	
5804	**[OUTPUT Check]**		
	Moves duplex entrance motor.		
5-804-	Duplex Entrance Motor:CW:Standard Speed	ENG	OFF/ON

065			
5-804-066	Duplex Entrance Motor:CW:Middle Speed	ENG	
5-804-067	Duplex Entrance Motor:CW:Low Speed	ENG	
5-804-068	Duplex Entrance Motor: Normal Speed: Duplex	ENG	
5-804-069	Duplex Entrance Motor: Low Speed: Duplex	ENG	
5804	**[OUTPUT Check]**		
	Moves duplex bypass motor.		
5-804-071	Duplex Bypass Motor:CW:Standard Speed	ENG	OFF/ON
5-804-072	Duplex Bypass Motor:CW:Middle Speed	ENG	
5-804-073	Duplex Bypass Motor:CW:Low Speed	ENG	
5-804-074	Duplex Bypass Motor: CW: Normal Speed: Dup	ENG	
5-804-075	Duplex Bypass Motor: CW: Low Speed: Duplex	ENG	
5-804-077	Duplex Bypass Motor:CCW:Standard Speed	ENG	
5-804-078	Duplex Bypass Motor:CCW:Middle Speed	ENG	
5-804-079	Duplex Bypass Motor:CCW:Low Speed	ENG	
5804	**[OUTPUT Check]**		
5-804-083	Duplex Bypass Motor:Position Hold	ENG	OFF/ON
	Holds position of duplex bypass motor.		
5804	**[OUTPUT Check]**		
	Moves fusing motor. ***See Important below**		
5-804-092	Fusing Motor:CW:Standard Speed	ENG	OFF/ON
5-804-093	Fusing Motor:CW:Middle Speed	ENG	
5-804-094	Fusing Motor:CW:Low Speed	ENG	

5-804-098	Fusing Motor:CCW:Low Speed	ENG	

Important: Use the procedure below to do the output checks for the fusing exit motor. If you do not follow this procedure, a kink will form in the fusing belt sleeve, and the heating sleeve belt unit will need to be replaced.

1. Do one of the following:

- Open the right cover of the paper bank
- Remove one of the toner bottles
- Pull out the waste toner bottle half-way
- Remove the fusing unit

2. Enter SP mode.

3. Do the following out output checks:

- SP5-804-092 (Fusing Motor:CW:Standard Speed)
- SP5-804-093 (Fusing Motor:CW:Middle Speed)
- SP5-804-094 (Fusing Motor:CW:Low Speed)
- SP5-804-098 (Fusing Motor:CCW:Low Speed)

4. Without exiting SP mode, turn the main power switch off and then on again.

Important: If you exit SP mode before you turn the main power switch off, the fusing exit motor will stay off when the machine warms up. Heat will be concentrated in one area of the fusing belt sleeve and cause a kink to form. If this happens, you will need to replace the heating sleeve belt unit.

5. Do the reverse of what you did in step 1 (for example, reattach the fusing unit).

Fusing unit set error is displayed during motor operation. This is because of the specification, and has no problem.

It is recommended to perform a fusing unit operation check with SP1-153-001 (Abnormal Noise Confirmation: Unit: Execute) and 002 (Abnormal Noise Confirmation: Unit: No Unit Execute).

5804	**[OUTPUT Check]**		
5-804-104	Polygon Motor: L	ENG	OFF/ON
	Runs motor with 21969 rpm.		
5-804-105	Polygon Motor: M	ENG	OFF/ON
	Runs motor with 25512 rpm.		
5-804-106	Polygon Motor: H	ENG	OFF/ON
	Runs motor with 30236 rpm.		
5-804-107	Polygon Motor: HH	ENG	OFF/ON
	Runs motor with 34488 rpm.		
5-804-110	Fusing Fan: Full Speed	ENG	OFF/ON
	Moves fusing exhaust heat fan.		
5-804-111	Fusing Fan: Half Speed	ENG	OFF/ON
	Moves fusing exhaust heat fan.		

5-804-113	PSU Cooling Fan	ENG	OFF/ON
	Moves PSU cooling fan.		
5-804-114	Ozone Fan	ENG	OFF/ON
	Moves ozone exhaust heat fan.		
5-804-115	PCB Box Cooling Fan/ExhaustCooling Fan	ENG	OFF/ON
	Moves electric BOX cooling fan.		
5-804-116	PCB Box Cooling Fan: Half Speed	ENG	OFF/ON
	Moves electric BOX cooling fan.		
5-804-117	DriveCooling/Main/TonerSupplyCoolingFan	ENG	OFF/ON
	Moves main unit exhaust heat fan, develop right exhaust air fan, driver cooler.		
5-804-118	Development: Right	ENG	OFF/ON
	Moves development right fan.		
5804	**[OUTPUT Check]**		
	Moves develop motor.		
5-804-120	Development Motor K: Standard Speed	ENG	OFF/ON
5-804-121	Development Motor K: Middle Speed	ENG	
5-804-122	Development Motor K: Low Speed	ENG	
5-804-128	Development Motor FC: Standard Speed	ENG	
5-804-129	Development Motor FC: Middle Speed	ENG	
5-804-130	Development Motor FC: Low Speed	ENG	
5804	**[OUTPUT Check]**		
	Moves/Stops drum motor FC. * Execute this SP after correcting the cam position so that ITB contact/separation lever of the color station is released.		
5-804-132	Drum Motor FC: Standard Speed	ENG	OFF/ON
5-804-133	Drum Motor FC: Middle Speed	ENG	
5-804-134	Drum Motor FC: Low Speed	ENG	
5804	**[OUTPUT Check]**		
	Moves/Stops transfer drum motor K.		

	* Execute this SP after correcting the cam position so that ITB contact/separation lever of the color station is released.		
5-804-136	Transfer Drum Motor K: Standard Speed	ENG	OFF/ON
5-804-137	Transfer Drum Motor K: Middle Speed	ENG	
5-804-138	Transfer Drum Motor K: Low Speed	ENG	
5804	**[OUTPUT Check]**		
	Moves paper transfer divide motor.		
5-804-140	PTR Contact Motor:CW	ENG	OFF/ON
5-804-141	PTR Contact Motor:CCW	ENG	
5804	**[OUTPUT Check]**		
	Moves image transfer divide motor (reverse to toner supply motor M). * Execute this SP after correcting the cam position so that ITB contact/separation lever of the color station is released.		
5-804-150	Toner Supply Motor M:CW:(ITB Contact)	ENG	OFF/ON
5804	**[OUTPUT Check]**		
	Moves relay carry motor (bridge unit).		
5-804-163	Bridge Relay/Left Exit Motor: Normal Speed	ENG	OFF/ON
5-804-164	Bridge Relay/Left Exit Motor: Middle Speed	ENG	
5-804-165	Bridge Relay/Left Exit Motor: Low Speed	ENG	
5-804-166	Bridge Relay/Left Ex Mt: Normal Speed Upper	ENG	
5804	**[OUTPUT Check]**		
5-804-169	Bridge Junction/Left Exit Junction Solenoid	ENG	OFF/ON
	Moves relay divide solenoid (bridge unit).		
5-804-170	Shift Tray Motor:CW	ENG	OFF/ON
	Moves shift tray motor.		
5-804-171	Shift Tray Motor:CCW	ENG	OFF/ON
	Moves shift tray motor.		
5-804-	Toner End Sensor: K Power	ENG	OFF/ON

172	Supples power to toner end sensor (K).		
5-804-173	Toner End Sensor: FC Power	ENG	OFF/ON
	Supples power to toner end sensor (FC).		
5804	**[OUTPUT Check]**		
	Outputs PWM for electrify HVP (DC/AC:Y/M/C/K).		
5-804-176	PP: Charge DC: Y	ENG	OFF/ON
5-804-177	PP: Charge DC: M	ENG	
5-804-178	PP: Charge DC: C	ENG	
5-804-179	PP: Charge DC: K	ENG	
5-804-180	PP: Charge AC: Y	ENG	
5-804-181	PP: Charge AC: M	ENG	
5-804-182	PP: Charge AC: C	ENG	
5-804-183	PP: Charge AC: K	ENG	
5804	**[OUTPUT Check]**		
	Outputs PWM for develop HVP.		
5-804-184	PP: Development: Y	ENG	OFF/ON
5-804-185	PP: Development: M	ENG	
5-804-186	PP: Development: C	ENG	
5-804-187	PP: Development: K	ENG	
5804	**[OUTPUT Check]**		
	Outputs PWM for transfer HVP (image transfer: Y/M/C/K).		
5-804-195	PP: ITB: Y	ENG	OFF/ON
5-804-196	PP: ITB: M	ENG	
5-804-	PP: ITB: C	ENG	

197			
5-804-198	PP: ITB: K	ENG	
5804	**[OUTPUT Check]**		
	Outputs PWM for transfer HVP (paper transfer: +/-).		
5-804-199	PP: PTR: +	ENG	OFF/ON
5-804-200	PP: PTR: -	ENG	
5804	**[OUTPUT Check]**		
5-804-206	PTR Open/Close LED	ENG	OFF/ON
	Lights paper transfer open/close LED.		
5-804-208	TM/P Sensor: F	ENG	OFF/ON
	Lights TM/P sensor: Front glowing part.		
5-804-209	TM/P Sensor: C	ENG	OFF/ON
	Lights TM/P sensor: Center glowing part.		
5-804-210	TM/P Sensor: R	ENG	OFF/ON
	Lights TM/P sensor: Rear glowing part.		
5-804-211	Toner Sensor Power	ENG	OFF/ON
5-804-232	Toner IDTAG Power	ENG	OFF/ON
5804	**[OUTPUT Check]**		
5-804-235	Fusing Shading Plate M: CW	ENG	OFF/ON
	Moves shade plate of fusing Md to CW direction. * Execute this SP after removing the fusing unit. Continuing to turn the fusing shield drive motor while attaching the fusing unit, the units may be damaged. Procedure: 1. Remove the fusing unit. 2. Remove the waste toner bottle. 3. Execute this SP.		
5-804-236	Fusing Shading Plate M: CCW	ENG	OFF/ON
	Moves shade plate of fusing Md to CCW direction. * Execute this SP after removing the fusing unit. Continuing to turn the fusing shield drive motor while attaching the fusing unit, the units may be damaged.		

	Procedure: 1. Remove the fusing unit. 2. Remove the waste toner bottle. 3. Execute this SP.		
5-804-239	Fusing Exit Drive Solenoid	ENG	OFF/ON
5804	**[OUTPUT Check]**		
	Continuously drives specified motor for operation test.		
5-804-241	Bank: Tray3: Feed Mt: Standard Speed	ENG	OFF/ON
5-804-242	Bank: Tray4: Feed Mt: Standard Speed	ENG	
5-804-243	Bank: Tray5: Feed Mt: Standard Speed	ENG	
5-804-244	Bank: Tray3: Transport Mt: Standard Speed	ENG	
5-804-245	Bank: Tray4: Transport Mt: Standard Speed	ENG	
5-804-246	Bank: Tray5: Transport Mt: Standard Speed	ENG	
5804	**[OUTPUT Check]**		
	Drives specified motor for a certain period of time to test operation.		
5-804-247	Bank: Tray3: PU Solenoid	ENG	OFF/ON
5-804-248	Bank: Tray4: PU Solenoid	ENG	
5-804-249	Bank: Tray5: PU Solenoid	ENG	

Finisher / Mailbox / Folding Unit

3000-sheet finisher

6124	**[OUTPUT Check: 2K/3K FIN]**		
6-124-001	Entrance Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-002	Horizontal Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-003	Pre-Stack Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		

6-124-004	ITB Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-005	Paper Exit Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-006	Upper Junction Solenoid	ENG	OFF/ON
	Turns NO/OFF specified solenoid for validation.		
6-124-007	TE Stack Plate Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-008	Paper Exit Open/Close Guide Plate Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-009	Punching Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-010	Punch Move Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-011	S-to-S Registration Detection Move Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-012	Lower Junction Solenoid Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-013	Jogger Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-014	Positioning Roller Rotation Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-015	Feed-out Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-016	Booklet Stapler Move Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-017	Corner Stapler Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-018	Booklet Stapler Jogger Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-019	Booklet Stapler Jog Solenoid Move Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-020	Booklet Stapler Standard Fence Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-021	Booklet Stapler Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-022	Dynamic Roller Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		

6-124-023	Folder Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-025	Press-fold Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-026	Tray Lift Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-027	Shift Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-028	Front Shift Jogger Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-029	Rear Shift Jogger Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-030	Shift Jogger Retraction Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-031	Drag Roller Vibrating Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-032	LE Guide Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-033	Navigation LED (All)	ENG	OFF/ON
	Lights all guide LED.		
6-124-037	Positioning Roller Transport Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		
6-124-038	Paper Guide Motor	ENG	OFF/ON
	Drives specified motor for a certain period of time to test operation.		

1000-sheet finisher / 1000-sheet booklet finisher

6162	**[FIN (1K FIN) OUTPUT Check]**		
	Continuously runs specified motor for operation test.		
6-162-001	Entrance Transport Motor	ENG	OFF/ON
6-162-002	Proof Transport Motor	ENG	OFF/ON
6-162-003	Paper Feed/Positioning & Move Roller Motor	ENG	OFF/ON
6162	**[FIN (1K FIN) OUTPUT Check]**		
	Drives specified motor for a certain period of time to test operation.		
6-162-004	Junction Solenoid	ENG	OFF/ON
6-162-005	Shift Motor	ENG	OFF/ON
6-162-006	Jogger Motor	ENG	OFF/ON
6-162-007	Exit Guide Plate Open/Close Motor	ENG	OFF/ON
6-162-008	Feed-out Motor	ENG	OFF/ON

6-162-009	Tray Lift Motor	ENG	OFF/ON
6-162-011	Positioning Roller Motor	ENG	OFF/ON
6-162-012	Stapler Shift Motor	ENG	OFF/ON
6-162-013	Stapler Motor	ENG	OFF/ON
6-162-014	Untitled	ENG	OFF/ON
6-162-015	Untitled	ENG	OFF/ON
6-162-016	Untitled	ENG	OFF/ON
6-162-017	Punch Motor	ENG	OFF/ON
6-162-018	Punch Move Motor	ENG	OFF/ON
6-162-019	S-to-S Registration Detection Move Motor	ENG	OFF/ON
6-162-020	Stack Transport Motor: Upper	ENG	OFF/ON
6-162-021	Stck Trns Uppr Prss Rls/Stndrd Fence Rtrct M	ENG	OFF/ON
6-162-022	Stack Lower Pressure Release Motor	ENG	OFF/ON
6162	**[FIN (1K FIN) OUTPUT Check]**		
	Continuously runs specified motor for operation test.		
6-162-023	Folder Transport Motor	ENG	OFF/ON
6162	**[FIN (1K FIN) OUTPUT Check]**		
	Drives specified motor for a certain period of time to test operation.		
6-162-024	TE Stopper Motor	ENG	OFF/ON
6-162-025	Folder Blade Motor	ENG	OFF/ON
6162	**[FIN (1K FIN) OUTPUT Check]**		
	Lights all guide LED.		
6-162-026	Navigation LED (All)	ENG	OFF/ON

Mailbox

6201	**[OUTPUT Check Print Post]**		
6-201-001	Entrance Motor	ENG	OFF/ON
	Checks the entrance motor movement of mailbox.		
6-201-002	Vert Transport Motor	ENG	OFF/ON
	Checks the transport motor movement of mailbox.		
6-201-003	Junction Gate SOL	ENG	OFF/ON
	Checks the inverter solenoid movement of mailbox.		
6-201-004	Turn Gate SOL1	ENG	OFF/ON
	Checks the junction gate solenoid 1 movement of mailbox.		
6-201-005	Turn Gate SOL2	ENG	OFF/ON
	Checks the junction gate solenoid 2 movement of mailbox.		
6-201-006	Turn Gate SOL3	ENG	OFF/ON
	Checks the junction gate solenoid 3 movement of mailbox.		

Folding unit

6323	**[OUTPUT Check Print Post]**		
6-323-001	Transport Motor	ENG	OFF/ON
	Checks the transport motor movement of folding unit.		
6-323-002	Registration Motor	ENG	OFF/ON
	Checks the registration motor movement of folding unit.		
6-323-003	Folding Motor	ENG	OFF/ON
	Checks the 1st fold motor movement of of folding unit.		
6-323-004	2nd 2-direct Paper Feed Motor	ENG	OFF/ON
	Checks the 2nd fold motor movement of of folding unit.		
6-323-005	Junction Solenoid	ENG	OFF/ON
	Checks the junction gate solenoid movement of folding unit.		
6-323-006	Navigation LED (All)	ENG	OFF/ON
	Lights all guide LED.		

4. Controller SP Mode Tables

Controller SP5-XXX (Mode)

SP5-009 to SP5-992

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-009-201	Add display language	1-8	CTL*	[0 to 255/0/1]
5-009-202	Add display language	9-16	CTL*	[0 to 255/0/1]
5-009-203	Add display language	17-24	CTL*	[0 to 255/0/1]
5-009-204	Add display language	25-32	CTL*	[0 to 255/0/1]
5-009-205	Add display language	33-40	CTL*	[0 to 255/0/1]
5-009-206	Add display language	41-48	CTL*	[0 to 255/0/1]
5-009-207	Add display language	49-56	CTL*	[0 to 255/0/1]
5-024-001	mm/inch Display Selection	0:mm 1:inch	CTL*	[0 to 1/0/1]
5-037-001	Status Lamp Mode		CTL*	[0 to 1/1/1]
5-045-	Accounting counter	Counter Method	CTL*	[0 to 7/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
5-047-001	Paper Display	Backing Paper	CTL*	[0 to 1/0/1]
5-051-001	TonerRefillDetectionDisplay		CTL*	[0 to 1/0/1]
5-055-001	Display IP address		CTL*	[0 to 1/0/1]
5-061-101	Toner Remaining Window Display Change		CTL*	[0 to 255/3/1]
5-073-001	Supply Part Replacement Operation Type	Waste Tonner Bottle	CTL*	[0 to 1/0/1]
5-073-002	Supply Part Replacement Operation Type	Intermediate Transfer Unit	CTL*	[0 to 1/0/1]
5-073-003	Supply Part Replacement Operation Type	Fuser Unit	CTL*	[0 to 1/0/1]
5-074-002	Home Key Customization	Login Setting	CTL*	[0 to 255/0/1]
5-074-050	Home Key Customization	Show Home Edit Menu	CTL	[0 to 2/0/1]
5-074-091	Home Key Customization	Function Setting	CTL*	[0 to 2/0/1]
5-074-092	Home Key Customization	Product ID	CTL*	[0 to 0xffffffff/0/1]
5-	Home Key Customization	Application Screen ID	CTL*	[0 to 255/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
074-093				
5-075-003	USB Keyboard	Display setting	CTL*	[0 to 1/0/1]
5-081-001	ServiceSP Entry Code Setting		CTL*	[0 to 0/0/0]
5-083-001	LED Light Switch Setting	Toner Near End	CTL*	[0 to 1/0/1]
5-083-002	LED Light Switch Setting	Waste Toner Near End	CTL*	[0 to 1/0/1]
5-104-001	Counter Size Setting	A3/DLT Double Count	CTL*	[0 to 1/0/1]
5-104-002	Counter Size Setting	Bypass Paper Size Undetection	CTL*	[0 to 1/0/1]
5-148-002	Size Detection OFF	Tray 1	CTL*	[0 to 1/0/1]
5-150-001	Length Setting	Bypass(0:OFF 1:Long)	CTL	[0 to 1/1/1]
5-169-001	CE Login		CTL*	[0 to 1/0/1]
5-191-001	Mode Set	Power Str Set	CTL*	[0 to 1/1/1]
5-195-001	Limitless SW		CTL*	[0 to 1/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-199-001	Paper Exit After Staple End	Staple(1:Without 2:After 0:Auto)	CTL	[0 to 2/0/1]
5-199-002	Paper Exit After Staple End	Saddle(1:Without 2:After 0:Auto)	CTL	[0 to 2/0/1]
5-199-003	Paper Exit After Staple End	Stapless(1:Without 2:After 0:Auto)	CTL	[0 to 2/0/1]
5-302-002	Set Time	Time Difference	CTL*	[-1440 to 1440/540/1]
5-305-101	Auto Off Set	Auto Off Limit Set	CTL*	[0 to 1/0/1]
5-307-001	Daylight Saving Time	Setting	CTL*	[0 to 1/0/1]
5-307-003	Daylight Saving Time	Rule Set(Start)	CTL*	[0 to 0xffffffff/0/1]
5-307-004	Daylight Saving Time	Rule Set(End)	CTL*	[0 to 0xffffffff/0/1]
5-401-104	Access Control	Authentication Time	CTL*	[0 to 255/0/1sec]
5-401-162	Access Control	Extend Certification Detail	CTL*	[0 to 0xff/0/1]
5-401-200	Access Control	SDK1 UniqueID	CTL*	[0 to 0xFFFFFFFF/0/1]
5-401-201	Access Control	SDK1 Certification Method	CTL*	[0 to 0xFF/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-401-210	Access Control	SDK2 UniqueID	CTL*	[0 to 0xFFFFFFFF/0/1]
5-401-211	Access Control	SDK2 Certification Method	CTL*	[0 to 0xFF/0/1]
5-401-220	Access Control	SDK3 UniqueID	CTL*	[0 to 0xFFFFFFFF/0/1]
5-401-221	Access Control	SDK3 Certification Method	CTL*	[0 to 0xFF/0/1]
5-401-230	Access Control	SDK Certification Device	CTL*	[0 to 0xff/0/1]
5-401-240	Access Control	Detail Option	CTL*	[0 to 0xff/0/1]
5-402-101	Access Control	SDKJ1 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-102	Access Control	SDKJ2 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-103	Access Control	SDKJ3 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-104	Access Control	SDKJ4 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-105	Access Control	SDKJ5 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-106	Access Control	SDKJ6 Limit Setting	CTL*	[0 to 0xFF/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-402-107	Access Control	SDKJ7 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-108	Access Control	SDKJ8 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-109	Access Control	SDKJ9 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-110	Access Control	SDKJ10 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-111	Access Control	SDKJ11 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-112	Access Control	SDKJ12 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-113	Access Control	SDKJ13 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-114	Access Control	SDKJ14 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-115	Access Control	SDKJ15 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-116	Access Control	SDKJ16 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-117	Access Control	SDKJ17 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-118	Access Control	SDKJ18 Limit Setting	CTL*	[0 to 0xFF/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-402-119	Access Control	SDKJ19 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-120	Access Control	SDKJ20 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-121	Access Control	SDKJ21 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-122	Access Control	SDKJ22 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-123	Access Control	SDKJ23 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-124	Access Control	SDKJ24 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-125	Access Control	SDKJ25 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-126	Access Control	SDKJ26 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-127	Access Control	SDKJ27 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-128	Access Control	SDKJ28 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-129	Access Control	SDKJ29 Limit Setting	CTL*	[0 to 0xFF/0/1]
5-402-130	Access Control	SDKJ30 Limit Setting	CTL*	[0 to 0xFF/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-402-141	Access Control	SDKJ1 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-142	Access Control	SDKJ2 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-143	Access Control	SDKJ3 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-144	Access Control	SDKJ4 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-145	Access Control	SDKJ5 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-146	Access Control	SDKJ6 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-147	Access Control	SDKJ7 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-148	Access Control	SDKJ8 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-149	Access Control	SDKJ9 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-150	Access Control	SDKJ10 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-151	Access Control	SDKJ11 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-152	Access Control	SDKJ12 ProductID	CTL*	[0 to 0xffffffff/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-402-153	Access Control	SDKJ13 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-154	Access Control	SDKJ14 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-155	Access Control	SDKJ15 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-156	Access Control	SDKJ16 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-157	Access Control	SDKJ17 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-158	Access Control	SDKJ18 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-159	Access Control	SDKJ19 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-160	Access Control	SDKJ20 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-161	Access Control	SDKJ21 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-162	Access Control	SDKJ22 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-163	Access Control	SDKJ23 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-164	Access Control	SDKJ24 ProductID	CTL*	[0 to 0xffffffff/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-402-165	Access Control	SDKJ25 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-166	Access Control	SDKJ26 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-167	Access Control	SDKJ27 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-168	Access Control	SDKJ28 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-169	Access Control	SDKJ29 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-402-170	Access Control	SDKJ30 ProductID	CTL*	[0 to 0xffffffff/0/1]
5-404-001	User Code Count Clear	User Code Count Clear	CTL	[0 to 0/0/0]
5-404-101	User Code Count Clear	User Code Count Clear Permit Setting	CTL*	[0 to 1/0/1]
5-411-004	LDAP-Certification	Simplified Authentication	CTL*	[0 to 1/1/1]
5-411-005	LDAP-Certification	Password Null Not Permit	CTL*	[0 to 1/1/1]
5-411-006	LDAP-Certification	Detail Option	CTL*	[0 to 0xff/0/1]
5-412-100	Krb-Certification	Encrypt Mode	CTL*	[0 to 0xFF/0x1F/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-413-001	Lockout Setting	Lockout On/Off	CTL*	[0 to 1/0/1]
5-413-002	Lockout Setting	Lockout Threshold	CTL*	[1 to 10/5/1]
5-413-003	Lockout Setting	Cancelation On/Off	CTL*	[0 to 1/0/1]
5-413-004	Lockout Setting	Cancelation Time	CTL*	[1 to 9999/60/1min]
5-414-001	Access Mitigation	Mitigation On/Off	CTL*	[0 to 1/0/1]
5-414-002	Access Mitigation	Mitigation Time	CTL*	[0 to 60/15/1min]
5-415-001	Password Attack	Permissible Number	CTL*	[0 to 100/30/1]
5-415-002	Password Attack	Detect Time	CTL*	[1 to 10/5/1]
5-416-001	Access Information	Access User Max Num	CTL*	[50 to 200/200/1]
5-416-002	Access Information	Access Password Max Num	CTL*	[50 to 200/200/1]
5-416-003	Access Information	Monitor Interval	CTL*	[1 to 10/3/1]
5-417-001	Access Attack	Access Permissible Number	CTL*	[0 to 500/100/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-417-002	Access Attack	Attack Detect Time	CTL*	[10 to 30/10/1sec]
5-417-003	Access Attack	Productivity Fall Waite	CTL*	[0 to 9/3/1sec]
5-417-004	Access Attack	Attack Max Num	CTL*	[50 to 200/200/1]
5-420-041	User Authentication	Printer	CTL*	[0 to 1/0/1]
5-420-051	User Authentication	SDK1	CTL*	[0 to 1/0/1]
5-420-061	User Authentication	SDK2	CTL*	[0 to 1/0/1]
5-420-071	User Authentication	SDK3	CTL*	[0 to 1/0/1]
5-420-081	User Authentication	Browser	CTL*	[0 to 1/0/1]
5-430-001	Auth Dialog Message Change	Message Change On/Off	CTL*	[0 to 1/0/1]
5-430-002	Auth Dialog Message Change	Message Text Download	CTL	[0 to 0/0/0]
5-430-003	Auth Dialog Message Change	Message Text ID	CTL	[0 to 0/0/0]
5-481-001	Authentication Error Code	System Log Disp	CTL*	[0 to 1/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-481-002	Authentication Error Code	Panel Disp	CTL*	[0 to 1/1/1]
5-501-001	PM Alarm	PM Alarm Level	CTL*	[0 to 9999/0/1]
5-504-001	Jam Alarm		CTL*	[0 to 3/3/1]
5-504-002	Jam Alarm	Threshold	CTL*	[1 to 99/10/1]
5-505-001	Error Alarm		CTL*	[0 to 255/19/1]
5-505-002	Error Alarm	Threshold	CTL*	[1 to 99/5/1]
5-507-001	Supply/CC Alarm	Paper Supply Alarm	CTL*	[0 to 1/0/1]
5-507-002	Supply/CC Alarm	Staple Supply Alarm	CTL*	[0 to 1/1/1]
5-507-003	Supply/CC Alarm	Toner Supply Alarm	CTL*	[0 to 1/1/1]
5-507-005	Supply/CC Alarm	DrumLifeRemain Supply Alarm	CTL*	[0 to 1/1/1]
5-507-006	Supply/CC Alarm	WasteTonerBottle	CTL*	[0 to 2/2/1]
5-507-007	Supply/CC Alarm	Tensya Supply Alarm	CTL*	[0 to 1/1/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-507-008	Supply/CC Alarm	Fuser Supply Alarm	CTL*	[0 to 1/1/1]
5-507-080	Supply/CC Alarm	Toner Call Timing	CTL*	[0 to 1/0/1]
5-507-081	Supply/CC Alarm	Toner Call Threshold:Bk	CTL*	[10 to 90/10/10%]
5-507-082	Supply/CC Alarm	Toner Call Threshold:CMY	CTL*	[10 to 90/10/10%]
5-507-128	Supply/CC Alarm	Interval: Others	CTL*	[250 to 10000/1000/1]
5-507-132	Supply/CC Alarm	Interval: A3	CTL*	[250 to 10000/1000/1]
5-507-133	Supply/CC Alarm	Interval: A4	CTL*	[250 to 10000/1000/1]
5-507-134	Supply/CC Alarm	Interval: A5	CTL*	[250 to 10000/1000/1]
5-507-141	Supply/CC Alarm	Interval: B4	CTL*	[250 to 10000/1000/1]
5-507-142	Supply/CC Alarm	Interval: B5	CTL*	[250 to 10000/1000/1]
5-507-160	Supply/CC Alarm	Interval: DLT	CTL*	[250 to 10000/1000/1]
5-507-164	Supply/CC Alarm	Interval: LG	CTL*	[250 to 10000/1000/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-507-166	Supply/CC Alarm	Interval: LT	CTL*	[250 to 10000/1000/1]
5-507-172	Supply/CC Alarm	Interval: HLT	CTL*	[250 to 10000/1000/1]
5-508-001	CC Call	Jam Remains	CTL*	[0 to 1/1/1]
5-508-002	CC Call	Continuous Jams	CTL*	[0 to 1/1/1]
5-508-003	CC Call	Continuous Door Open	CTL*	[0 to 1/1/1]
5-508-011	CC Call	Jam Detection: Time Length	CTL*	[3 to 30/10/1]
5-508-012	CC Call	Jam Detection: Continuous Count	CTL*	[2 to 10/5/1]
5-508-013	CC Call	Door Open: Time Length	CTL*	[3 to 30/10/1]
5-513-001	PartsAlermlevelCount	Normal	CTL*	[1 to 9999/300/1]
5-513-002	PartsAlermlevelCount	Df	CTL*	[1 to 9999/300/1]
5-514-001	PartsAlermlev	Normal	CTL*	[0 to 1/1/1]
5-514-002	PartsAlermlev	Df	CTL*	[0 to 1/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-515-001	SC/Alarm Setting	SC Call	CTL*	[0 to 1/1/1]
5-515-002	SC/Alarm Setting	Service Parts Near End Call	CTL*	[0 to 1/1/1]
5-515-003	SC/Alarm Setting	Service Parts End Call	CTL*	[0 to 1/1/1]
5-515-004	SC/Alarm Setting	User Call	CTL*	[0 to 1/1/1]
5-515-006	SC/Alarm Setting	Communication Test Call	CTL*	[0 to 1/1/1]
5-515-007	SC/Alarm Setting	Machine Information Notice	CTL*	[0 to 1/1/1]
5-515-008	SC/Alarm Setting	Alarm Notice	CTL*	[0 to 1/1/1]
5-515-009	SC/Alarm Setting	Non Genuine Tonner Ararm	CTL*	[0 to 1/1/1]
5-515-010	SC/Alarm Setting	Supply Automatic Ordering Call	CTL*	[0 to 1/1/1]
5-515-011	SC/Alarm Setting	Supply Management Report Call	CTL*	[0 to 1/1/1]
5-515-012	SC/Alarm Setting	Jam/Door Open Call	CTL*	[0 to 1/1/1]
5-515-050	SC/Alarm Setting	Timeout:Manual Call	CTL*	[1 to 255/5/1min]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-515-051	SC/Alarm Setting	Timeout:Other Call	CTL*	[1 to 255/10/1min]
5-517-031	Get Machine Information	Get SMC Info: Retry Interval	CTL*	[0 to 255/10/1min]
5-728-001	Network Setting	NAT Machine Port1	CTL*	[1 to 65535/49101/1]
5-728-002	Network Setting	NAT UI Port1	CTL*	[1 to 65535/55101/1]
5-728-003	Network Setting	NAT Machine Port2	CTL*	[1 to 65535/49102/1]
5-728-004	Network Setting	NAT UI Port2	CTL*	[1 to 65535/55102/1]
5-728-005	Network Setting	NAT Machine Port3	CTL*	[1 to 65535/49103/1]
5-728-006	Network Setting	NAT UI Port3	CTL*	[1 to 65535/55103/1]
5-728-007	Network Setting	NAT Machine Port4	CTL*	[1 to 65535/49104/1]
5-728-008	Network Setting	NAT UI Port4	CTL*	[1 to 65535/55104/1]
5-728-009	Network Setting	NAT Machine Port5	CTL*	[1 to 65535/49105/1]
5-728-010	Network Setting	NAT UI Port5	CTL*	[1 to 65535/55105/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-728-011	Network Setting	NAT Machine Port6	CTL*	[1 to 65535/49106/1]
5-728-012	Network Setting	NAT UI Port6	CTL*	[1 to 65535/55106/1]
5-728-013	Network Setting	NAT Machine Port7	CTL*	[1 to 65535/49107/1]
5-728-014	Network Setting	NAT UI Port7	CTL*	[1 to 65535/55107/1]
5-728-015	Network Setting	NAT Machine Port8	CTL*	[1 to 65535/49108/1]
5-728-016	Network Setting	NAT UI Port8	CTL*	[1 to 65535/55108/1]
5-728-017	Network Setting	NAT Machine Port9	CTL*	[1 to 65535/49109/1]
5-728-018	Network Setting	NAT UI Port9	CTL*	[1 to 65535/55109/1]
5-728-019	Network Setting	NAT Machine Port10	CTL*	[1 to 65535/49110/1]
5-728-020	Network Setting	NAT UI Port10	CTL*	[1 to 65535/55110/1]
5-730-010	Extended Function Setting	Expiration Prior Alarm Set	CTL*	[0 to 999/20/1days]
5-731-001	Counter Effect	Change Mk1 Cnt(Paper->Combine)	CTL*	[0 to 1/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-745-211	DeemedPowerConsumption	Controller Standby	CTL*	[0 to 9999/0/1]
5-745-212	DeemedPowerConsumption	STR	CTL*	[0 to 9999/0/1]
5-745-213	DeemedPowerConsumption	Main Power Off	CTL*	[0 to 9999/0/1]
5-745-214	DeemedPowerConsumption	Scanning and Printing	CTL*	[0 to 9999/0/1]
5-745-215	DeemedPowerConsumption	Printing	CTL*	[0 to 9999/0/1]
5-745-216	DeemedPowerConsumption	Scanning	CTL*	[0 to 9999/0/1]
5-745-217	DeemedPowerConsumption	Engine Standby	CTL*	[0 to 9999/0/1]
5-745-218	DeemedPowerConsumption	Low Power Consumption	CTL*	[0 to 9999/0/1]
5-745-219	DeemedPowerConsumption	Silent condition	CTL*	[0 to 9999/0/1]
5-745-220	DeemedPowerConsumption	Heater Off	CTL*	[0 to 9999/0/1]
5-748-101	OpePanel Setting	Op Type Action Setting	CTL*	[0 to 255/0/1]
5-748-201	OpePanel Setting	Cheetah Panel Connect Setting	CTL*	[0 to 1/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-749-001	Import/Export	Export	CTL*	[0 to 0/0/0]
5-749-101	Import/Export	Import	CTL*	[0 to 0/0/0]
5-751-001	Key Event Encryption Setting	Password	CTL*	[0 to 255/0/1]
5-758-001	RemoteUI Setting	Authentication	CTL*	[0 to 1/0/1]
5-759 RTB 26 ~~5-759-001~~	~~Machine Limit Count~~	~~Machine Limit Count Setting~~	~~CTL*~~	~~[0 to 1/0/1]~~
~~5-759-061~~	~~Machine Limit Count~~	~~Full Color Limit Count~~	~~CTL*~~	~~[0 to 99999999/0/1]~~
~~5-759-062~~	~~Machine Limit Count~~	~~Mono Color Limit Count~~	~~CTL*~~	~~[0 to 99999999/0/1]~~
5-761-001	SmartOperationPanel Setting	Restore the default Home screen	CTL	[0 to 255/0/1]
5-801-001	Memory Clear	All Clear	CTL	[0 to 0/0/0]
5-801-003	Memory Clear	SCS	CTL	[0 to 0/0/0]
5-801-004	Memory Clear	IMH Memory Clr	CTL	[0 to 0/0/0]
5-801-005	Memory Clear	MCS	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-801-008	Memory Clear	Printer Application	CTL	[0 to 0/0/0]
5-801-010	Memory Clear	Web Service	CTL	[0 to 0/0/0]
5-801-011	Memory Clear	NCS	CTL	[0 to 0/0/0]
5-801-014	Memory Clear	Clear DCS Setting	CTL	[0 to 0/0/0]
5-801-015	Memory Clear	Clear UCS Setting	CTL	[0 to 0/0/0]
5-801-016	Memory Clear	MIRS Setting	CTL	[0 to 0/0/0]
5-801-017	Memory Clear	CCS	CTL	[0 to 0/0/0]
5-801-018	Memory Clear	SRM Memory Clr	CTL	[0 to 0/0/0]
5-801-019	Memory Clear	LCS	CTL	[0 to 0/0/0]
5-801-021	Memory Clear	ECS	CTL	[0 to 0/0/0]
5-801-025	Cleae Memory	websys	CTL	[0 to 0/0/0]
5-801-026	Memory Clear	PLN	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-801-027	Memory Clear	SAS	CTL	[0 to 0/0/0]
5-801-028	Memory Clear	Rest WebService	CTL	[0 to 0/0/0]
5-812-001	Service Tel. No. Setting	Service	CTL*	[0 to 0/0/0]
5-812-002	Service Tel. No. Setting	Facsimile	CTL*	[0 to 0/0/0]
5-812-003	Service Tel. No. Setting	Supply	CTL*	[0 to 0/0/0]
5-812-004	Service Tel. No. Setting	Operation	CTL*	[0 to 0/0/0]
5-812-101	Service Tel. No. Setting	Disp Inquiry	CTL*	[0 to 1/0/1]
5-816-001	Remote Service	I/F Setting	CTL*	[0 to 2/2/1]
5-816-002	Remote Service	CE Call	CTL*	[0 to 1/0/1]
5-816-003	Remote Service	Function Flag	CTL*	[0 to 1/0/1]
5-816-007	Remote Service	SSL Disable	CTL*	[0 to 1/0/1]
5-816-008	Remote Service	RCG Connect Timeout	CTL*	[1 to 90/30/1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-009	Remote Service	RCG Write Timeout	CTL*	[0 to 100/60/1sec]
5-816-010	Remote Service	RCG Read Timeout	CTL*	[0 to 100/60/1sec]
5-816-011	Remote Service	Port 80 Enable	CTL*	[0 to 1/0/1]
5-816-013	Remote Service	RFU Timing	CTL*	[0 to 1/1/1]
5-816-014	Remote Service	RCG Error Cause	CTL*	[0 to 2/0/1]
5-816-021	Remote Service	RCG-C Registed	CTL*	[0 to 1/0/1]
5-816-023	Remote Service	Connect Type(N/M)	CTL*	[0 to 1/0/1]
5-816-061	Remote Service	Cert Expire Timing	CTL*	[0 to 0/0/1]
5-816-062	Remote Service	Use Proxy	CTL*	[0 to 1/0/1]
5-816-063	Remote Service	Proxy Host	CTL*	[0 to 0/0/0]
5-816-064	Remote Service	Proxy PortNumber	CTL*	[0 to 0xffff/0/1]
5-816-065	Remote Service	Proxy User Name	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-066	Remote Service	Proxy Password	CTL*	[0 to 0/0/0]
5-816-067	Remote Service	CERT:Up State	CTL*	[0 to 255/0/1]
5-816-068	Remote Service	CERT:Error	CTL*	[0 to 255/0/1]
5-816-069	Remote Service	CERT:Up ID	CTL*	[0 to 0/0/0]
5-816-071	Remote Service	RetryInterBackup	CTL*	[0 to 0xffffffff/0/1sec]
5-816-072	Remote Service	RetryCountBackup	CTL*	[0 to 255/0/1]
5-816-073	Remote Service	SendDelay Backup	CTL*	[0 to 255/0/1sec]
5-816-074	Remote Service	Timeout Backup	CTL*	[1 to 90/0/1sec]
5-816-075	Remote Service	MaxMultipart BU	CTL*	[0 to 255/0/1]
5-816-076	Remote Service	Get/PostInter BU	CTL*	[0 to 0xffff/0/1sec]
5-816-077	Remote Service	Get/PostCount BU	CTL*	[0 to 255/0/1]
5-816-080	Remote Service	Valid A.NoticeBU	CTL*	[0 to 15552000/0/1sec]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-081	Remote Service	PollingInter BU	CTL*	[0 to 0xffffffff/0/1]
5-816-083	Remote Service	Firm Up Status	CTL*	[0 to 1/0/1]
5-816-085	Remote Service	Firm Up User Check	CTL*	[0 to 1/0/1]
5-816-086	Remote Service	Firmware Size	CTL*	[0 to 0xffffffff/0/1]
5-816-087	Remote Service	CERT:Macro Ver.	CTL*	[0 to 0/0/0]
5-816-088	Remote Service	CERT:PAC Ver.	CTL*	[0 to 0/0/0]
5-816-089	Remote Service	CERT:ID2Code	CTL*	[0 to 0/0/0]
5-816-090	Remote Service	CERT:Subject	CTL*	[0 to 0/0/0]
5-816-091	Remote Service	CERT:SerialNo.	CTL*	[0 to 0/0/0]
5-816-092	Remote Service	CERT:Issuer	CTL*	[0 to 0/0/0]
5-816-093	Remote Service	CERT:Valid Start	CTL*	[0 to 0/0/0]
5-816-094	Remote Service	CERT:Valid End	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-102	Remote Service	CERT:Encrypt Level	CTL*	[1 to 2/1/1]
5-816-103	Remote Service	Client Communication Method	CTL*	[0 to 3/0/1]
5-816-104	Remote Service	Client Communication Limit	CTL*	[1 to 7/7/1]
5-816-115	Remote Service	Network Information Waiting timer	CTL*	[5 to 255/5/1sec]
5-816-200	Remote Service	Manual Polling	CTL*	[0 to 1/0/1]
5-816-201	Remote Service	Regist Status	CTL*	[0 to 255/0/1]
5-816-202	Remote Service	Letter Number	CTL*	[0 to 0/0/0]
5-816-203	Remote Service	Confirm Execute	CTL*	[0 to 1/0/1]
5-816-204	Remote Service	Confirm Result	CTL*	[0 to 255/0/1]
5-816-205	Remote Service	Confirm Place	CTL*	[0 to 1/0/1]
5-816-206	Remote Service	Register Execute	CTL*	[0 to 1/0/1]
5-816-207	Remote Service	Register Result	CTL*	[0 to 255/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-208	Remote Service	Error Code	CTL*	[-2147483647 to 2147483647/0/0]
5-816-209	Remote Service	Instl Clear	CTL*	[0 to 1/0/1]
5-816-240	Remote Service	CommErrorTime	CTL*	[0 to 0/0/1]
5-816-241	Remote Service	CommErrorCode 1	CTL*	[0 to 0xffffffff/0x00000000/1]
5-816-242	Remote Service	CommErrorCode 2	CTL*	[0 to 0xffffffff/0x00000000/1]
5-816-243	Remote Service	CommErrorCode 3	CTL*	[0 to 0xffffffff/0x00000000/1]
5-816-244	Remote Service	CommErrorState 1	CTL*	[0 to 0xffff/0x0000/1]
5-816-245	Remote Service	CommErrorState 2	CTL*	[0 to 0xffff/0x0000/1]
5-816-246	Remote Service	CommErrorState 3	CTL*	[0 to 0xffff/0x0000/1]
5-816-247	Remote Service	SSL Error Count	CTL*	[0 to 255/0/1]
5-816-248	Remote Service	Other Err Count	CTL*	[0 to 255/0/1]
5-816-250	Remote Service	CommLog Print	CTL*	[0 to 255/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-821-002	Remote Service RCG Setting	RCG IPv4 Address	CTL*	[0 to 0xffffffff/0/1]
5-821-003	Remote Service RCG Setting	RCG Port	CTL*	[0 to 65535/443/1]
5-821-004	Remote Service RCG Setting	RCG IPv4 URL Path	CTL*	[0 to 0/0/0]
5-821-005	Remote Service RCG Setting	RCG IPv6 Address	CTL*	[0 to 0/0/0]
5-821-006	Remote Service RCG Setting	RCG IPv6 URL Path	CTL*	[0 to 0/0/0]
5-821-007	Remote Service RCG Setting	RCG Host Name	CTL*	[0 to 0/0/0]
5-821-008	Remote Service RCG Setting	RCG Host URL Path	CTL*	[0 to 0/0/0]
5-824-001	NV-RAM Data Upload		CTL*	[0 to 0/0/0]
5-825-001	NV-RAM Data Download		CTL*	[0 to 0/0/0]
5-828-039	Network Setting	User Class	CTL*	[0 to 0/0/0]
5-828-040	Network Setting	Class Id	CTL*	[0 to 0/0/0]
5-828-050	Network Setting	1284 Compatiblity (Centro)	CTL*	[0 to 1/1/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-828-052	Network Setting	ECP (Centro)	CTL*	[0 to 1/1/1]
5-828-065	Network Setting	Job Spooling	CTL*	[0 to 1/0/1]
5-828-066	Network Setting	Job Spooling Clear: Start Time	CTL*	[0 to 1/1/1]
5-828-069	Network Setting	Job Spooling (Protocol)	CTL*	[0x00 to 0xff/0x7f/0]
5-828-087	Network Setting	Protocol usage	CTL*	[0x00000000 to 0xffffffff/0x00000000/1]
5-828-090	Network Setting	TELNET(0:OFF 1:ON)	CTL*	[0 to 1/1/1]
5-828-091	Network Setting	Web(0:OFF 1:ON)	CTL*	[0 to 1/1/1]
5-828-145	Network Setting	Active IPv6 Link Local Address	CTL*	[0 to 0/0/0]
5-828-147	Network Setting	Active IPv6 Stateless Address 1	CTL*	[0 to 0/0/0]
5-828-149	Network Setting	Active IPv6 Stateless Address 2	CTL*	[0 to 0/0/0]
5-828-151	Network Setting	Active IPv6 Stateless Address 3	CTL*	[0 to 0/0/0]
5-828-153	Network Setting	Active IPv6 Stateless Address 4	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-828-155	Network Setting	Active IPv6 Stateless Address 5	CTL*	[0 to 0/0/0]
5-828-156	Network Setting	IPv6 Manual Address	CTL*	[0 to 0/0/0]
5-828-158	Network Setting	IPv6 Gateway Address	CTL*	[0 to 0/0/0]
5-828-161	Network Setting	IPv6 Stateless Auto Setting	CTL*	[0 to 1/1/1]
5-828-219	Network Setting	IPsec Aggressive Mode Setting	CTL*	[0 to 1/0/1]
5-828-236	Network Setting	Web Item visible	CTL*	[0x0000 to 0xffff/0xffff/1]
5-828-237	Network Setting	Web shopping link visible	CTL*	[0 to 1/1/1]
5-828-238	Network Setting	Web Supplies Link visible	CTL*	[0 to 1/1/1]
5-828-239	Network Setting	Web Link1 Name	CTL*	[0 to 0/0/0]
5-828-240	Network Setting	Web Link1 URL	CTL*	[0 to 0/0/0]
5-828-241	Network Setting	Web Link1 visible	CTL*	[0 to 1/1/1]
5-828-242	Network Setting	Web Link2 Name	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-828-243	Network Setting	Web Link2 URL	CTL*	[0 to 0/0/0]
5-828-244	Network Setting	Web Link2 visible	CTL*	[0 to 1/1/1]
5-828-249	Network Setting	DHCPv6 DUID	CTL*	[0 to 0/0/0]
5-832-001	HDD	HDD Formatting (ALL)	CTL*	[0 to 0/0/0]
5-840-006	IEEE 802.11	Channel MAX	CTL*	[1 to 14/14/1]
5-840-007	IEEE 802.11	Channel MIN	CTL*	[1 to 14/1/1]
5-840-011	IEEE 802.11	WEP Key Select	CTL*	[0x00 to 0x11/0x00/0]
5-840-045	IEEE 802.11	WPA Debug Lvl	CTL*	[1 to 3/3/1]
5-840-046	IEEE 802.11	11w	CTL*	[0 to 2/0/1]
5-840-047	IEEE 802.11	PSK Set Type	CTL*	[0 to 1/0/1]
5-841-001	Supply Name Setting	Toner Name Setting: Black	CTL*	[0 to 0/0/0]
5-841-002	Supply Name Setting	Toner Name Setting: Cyan	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-841-003	Supply Name Setting	Toner Name Setting: Yellow	CTL*	[0 to 0/0/0]
5-841-004	Supply Name Setting	Toner Name Setting: Magenta	CTL*	[0 to 0/0/0]
5-841-009	Supply Name Setting	WasteTonerBottle	CTL*	[0 to 0/0/0]
5-841-011	Supply Name Setting	StapleStd1	CTL*	[0 to 0/0/0]
5-841-012	Supply Name Setting	StapleStd2	CTL*	[0 to 0/0/0]
5-841-013	Supply Name Setting	StapleStd3	CTL*	[0 to 0/0/0]
5-841-014	Supply Name Setting	StapleStd4	CTL*	[0 to 0/0/0]
5-841-021	Supply Name Setting	StapleBind1	CTL*	[0 to 0/0/0]
5-841-022	Supply Name Setting	StapleBind2	CTL*	[0 to 0/0/0]
5-841-023	Supply Name Setting	StapleBind3	CTL*	[0 to 0/0/0]
5-842-001	GWWS Analysis	Setting 1	CTL*	[0x00 to 0xFF/0/1]
5-842-002	GWWS Analysis	Setting 2	CTL*	[0x00 to 0xFF/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-844-001	USB	Transfer Rate	CTL*	[1 to 4/4/0]
5-844-002	USB	Vendor ID	CTL*	[0x0000 to 0xffff/0x05ca/0]
5-844-003	USB	Product ID	CTL*	[0x0000 to 0xffff/0x0403/0]
5-844-004	USB	Device Release Number	CTL*	[0 to 9999/100/1]
5-844-005	USB	Fixed USB Port	CTL*	[0 to 2/0/1]
5-844-006	USB	PnP Model Name	CTL*	[0 to 0/0/0]
5-844-007	USB	PnP Serial Number	CTL*	[0 to 0/0/0]
5-844-008	USB	Mac Supply Level	CTL*	[0 to 1/1/1]
5-844-009	USB	USB Toggle Clear Mode	CTL*	[0 to 1/0/1]
5-844-100	USB	Notify Unsupport	CTL*	[0 to 1/1/1]
5-845-003	Delivery Server Setting	Retry Interval	CTL*	[60 to 900/300/1sec]
5-845-004	Delivery Server Setting	Number of Retries	CTL*	[0 to 99/3/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-845-022	Delivery Server Setting	Rapid Sending Control	CTL*	[0 to 1/1/1]
5-846-010	UCS Setting	LDAP Search Timeout	CTL*	[1 to 255/60/1]
5-846-041	UCS Setting	Fill Addr Acl Info	CTL*	[0 to 0/0/0]
5-846-043	UCS Setting	Addr Book Media	CTL*	[0 to 30/0/1]
5-846-047	UCS Setting	Initialize Local Addr Book	CTL*	[0 to 0/0/0]
5-846-049	UCS Setting	Initialize LDAP Addr Book	CTL*	[0 to 0/0/0]
5-846-050	UCS Setting	Initialize All Addr Book	CTL*	[0 to 0/0/0]
5-846-051	UCS Setting	Backup All Addr Book	CTL*	[0 to 0/0/0]
5-846-052	UCS Setting	Restore All Addr Book	CTL*	[0 to 0/0/0]
5-846-053	UCS Setting	Clear Backup Info	CTL*	[0 to 0/0/0]
5-846-060	UCS Setting	Search option	CTL*	[0x00 to 0xff/0x0f/1]
5-846-062	UCS Setting	Complexity option 1	CTL*	[0 to 32/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-846-063	UCS Setting	Complexity option 2	CTL*	[0 to 32/0/1]
5-846-064	UCS Setting	Complexity option 3	CTL*	[0 to 32/0/1]
5-846-065	UCS Setting	Complexity option 4	CTL*	[0 to 32/0/1]
5-846-094	UCS Setting	Encryption Stat	CTL*	[0 to 255/0/0]
5-848-004	Web Service	Access Ctrl: udirectory (Lower 4bits)	CTL*	[0x00 to 0xFF/0x00/0]
5-848-009	Web Service	Access Ctrl: Job Ctrl (Lower 4bits)	CTL*	[0x00 to 0xFF/0x00/0]
5-848-011	Web Service	Access Ctrl: Devicemanagement(Lower 4bits)	CTL*	[0x00 to 0xFF/0x00/0]
5-848-022	Web Service	Access Ctrl: uadministration (Lower 4bits)	CTL*	[0x00 to 0xFF/0x00/0]
5-848-024	Web Service	Access Ctrl: Log Service (Lower 4bits)	CTL*	[0x00 to 0xFF/0x00/0]
5-848-025	Web Service	Access Ctrl: Rest WebService (Lower 4bits)	CTL*	[0x00 to 0xFF/0x00/0]
5-848-150	Web Service	Log Operation Mode	CTL*	[0 to 2/0/1]
5-848-217	LogTrans	Setting: Timing	CTL*	[0 to 2/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-849-001	Installation Date	Display	CTL*	[0 to 0/0/0]
5-849-002	Installation Date	Switch to Print	CTL*	[0 to 1/0/1]
5-849-003	Installation Date	Total Counter	CTL*	[0 to 99999999/0/1]
5-851-001	Bluetooth	Mode	CTL*	[0x00 to 0x01/0x00/1]
5-856-002	Remote ROM Update	Local Port	CTL*	[0 to 1/0/1]
5-858-001	Save Machine Info	0:OFF 1:ON	CTL*	[0 to 1/1/1]
5-858-002	Save Machine Info	Target(0:HDD 1:SD)	CTL*	[0 to 1/0/1]
5-858-003	Save Machine Info	Make LogTrace Dir	CTL*	[0 to 1/0/0]
5-858-101	Save Machine Info	Start Date	CTL*	[0 to 20371212/0/1]
5-858-102	Save Machine Info	Days of Tracing	CTL*	[1 to 180/2/1day]
5-858-103	Save Machine Info	Acquire Fax Address(0:OFF 1:ON)	CTL*	[0 to 1/0/1]
5-858-111	Save Machine Info	Acquire All Info & Logs	CTL*	[0 to 1/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-858-121	Save Machine Info	Acquire Configuration Page	CTL*	[0 to 1/0/0]
5-858-122	Save Machine Info	Acquire Font Page	CTL*	[0 to 1/0/0]
5-858-123	Save Machine Info	Acquire Print Setting List	CTL*	[0 to 1/0/0]
5-858-124	Save Machine Info	Acquire Error Log	CTL*	[0 to 1/0/0]
5-858-131	Save Machine Info	Acquire Fax Info	CTL*	[0 to 1/0/0]
5-858-141	Save Machine Info	Acquire All Debug Logs	CTL*	[0 to 1/0/0]
5-858-142	Save Machine Info	Acquire Only Controller Debug Logs	CTL*	[0 to 1/0/0]
5-858-143	Save Machine Info	Acquire Only Engine Debug Logs	CTL*	[0 to 1/0/0]
5-858-144	Save Machine Info	Acquire Only Opepanel Debug Logs	CTL*	[0 to 1/0/0]
5-858-145	Save Machine Info	Acquire Only FCU Debug Logs	CTL*	[0 to 1/0/0]
5-860-002	SMTP/POP3/IMAP4	SMTP Server Port Number	CTL*	[1 to 65535/25/1]
5-860-003	SMTP/POP3/IMAP4	SMTP Authentication	CTL*	[0 to 1/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-860-006	SMTP/POP3/IMAP4	SMTP Auth. Encryption	CTL*	[0 to 2/0/1]
5-860-007	SMTP/POP3/IMAP4	POP before SMTP	CTL*	[0 to 1/0/1]
5-860-008	SMTP/POP3/IMAP4	POP to SMTP Waiting Time	CTL*	[0 to 10000/300/1ms]
5-860-009	SMTP/POP3/IMAP4	Mail Receive Protocol	CTL*	[1 to 3/1/1]
5-860-013	SMTP/POP3/IMAP4	POP3/IMAP4 Auth. Encryption	CTL*	[0 to 2/0/1]
5-860-014	SMTP/POP3/IMAP4	POP3 Server Port Number	CTL*	[1 to 65535/110/1]
5-860-015	SMTP/POP3/IMAP4	IMAP4 Server Port Number	CTL*	[1 to 65535/143/1]
5-860-016	SMTP/POP3/IMAP4	SMTP Receive Port Number	CTL*	[1 to 65535/25/1]
5-860-017	SMTP/POP3/IMAP4	Mail Receive Interval	CTL*	[2 to 1440/3/1min]
5-860-019	SMTP/POP3/IMAP4	Mail Keep Setting	CTL*	[0 to 2/0/1]
5-860-020	SMTP/POP3/IMAP4	Partial Mail Receive Timeout	CTL*	[1 to 168/72/1hour]
5-860-021	SMTP/POP3/IMAP4	MDN Response RFC2298 Compliance	CTL*	[0 to 1/1/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-860-022	SMTP/POP3/IMAP4	SMTP Auth. From Field Replacement	CTL*	[0 to 1/0/1]
5-860-025	SMTP/POP3/IMAP4	SMTP Auth. Direct Setting	CTL*	[0 to 0xff/0/1]
5-860-026	SMTP/POP3/IMAP4	S/MIME:MIME Header Setting	CTL*	[0 to 2/0/1]
5-866-001	E-Mail Report	Report Validity	CTL*	[0 to 1/0/1]
5-866-005	E-Mail Report	Add Date Field	CTL*	[0 to 1/0/1]
5-869-001	RAM Disk Setting	Mail Function	CTL*	[0 to 1/0/1]
5-870-001	Common KeyInfo Writing	Writing	CTL*	[0 to 1/0/1]
5-870-003	Common KeyInfo Writing	Initialize	CTL*	[0 to 1/0/1]
5-870-004	Common Key Info Writing	Writing: 2048bit	CTL*	[0 to 1/0/1]
5-873-001	SDCardAppliMove	MoveExec	CTL*	[0 to 0/0/1]
5-873-002	SDCardAppliMove	UndoExec	CTL*	[0 to 0/0/1]
5-875-001	SC Auto Reboot	Reboot Setting	CTL*	[0 to 1/0/1]

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SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-875-002	SC Auto Reboot	Reboot Type	CTL*	[0 to 1/1/1]
5-878-001	Option Setup	Data Overwrite Security	CTL*	[0 to 0/0/0]
5-878-002	Option Setup	HDD Encryption	CTL*	[0 to 0/0/0]
5-881-001	Fixed Phrase Block Erasing		CTL*	[0 to 0/0/0]
5-886-100	Farm Update Setting	Skip Version Check	CTL*	[0 to 1/0/1]
5-886-101	Farm Update Setting	Skip LR Check	CTL*	[0 to 1/0/1]
5-886-111	Farm Update Setting	Auto Update Setting	CTL*	[0 to 1/0/1]
5-886-112	Farm Update Setting	Auto Update Prohibit Term Setting	CTL*	[0 to 1/1/1]
5-886-113	Farm Update Setting	Auto Update Prohibit Start hour	CTL*	[0 to 23/9/1hour]
5-886-114	Farm Update Setting	Auto Update Prohibit End hour	CTL*	[0 to 23/17/1hour]
5-886-115	Farm Update Setting	SFU Auto Download Setting	CTL*	[0 to 1/0/1]
5-886-116	Farm Update Setting	Auto Update Next Date	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-886-117	Farm Update Setting	Auto Update Retry Interval Hour	CTL*	[1 to 24/1/1hour]
5-886-119	Farm Update Setting	Auto Update @Remote Using Setting	CTL*	[0 to 1/0/1]
5-886-120	Farm Update Setting	Auto Update Prohibit Day of Week Setting	CTL*	[0 to 255/0/1]
5-886-201	Farm Update Setting	Restore Date	CTL*	[0 to 0/0/0]
5-886-202	Farm Update Setting	Save Old Version List	CTL*	[0 to 0/0/0]
5-887-001	SD GetCounter		CTL*	[0 to 0/0/0]
5-888-001	Personal Information Protect		CTL*	[0 to 1/0/1]
5-893-001	SDK Application Counter	SDK-1	CTL*	[0 to 0/0/0]
5-893-002	SDK Application Counter	SDK-2	CTL*	[0 to 0/0/0]
5-893-003	SDK Application Counter	SDK-3	CTL*	[0 to 0/0/0]
5-893-004	SDK Application Counter	SDK-4	CTL*	[0 to 0/0/0]
5-893-005	SDK Application Counter	SDK-5	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-893-006	SDK Application Counter	SDK-6	CTL*	[0 to 0/0/0]
5-893-007	SDK Application Counter	SDK-7	CTL*	[0 to 0/0/0]
5-893-008	SDK Application Counter	SDK-8	CTL*	[0 to 0/0/0]
5-893-009	SDK Application Counter	SDK-9	CTL*	[0 to 0/0/0]
5-893-010	SDK Application Counter	SDK-10	CTL*	[0 to 0/0/0]
5-893-011	SDK Application Counter	SDK-11	CTL*	[0 to 0/0/0]
5-893-012	SDK Application Counter	SDK-12	CTL*	[0 to 0/0/0]
5-907-001	Plug & Play Maker/Model Name		CTL*	[0 to 255/0/1]
5-990-001	SP Print Mode	All (Data List)	CTL*	[0 to 255/0/0]
5-990-002	SP Print Mode	SP (Mode Data List)	CTL*	[0 to 255/0/0]
5-990-003	SP Print Mode	User Program	CTL*	[0 to 255/0/0]
5-990-004	SP Print Mode	Logging Data	CTL*	[0 to 255/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-990-005	SP Print Mode	Diagnostic Report	CTL*	[0 to 255/0/0]
5-990-006	SP Print Mode	Non-Default	CTL*	[0 to 255/0/0]
5-990-007	SP Print Mode	NIB Summary	CTL*	[0 to 0/0/0]
5-990-024	SP Print Mode	SDK/J Summary	CTL*	[0 to 0/0/0]
5-990-025	SP Print Mode	SDK/J Application Info	CTL*	[0 to 0/0/0]
5-990-026	SP Print Mode	Printer SP	CTL*	[0 to 255/0/0]
5-990-027	SP Print Mode	SmartOperationPanel SP	CTL*	[0 to 255/0/0]
5-990-028	SP Print Mode	SmartOperationPanel UP	CTL*	[0 to 255/0/0]
5-992-001	SP Text Mode	All (Data List)	CTL*	[0 to 255/0/0]
5-992-002	SP Text Mode	SP (Mode Data List)	CTL*	[0 to 255/0/0]
5-992-003	SP Text Mode	User Program	CTL*	[0 to 255/0/0]
5-992-004	SP Text Mode	Logging Data	CTL*	[0 to 255/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-992-005	SP Text Mode	Diagnostic Report	CTL*	[0 to 255/0/0]
5-992-006	SP Text Mode	Non-Default	CTL*	[0 to 255/0/0]
5-992-007	SP Text Mode	NIB Summary	CTL*	[0 to 0/0/0]
5-992-024	SP Text Mode	SDK/J Summary	CTL*	[0 to 0/0/0]
5-992-025	SP Text Mode	SDK/J Application Info	CTL*	[0 to 0/0/0]
5-992-026	SP Text Mode	Printer SP	CTL*	[0 to 255/0/0]
5-992-027	SP Text Mode	SmartOperationPanel SP	CTL*	[0 to 255/0/0]
5-992-028	SP Text Mode	SmartOperationPanel UP	CTL*	[0 to 255/0/0]

Controller SP6-XXX (Peripherals)

SP6-830 to SP6-890

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-830-001	Extra	Staples 0 to 50 (Initial:0)	CTL*	[0 to 50/0/1]
6-830-002	Extra	Saddles 0 to 50 (Initial:0)	CTL*	[0 to 50/0/1]
6-830-003	Extra	Half-Fold 0 to 50 (Initial:0)	CTL*	[0 to 50/0/1]
6-830-005	Extra	StaplessStaples 0 to 50 (Initial:0)	CTL*	[0 to 50/0/1]
6-890-001	Function Enabled	Z-Fold 0:No Punch 1:Punching OK	CTL*	[0 to 1/0/1]

Controller SP7-XXX (Data Log1)

SP7-401 to SP7-911

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-401-001	Total SC	SC Counter	CTL*	[0 to 65535/0/0]
7-401-002	Total SC	Total SC Counter	CTL*	[0 to 65535/0/0]
7-403-001	SC History	Latest	CTL*	[0 to 0/0/0]
7-403-002	SC History	Latest 1	CTL*	[0 to 0/0/0]
7-403-003	SC History	Latest 2	CTL*	[0 to 0/0/0]
7-403-004	SC History	Latest 3	CTL*	[0 to 0/0/0]
7-403-005	SC History	Latest 4	CTL*	[0 to 0/0/0]
7-403-006	SC History	Latest 5	CTL*	[0 to 0/0/0]
7-403-007	SC History	Latest 6	CTL*	[0 to 0/0/0]
7-403-008	SC History	Latest 7	CTL*	[0 to 0/0/0]
7-403-009	SC History	Latest 8	CTL*	[0 to 0/0/0]
7-403-010	SC History	Latest 9	CTL*	[0 to 0/0/0]
7-404-001	Software Error History	Latest	CTL*	[0 to 0/0/0]
7-404-002	Software Error History	Latest 1	CTL*	[0 to 0/0/0]
7-404-003	Software Error History	Latest 2	CTL*	[0 to 0/0/0]
7-404-004	Software Error History	Latest 3	CTL*	[0 to 0/0/0]
7-404-	Software Error History	Latest 4	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
7-404-006	Software Error History	Latest 5	CTL*	[0 to 0/0/0]
7-404-007	Software Error History	Latest 6	CTL*	[0 to 0/0/0]
7-404-008	Software Error History	Latest 7	CTL*	[0 to 0/0/0]
7-404-009	Software Error History	Latest 8	CTL*	[0 to 0/0/0]
7-404-010	Software Error History	Latest 9	CTL*	[0 to 0/0/0]
7-502-001	Total Paper Jam	Jam Counter	CTL*	[0 to 65535/0/0]
7-502-002	Total Paper Jam	Total Jam Counter	CTL*	[0 to 65535/0/0]
7-504-001	Paper Jam Location	Initial Jam	CTL*	[0 to 65535/0/0]
7-504-003	Paper Jam Location	Tray1: On	CTL*	[0 to 65535/0/0]
7-504-004	Paper Jam Location	Tray2: On	CTL*	[0 to 65535/0/0]
7-504-005	Paper Jam Location	Tray3: On	CTL*	[0 to 65535/0/0]
7-504-006	Paper Jam Location	Tray4: On	CTL*	[0 to 65535/0/0]
7-504-007	Paper Jam Location	Tray5: On	CTL*	[0 to 65535/0/0]
7-504-008	Paper Jam Location	Bypass: On	CTL*	[0 to 65535/0/0]
7-504-009	Paper Jam Location	Duplex: On	CTL*	[0 to 65535/0/0]
7-504-011	Paper Jam Location	Transport 1: On	CTL*	[0 to 65535/0/0]
7-504-012	Paper Jam Location	Transport 2: On	CTL*	[0 to 65535/0/0]
7-504-	Paper Jam Location	Vertical Trans. 3: On	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
7-504-014	Paper Jam Location	Vertical Trans. 4: On	CTL*	[0 to 65535/0/0]
7-504-015	Paper Jam Location	Vertical Trans. 5: On	CTL*	[0 to 65535/0/0]
7-504-017	Paper Jam Location	Registration: On	CTL*	[0 to 65535/0/0]
7-504-018	Paper Jam Location	Fusing Entrance: On	CTL*	[0 to 65535/0/0]
7-504-019	Paper Jam Location	Fusing Exit: On	CTL*	[0 to 65535/0/0]
7-504-020	Paper Jam Location	Paper Exit: On	CTL*	[0 to 65535/0/0]
7-504-021	Paper Jam Location	Bridge Tray Exit: On	CTL*	[0 to 65535/0/0]
7-504-022	Paper Jam Location	Bridge Relay: On	CTL*	[0 to 65535/0/0]
7-504-024	Paper Jam Location	Inverter: On	CTL*	[0 to 65535/0/0]
7-504-025	Paper Jam Location	Duplex Exit Sensor: On	CTL*	[0 to 65535/0/0]
7-504-027	Paper Jam Location	Duplex Entrance Sensor: On	CTL*	[0 to 65535/0/0]
7-504-048	Paper Jam Location	Bypass Paper Feed: On	CTL*	[0 to 65535/0/0]
7-504-051	Paper Jam Location	Tray1: Off	CTL*	[0 to 65535/0/0]
7-504-052	Paper Jam Location	Tray2: Off	CTL*	[0 to 65535/0/0]
7-504-053	Paper Jam Location	Tray3: Off	CTL*	[0 to 65535/0/0]
7-504-054	Paper Jam Location	Tray4: Off	CTL*	[0 to 65535/0/0]
7-504-057	Paper Jam Location	RegistratiOff: Off	CTL*	[0 to 65535/0/0]
7-504-	Paper Jam Location	Tray5: Off	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
058				
7-504-060	Paper Jam Location	Paper Exit: Off	CTL*	[0 to 65535/0/0]
7-504-061	Paper Jam Location	Bridge Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-504-062	Paper Jam Location	Bridge Relay: Off	CTL*	[0 to 65535/0/0]
7-504-064	Paper Jam Location	Inverter: Off	CTL*	[0 to 65535/0/0]
7-504-065	Paper Jam Location	Duplex Exit Sensor: Off	CTL*	[0 to 65535/0/0]
7-504-067	Paper Jam Location	Duplex Entrance Sensor: Off	CTL*	[0 to 65535/0/0]
7-504-096	Paper Jam Location	Timing: On	CTL*	[0 to 65535/0/0]
7-504-150	Paper Jam Location	Entrance: On	CTL*	[0 to 65535/0/0]
7-504-151	Paper Jam Location	Entrance: Off	CTL*	[0 to 65535/0/0]
7-504-152	Paper Jam Location	Horizontal Transport Sensor: On	CTL*	[0 to 65535/0/0]
7-504-153	Paper Jam Location	Horizontal Transport Sensor: Off	CTL*	[0 to 65535/0/0]
7-504-154	Paper Jam Location	Switchback Transport Sensor: On	CTL*	[0 to 65535/0/0]
7-504-155	Paper Jam Location	Switchback Transport Sensor: Off	CTL*	[0 to 65535/0/0]
7-504-156	Paper Jam Location	Proof Tray Exit: On	CTL*	[0 to 65535/0/0]
7-504-157	Paper Jam Location	Proof Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-504-158	Paper Jam Location	Shift Tray Exit: On	CTL*	[0 to 65535/0/0]
7-504-159	Paper Jam Location	Shift Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-504-	Paper Jam Location	Entrance Motor	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
162				
7-504-163	Paper Jam Location	Horizontal Transpor Motor	CTL*	[0 to 65535/0/0]
7-504-164	Paper Jam Location	Pre-Stack Transport Motor	CTL*	[0 to 65535/0/0]
7-504-165	Paper Jam Location	Relay Motor	CTL*	[0 to 65535/0/0]
7-504-166	Paper Jam Location	Paper Exit Motor	CTL*	[0 to 65535/0/0]
7-504-167	Paper Jam Location	Trailing Edge Stack Plate Motor	CTL*	[0 to 65535/0/0]
7-504-168	Paper Jam Location	Paper Exit Open/Close Guide Plate Motor	CTL*	[0 to 65535/0/0]
7-504-169	Paper Jam Location	Punching Motor	CTL*	[0 to 65535/0/0]
7-504-170	Paper Jam Location	Punch Move Motor	CTL*	[0 to 65535/0/0]
7-504-171	Paper Jam Location	S-to-S Registration Detection	CTL*	[0 to 65535/0/0]
7-504-172	Paper Jam Location	Lower Junction Solenoid Motor	CTL*	[0 to 65535/0/0]
7-504-173	Paper Jam Location	Jogger Motor	CTL*	[0 to 65535/0/0]
7-504-174	Paper Jam Location	Positioning Roller Rotation Motor	CTL*	[0 to 65535/0/0]
7-504-175	Paper Jam Location	Feed Out Motor	CTL*	[0 to 65535/0/0]
7-504-176	Paper Jam Location	Corner Staple Move Motor	CTL*	[0 to 65535/0/0]
7-504-177	Paper Jam Location	Corner Stapler Motor	CTL*	[0 to 65535/0/0]
7-504-185	Paper Jam Location	Tray Lift Motor	CTL*	[0 to 65535/0/0]
7-504-186	Paper Jam Location	Shift Motor	CTL*	[0 to 65535/0/0]
7-504-	Paper Jam Location	Shift Jogger Front Motor	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
187				
7-504-188	Paper Jam Location	Shift Jogger Rear Motor	CTL*	[0 to 65535/0/0]
7-504-189	Paper Jam Location	Shift Jogger Retraction Motor	CTL*	[0 to 65535/0/0]
7-504-190	Paper Jam Location	Drag Roller Vibrating Motor	CTL*	[0 to 65535/0/0]
7-504-191	Paper Jam Location	Leading Edge Guide Motor	CTL*	[0 to 65535/0/0]
7-504-192	Paper Jam Location	Positioning Transpor Motor	CTL*	[0 to 65535/0/0]
7-504-193	Paper Jam Location	Paper Guide Motor	CTL*	[0 to 65535/0/0]
7-504-194	Paper Jam Location	Job Data Error	CTL*	[0 to 65535/0/0]
7-504-200	Paper Jam Location	Entrance: On	CTL*	[0 to 65535/0/0]
7-504-201	Paper Jam Location	Entrance: Off	CTL*	[0 to 65535/0/0]
7-504-202	Paper Jam Location	Proof Tray Exit: On	CTL*	[0 to 65535/0/0]
7-504-203	Paper Jam Location	Proof Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-504-204	Paper Jam Location	ITB Transport: Right: On	CTL*	[0 to 65535/0/0]
7-504-205	Paper Jam Location	Left Relay: On	CTL*	[0 to 65535/0/0]
7-504-206	Paper Jam Location	Left Relay: Off	CTL*	[0 to 65535/0/0]
7-504-207	Paper Jam Location	Shift Tray Exit: On	CTL*	[0 to 65535/0/0]
7-504-208	Paper Jam Location	Shift Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-504-209	Paper Jam Location	Stack: On	CTL*	[0 to 65535/0/0]
7-504-	Paper Jam Location	TE Stopper: On	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
210				
7-504-211	Paper Jam Location	TE Stopper: Off	CTL*	[0 to 65535/0/0]
7-504-212	Paper Jam Location	Booklet Folder Exit: On	CTL*	[0 to 65535/0/0]
7-504-213	Paper Jam Location	Booklet Folder Exit: Off	CTL*	[0 to 65535/0/0]
7-504-220	Paper Jam Location	Entrance Motor	CTL*	[0 to 65535/0/0]
7-504-221	Paper Jam Location	Proof Motor	CTL*	[0 to 65535/0/0]
7-504-222	Paper Jam Location	Ppr Feed/Posit & Move Rllr Mt	CTL*	[0 to 65535/0/0]
7-504-223	Paper Jam Location	Shift Motor	CTL*	[0 to 65535/0/0]
7-504-224	Paper Jam Location	Jogger Motor	CTL*	[0 to 65535/0/0]
7-504-225	Paper Jam Location	Exit Guide Plate Motor	CTL*	[0 to 65535/0/0]
7-504-226	Paper Jam Location	Feed Out Motor	CTL*	[0 to 65535/0/0]
7-504-227	Paper Jam Location	Output Tray Motor	CTL*	[0 to 65535/0/0]
7-504-228	Paper Jam Location	Positioning Motor	CTL*	[0 to 65535/0/0]
7-504-229	Paper Jam Location	Stapler Shift Motor(with staples)	CTL*	[0 to 65535/0/0]
7-504-230	Paper Jam Location	Stapler Motor(with staples)	CTL*	[0 to 65535/0/0]
7-504-231	Paper Jam Location	Punch Motor	CTL*	[0 to 65535/0/0]
7-504-232	Paper Jam Location	Stack Transport Motor	CTL*	[0 to 65535/0/0]
7-504-233	Paper Jam Location	LE Stopper Motor	CTL*	[0 to 65535/0/0]
7-504-	Paper Jam Location	Folder Blade Motor	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
234				
7-504-235	Paper Jam Location	Paper Guide Motor	CTL*	[0 to 65535/0/0]
7-504-236	Paper Jam Location	Stapler Shift Motor(without staples)	CTL*	[0 to 65535/0/0]
7-504-237	Paper Jam Location	Stapler Motor(without staples)	CTL*	[0 to 65535/0/0]
7-504-238	Paper Jam Location	Movable Guide Motor	CTL*	[0 to 65535/0/0]
7-504-248	Paper Jam Location	No Exit Response	CTL*	[0 to 65535/0/0]
7-504-249	Paper Jam Location	Main Machine Setting Incorrect	CTL*	[0 to 65535/0/0]
7-506-005	Jam Count by Paper Size	A4 LEF	CTL*	[0 to 65535/0/0]
7-506-006	Jam Count by Paper Size	A5 LEF	CTL*	[0 to 65535/0/0]
7-506-014	Jam Count by Paper Size	B5 LEF	CTL*	[0 to 65535/0/0]
7-506-038	Jam Count by Paper Size	LT LEF	CTL*	[0 to 65535/0/0]
7-506-044	Jam Count by Paper Size	HLT LEF	CTL*	[0 to 65535/0/0]
7-506-132	Jam Count by Paper Size	A3 SEF	CTL*	[0 to 65535/0/0]
7-506-133	Jam Count by Paper Size	A4 SEF	CTL*	[0 to 65535/0/0]
7-506-134	Jam Count by Paper Size	A5 SEF	CTL*	[0 to 65535/0/0]
7-506-141	Jam Count by Paper Size	B4 SEF	CTL*	[0 to 65535/0/0]
7-506-142	Jam Count by Paper Size	B5 SEF	CTL*	[0 to 65535/0/0]
7-506-160	Jam Count by Paper Size	DLT SEF	CTL*	[0 to 65535/0/0]
7-506-	Jam Count by Paper Size	LG SEF	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
164				
7-506-166	Jam Count by Paper Size	LT SEF	CTL*	[0 to 65535/0/0]
7-506-172	Jam Count by Paper Size	HLT SEF	CTL*	[0 to 65535/0/0]
7-506-255	Jam Count by Paper Size	Others	CTL*	[0 to 65535/0/0]
7-507-001	Plotter Jam History	Latest	CTL*	[0 to 0/0/0]
7-507-002	Plotter Jam History	Latest 1	CTL*	[0 to 0/0/0]
7-507-003	Plotter Jam History	Latest 2	CTL*	[0 to 0/0/0]
7-507-004	Plotter Jam History	Latest 3	CTL*	[0 to 0/0/0]
7-507-005	Plotter Jam History	Latest 4	CTL*	[0 to 0/0/0]
7-507-006	Plotter Jam History	Latest 5	CTL*	[0 to 0/0/0]
7-507-007	Plotter Jam History	Latest 6	CTL*	[0 to 0/0/0]
7-507-008	Plotter Jam History	Latest 7	CTL*	[0 to 0/0/0]
7-507-009	Plotter Jam History	Latest 8	CTL*	[0 to 0/0/0]
7-507-010	Plotter Jam History	Latest 9	CTL*	[0 to 0/0/0]
7-509-095	Paper Jam Location	Registration: On	CTL*	[0 to 65535/0/0]
7-509-096	Paper Jam Location	Registration: Off	CTL*	[0 to 65535/0/0]
7-509-097	Paper Jam Location	1st 2-direction Paper Feed SN: On	CTL*	[0 to 65535/0/0]
7-509-098	Paper Jam Location	1st 2-direction Paper Feed SN: Off	CTL*	[0 to 65535/0/0]
7-509-	Paper Jam Location	2nd 2-direction Paper Feed SN:	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
099		On		
7-509-100	Paper Jam Location	2nd 2-direction Paper Feed SN: Off	CTL*	[0 to 65535/0/0]
7-509-101	Paper Jam Location	Crease: On	CTL*	[0 to 65535/0/0]
7-509-102	Paper Jam Location	Crease: Off	CTL*	[0 to 65535/0/0]
7-509-103	Paper Jam Location	Top Tray Exit: On	CTL*	[0 to 65535/0/0]
7-509-104	Paper Jam Location	Top Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-509-105	Paper Jam Location	Bridge Exit: On	CTL*	[0 to 65535/0/0]
7-509-106	Paper Jam Location	Bridge Exit: Off	CTL*	[0 to 65535/0/0]
7-509-115	Paper Jam Location	Registration Motor	CTL*	[0 to 65535/0/0]
7-509-116	Paper Jam Location	Folding Junction Motor	CTL*	[0 to 65535/0/0]
7-509-117	Paper Jam Location	Transport Motor	CTL*	[0 to 65535/0/0]
7-509-118	Paper Jam Location	Folding Motor	CTL*	[0 to 65535/0/0]
7-509-119	Paper Jam Location	2nd 2-direction Paper Feed Motor	CTL*	[0 to 65535/0/0]
7-509-120	Paper Jam Location	Crease Motor	CTL*	[0 to 65535/0/0]
7-509-143	Paper Jam Location	No Exit Response	CTL*	[0 to 65535/0/0]
7-509-144	Paper Jam Location	Main Machine Setting Incorrect	CTL*	[0 to 65535/0/0]
7-509-145	Paper Jam Location	Entrance: On	CTL*	[0 to 65535/0/0]
7-509-146	Paper Jam Location	Entrance: Off	CTL*	[0 to 65535/0/0]
7-509-	Paper Jam Location	Transport SN 1: On	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
147				
7-509-148	Paper Jam Location	Transport SN 1: Off	CTL*	[0 to 65535/0/0]
7-509-149	Paper Jam Location	Transport SN 2: On	CTL*	[0 to 65535/0/0]
7-509-150	Paper Jam Location	Transport SN 2: Off	CTL*	[0 to 65535/0/0]
7-509-153	Paper Jam Location	No Exit Response	CTL*	[0 to 65535/0/0]
7-509-154	Paper Jam Location	Main Machine Setting Incorrect	CTL*	[0 to 65535/0/0]
7-514-001	Paper Jam Count by Location	Initial Jam	CTL*	[0 to 65535/0/0]
7-514-003	Paper Jam Count by Location	Tray1: On	CTL*	[0 to 65535/0/0]
7-514-004	Paper Jam Count by Location	Tray2: On	CTL*	[0 to 65535/0/0]
7-514-005	Paper Jam Count by Location	Tray3: On	CTL*	[0 to 65535/0/0]
7-514-006	Paper Jam Count by Location	Tray4: On	CTL*	[0 to 65535/0/0]
7-514-007	Paper Jam Count by Location	Tray5: On	CTL*	[0 to 65535/0/0]
7-514-008	Paper Jam Count by Location	Bypass: On	CTL*	[0 to 65535/0/0]
7-514-009	Paper Jam Count by Location	Duplex: On	CTL*	[0 to 65535/0/0]
7-514-011	Paper Jam Count by Location	Transport 1: On	CTL*	[0 to 65535/0/0]
7-514-012	Paper Jam Count by Location	Transport 2: On	CTL*	[0 to 65535/0/0]
7-514-013	Paper Jam Count by Location	Vertical Trans. 3: On	CTL*	[0 to 65535/0/0]
7-514-014	Paper Jam Count by Location	Vertical Trans. 4: On	CTL*	[0 to 65535/0/0]
7-514-	Paper Jam Count by	Vertical Trans. 5: On	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
015	Location			
7-514-017	Paper Jam Count by Location	Registration: On	CTL*	[0 to 65535/0/0]
7-514-018	Paper Jam Count by Location	Fusing Entrance: On	CTL*	[0 to 65535/0/0]
7-514-019	Paper Jam Count by Location	Fusing Exit: On	CTL*	[0 to 65535/0/0]
7-514-020	Paper Jam Count by Location	Paper Exit: On	CTL*	[0 to 65535/0/0]
7-514-021	Paper Jam Count by Location	Bridge Tray Exit: On	CTL*	[0 to 65535/0/0]
7-514-022	Paper Jam Count by Location	Bridge Relay: On	CTL*	[0 to 65535/0/0]
7-514-024	Paper Jam Count by Location	Inverter: On	CTL*	[0 to 65535/0/0]
7-514-025	Paper Jam Count by Location	Duplex Exit Sensor: On	CTL*	[0 to 65535/0/0]
7-514-027	Paper Jam Count by Location	Duplex Entrance Sensor: On	CTL*	[0 to 65535/0/0]
7-514-048	Paper Jam Count by Location	Bypass Paper Feed: On	CTL*	[0 to 65535/0/0]
7-514-051	Paper Jam Count by Location	Tray1: Off	CTL*	[0 to 65535/0/0]
7-514-052	Paper Jam Count by Location	Tray2: Off	CTL*	[0 to 65535/0/0]
7-514-053	Paper Jam Count by Location	Tray3: Off	CTL*	[0 to 65535/0/0]
7-514-054	Paper Jam Count by Location	Tray4: Off	CTL*	[0 to 65535/0/0]
7-514-057	Paper Jam Count by Location	RegistratiOff: Off	CTL*	[0 to 65535/0/0]
7-514-058	Paper Jam Count by Location	Tray5: Off	CTL*	[0 to 65535/0/0]
7-514-060	Paper Jam Count by Location	Paper Exit: Off	CTL*	[0 to 65535/0/0]
7-514-	Paper Jam Count by	Bridge Tray Exit: Off	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
061	Location			
7-514-062	Paper Jam Count by Location	Bridge Relay: Off	CTL*	[0 to 65535/0/0]
7-514-064	Paper Jam Count by Location	Inverter: Off	CTL*	[0 to 65535/0/0]
7-514-065	Paper Jam Count by Location	Duplex Exit Sensor: Off	CTL*	[0 to 65535/0/0]
7-514-067	Paper Jam Count by Location	Duplex Entrance Sensor: Off	CTL*	[0 to 65535/0/0]
7-514-096	Paper Jam Count by Location	Timing: On	CTL*	[0 to 65535/0/0]
7-514-150	Paper Jam Count by Location	Entrance: On	CTL*	[0 to 65535/0/0]
7-514-151	Paper Jam Count by Location	Entrance: Off	CTL*	[0 to 65535/0/0]
7-514-152	Paper Jam Count by Location	Horizontal Transport Sensor: On	CTL*	[0 to 65535/0/0]
7-514-153	Paper Jam Count by Location	Horizontal Transport Sensor: Off	CTL*	[0 to 65535/0/0]
7-514-154	Paper Jam Count by Location	Switchback Transport Sensor: On	CTL*	[0 to 65535/0/0]
7-514-155	Paper Jam Count by Location	Switchback Transport Sensor: Off	CTL*	[0 to 65535/0/0]
7-514-156	Paper Jam Count by Location	Proof Tray Exit: On	CTL*	[0 to 65535/0/0]
7-514-157	Paper Jam Count by Location	Proof Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-514-158	Paper Jam Count by Location	Shift Tray Exit: On	CTL*	[0 to 65535/0/0]
7-514-159	Paper Jam Count by Location	Shift Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-514-162	Paper Jam Count by Location	Entrance Motor	CTL*	[0 to 65535/0/0]
7-514-163	Paper Jam Count by Location	Horizontal Transpor Motor	CTL*	[0 to 65535/0/0]
7-514-	Paper Jam Count by	Pre-Stack Transport Motor	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
164	Location			
7-514-165	Paper Jam Count by Location	Relay Motor	CTL*	[0 to 65535/0/0]
7-514-166	Paper Jam Count by Location	Paper Exit Motor	CTL*	[0 to 65535/0/0]
7-514-167	Paper Jam Count by Location	Trailing Edge Stack Plate Motor	CTL*	[0 to 65535/0/0]
7-514-168	Paper Jam Count by Location	Paper Exit Open/Close Guide Plate Motor	CTL*	[0 to 65535/0/0]
7-514-169	Paper Jam Count by Location	Punching Motor	CTL*	[0 to 65535/0/0]
7-514-170	Paper Jam Count by Location	Punch Move Motor	CTL*	[0 to 65535/0/0]
7-514-171	Paper Jam Count by Location	S-to-S Registration Detection	CTL*	[0 to 65535/0/0]
7-514-172	Paper Jam Count by Location	Lower Junction Solenoid Motor	CTL*	[0 to 65535/0/0]
7-514-173	Paper Jam Count by Location	Jogger Motor	CTL*	[0 to 65535/0/0]
7-514-174	Paper Jam Count by Location	Positioning Roller Rotation Motor	CTL*	[0 to 65535/0/0]
7-514-175	Paper Jam Count by Location	Feed Out Motor	CTL*	[0 to 65535/0/0]
7-514-176	Paper Jam Count by Location	Corner Staple Move Motor	CTL*	[0 to 65535/0/0]
7-514-177	Paper Jam Count by Location	Corner Stapler Motor	CTL*	[0 to 65535/0/0]
7-514-185	Paper Jam Count by Location	Tray Lift Motor	CTL*	[0 to 65535/0/0]
7-514-186	Paper Jam Count by Location	Shift Motor	CTL*	[0 to 65535/0/0]
7-514-187	Paper Jam Count by Location	Shift Jogger Front Motor	CTL*	[0 to 65535/0/0]
7-514-188	Paper Jam Count by Location	Shift Jogger Rear Motor	CTL*	[0 to 65535/0/0]
7-514-	Paper Jam Count by	Shift Jogger Retraction Motor	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
189	Location			
7-514-190	Paper Jam Count by Location	Drag Roller Vibrating Motor	CTL*	[0 to 65535/0/0]
7-514-191	Paper Jam Count by Location	Leading Edge Guide Motor	CTL*	[0 to 65535/0/0]
7-514-192	Paper Jam Count by Location	Positioning Transpor Motor	CTL*	[0 to 65535/0/0]
7-514-193	Paper Jam Count by Location	Paper Guide Motor	CTL*	[0 to 65535/0/0]
7-514-194	Paper Jam Count by Location	Job Data Error	CTL*	[0 to 65535/0/0]
7-514-200	Paper Jam Count by Location	Entrance: On	CTL*	[0 to 65535/0/0]
7-514-201	Paper Jam Count by Location	Entrance: Off	CTL*	[0 to 65535/0/0]
7-514-202	Paper Jam Count by Location	Proof Tray Exit: On	CTL*	[0 to 65535/0/0]
7-514-203	Paper Jam Count by Location	Proof Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-514-204	Paper Jam Count by Location	ITB Transport: Right: On	CTL*	[0 to 65535/0/0]
7-514-205	Paper Jam Count by Location	Left Relay: On	CTL*	[0 to 65535/0/0]
7-514-206	Paper Jam Count by Location	Left Relay: Off	CTL*	[0 to 65535/0/0]
7-514-207	Paper Jam Count by Location	Shift Tray Exit: On	CTL*	[0 to 65535/0/0]
7-514-208	Paper Jam Count by Location	Shift Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-514-209	Paper Jam Count by Location	Stack: On	CTL*	[0 to 65535/0/0]
7-514-210	Paper Jam Count by Location	TE Stopper: On	CTL*	[0 to 65535/0/0]
7-514-211	Paper Jam Count by Location	TE Stopper: Off	CTL*	[0 to 65535/0/0]
7-514-	Paper Jam Count by	Booklet Folder Exit: On	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
212	Location			
7-514-213	Paper Jam Count by Location	Booklet Folder Exit: Off	CTL*	[0 to 65535/0/0]
7-514-220	Paper Jam Count by Location	Entrance Motor	CTL*	[0 to 65535/0/0]
7-514-221	Paper Jam Count by Location	Proof Motor	CTL*	[0 to 65535/0/0]
7-514-222	Paper Jam Count by Location	Ppr Feed/Posit & Move Rllr Mt	CTL*	[0 to 65535/0/0]
7-514-223	Paper Jam Count by Location	Shift Motor	CTL*	[0 to 65535/0/0]
7-514-224	Paper Jam Count by Location	Jogger Motor	CTL*	[0 to 65535/0/0]
7-514-225	Paper Jam Count by Location	Exit Guide Plate Motor	CTL*	[0 to 65535/0/0]
7-514-226	Paper Jam Count by Location	Feed Out Motor	CTL*	[0 to 65535/0/0]
7-514-227	Paper Jam Count by Location	Output Tray Motor	CTL*	[0 to 65535/0/0]
7-514-228	Paper Jam Count by Location	Positioning Motor	CTL*	[0 to 65535/0/0]
7-514-229	Paper Jam Count by Location	Stapler Shift Motor(with staples)	CTL*	[0 to 65535/0/0]
7-514-230	Paper Jam Count by Location	Stapler Motor(with staples)	CTL*	[0 to 65535/0/0]
7-514-231	Paper Jam Count by Location	Punch Motor	CTL*	[0 to 65535/0/0]
7-514-232	Paper Jam Count by Location	Stack Transport Motor	CTL*	[0 to 65535/0/0]
7-514-233	Paper Jam Count by Location	LE Stopper Motor	CTL*	[0 to 65535/0/0]
7-514-234	Paper Jam Count by Location	Folder Blade Motor	CTL*	[0 to 65535/0/0]
7-514-235	Paper Jam Count by Location	Paper Guide Motor	CTL*	[0 to 65535/0/0]
7-514-	Paper Jam Count by	Stapler Shift Motor(without	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
236	Location	staples)		
7-514-237	Paper Jam Count by Location	Stapler Motor(without staples)	CTL*	[0 to 65535/0/0]
7-514-238	Paper Jam Count by Location	Movable Guide Motor	CTL*	[0 to 65535/0/0]
7-514-248	Paper Jam Count by Location	No Exit Response	CTL*	[0 to 65535/0/0]
7-514-249	Paper Jam Count by Location	Main Machine Setting Incorrect	CTL*	[0 to 65535/0/0]
7-516-005	Paper Size Jam Count	A4 LEF	CTL*	[0 to 65535/0/0]
7-516-006	Paper Size Jam Count	A5 LEF	CTL*	[0 to 65535/0/0]
7-516-014	Paper Size Jam Count	B5 LEF	CTL*	[0 to 65535/0/0]
7-516-038	Paper Size Jam Count	LT LEF	CTL*	[0 to 65535/0/0]
7-516-044	Paper Size Jam Count	HLT LEF	CTL*	[0 to 65535/0/0]
7-516-132	Paper Size Jam Count	A3 SEF	CTL*	[0 to 65535/0/0]
7-516-133	Paper Size Jam Count	A4 SEF	CTL*	[0 to 65535/0/0]
7-516-134	Paper Size Jam Count	A5 SEF	CTL*	[0 to 65535/0/0]
7-516-141	Paper Size Jam Count	B4 SEF	CTL*	[0 to 65535/0/0]
7-516-142	Paper Size Jam Count	B5 SEF	CTL*	[0 to 65535/0/0]
7-516-160	Paper Size Jam Count	DLT SEF	CTL*	[0 to 65535/0/0]
7-516-164	Paper Size Jam Count	LG SEF	CTL*	[0 to 65535/0/0]
7-516-166	Paper Size Jam Count	LT SEF	CTL*	[0 to 65535/0/0]
7-516-	Paper Size Jam Count	HLT SEF	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
172				
7-516-255	Paper Size Jam Count	Others	CTL*	[0 to 65535/0/0]
7-519-095	Paper Jam Count by Location	Registration: On	CTL*	[0 to 65535/0/0]
7-519-096	Paper Jam Count by Location	Registration: Off	CTL*	[0 to 65535/0/0]
7-519-097	Paper Jam Count by Location	1st 2-direction Paper Feed SN: On	CTL*	[0 to 65535/0/0]
7-519-098	Paper Jam Count by Location	1st 2-direction Paper Feed SN: Off	CTL*	[0 to 65535/0/0]
7-519-099	Paper Jam Count by Location	2nd 2-direction Paper Feed SN: On	CTL*	[0 to 65535/0/0]
7-519-100	Paper Jam Count by Location	2nd 2-direction Paper Feed SN: Off	CTL*	[0 to 65535/0/0]
7-519-101	Paper Jam Count by Location	Crease: On	CTL*	[0 to 65535/0/0]
7-519-102	Paper Jam Count by Location	Crease: Off	CTL*	[0 to 65535/0/0]
7-519-103	Paper Jam Count by Location	Top Tray Exit: On	CTL*	[0 to 65535/0/0]
7-519-104	Paper Jam Count by Location	Top Tray Exit: Off	CTL*	[0 to 65535/0/0]
7-519-105	Paper Jam Count by Location	Bridge Exit: On	CTL*	[0 to 65535/0/0]
7-519-106	Paper Jam Count by Location	Bridge Exit: Off	CTL*	[0 to 65535/0/0]
7-519-115	Paper Jam Count by Location	Registration Motor	CTL*	[0 to 65535/0/0]
7-519-116	Paper Jam Count by Location	Folding Junction Motor	CTL*	[0 to 65535/0/0]
7-519-117	Paper Jam Count by Location	Transport Motor	CTL*	[0 to 65535/0/0]
7-519-118	Paper Jam Count by Location	Folding Motor	CTL*	[0 to 65535/0/0]
7-519-	Paper Jam Count by	2nd 2-direction Paper Feed Motor	CTL*	[0 to 65535/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
119	Location			
7-519-120	Paper Jam Count by Location	Crease Motor	CTL*	[0 to 65535/0/0]
7-519-143	Paper Jam Count by Location	No Exit Response	CTL*	[0 to 65535/0/0]
7-519-144	Paper Jam Count by Location	Main Machine Setting Incorrect	CTL*	[0 to 65535/0/0]
7-519-145	Paper Jam Count by Location	Entrance: On	CTL*	[0 to 65535/0/0]
7-519-146	Paper Jam Count by Location	Entrance: Off	CTL*	[0 to 65535/0/0]
7-519-147	Paper Jam Count by Location	Transport SN 1: On	CTL*	[0 to 65535/0/0]
7-519-148	Paper Jam Count by Location	Transport SN 1: Off	CTL*	[0 to 65535/0/0]
7-519-149	Paper Jam Count by Location	Transport SN 2: On	CTL*	[0 to 65535/0/0]
7-519-150	Paper Jam Count by Location	Transport SN 2: Off	CTL*	[0 to 65535/0/0]
7-519-153	Paper Jam Count by Location	No Exit Response	CTL*	[0 to 65535/0/0]
7-519-154	Paper Jam Count by Location	Main Machine Setting Incorrect	CTL*	[0 to 65535/0/0]
7-520-001	Update Log	ErrorRecord1	CTL*	[0 to 255/0/1]
7-520-002	Update Log	ErrorRecord2	CTL*	[0 to 255/0/1]
7-520-003	Update Log	ErrorRecord3	CTL*	[0 to 255/0/1]
7-520-004	Update Log	ErrorRecord4	CTL*	[0 to 255/0/1]
7-520-005	Update Log	ErrorRecord5	CTL*	[0 to 255/0/1]
7-520-006	Update Log	ErrorRecord6	CTL*	[0 to 255/0/1]
7-520-	Update Log	ErrorRecord7	CTL*	[0 to 255/0/1]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
007				
7-520-008	Update Log	ErrorRecord8	CTL*	[0 to 255/0/1]
7-520-009	Update Log	ErrorRecord9	CTL*	[0 to 255/0/1]
7-520-010	Update Log	ErrorRecord10	CTL*	[0 to 255/0/1]
7-520-011	Update Log	Auto:StartDate1	CTL*	[0 to 0/0/0]
7-520-012	Update Log	Auto:StartDate2	CTL*	[0 to 0/0/0]
7-520-013	Update Log	Auto:StartDate3	CTL*	[0 to 0/0/0]
7-520-014	Update Log	Auto:StartDate4	CTL*	[0 to 0/0/0]
7-520-015	Update Log	Auto:StartDate5	CTL*	[0 to 0/0/0]
7-520-021	Update Log	Auto:EndDate1	CTL*	[0 to 0/0/0]
7-520-022	Update Log	Auto:EndDate2	CTL*	[0 to 0/0/0]
7-520-023	Update Log	Auto:EndDate3	CTL*	[0 to 0/0/0]
7-520-024	Update Log	Auto:EndDate4	CTL*	[0 to 0/0/0]
7-520-025	Update Log	Auto:EndDate5	CTL*	[0 to 0/0/0]
7-520-031	Update Log	Auto:Piecemark1	CTL*	[0 to 0/0/0]
7-520-032	Update Log	Auto:Piecemark2	CTL*	[0 to 0/0/0]
7-520-033	Update Log	Auto:Piecemark3	CTL*	[0 to 0/0/0]
7-520-034	Update Log	Auto:Piecemark4	CTL*	[0 to 0/0/0]
7-520-	Update Log	Auto:Piecemark5	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
035				
7-520-041	Update Log	Auto:Version1	CTL*	[0 to 0/0/0]
7-520-042	Update Log	Auto:Version2	CTL*	[0 to 0/0/0]
7-520-043	Update Log	Auto:Version3	CTL*	[0 to 0/0/0]
7-520-044	Update Log	Auto:Version4	CTL*	[0 to 0/0/0]
7-520-045	Update Log	Auto:Version5	CTL*	[0 to 0/0/0]
7-520-051	Update Log	Auto:Result1	CTL*	[0 to 255/0/1]
7-520-052	Update Log	Auto:Result2	CTL*	[0 to 255/0/1]
7-520-053	Update Log	Auto:Result3	CTL*	[0 to 255/0/1]
7-520-054	Update Log	Auto:Result4	CTL*	[0 to 255/0/1]
7-520-055	Update Log	Auto:Result5	CTL*	[0 to 255/0/1]
7-520-056	Update Log	Auto:Result6	CTL*	[0 to 255/0/1]
7-520-057	Update Log	Auto:Result7	CTL*	[0 to 255/0/1]
7-520-058	Update Log	Auto:Result8	CTL*	[0 to 255/0/1]
7-520-059	Update Log	Auto:Result9	CTL*	[0 to 255/0/1]
7-520-060	Update Log	Auto:Result10	CTL*	[0 to 255/0/1]
7-617-001	PM Parts Counter Display	Normal	CTL*	[0 to 9999999/0/0]
7-617-002	PM Parts Counter Display	Df	CTL*	[0 to 9999999/0/0]
7-618-	PM Parts Counter Reset	Normal	CTL*	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
7-618-002	PM Parts Counter Reset	Df	CTL*	[0 to 0/0/0]
7-801-255	ROM No./ Firmware Version		CTL*	[0 to 0/0/0]
7-803-001	PM Counter Display	Paper	CTL*	[0 to 9999999/0/0]
7-804-001	PM Counter Reset	Paper	CTL*	[0 to 0/0/0]
7-807-001	SC/Jam Counter Reset		CTL*	[0 to 0/0/0]
7-832-001	Self-Diagnose Result Display		CTL*	[0 to 0/0/0]
7-836-001	Total Memory Size		CTL*	[0 to 0xffffffff/0/0MB]
7-840-001	ServiceSP Entry Code Chg Hist	Change Time :Latest	CTL*	[0 to 0/0/0]
7-840-002	ServiceSP Entry Code Chg Hist	Change Time :Last1	CTL*	[0 to 0/0/0]
7-840-101	ServiceSP Entry Code Chg Hist	Initialize Time :Latest	CTL*	[0 to 0/0/0]
7-840-102	ServiceSP Entry Code Chg Hist	Initialize Time :Last1	CTL*	[0 to 0/0/0]
7-855-001	Coverage Range	Coverage Range 1	CTL*	[1 to 200/5/1%]
7-855-002	Coverage Range	Coverage Range 2	CTL*	[1 to 200/20/1%]
7-901-001	Assert Info.	File Name	CTL*	[0 to 0/0/0]
7-901-002	Assert Info.	Number of Lines	CTL*	[0 to 0/0/0]
7-901-003	Assert Info.	Location	CTL*	[0 to 0/0/0]
7-910-001	ROM No	System	CTL	[0 to 0/0/0]
7-910-	ROM No	Engine	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
7-910-003	ROM No	Lcdc	CTL	[0 to 0/0/0]
7-910-007	ROM No	Finisher1	CTL	[0 to 0/0/0]
7-910-009	ROM No	Bank	CTL	[0 to 0/0/0]
7-910-010	ROM No	LCT	CTL	[0 to 0/0/0]
7-910-011	ROM No	Mail Box	CTL	[0 to 0/0/0]
7-910-018	ROM No	NetworkSupport	CTL	[0 to 0/0/0]
7-910-019	ROM No	Bank2	CTL	[0 to 0/0/0]
7-910-022	ROM No	BIOS	CTL	[0 to 0/0/0]
7-910-023	ROM No	HDD Format Option	CTL	[0 to 0/0/0]
7-910-025	ROM No	Folding Unit	CTL	[0 to 0/0/0]
7-910-150	ROM No	RPCS	CTL	[0 to 0/0/0]
7-910-151	ROM No	PS	CTL	[0 to 0/0/0]
7-910-152	ROM No	RPDL	CTL	[0 to 0/0/0]
7-910-153	ROM No	R98	CTL	[0 to 0/0/0]
7-910-154	ROM No	R16	CTL	[0 to 0/0/0]
7-910-155	ROM No	RPGL	CTL	[0 to 0/0/0]
7-910-156	ROM No	R55	CTL	[0 to 0/0/0]
7-910-	ROM No	RTIFF	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
157				
7-910-158	ROM No	PCL	CTL	[0 to 0/0/0]
7-910-159	ROM No	PCLXL	CTL	[0 to 0/0/0]
7-910-160	ROM No	MSIS	CTL	[0 to 0/0/0]
7-910-162	ROM No	PDF	CTL	[0 to 0/0/0]
7-910-164	ROM No	PictBridge	CTL	[0 to 0/0/0]
7-910-165	ROM No	PJL	CTL	[0 to 0/0/0]
7-910-166	ROM No	IPDS	CTL	[0 to 0/0/0]
7-910-167	ROM No	MediaPrint:JPEG	CTL	[0 to 0/0/0]
7-910-168	ROM No	MediaPrint:TIFF	CTL	[0 to 0/0/0]
7-910-169	ROM No	XPS	CTL	[0 to 0/0/0]
7-910-180	ROM No	FONT	CTL	[0 to 0/0/0]
7-910-181	ROM No	FONT1	CTL	[0 to 0/0/0]
7-910-182	ROM No	FONT2	CTL	[0 to 0/0/0]
7-910-183	ROM No	FONT3	CTL	[0 to 0/0/0]
7-910-184	ROM No	FONT4	CTL	[0 to 0/0/0]
7-910-185	ROM No	FONT5	CTL	[0 to 0/0/0]
7-910-186	ROM No	FONT6	CTL	[0 to 0/0/0]
7-910-	ROM No	FONT7	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
187				
7-910-200	ROM No	Factory	CTL	[0 to 0/0/0]
7-910-202	ROM No	NetworkDocBox	CTL	[0 to 0/0/0]
7-910-204	ROM No	Printer	CTL	[0 to 0/0/0]
7-910-210	ROM No	MIB	CTL	[0 to 0/0/0]
7-910-211	ROM No	Websupport	CTL	[0 to 0/0/0]
7-910-213	ROM No	SDK1	CTL	[0 to 0/0/0]
7-910-214	ROM No	SDK2	CTL	[0 to 0/0/0]
7-910-215	ROM No	SDK3	CTL	[0 to 0/0/0]
7-910-250	ROM No	Package	CTL	[0 to 0/0/0]
7-911-001	Firmware Version	System	CTL	[0 to 0/0/0]
7-911-002	Firmware Version	Engine	CTL	[0 to 0/0/0]
7-911-003	Firmware Version	Lcdc	CTL	[0 to 0/0/0]
7-911-007	Firmware Version	Finisher1	CTL	[0 to 0/0/0]
7-911-009	Firmware Version	Bank	CTL	[0 to 0/0/0]
7-911-010	Firmware Version	LCT	CTL	[0 to 0/0/0]
7-911-011	Firmware Version	Mail Box	CTL	[0 to 0/0/0]
7-911-018	Firmware Version	NetworkSupport	CTL	[0 to 0/0/0]
7-911-	Firmware Version	Bank2	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
019				
7-911-022	Firmware Version	BIOS	CTL	[0 to 0/0/0]
7-911-023	Firmware Version	HDD Format Option	CTL	[0 to 0/0/0]
7-911-025	Firmware Version	Folding Unit	CTL	[0 to 0/0/0]
7-911-150	Firmware Version	RPCS	CTL	[0 to 0/0/0]
7-911-151	Firmware Version	PS	CTL	[0 to 0/0/0]
7-911-152	Firmware Version	RPDL	CTL	[0 to 0/0/0]
7-911-153	Firmware Version	R98	CTL	[0 to 0/0/0]
7-911-154	Firmware Version	R16	CTL	[0 to 0/0/0]
7-911-155	Firmware Version	RPGL	CTL	[0 to 0/0/0]
7-911-156	Firmware Version	R55	CTL	[0 to 0/0/0]
7-911-157	Firmware Version	RTIFF	CTL	[0 to 0/0/0]
7-911-158	Firmware Version	PCL	CTL	[0 to 0/0/0]
7-911-159	Firmware Version	PCLXL	CTL	[0 to 0/0/0]
7-911-160	Firmware Version	MSIS	CTL	[0 to 0/0/0]
7-911-162	Firmware Version	PDF	CTL	[0 to 0/0/0]
7-911-164	Firmware Version	PictBridge	CTL	[0 to 0/0/0]
7-911-165	Firmware Version	PJL	CTL	[0 to 0/0/0]
7-911-	Firmware Version	IPDS	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
166				
7-911-167	Firmware Version	MediaPrint:JPEG	CTL	[0 to 0/0/0]
7-911-168	Firmware Version	MediaPrint:TIFF	CTL	[0 to 0/0/0]
7-911-169	Firmware Version	XPS	CTL	[0 to 0/0/0]
7-911-180	Firmware Version	FONT	CTL	[0 to 0/0/0]
7-911-181	Firmware Version	FONT1	CTL	[0 to 0/0/0]
7-911-182	Firmware Version	FONT2	CTL	[0 to 0/0/0]
7-911-183	Firmware Version	FONT3	CTL	[0 to 0/0/0]
7-911-184	Firmware Version	FONT4	CTL	[0 to 0/0/0]
7-911-185	Firmware Version	FONT5	CTL	[0 to 0/0/0]
7-911-186	Firmware Version	FONT6	CTL	[0 to 0/0/0]
7-911-187	Firmware Version	FONT7	CTL	[0 to 0/0/0]
7-911-200	Firmware Version	Factory	CTL	[0 to 0/0/0]
7-911-202	Firmware Version	NetworkDocBox	CTL	[0 to 0/0/0]
7-911-204	Firmware Version	Printer	CTL	[0 to 0/0/0]
7-911-210	Firmware Version	MIB	CTL	[0 to 0/0/0]
7-911-211	Firmware Version	Websupport	CTL	[0 to 0/0/0]
7-911-213	Firmware Version	SDK1	CTL	[0 to 0/0/0]
7-911-	Firmware Version	SDK2	CTL	[0 to 0/0/0]

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
214				
7-911-215	Firmware Version	SDK3	CTL	[0 to 0/0/0]
7-911-250	Firmware Version	Package	CTL	[0 to 0/0/0]

Controller SP8-XXX (Data Log2)

Overview

Most of the SPs in this group are prefixed with a letter that indicates the mode of operation (the mode of operation is referred to as an "application"). Before reading the Group 8 Service Table, make sure that you understand what these prefixes mean.

Prefixes	What it means	
T:	Total: (Grand Total).	Grand total of the items counted for all applications (C, F, P, etc.).
P:	Print application.	
O:	Other applications (external network applications, for example)	Refers to network applications such as Web Image Monitor. Utilities developed with the SDK (Software Development Kit) will also be counted with this group in the future.

Keys and Abbreviations

Abbreviation	What it means
/	"By", e.g. "T:Jobs/Apl" = Total Jobs "by" Application
>	More (2> "2 or more", 4> "4 or more"
AddBook	Address Book
Apl	Application
B/W	Black & White
Bk	Black
C	Cyan
ColCr	Color Create
ColMode	Color Mode
Comb	Combine
Comp	Compression
Deliv	Delivery
DesApl	Designated Application. The application (Copy, Fax, Scan, Print) used to store the job on the document server, for example.
Dev Counter	Development Count, no. of pages developed.
Dup, Duplex	Duplex, printing on both sides
Emul	Emulation
FC	Full Color
FIN	Post-print processing, i.e. finishing (punching, stapling, etc.)
Full Bleed	No Margins
GenCopy	Generation Copy Mode
GPC	Get Print Counter. For jobs 10 pages or less, this counter does not count up. For jobs larger

Abbreviation	What it means
	than 10 pages, this counter counts up by the number that is in excess of 10 (e.g., for an 11-page job, the counter counts up 11-10 =1)
IFax	Internet Fax
ImgEdt	Image Edit performed on the original with the copier GUI, e.g. border removal, adding stamps, page numbers, etc.
K	Black (YMCK)
LS	Local Storage. Refers to the document server.
LSize	Large (paper) Size
Mag	Magnification
MC	One color (monochrome)
NRS	New Remote Service, which allows a service center to monitor machines remotely. "NRS" is used overseas, "CSS" is used in Japan.
Org	Original for scanning
OrgJam	Original Jam
Palm 2	Print Job Manager/Desk Top Editor: A pair of utilities that allows print jobs to be distributed evenly among the printers on the network, and allows files to moved around, combined, and converted to different formats.
PC	Personal Computer
PGS	Pages. A page is the total scanned surface of the original. Duplex pages count as two pages, and A3 simplex count as two pages if the A3/DLT counter SP is switched ON.
PJob	Print Jobs
Ppr	Paper
PrtJam	Printer (plotter) Jam
PrtPGS	Print Pages
R	Red (Toner Remaining). Applies to the wide format model A2 only. This machine is under development and currently not available.
Rez	Resolution
SC	Service Code (Error SC code displayed)
Scn	Scan
Sim, Simplex	Simplex, printing on 1 side.
SMC	SMC report printed with SP5990. All of the Group 8 counters are recorded in the SMC report.
Svr	Server
TonEnd	Toner End
TonSave	Toner Save
TXJob	Send, Transmission
YMC	Yellow, Magenta, Cyan
YMCK	Yellow, Magenta, Cyan, Black

SP8-001 to SP8-999

Note

- All of the Group 8 SPs are able to reset by “SP5 801 1 Memory All Clear”.

8001	**[T:Total Jobs]**	*CTL	These SPs count the number of times each application is used to do a job. [0 to 99999999 / **-** / 1]
8004	**[P:Total Jobs]**	*CTL	

- These SPs reveal the number of times an application is used, not the number of pages processed.
- When an application is opened for image input or output, this counts as one job.
- Interrupted jobs (paper jams, etc.) are counted, even though they do not finish.
- Only jobs executed by the customer are counted. Jobs executed by the customer engineer using the SP modes are not counted.
- When using secure printing (when a password is required to start the print job), the job is counted at the time when either "Delete Data" or "Specify Output" is specified.
- When an image received from Palm 2 is received and stored, the L: counter increments.
- When the customer prints a report (user code list, for example), the O: counter increments.

8061	**[T:FIN Jobs]**		
	These SPs total the finishing methods. The finishing method is specified by the application.		
8064	**[P:FIN Jobs]**		
	These SPs total finishing methods for print jobs only. The finishing method is specified by the application.		
8067	**[O:FIN Jobs]**		
	These SPs total finishing methods for jobs executed by an external application, over the network. The finishing method is specified by the application.		
001	Sort	*CTL	[0 to 9999999 / **0** / 1/step]
	Number of jobs started in Sort mode.		
002	Stack	*CTL	[0 to 9999999 / **0** / 1/step]
	Number of jobs started out of Sort mode.		
003	Staple	*CTL	[0 to 9999999 / **0** / 1/step]
	Number of jobs started in Staple mode.		
004	Booklet	*CTL	[0 to 9999999 / **0** / 1/step]
	Number of jobs started in Booklet mode. If the machine is in staple mode, the Staple counter also increments.		
005	Z-Fold	*CTL	[0 to 9999999 / **0** / 1/step]

	Number of jobs started In any mode other than the Booklet mode and set for folding (Z-fold).		
006	Punch	*CTL	[0 to 9999999 / **0** / 1/step]
	Number of jobs started in Punch mode. When Punch is set for a print job, the P: counter increments. (See SP8-064-6.)		
007	Other	*CTL	[0 to 9999999 / **0** / 1/step]
	(Reserved)		
008	Inside-Flod	*CTL	[0 to 9999999 / **0** / 1/step]
009	Three-In-Fold	*CTL	[0 to 9999999 / **0** / 1/step]
010	Three-OUT-Fold	*CTL	[0 to 9999999 / **0** / 1/step]
011	Four-Fold	*CTL	[0 to 9999999 / **0** / 1/step]
012	KANNON-Fold	*CTL	[0 to 9999999 / **0** / 1/step]
013	Perfect-Bind	*CTL	[0 to 9999999 / **0** / 1/step]
014	Ring-Bind	*CTL	[0 to 9999999 / **0** / 1/step]
015	3rd Vendor	*CTL	[0 to 9999999 / **0** / 1/step]

8071	**[T:Jobs/PGS]**		
	These SPs count the number of jobs broken down by the number of pages in the job, regardless of which application was used.		
8074	**[P:Jobs/PGS]**		
	These SPs count and calculate the number of print jobs by size based on the number of pages in the job.		
8077	**[O:Jobs/PGS]**		
	These SPs count and calculate the number of "Other" application jobs (Web Image Monitor, Palm 2, etc.) by size based on the number of pages in the job.		
001	1 Page	*CTL	[0 to 99999999 / **0** / 1/step]
002	2 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
003	3 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
004	4 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
005	5 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
006	6 to 10 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
007	11 to 20 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
008	21 to 50 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
009	51 to 100 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
010	101 to 300 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
011	301 to 500 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
012	501 to 700 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
013	701 to 1000 Pages	*CTL	[0 to 99999999 / **0** / 1/step]
014	1001 to Pages	*CTL	[0 to 99999999 / **0** / 1/step]

- Interrupted jobs (paper jam, etc.) are counted, even though they do not finish.

- If a job is paused and re-started, it counts as one job.
- If the finisher runs out of staples during a print and staple job, then the job is counted at the time the error occurs.

8381	**[T:Total PrtPGS]**	*CTL	These SPs count the number of pages printed by the customer. The counter for the application used for storing the pages increments. [0 to 99999999 / **0** / 1/step]
8384	**[P:Total PrtPGS]**	*CTL	
8387	**[O:Total PrtPGS]**	*CTL	

- When the A3/DLT double count function is switched on with SP5104, 1 A3/DLT page is counted as 2.
- When several documents are merged for a print job, the number of pages stored are counted for the application that stored them.
- These counters are used primarily to calculate charges on use of the machine, so the following pages are not counted as printed pages:
  - Blank pages in a duplex printing job.
  - Blank pages inserted as document covers, chapter title sheets, and slip sheets.
  - Reports printed to confirm counts.
  - All reports done in the service mode (service summaries, engine maintenance reports, etc.)
  - Test prints for machine image adjustment.
  - Error notification reports.
  - Partially printed pages as the result of a copier jam.

8391	LSize PrtPGS	*CTL	[0 to 99999999 / **0** / 1/step]
	These SPs count pages printed on paper sizes A3/DLT and larger. **Note:** In addition to being displayed in the SMC Report, these counters are also displayed in the User Tools display on the machine.		

8411	Prints/Duplex	*CTL	This SP counts the amount of paper (front/back counted as 1 page) used for duplex printing. Last pages printed only on one side are not counted. [0 to 99999999 / **0** / 1]

8421	**[T:PrtPGS/Dup Comb]**
	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing. This is the total for all applications.
8424	**[P:PrtPGS/Dup Comb]**
	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the printer application.
8427	**[O:PrtPGS/Dup Comb]**
	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing

	by Other applications		
001	Simplex> Duplex	*CTL	[0 to 99999999 / **0** / 1/step]
002	Duplex> Duplex	*CTL	[0 to 99999999 / **0** / 1/step]
003	Book> Duplex	*CTL	[0 to 99999999 / **0** / 1/step]
004	Simplex Combine	*CTL	[0 to 99999999 / **0** / 1/step]
005	Duplex Combine	*CTL	[0 to 99999999 / **0** / 1/step]
006	2in1	*CTL	[0 to 99999999 / **0** / 1/step]
	2 pages on 1 side (2-Up)		
007	4 in1	*CTL	[0 to 99999999 / **0** / 1/step]
	4 pages on 1 side (4-Up)		
008	6 in1	*CTL	[0 to 99999999 / **0** / 1/step]
	6 pages on 1 side (6-Up)		
009	8 in1	*CTL	[0 to 99999999 / **0** / 1/step]
	8 pages on 1 side (8-Up)		
010	9 in1	*CTL	[0 to 99999999 / **0** / 1/step]
	9 pages on 1 side (9-Up)		
011	16 in1	*CTL	[0 to 99999999 / **0** / 1/step]
	16 pages on 1 side (16-Up)		
012	Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
013	Magazine	*CTL	[0 to 99999999 / **0** / 1/step]
014	2-in-1 + Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
015	4-in-1 + Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
016	6-in-1 + Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
017	8-in-1 + Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
018	9-in-1 + Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
019	2-in-1 + Magazine	*CTL	[0 to 99999999 / **0** / 1/step]
020	4-in-1 + Magazine	*CTL	[0 to 99999999 / **0** / 1/step]
021	6-in-1 + Magazine	*CTL	[0 to 99999999 / **0** / 1/step]
022	8-in-1 + Magazine	*CTL	[0 to 99999999 / **0** / 1/step]
023	9-in-1 + Magazine	*CTL	[0 to 99999999 / **0** / 1/step]
024	16-in-1 + Magazine	*CTL	[0 to 99999999 / **0** / 1/step]

- These counts (SP8 421 to SP8 427) are especially useful for customers who need to improve their compliance with ISO standards for the reduction of paper consumption.
- Pages that are only partially printed with the n-Up functions are counted as 1 page.
- Here is a summary of how the counters work for Booklet and Magazine modes:

Booklet		Magazine	
Original Pages	Count	Original Pages	Count
1	1	1	1

Booklet		Magazine	
Original Pages	Count	Original Pages	Count
2	2	2	2
3	2	3	2
4	2	4	2
5	3	5	4
6	4	6	4
7	4	7	4
8	4	8	4

8431	**[T:PrtPGS/ImgEdt]**		
	These SPs count the total number of pages output with the three features below, regardless of which application was used.		
8434	**[P:PrtPGS/ImgEdt]**		
	These SPs count the total number of pages output with the three features below with the print application.		
8437	**[O:PrtPGS/ImgEdt]**		
	These SPs count the total number of pages output with the three features below with Other applications.		
001	Cover/Slip Sheet	*CTL	[0 to 99999999 / **0** / 1/step]
	Total number of covers or slip sheets inserted. The count for a cover printed on both sides counts 2.		
002	Series/Book	*CTL	[0 to 99999999 / **0** / 1/step]
	The number of pages printed in series (one side) or printed as a book with booklet right/left pagination.		
003	User Stamp	*CTL	[0 to 99999999 / **0** / 1/step]
	The number of pages printed where stamps were applied, including page numbering and date stamping.		

8441	**[T:PrtPGS/Ppr Size]**		
	These SPs count by print paper size the number of pages printed by all applications.		
8444	**[P:PrtPGS/Ppr Size]**		
	These SPs count by print paper size the number of pages printed by the printer application.		
8447	**[O:PrtPGS/Ppr Size]**		
	These SPs count by print paper size the number of pages printed by Other applications.		
001	A3	*CTL	[0 to 99999999 / **0** / 1/step]
002	A4	*CTL	[0 to 99999999 / **0** / 1/step]
003	A5	*CTL	[0 to 99999999 / **0** / 1/step]
004	B4	*CTL	[0 to 99999999 / **0** / 1/step]
005	B5	*CTL	[0 to 99999999 / **0** / 1/step]
006	DLT	*CTL	[0 to 99999999 / **0** / 1/step]
007	LG	*CTL	[0 to 99999999 / **0** / 1/step]

008	LT	*CTL	[0 to 99999999 / **0** / 1/step]
009	HLT	*CTL	[0 to 99999999 / **0** / 1/step]
010	Full Bleed	*CTL	[0 to 99999999 / **0** / 1/step]
254	Other (Standard)	*CTL	[0 to 99999999 / **0** / 1/step]
255	Other (Custom)	*CTL	[0 to 99999999 / **0** / 1/step]

- These counters do not distinguish between LEF and SEF.

8451	**[PrtPGS/Ppr Tray]**		
	These SPs count the number of sheets fed from each paper feed station.		
001	Bypass Tray	*CTL	[0 to 99999999 / **0** / 1/step] Bypass Tray
002	Tray 1	*CTL	[0 to 99999999 / **0** / 1/step] • Main unit tray 1
003	Tray 2	*CTL	[0 to 99999999 / **0** / 1/step] • Main unit tray 2
004	Tray 3	*CTL	[0 to 99999999 / **0** / 1/step] • Paper Feed Unit PB3250 • Upper Tray of Paper Feed Unit PB3240 • LCIT PB3260
005	Tray 4	*CTL	[0 to 99999999 / **0** / 1/step] • Lower Tray of Paper Feed Unit PB3240 • Upper Tray of Paper Feed Unit PB3240 (when setting up a five-tier stack of paper trays)
006	Tray 5	*CTL	[0 to 99999999 / **0** / 1/step] • LCIT RT3030
007	Tray 6	*CTL	[0 to 99999999 / **0** / 1/step] • Lower Tray of Paper Feed Unit PB3240 (when setting up a five-tier stack of paper trays)
008	Tray 7	*CTL	Currently not used.
009	Tray 8	*CTL	Currently not used.
010	Tray 9	*CTL	Currently not used.
011	Tray 10	*CTL	Currently not used.
012	Tray 11	*CTL	Currently not used.
013	Tray 12	*CTL	Currently not used.
014	Tray 13	*CTL	Currently not used.
015	Tray 14	*CTL	Currently not used.
016	Tray 15	*CTL	Currently not used.

8461	**[T:PrtPGS/Ppr Type]**

	These SPs count by paper type the number pages printed by all applications. • These counters are not the same as the PM counter. The PM counter is based on feed timing to accurately measure the service life of the feed rollers. However, these counts are based on output timing. • Blank sheets (covers, chapter covers, slip sheets) are also counted. • During duplex printing, pages printed on both sides count as 1, and a page printed on one side counts as 1.		
8464	**[P:PrtPGS/Ppr Type]**		
	These SPs count by paper type the number pages printed by the printer application.		
001	Normal	*CTL	[0 to 99999999 / **0** / 1/step]
002	Recycled	*CTL	[0 to 99999999 / **0** / 1/step]
003	Special	*CTL	[0 to 99999999 / **0** / 1/step]
004	Thick	*CTL	[0 to 99999999 / **0** / 1/step]
005	Normal (Back)	*CTL	[0 to 99999999 / **0** / 1/step]
006	Thick (Back)	*CTL	[0 to 99999999 / **0** / 1/step]
007	OHP	*CTL	[0 to 99999999 / **0** / 1/step]
008	Other	*CTL	[0 to 99999999 / **0** / 1/step]

8471	**[PrtPGS/Mag]**		
	These SPs count by magnification rate the number of pages printed.		
001	< 49%	*CTL	[0 to 99999999 / **0** / 1/step]
002	50% to 99%	*CTL	
003	100%	*CTL	
004	101% to 200%	*CTL	
005	201% <	*CTL	

Counts are done for magnification adjusted for pages, not only on the operation panel but performed remotely with an external network application capable of performing magnification adjustment as well.
Magnification adjustments done with printer drivers with PC applications such as Excel are also counted.
The magnification rates of blank cover sheets, slip sheets, etc. are automatically assigned a rate of 100%.

8481	**[T:PrtPGS/TonSave]**	*CTL	[0 to 99999999 / **0** / 1/step]
8484	**[P:PrtPGS/TonSave]**	*CTL	
	These SPs count the number of pages printed with the Toner Save feature switched on. **Note:** These SPs return the same results as this SP is limited to the Print application.		

8501	**[T:PrtPGS/Col Mode]**		
8504	**[P:PrtPGS/Col Mode]**		
8507	**[O:PrtPGS/Col Mode]**		
001	B/W	*CTL	These SPs count the number of pages printed in the Color Mode by the

002	Mono Color	*CTL	print application.
003	Full Color	*CTL	
004	Single Color	*CTL	
005	Two Color	*CTL	
051	B/W(Banner)	*CTL	
052	Full Color(Banner)	*CTL	
053	Single Color(Banner)	*CTL	
054	Two Color(Banner)	*CTL	

8511	**[T:PrtPGS/Emul]**		
	These SPs count by printer emulation mode the total number of pages printed.		
8514	**[P:PrtPGS/Emul]**		
	These SPs count by printer emulation mode the total number of pages printed.		
001	RPCS	*CTL	[0 to 99999999 / **0** / 1/step]
002	RPDL	*CTL	[0 to 99999999 / **0** / 1/step]
003	PS3	*CTL	[0 to 99999999 / **0** / 1/step]
004	R98	*CTL	[0 to 99999999 / **0** / 1/step]
005	R16	*CTL	[0 to 99999999 / **0** / 1/step]
006	GL/GL2	*CTL	[0 to 99999999 / **0** / 1/step]
007	R55	*CTL	[0 to 99999999 / **0** / 1/step]
008	RTIFF	*CTL	[0 to 99999999 / **0** / 1/step]
009	PDF	*CTL	[0 to 99999999 / **0** / 1/step]
010	PCL5e/5c	*CTL	[0 to 99999999 / **0** / 1/step]
011	PCL XL	*CTL	[0 to 99999999 / **0** / 1/step]
012	IPDL-C	*CTL	[0 to 99999999 / **0** / 1/step]
013	BM-Links	*CTL	Japan Only
014	Other	*CTL	[0 to 99999999 / **0** / 1/step]
015	IPDS	*CTL	[0 to 99999999 / **0** / 1/step]
016	XPS	*CTL	[0 to 99999999 / **0** / 1/step]

- SP8 511 and SP8 514 return the same results as they are both limited to the Print application.

8521	**[T:PrtPGS/FIN]**		
	These SPs count by finishing mode the total number of pages printed by all applications.		
8524	**[P:PrtPGS/FIN]**		
	These SPs count by finishing mode the total number of pages printed by the Print application.		
001	Sort	*CTL	[0 to 99999999 / **0** / 1/step]
002	Stack	*CTL	[0 to 99999999 / **0** / 1/step]
003	Staple	*CTL	[0 to 99999999 / **0** / 1/step]

004	Booklet	*CTL	[0 to 99999999 / **0** / 1/step]
005	Z-Fold	*CTL	[0 to 99999999 / **0** / 1/step]
006	Punch	*CTL	[0 to 99999999 / **0** / 1/step]
007	Other	*CTL	[0 to 99999999 / **0** / 1/step]
008	Inside Fold	*CTL	[0 to 99999999 / **0** / 1/step]
	Half-Fold (FM2) (Multi Fold Unit)		
009	Three-IN-Fold	*CTL	[0 to 99999999 / **0** / 1/step]
	Letter Fold-in (FM4) (Multi Fold Unit)		
010	Three-OUT-Fold	*CTL	[0 to 99999999 / **0** / 1/step]
	Letter Fold-out (FM3) (Multi Fold Unit)		
011	Four Fold	*CTL	[0 to 99999999 / **0** / 1/step]
	Double Parallel Fold (FM5) (Multi Fold Unit)		
012	KANNON-Fold	*CTL	[0 to 99999999 / **0** / 1/step]
	Gate Fold (FM6) (Multi Fold Unit)		
013	Perfect-Bind	*CTL	[0 to 99999999 / **0** / 1/step]
	Perfect Binder		
014	Ring-Bind	*CTL	[0 to 99999999 / **0** / 1/step]
	Ring Binder		
015	3rd Vendor	*CTL	[0 to 99999999 / **0** / 1/step]

Note

- If stapling is selected for finishing and the stack is too large for stapling, the unstapled pages are still counted.
- The counts for staple finishing are based on output to the staple tray, so jam recoveries are counted.

8531	**[Staples]**	*CTL	This SP counts the amount of staples used by the machine. [0 to 9999999 / **0** / 1/step]

8551	**[T:FIN Books]**		
001	Perfect-Bind	*CTL	Booklet finishing
002	Ring-Bind	*CTL	Not used

8554	**[P:FIN Books]**		
001	Perfect-Bind	*CTL	Booklet finishing
002	Ring-Bind	*CTL	Not used

8561	**[T:A Sheet Of Paper]**		
001	Total: Over A3/DLT	*CTL	[0 to 99999999 / **0** / 1]
002	Total: Under A3/DLT	*CTL	
003	Duplex: Over A3/DLT	*CTL	

004	Duplex: Under A3/DLT	*CTL	

8564	**[P:A Sheet Of Paper]**		
001	Total: Over A3/DLT	*CTL	[0 to 99999999 / **0** / 1]
002	Total: Under A3/DLT	*CTL	
003	Duplex: Over A3/DLT	*CTL	
004	Duplex: Under A3/DLT	*CTL	

8567	**[O:A Sheet Of Paper]**		
001	Total: Over A3/DLT	*CTL	[0 to 99999999 / **0** / 1]
002	Total: Under A3/DLT	*CTL	
003	Duplex: Over A3/DLT	*CTL	
004	Duplex: Under A3/DLT	*CTL	

8581	**[T:Counter]**		
	These SPs count the total output broken down by color output, regardless of the application used. In addition to being displayed in the SMC Report, these counters are also displayed in the User Tools display on the machine.		
001	Total	*CTL	[0 to 99999999 / **0** / 1]
002	Total: Full Color	*CTL	
003	B&W/Single Color	*CTL	
004	Development: CMY	*CTL	
005	Development: K	*CTL	
008	Print: Color	*CTL	
009	Print: B/W	*CTL	
010	Total: Color	*CTL	
011	Total: B/W	*CTL	[0 to 99999999 / **0** / 1]
012	Full Color: A3	*CTL	
013	Full Color: -B4	*CTL	
014	Full Color Print	*CTL	
015	Mono Color Print	*CTL	
017	Twin Color Mode Print	*CTL	
018	Full Color Print (Twin)	*CTL	
019	Mono Color Print (Twin)	*CTL	
020	Full Color Total (CV)	*CTL	
021	Mono Color Total (CV)	*CTL	[0 to 99999999 / **0** / 1]
022	Full Color Print (CV)	*CTL	
023	Eco Color Print (FC)	*CTL	

024	Eco Color Print (Bk)	*CTL	
025	Total: Color (Eco Bk)	*CTL	
026	Total: B/W (Eco Bk)	*CTL	
027	Total: Color (Eco FC)	*CTL	[0 to 99999999 / **0** / 1]
028	Development: CMY (A3)	*CTL	
029	Development: K (A3)	*CTL	
030	Total: Color (A3)	*CTL	
031	Total: B/W (A3)	*CTL	

8584	**[P:Counter]**		
	These SPs count the total output of the print application broken down by color output.		
001	B/W	*CTL	[0 to 99999999 / **0** / 1]
002	Mono Color	*CTL	
003	Full Color	*CTL	
004	Single Color	*CTL	
005	Two Color	*CTL	

8591	**[O:Counter]**		
	These SPs count the totals for A3/DLT paper use, number of duplex pages printed, and the number of staples used. These totals are for Other (O:) applications only.		
001	A3/DLT	*CTL	[0 to 99999999 / **0** / 1/step]
002	Duplex	*CTL	
003	Banner	*CTL	

8601	**[T:CvgCounter]**		
	These SPs count the total coverage for each color and the total printout pages for each printing mode.		
001	Cvg: BW %	*CTL	[0 to 2147483647 / **0** / 1% / step]
002	Cvg: FC %	*CTL	
011	Cvg: BW Pages	*CTL	[0 to 9999999 / **0** / 1/step]
012	Cvg: FC Pages	*CTL	[0 to 9999999 / **0** / 1/step]
021	CvgCounter 1	*CTL	[0 to 9999999 / **0** / 1/step]
022	CvgCounter 2	*CTL	
023	CvgCounter 3	*CTL	
031	CvgCounter 1(YMC)	*CTL	[0 to 9999999 / **0** / 1/step]
032	CvgCounter 2(YMC)	*CTL	
033	CvgCounter 3(YMC)	*CTL	

8604	**[P:CvgCounter]**

	-		
001	Cvg: B/W %	*CTL	[0 to 2147483647 / **0** / 1% / step]
002	Cvg: Single Color %	*CTL	
003	Cvg: Two Color %	*CTL	
004	Cvg: Full Color %	*CTL	

8617	**[SDK Apli Counter]**		
	These SPs count the total printout pages for each SDK application.		
001	SDK-1	*CTL	[0 to 99999999 / **0** / 1/step]
002	SDK-2	*CTL	
003	SDK-3	*CTL	
004	SDK-4	*CTL	
005	SDK-5	*CTL	
006	SDK-6	*CTL	
007	SDK-7	*CTL	[0 to 99999999 / **0** / 1/step]
008	SDK-8	*CTL	
009	SDK-9	*CTL	
010	SDK-10	*CTL	
011	SDK-11	*CTL	
012	SDK-12	*CTL	

8621	Func Use Counter		
	-		
001	Function-001	*CTL	[0 to 99999999 / **0** / 1/step]
002	Function-002	*CTL	
003	Function-003	*CTL	
004	Function-004	*CTL	
005	Function-005	*CTL	
006	Function-006	*CTL	[0 to 99999999 / **0** / 1/step]
007	Function-007	*CTL	
008	Function-008	*CTL	
009	Function-009	*CTL	
010	Function-010	*CTL	
011	Function-011	*CTL	[0 to 99999999 / **0** / 1/step]
012	Function-012	*CTL	
013	Function-013	*CTL	
014	Function-014	*CTL	
015	Function-015	*CTL	

016	Function-016	*CTL	[0 to 99999999 / **0** / 1/step]
017	Function-017	*CTL	
018	Function-018	*CTL	
019	Function-019	*CTL	
020	Function-020	*CTL	
021	Function-021	*CTL	[0 to 99999999 / **0** / 1/step]
022	Function-022	*CTL	
023	Function-023	*CTL	
024	Function-024	*CTL	
025	Function-025	*CTL	
026	Function-026	*CTL	[0 to 99999999 / **0** / 1/step]
027	Function-027	*CTL	
028	Function-028	*CTL	
029	Function-029	*CTL	
030	Function-030	*CTL	
031	Function-031	*CTL	[0 to 99999999 / **0** / 1/step]
032	Function-032	*CTL	
033	Function-033	*CTL	
034	Function-034	*CTL	
035	Function-035	*CTL	
036	Function-036	*CTL	
037	Function-037	*CTL	
038	Function-038	*CTL	
039	Function-039	*CTL	
040	Function-040	*CTL	
041	Function-041	*CTL	[0 to 99999999 / **0** / 1/step]
042	Function-042	*CTL	
043	Function-043	*CTL	
044	Function-044	*CTL	
045	Function-045	*CTL	
046	Function-046	*CTL	
047	Function-047	*CTL	
048	Function-048	*CTL	
049	Function-049	*CTL	
050	Function-050	*CTL	
051	Function-051	*CTL	[0 to 99999999 / **0** / 1/step]
052	Function-052	*CTL	
053	Function-053	*CTL	

054	Function-054	*CTL	
055	Function-055	*CTL	
056	Function-056	*CTL	
057	Function-057	*CTL	
058	Function-058	*CTL	
059	Function-059	*CTL	
060	Function-060	*CTL	
061	Function-061	*CTL	[0 to 99999999 / **0** / 1/step]
062	Function-062	*CTL	
063	Function-063	*CTL	
064	Function-064	*CTL	

8771	**[Dev Counter]**		
	These SPs count the frequency of use (number of rotations of the development rollers) for black and other color toners.		
001	Total	*CTL	[0 to 99999999 / **0** / 1/step]
002	K	*CTL	
003	Y	*CTL	
004	M	*CTL	
005	C	*CTL	

8781	**[Toner_Botol_Info.]**		
	These SPs display the replacement counts of toner bottle.		
001	K	*CTL	[0 to 99999999 / **0** / 1/step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8801	**[Toner Remain]**		
	These SPs display the percent of toner remaining for each color. This SP allows the user to check the toner supply at any time. Note: This precise method of measuring remaining toner supply (1% steps) is better than other machines in the market that can only measure in increments of 10 (10% steps).		
001	K	*CTL	[0 to 100 / **0** / 1% / step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8811	**[Eco Counter]**		
	-		
001	Eco Total	*CTL	[0 to 99999999 / **0** / 1/step]
002	Color	*CTL	
003	Full Color	*CTL	
004	Duplex	*CTL	
005	Combine	*CTL	
006	Color (%)	*CTL	[0 to 100 / **0** / 1% / step]
007	Full Color (%)	*CTL	
008	Duplex (%)	*CTL	
009	Combine (%)	*CTL	
010	Paper Cut (%)	*CTL	
051	Sync Eco Total	*CTL	[0 to 99999999 / **0** / 1/step]
052	Sync Color	*CTL	
053	Sync Full Color	*CTL	
054	Sync Duplex	*CTL	
055	Sync Combine	*CTL	
056	Sync Color(%)	*CTL	[0 to 100 / **0** / 1% / step]
057	Sync Full Color(%)	*CTL	
058	Sync Duplex(%)	*CTL	
059	Sync Combine(%)	*CTL	
060	Sync Paper Cut(%)	*CTL	
101	Eco Totalr:Last	*CTL	[0 to 99999999 / **0** / 1/step]
102	Color:Last	*CTL	
103	Full Color:Last	*CTL	
104	Duplex:Last	*CTL	
105	Combine:Last	*CTL	
106	Color(%):Last	*CTL	[0 to 100 / **0** / 1% / step]
107	Full Color (%):Last	*CTL	
108	Duplex (%):Last	*CTL	
109	Combine (%):Last	*CTL	
110	Paper Cut (%):Last	*CTL	
151	Sync Eco Totalr:Last	*CTL	[0 to 99999999 / **0** / 1/step]
152	Sync Color:Last	*CTL	
153	Sync Full Color:Last	*CTL	
154	Sync Duplex:Last	*CTL	
155	Sync Combine:Last	*CTL	

156	Sync Color(%):Last	*CTL	[0 to 100 / **0** / 1% / step]
157	Sync Full Color(%):Last	*CTL	
158	Sync Duplex(%):Last	*CTL	
159	Sync Combine(%):Last	*CTL	
160	Sync Paper Cut(%):Last	*CTL	

8851	**[Cvr Cnt: 0-10%]**		
	These SPs display the number of scanned sheets on which the coverage of each color is from 0% to 10%.		
011	0 to 2%: BK	*CTL	[0 to 99999999 / **0** / 1 / step]
012	0 to 2%: Y	*CTL	
013	0 to 2%: M	*CTL	
014	0 to 2%: C	*CTL	
021	3 to 4%: BK	*CTL	[0 to 99999999 / **0** / 1 / step]
022	3 to 4%: Y	*CTL	
023	3 to 4%: M	*CTL	
024	3 to 4%: C	*CTL	
031	5 to 7%: BK	*CTL	[0 to 99999999 / **0** / 1 / step]
032	5 to 7%: Y	*CTL	
033	5 to 7%: M	*CTL	
034	5 to 7%: C	*CTL	
041	8 to 10%: BK	*CTL	[0 to 99999999 / **0** / 1 / step]
042	8 to 10%: Y	*CTL	
043	8 to 10%: M	*CTL	
044	8 to 10%: C	*CTL	

8861	**[Cvr Cnt: 11-20%]**		
	These SPs display the number of scanned sheets on which the coverage of each color is from 11% to 20%.		
001	BK	*CTL	[0 to 99999999 / **0** / 1 / step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8871	**[Cvr Cnt: 21-30%]**		
	These SPs display the number of scanned sheets on which the coverage of each color is from 21% to 30%.		
001	BK	*CTL	[0 to 99999999 / **0** / 1 / step]

002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8881	**[Cvr Cnt: 31%-]**		
	These SPs display the number of scanned sheets on which the coverage of each color is 31% or higher.		
001	BK	*CTL	[0 to 99999999 / **0** / 1 / step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8891	**[Page/Toner Bottle]**		
	These SPs display the amount of the remaining current toner for each color.		
001	BK	*CTL	[0 to 99999999 / **0** / 1 / step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8901	**[Page/Toner_Prev1]**		
	These SPs display the amount of the remaining previous toner for each color.		
001	BK	*CTL	[0 to 99999999 / **0** / 1 / step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8911	**[Page/Toner_Prev2]**		
	These SPs display the amount of the remaining 2nd previous toner for each color.		
001	BK	*CTL	[0 to 99999999 / **0** / 1 / step]
002	Y	*CTL	
003	M	*CTL	
004	C	*CTL	

8921	**[Cvr Cnt/Total]**		
	Displays the total coverage and total printout number for each color.		
001	Coverage (%) Bk	*CTL	[0 to 2147483647 / **0** / 1% / step]
002	Coverage (%) Y	*CTL	
003	Coverage (%) M	*CTL	
004	Coverage (%) C	*CTL	

011	Coverage /P: Bk	*CTL	[0 to 99999999 / **0** / 1/step]
012	Coverage /P: Y	*CTL	
013	Coverage /P: M	*CTL	
014	Coverage /P: C	*CTL	
031	Coverage(%):Eco BK	*CTL	[0 to 2147483647/0/1%]
032	Coverage(%):Eco Y	*CTL	
034	Coverage(%):Eco M	*CTL	
041	Coverage(%):Eco C	*CTL	
042	Coverage/P:Eco BK	*CTL	[0 to 99999999/0/1]
043	Coverage/P:Eco Y	*CTL	
044	Coverage/P:Eco M	*CTL	
045	Coverage/P:Eco C	*CTL	

8941	**[Machine Status]**		
	These SPs count the amount of time the machine spends in each operation mode. These SPs are useful for customers who need to investigate machine operation for improvement in their compliance with ISO Standards.		
001	Operation Time	*CTL	[0 to 99999999 / **0** / 1/step]
	Engine operation time. Does not include time while controller is saving data to HDD (while engine is not operating).		
002	Standby Time	*CTL	[0 to 99999999 / **0** / 1/step]
	Engine not operating. Includes time while controller saves data to HDD. Does not include time spent in Energy Save, Low Power, or Off modes.		
003	Energy Save Time	*CTL	[0 to 99999999 / **0** / 10 / step]
	Includes time while the machine is performing background printing.		
004	Low Power Time	*CTL	[0 to 99999999 / **0** / 1/step]
	Includes time in Energy Save mode with Engine on. Includes time while machine is performing background printing.		
005	Off Mode Time	*CTL	[0 to 99999999 / **0** / 1/step]
	Includes time while machine is performing background printing. Does not include time machine remains powered off with the power switches.		
006	SC	*CTL	[0 to 99999999 / **0** / 1/step]
	Total time when SC errors have been staying.		
007	PrtJam	*CTL	[0 to 99999999 / **0** / 1/step]
	Total time when paper jams have been staying during printing.		
008	OrgJam	*CTL	[0 to 99999999 / **0** / 1/step]
	Total time when original jams have been staying during scanning.		
009	Supply PM Unit End	*CTL	[0 to 99999999 / **0** / 1/step]

	Total time when toner end has been staying

8961	**[Electricity Status]**		
	-		
001	Ctrl Standby Time	*CTL	[0 to 99999999 / **0** / 1/step]
002	STR Time	*CTL	
003	Main Power Off Time	*CTL	
004	Reading and Printing Time	*CTL	
005	Printing Time	*CTL	[0 to 99999999 / **0** / 1/step]
006	Reading Time	*CTL	
007	Eng Waiting Time	*CTL	
008	Low Power State Time	*CTL	
009	Silent State Time	*CTL	
010	Heater Off State Time	*CTL	
011	LCD on Time	*CTL	
101	Silent Print	*CTL	

8971	**[Unit Control]**		
	-		
001	Engine Off Recovery Count	*CTL	[0 to 99999999 / 0 / 1/step]
002	Power Off Count	*CTL	
003	Force Power Off Count	*CTL	

8999	**[Admin. Counter List]**		
	Displays each total print out and total coverage.		
001	Total	*CTL	[0 to 99999999 / **0** / 1/step]
006	Printer: Full Color	*CTL	[0 to 99999999 / **0** / 1/step]
007	Printer: BW	*CTL	[0 to 99999999 / **0** / 1/step]
008	Printer: Single Color	*CTL	[0 to 99999999 / **0** / 1/step]
009	Printer: Two Color	*CTL	[0 to 99999999 / **0** / 1/step]
012	A3/DLT	*CTL	[0 to 99999999 / **0** / 1/step]
013	Duplex	*CTL	[0 to 99999999 / **0** / 1/step]
026	Printer: Full Color (%)	*CTL	[0 to 2147483647 / **0** / 1% / step]
027	Printer: BW (%)	*CTL	[0 to 2147483647 / **0** / 1% / step]
028	Printer: Single Color (%)	*CTL	[0 to 2147483647 / **0** / 1% / step]
029	Printer: Two Color (%)	*CTL	[0 to 2147483647 / **0** / 1% / step]
032	Banner	*CTL	[0 to 99999999 / **0** / 1/step]

Coverage(%):Eco BK
Coverage(%):Eco Y
Coverage(%):Eco M
Coverage(%):Eco C
Coverage/P:Eco BK
Coverage/P:Eco Y
Coverage/P:Eco M
Coverage/P:Eco C

Printer SP

SP1-XXX (Service Mode)

1001	**[Bit Switch]**			
1-001-001	Bit Switch 1		0	1
	bit 0	DFU	-	-
	bit 1	Responding with the hostname as the sysName	Model name (PnP name)	Hostname
		This BitSwitch can change the value of the sysName. 0 (default): Model name (PnP name) such as "MP C401SP" 1: Host name		
	bit 2	DFU	-	-
	bit 3	**No I/O Timeout**	**Disabled**	Enabled
		Enables/Disables MFP I/O Timeouts. If enabled, the MFP I/O Timeout setting will have no affect. I/O Timeouts will never occur.		
	bit 4	**SD Card Save Mode**	**Disabled**	Enabled
		If this bit switch is enabled, print jobs will be saved to the GW SD slot and not output to paper.		
	bit 5	[PS and PDF] Paper size error margin	±5pt	±10pt
		When a PS job is printed by using a custom paper size, the job might not be printed because of a paper size mismatch caused by a calculation error. By default, the error margin for matching to a paper size is ±5 points. By enabling this BitSwitch, the error margin for matching to a paper size can be extended to ±10 points.		
	bit 6	Color balance switching	0:Disabled	1:Enabled
		This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance that is equivalent to Fuji-Xerox printers will be used.		
	bit 7	**[RPCS,PCL]: Printable area frame border**	**Disabled**	Enabled
		Prints all RPCS and PCL jobs with a border around the printable area.		

1001	**[Bit Switch]**			
1-001-002	Bit Switch 2		0	1
	bit 0	**Color balance switching**	Disabled	Enabled
		This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance from 09S and earlier models will be used.		
	bit	DFU	-	-

	1			
	bit 2	**Applying a Collate Type**	**Shift Collate**	Normal Collate
		A collate type (shift or normal) will be applied to all jobs that do not explicitly define a collate type. **Note:** If #5-0 is enabled, this BitSwitch has no effect.		
	bit 3	**[PCL5e/c,PS]: PDL Auto Switching**	**Enabled**	Disabled
		Enables/Disables the machine's ability to change the PDL processor mid-job. Some host systems submit jobs that contain both PS and PCL5e/c. If Auto PDL switching is disabled, these jobs will not be printed properly.		
	bit 4	**Color balance switching**	Disabled	Enabled
		This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance from 09A and Extended 09A models will be used.		
	bit 5	DFU	-	-
	bit 6	**Switch dither**	**Use normal dither**	Use alternative dither
		*Please refer to RTB#RD014018		
	bit 7	DFU	-	-

1001	**[Bit Switch]**			
1-001-003	Bit Switch 3		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	**[PCL5e/c]: Legacy HP compatibility**	**Disabled**	Enabled
		Uses the same left margin as older HP models such as HP4000/HP8000. In other words, the left margin defined in the job (usually "<ESC>*r0A") will be changed to "<ESC>*r1A".		
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit	DFU	-	-

	6			
	bit 7	Mode for 2 color printing	High-density black mode	Standard mode

1001	**[Bit Switch]**			
1-001-004	Bit Switch 4		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	**IPDS print-side reversal**	**Disabled**	Enabled
		If enabled, the simplex pages of IPDS jobs will be printed on the front side because of printing on the back side of the page. This might reduce printing speed.		
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	You can enable/disable the port for IPDS printing.	Off	On

1001	**[Bit Switch]**			
1-001-005	Bit Switch 5		0	1
	bit 0	**Show "Collate Type", "Staple Type" and "Punch Type" buttons on the operation panel.**	**Disabled**	Enabled
		If enabled, users will be able to configure a Collate Type, Staple Type, and Punch Type from the operation panel. The available Types will depend on the device and configured options. After enabling this BitSw, the settings will appear under: "User Tools > Machine Features > Printer Features > System"		
	bit 1	**Multiple copies if a paper size or type mismatch occurs**	**Disabled (single copy)**	Enabled (multiple)
		If a paper size or type mismatch occurs during the printing of multiple copies, only a single copy is output by default. Using this BitSw, the device can be configured to print all copies even if a paper mismatch occurs.		

	bit 2	**Prevent SDK applications from altering the contents of a job.**	**Disabled**	Enabled
		If this BitSw is enabled, SDK applications will not be able to alter print data. This is achieved by preventing SDK applications from accessing a module called the "GPS Filter". Note: The main purpose of this BitSw is for troubleshooting the effects of SDK applications on data.		
	bit 3	**[PS] PS Criteria**	**Pattern3**	Pattern1
		Change the number of PS criterion used by the PS interpreter to determine whether a job is PS data or not. For details, refer to “Printing Features”.		
	bit 4	**Increase max. number of stored jobs.**	**Disabled (100)**	Enabled (750)
		Changes the maximum number of jobs that can be stored on the HDD. The default (disabled) is 100. If this is enabled, the max. will be raised to 750 or 1000 depending on the model.		
	bit 5	DFU	-	-
	bit 6	**Method for determining the image rotation for the edge to bind on.**	**Disabled**	Enabled
		If enabled, the image rotation will be performed as they were in the specifications of older models for the binding of pages of mixed orientation jobs. The old models are below: - PCL: Pre-04A models - PS/PDF/RPCS:Pre-05S models		
	bit 7	**Letterhead mode printing**	**Disabled**	Enabled (Duplex)
		Routes all pages through the duplex unit. If this is disabled, simplex pages or the last page of an odd-paged duplex job, are not routed through the duplex unit. This could result in problems with letterhead/pre-printed pages. Only affects pages specified as Letterhead paper.		

1001	**[Bit Switch]**			
1-001-006	Bit Switch 6		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	DFU	-	-

	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	**[Bit Switch]**			
1-001-007	Bit Switch 7		0	1
	bit 0	**Print path**	**Disabled**	Enabled
		If enabled, simplex pages (in mixed simplex/duplex PS/PCL5 jobs only) and the last page of an odd paged duplex job (PS, PCL5, PCL6), are always routed through the duplex unit. Not having to switch paper paths increases the print speed slightly.		
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	**[Bit Switch]**			
1-001-008	Bit Switch 8		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	**[PCL,PS]: Allow BW jobs to print without requiring User Code**	**Disabled**	Enabled (allow BW jobs to print without a user code)
		BW jobs submitted without a user code will be printed even if usercode authentication is enabled. **Note:** Color jobs will not be printed without a valid user code.		
	bit	DFU	-	-

	4			
	bit 5	DFU	-	-
	bit 6	**PCL, RPCS, PS: Forced BW print**	**Enabled**	Disabled
		Switches whether to ignore PDL color command.		
	bit 7	**[PDF]: Orientation Auto Detect Function**	**Enabled**	Disabled
		Automatically chooses page orientations of PDF jobs (Landscape or Portrait) based on the content.		

1001	**[Bit Switch]**			
1-001-009	Bit Switch 9		0	1
	bit 0	**PDL Auto Detection timeout of jobs submitted via USB or Parallel Port (IEEE 1284).**	**Disabled (Immediately)**	Enabled (10 seconds)
		To be used if PDL auto-detection fails. A failure of PDL auto detection doesn't necessarily mean that the job can't be printed. This bit switch tells the device whether to time-out immediately (default) upon failure or to wait 10 seconds.		
	bit 1	DFU	-	-
	bit 2	**Job Cancel**	**Disabled (Not cancelled)**	Enabled (Cancelled)
		If this bit switch, all jobs will be cancelled after a jam occurs. **Note:** If this bitsw is enabled, printing under the following conditions might result in problems: - Job submission via USB or Parallel Port - Spool printing (WIM >Configuration > Device Settings > System)		
	bit 3	**PCL/PS bypass tray paper rotation (SEF/LEF)**	**Disabled**	Enabled
		This bitsw causes the device to revert to the behavior of previous generations. It only takes effect if "Bypass Tray Setting Priority" = "Driver/Command". Previous spec (bitsw=1): If a standard sized paper mismatch occurred in the bypass tray, the MFP/LP always prompted for SEF paper. If this bitsw=0 (default) then in the event of a standard sized paper mismatch, the MFP/LP will always prompt for paper of the rotation (SEF/LEF) determined by the MFP/LP bypass tray paper setting or by the bypass tray sensor.		
	bit 4	**Timing of the PJL Status ReadBack (JOB END) when printing multiple collated copies.**	**Disable**	Enable
		This bitsw determines the timing of the PJL USTATUS JOB END sent when multiple collated copies are being printed. 0 (default): JOB END is sent by the device to the client after the first copy has completed printing. This causes the page counter to be incremented after the first copy and then again at the		

		end of the job. 1: JOB END is sent by the device to the client after the last copy has finished printing. This causes the page counter to be incremented at the end of each job.		
	bit 5	**Display UTF-8 text in the operation panel**	**Enabled**	Disabled
		Enabled (=0): Text composed of UTF-8 characters can be displayed in the operation panel. Disabled (=1): UTF-8 characters cannot be displayed in the operation panel. For example, job names are sometimes stored in the MIB using UTF-8 encoded characters. When these are displayed on the operation panel, they will be garbled unless this BitSw is enabled (=0).		
	bit 6	**Disable super option**	**Enabled**	Disabled
		Switches super option disable on / off. It this is On, multiple jobs are grouped at LPR port. PJL settings are enabled even jobs that are specified queue names are sent.		
	bit 7	**Enable/Disable Print from USB/SD's Preview function**	Enabled	**Disabled**
		Determines whether Print from USB/SD will have the Preview function. Enabled (=0): Print from USB/SD will have the Preview function. Disabled (=1): Print from USB/SD will not have the Preview function.		

1001	**[Bit Switch]**			
1-001-010	Bit Switch A		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	**Store and Skip Errored Job locks the queue**	**Queue is not locked after SSEJ**	Queue locked after SSEJ
		If this is 1, then after a job is stored using Store and Skip Errored Job (SSEJ), new jobs cannot be added to the queue until the stored job has been completely printed.		
	bit	**Allow use of Store and Skip Errored Job if**	**Does not allow**	Allows SSEJ

	6	**connected to an external charge device.**	**SSEJ with ECD**	with ECD
		If this is 0, Store and Skip Errored Job (SSEJ) will be automatically disabled if an external charge device is connected. **Note:** We do not officially support enabling this bitsw (1). Use it at your own risk.		
	bit 7	**Job cancels remaining pages when the paid-for pages have been printed on an external charge device**	**Job does not cancel**	Job cancels
		When setting 1 is enabled, after printing the paid-for pages on an external charge device, the job that includes any remaining pages will be canceled. This setting will prevent the next user from printing the unnecessary pages from the previous user's print job.		

1001	**[Bit Switch]**			
1-001-011	Bit Switch B		0	1
	bit 0	**Show Menu List**	**Hide Menu List**	Show Menu List
		If this is 0, the Menu List button will be removed from Printer Features.		
	bit 1	**Print job interruption**	**Does not allow interruption**	Allow interruption
		0 (default): Print jobs are not interrupted. If a job is promoted to the top of the print queue, it will wait for the currently printing job to finish. 1: If a job is promoted to the top of the queue, it will interrupt the currently printing job and start printing immediately.		
	bit 2	DFU	-	-
	bit 3	Not Used	-	-
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	**[Bit Switch]**			
1-001-012	Bit Switch C		0	1
	bit	DFU	-	-

	0			
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	**Change the user ID type displayed on the operation panel**	**Login User Name**	User ID
		As of 15S models, the Login User Name can be displayed on the operation panel. The user ID type displayed on the operation panel can be changed by configuring BitSwitch #12-5 as follows: - 0 (default): Login User Name - 1: User ID. If this is enabled, User ID will be displayed, which is equivalent to the behavior exhibited in 14A and earlier models.		
	bit 6	**Ability to use AirPrint**	**Enabled**	Disabled
		For 15S and later models that support AirPrint, AirPrint can be disabled by changing this Bit Switch from 0 (default) to 1.		
	bit 7	DFU	-	-

1003	**[Clear Setting]**		
1-003-001	Initialize System	*CTL	[- / - / -] [Execute]
	Initializes settings in the "System" menu of the user mode.		
1-003-003	Delete Program	*CTL	[- / - / -] [Execute]

1004	**[Print Summary]**		
	Prints the service summary sheet (a summary of all the controller settings).		
1-004-001	Print Summary	*CTL	[- / - / -] [Execute]
1-004-002	Print Summary2	*CTL	[- / - / -] [Execute]

1005	**[Display Version]**

1-005-002	Printer Version	*CTL	[- / **-** / -]
	Displays the version of the controller firmware.		

1007	**[Supply Display]**		
1-007-001 to 007	Sets displaying supply information or not.	*CTL	[0 or 1 / **1** / 1 /step] 0: Displays supply information 1: Does not display supply information
	-		

1101	**[Data Recall]**		
	Recalls a set of gamma settings. This can be either a) the factory setting, b) the previous setting, or c) the current setting.		
1-101-001	Factory	*CTL	[- / **-** / -] [Execute]
1-101-002	Previous	*CTL	
1-101-003	Current	*CTL	
1-101-004	ACC	*CTL	

1102	**[Resolution Setting]**		
	Selects the printing mode (resolution) for the printer gamma adjustment.		
1-102-001	Tone Control Mode Selection	CTL	[0 to 9 / **0** / 1/step] 0: 1200x1200 Photo (2bit/4col) 1: 1200x1200 Photo (1bit/4col) 2: 600x600 Photo (4bit/4col) 3: 600x600 Photo (2bit/4col) 4: 600x600 Photo (1bit/4col) 5: 1200x1200 Text (2bit/4col) 6: 1200x1200 Text (1bit/4col) 7: 600x600 Text (4bit/4col) 8: 600x600 Text (2bit/4col) 9: 600x600 Text (1bit/4col)

1103	**[Test Page]**
	Prints the test page to check the color balance before and after the gamma adjustment.

1-103-001	Color Gray Scale	CTL	[- / **-** / -]
1-103-002	Color Pattern	CTL	[Execute]

1104	**[Gamma Adjustment]**		
	Adjusts the printer gamma for the mode selected in the "Mode Selection" menu.		
1-104-001	Black: Highlight	CTL	[0 to 30 / **00** / 1/step]
1-104-002	Black: Shadow	CTL	
1-104-003	Black: Middle	CTL	
1-104-004	Black: IDmax	CTL	
1-104-021	Cyan: Highlight	CTL	
1-104-022	Cyan: Shadow	CTL	
1-104-023	Cyan: Middle	CTL	
1-104-024	Cyan: IDmax	CTL	
1-104-041	Magenta: Highlight	CTL	
1-104-042	Magenta: Shadow	CTL	
1-104-043	Magenta: Middle	CTL	
1-104-044	Magenta: IDmax	CTL	
1-104-061	Yellow: Highlight	CTL	
1-104-062	Yellow: Shadow	CTL	
1-104-063	Yellow: Middle	CTL	
1-104-064	Yellow: IDmax	CTL	

1105	**[Save Tone Control Value]**		
	Stores the print gamma adjusted with the "Gamma Adj." menu item as the current setting. Before the machine stores the new "current setting", it moves the data currently stored as the "current setting" to the "previous setting" memory storage location.		
1-105-001	Save Tone Control Value	*CTL	[- / **-** / -] [Execute]

1106	**[Toner Limit]**		
	Adjusts the maximum toner amount for image development.		
1-106-001	Toner Limit Value	*CTL	[0 to 400 / **0** / 1 %/step]

1108	**[Ext.TonerSave]**		
	-		
1-108-001	Mode1:Text	*CTL	[0 to 999 / **75** / 1 step]
1-108-002	Mode2:Text	*CTL	[0 to 999 / **50** / 1 step]
1-108-003	Mode1:Image	*CTL	[0 to 999 / **75** / 1 step]

1-108-004	Mode2:Image	*CTL	[0 to 999 / **50** / 1 step]
1-108-005	Mode1:Line	*CTL	[0 to 999 / **75** / 1 step]
1-108-006	Mode2:Line	*CTL	[0 to 999 / **50** / 1 step]
1-108-007	Mode1:Paint	*CTL	[0 to 999 / **75** / 1 step]
1-108-008	Mode2:Paint	*CTL	[0 to 999 / **50** / 1 step]

1109	**[EconomyColor]**		
	-		
1-109-001	Text	*CTL	[0 to 999 / **100** / 1 step]
1-109-002	Image	*CTL	[0 to 999 / **50** / 1 step]
1-109-003	Line	*CTL	[0 to 999 / **30** / 1 step]
1-109-004	Paint	*CTL	[0 to 999 / **30** / 1 step]

1110	**[Media Print Device Setting]**		
	Selects the setting for the media print device.		
1-110-002	0: Disable 1: Enable	*CTL	[0 or 1 / **1** / 1 / step]

1111	**[All Job Delete Mode]**		
1-111-001	-	*CTL	[0 or 1 / **0** / 1 / step] 0: Excluding New Job 1: Including New Job
	Selects whether to include an image processing job in jobs subject to full cancellation from the SCS job list.		

1113	**[IBACC Exec]**		
	Sets IBACC correction execution (calculation IBACC gamma) on / off. 0: Not calculate IBACC gamma. (Sets IBACC gamma linear) 1: Calculate IBACC gamma		
1-113-001	0:Off 1:On	*CTL	[0 or 1 / **1** / 1/step]

1114	**[IBACC ToneCtlSet]**		
	Sets back to the previous value of IBACC gamma correction for all resolutions. If there is no previous value, sets to the factory default values.		
1-114-001	Tone (Prev.)	CTL	-
1-114-002	Tone (Factory)	CTL	-

1115	**[IBACC Exec Time]**		
	Displays the time when IBACC is executed or sets back to the previous / initial value.		
1-115-001	Time	CTL	-

5. Software Configuration

Printing Features

Auto PDL Detection Function

Overview

The Auto PDL Detection function gives the MFP/LP the ability to determine the PDL of a job or of specific parts of a job. This can be especially useful in cases where the PDL is not specified or if the job contains multiple PDLs. This is only possible if the job was not created using a driver.

Conditions for detection of the PDL

The MFP/LP will only attempt to detect a job's PDL if all of the following conditions are met.

- No @PJL ENTER LANGUAGE command is contained in the job
- No submission protocol options (lpr, ftp, rcp, or rsh options) have been used to specify the PDL
- User Tools > Machine Features > Printer Features > System > Printer Language = Auto

Note

- The printer is unable to detect PCL6. However these are almost always created using a driver and therefore contain the PJL command specifying the PDL.

PDL detection by the printer system, PCL interpreter and PS interpreter

There are 3 components in the printer which can perform Auto PDL Detection:

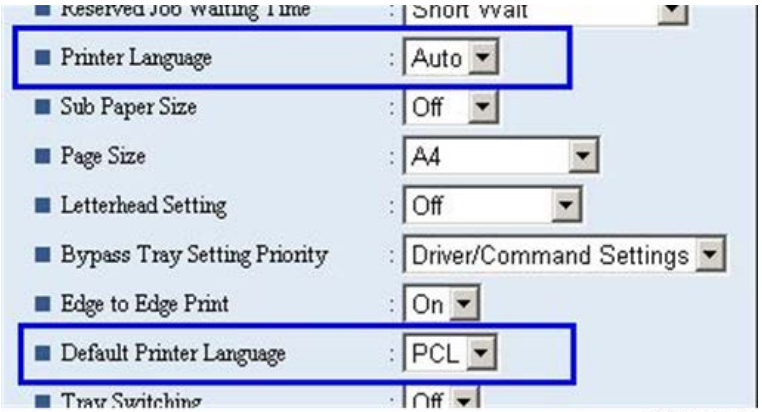
1. **Printer system:**
   Uses a set of triggers unique to PCL5, PS or PDF. Up to 2KB from the start of the job can be searched for triggers.
2. **PCL interpreter:**
   It can detect PS triggers in PCL data. If a PS trigger is detected, the PCL interpreter will abort processing and return the unprocessed part of the job back to the printer system. Up to 256 bytes from the start of each page can be searched for triggers.
3. **PS interpreter:**
   It can detect PCL5 triggers in PS data. If a PCL trigger is detected, the PS interpreter will abort processing and return the unprocessed part of the job back to the printer system. The entire page (regardless of the number of bytes) is searched for triggers.

Note

- 2. and 3. can be disabled using Printer Bit Switch 2-3=1.
- If the "Printer Language" is configured to anything other than Auto, all detection will be disabled.
- An interpreter submits a job page by page to the rasterizer. Therefore, when an interpreter detects a trigger mid-job, the previous pages will have already been submitted and will be output using the previously detected PDL.

- If the PDL cannot be detected by the printer system, then the PDL defaults to the one configured in "Configuration > Printer Basic Settings > Default Printer Language".

The Printer Language setting and Default Printer Language setting in WIM:

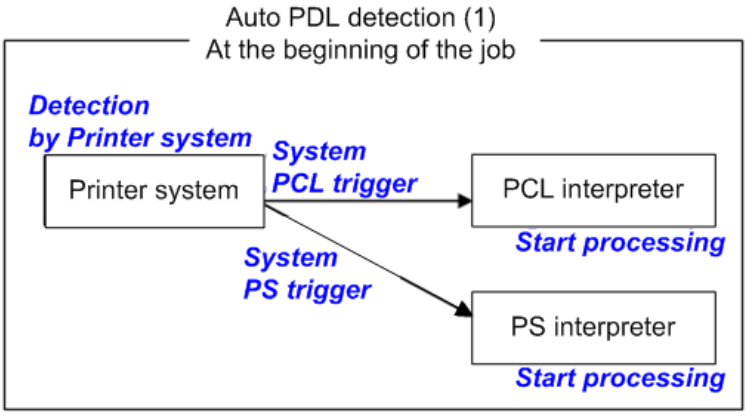


d238m3501

PDL selection and switching

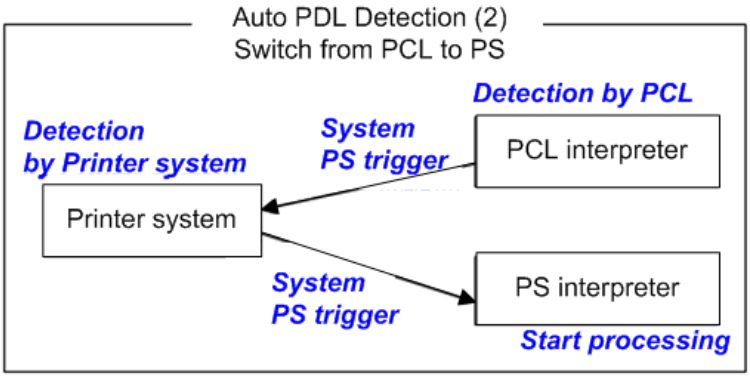
3 types of PDL selection/switching are performed:

1. PDL selection (PCL5 or PS (including PDF)) at the beginning of the job: performed by the printer system



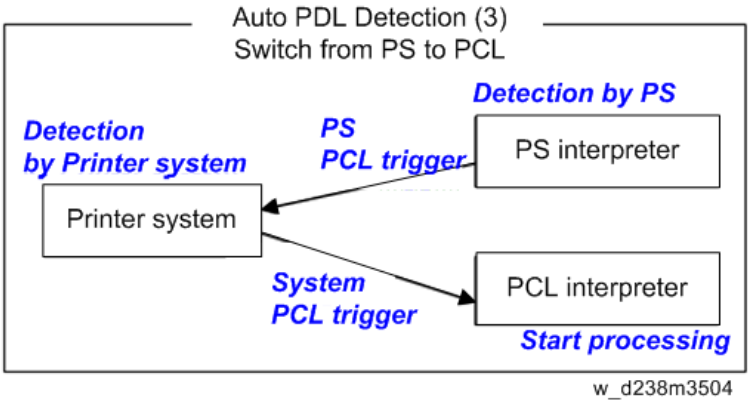
w_d238m3502

2. PDL switching from PCL5 to PS: performed by the PCL interpreter and the printer system



w_d238m3503

3. PDL switching from PS to PCL5: performed by the PS interpreter and the printer system



Triggers

Printer system

PCL5 triggers	[ESC]E [FF]
PS triggers	%!PS-Adobe-3.1 "%!" "dict begin" "bind def" "findfont" "showpage" "/statusdict" "0 startjob" [EOT] "}" + space character + "def" "userdict" (*)
PDF triggers	%PDF- %!PS-Adobe-M.nPDF- (*M, n=numeric)

* "userdict" is excluded by configuring Printer Bit Switch 5-3=1.

Note

- Up to 2KB from the start of the job can be searched for triggers.
- "%%" can be added to the PS triggers by configuring Printer Bit Switch 5-3=1
- If a job is identified as PDF, it will be sent to the PS interpreter to be processed as a regular PS job.

PS interpreter

PCL5 trigger	[ESC]E and 2 or more continuous PCL commands

Note

- Up to 256 bytes from the start of each page can be searched for triggers.

Some possible problems

Garbled output:

If a string of characters (or binary data) is mistaken as a trigger and an incorrect PDL is applied, the output will be garbled.

Incorrect printer settings:

Printer settings, for example the paper size, is incorrectly applied. This can happen when the printer settings at the beginning of the job are initialized before a PDL switch occurred and no settings were configured for the rest of the job.

Printer Bit Switch description

Bit Switch 2-3

This controls Auto PDL Detection by the PCL interpreter and PS interpreter.

BitSW 2-3=0 (default):

If PDL switching is applied to the job, all of the printer system, PCL interpreter and PS interpreter will search for switching criteria (triggers).

BitSW 2-3=1:

Only the printer system will search for switching criteria (triggers). PCL/PS interpreters will not.

Bit Switch 5-3

This affects the PDL switching criteria (triggers) used by the printer system.

BitSW 5-3=0 (default):

"%%" is not used as a printer system PS trigger. "%%" will not call the PS interpreter.

BitSW 5-3=1:

"%%" is used as a printer system PS trigger.

The reason that "%%" is not included as a trigger by default, is that a string of text in the body of the job such as the below, could result in a false positive. This would trigger a switch and result garbled output.

%%%%%%%%%%%%%%%%%%%%%%%%%%%%

However some customers prefer that "%%" be included as a switching criteria. BitSW5-3=1 should be used in such a case.

Note

- A side effect of BitSW5-3=1 is that "userdict" will no longer be used as a PS trigger.

Bit Switch 9-0

These determine whether Auto PDL Detection for print jobs transmitted via USB/parallel will wait 10 seconds to make sure the first 2KB of the job has been sent.

The Printer system portion of the Auto PDL Detection function is only performed on the first 2KB of a job and can wait up to 10 seconds for that first 2KB to arrive. As the printer is unable to detect the end of jobs submitted over a USB/Parallel connection, it might be preferable to not wait 10 seconds if jobs of less than 2KB are going to be printed. Enabling/disabling this waiting time is the purpose of BitSw 9-0.

BitSw 9-0=0 (default):

The printer system will not wait 10 seconds for the first 2KB of data to arrive.

BitSw 9-0=1:

The printer system will wait up to 10 seconds for the first 2KB of data to arrive.

Print Images Rotation

Printer Bit Switch description

Bit Switch 5-6

This change the way an MFP/LP rotates PCL, PS, PDF, or RPCS print images.

BitSW 5-6=0 (default):

A uniform binding edge (short or long edge) will be applied to every page of every job. Pages will always be rotated as if they were to be bound on that edge.

BitSW 5-6=1:

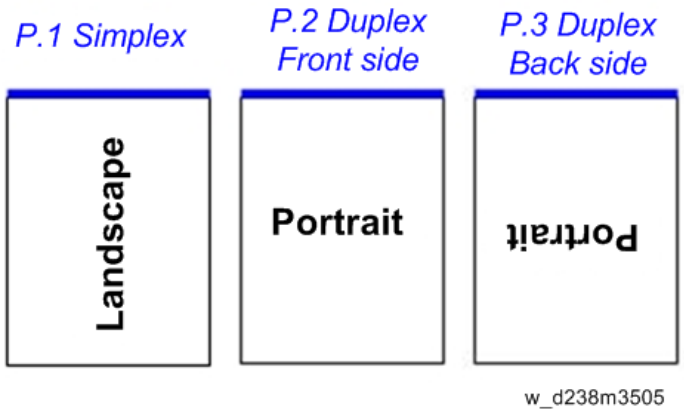
A uniform binding edge (short or long edge) will only be applied if the job is stapled, punched, or Z-folded. Otherwise, the bound edge might differ from page to page.

Example:

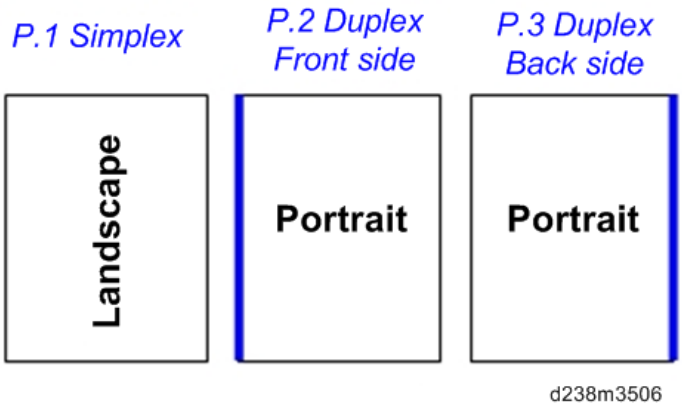
A 3-page job. Page 1 has the PCL simplex command. Page 2 and 3 have the PCL duplex long-edge bind commands.

No finishing options (staple, punch, z-fold) are used.

Bit Switch #5-6=0:



Bit Switch #5-6=1:



Note

- Used in conjunction with Bit Switch #5-6, Orientation Auto Detect for PS/PDF jobs might cause unexpected results.

PJL USTATUS

Printer Bit Switch description

Bit Switch 9-4

These control the way PJL USTATUS returns page count totals in cases where multiple copies of a job are being printed.

BitSw 9-4=0 (default):

This change the way an MFP/LP rotates PCL, PS, PDF, or RPCS print images.

1. The page count for a single copy is returned after the first copy is printed.
2. The page count for the rest of the copies, excluding the first copy, is returned after all copies have been printed.
3. This emulates an older HP PCL firmware spec. It is only needed for compatibility with legacy software.

BitSw 9-4=1:

The page count for all copies is output after all copies have been printed.

This emulates more recent HP PCL firmware specs.

For example, consider 3 copies of a 3 page job:

9-4 = 0

@PJL USTATUS JOB

START

NAME="TEST_page1-3"

@PJL USTATUS PAGE

1

@PJL USTATUS PAGE

2

@PJL USTATUS PAGE

750

3
@PJL USTATUS JOB
END
NAME="TEST_page1-3"
PAGES=3
<comment> The page count of the first copy is returned.</comment>
@PJL USTATUS PAGE
1
@PJL USTATUS PAGE
2
@PJL USTATUS PAGE
3
@PJL USTATUS PAGE
4
@PJL USTATUS PAGE
5
@PJL USTATUS PAGE
6
<comment> The page count of the remaining two copies is returned.</comment>
9-4 = 1
@PJL USTATUS JOB
START
NAME="Microsoft Word - TEST_page1-3"
@PJL USTATUS PAGE
1
@PJL USTATUS PAGE
2
@PJL USTATUS PAGE
3
@PJL USTATUS PAGE
4
@PJL USTATUS PAGE
5
@PJL USTATUS PAGE
6@PJL USTATUS PAGE
7
@PJL USTATUS PAGE
8
@PJL USTATUS PAGE

5.Software Configuration

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@PJL USTATUS JOB

END

NAME="Microsoft Word - TEST_page1-3"

PAGES=9

<comment> The page count of all three copies is returned.</comment>