



This course explains how to service the Brz-P1/MF1 series of black-and-white MFPs and printers.

To learn about this machine, please study the user's guide and the field service manual in addition to this TTP.



This section takes a quick look at the components of the machine.

■ How Many Models in the Series?

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- Brz-MF1a (D255): MP 501SPF
 - 50 ppm black-and white MFP
- Brz-MF1b (D256): MP 601SPF
 - 60 ppm black-and white MFP
- Brz-P1a (M281): SP 5300DN
 - 50 ppm black-and white printer
- Brz-P1b (M282): SP 5310DN
 - 60 ppm black-and white printer

- Cheetah-G2 operation panel
- GW+ controller (15S)

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These models will replace the Sh-P1/MF1 series.

	Sh-MF1/P1	Brz-MF1/P1
Print Speed	45, 50	50, 60
1,200 x 1,200 dpi	N/A	✓
Legal Platen (MF)	N/A	✓
A6 Scanning (MF)	N/A	✓
Finishing (MF)	✓	N/A
Operation Panel (MF)	8.5 inch	10.1 inch Cheetah Panel
Controller	GW	GW+
Maintenance Kit	120K	500K (Service Required, No Maintenance Kit)
BA (RAL-UZ171)	N/A	✓
Processor	533 MHz	1.46 GHz
Footprint (WxDxH) in MM	MF: 520 x 510 x 686 P: 411 x 435 x 400	MF: 475 x 504 x 645 P: 420 x 410 x 345
HDD	Option	MF1: Standard, P1: Option
Envelope Switch/Lever	✓	No need for a switch or lever
2 NIC Port	N/A	✓ (Option)
AirPrint	N/A	✓
SDK	Java SDK	Smart SDK

In the Brz series, there is no maintenance kit for the users to replace PM parts.

■ Options: Paper Feed - 1

- D3C2: Paper Feed Unit PB1100
 - 500 sheets
 - Up to 4 can be installed
 - A technician must install the paper feed unit if the caster unit is being used.

No additional notes

Options: Paper Feed - 2

- D3C7: Caster Table Type M24
 - Installation by technician may be required when installing Caster Table Type M24 with Paper Feed Unit PB1100, depending on the machine configuration.

Machine Configuration	MP 501/601		SP 5300/5310	
	Printer only	With 1 to 4 PFU PB1100	Printer only, or with one optional paper feed unit	With 2 to 4 PFU PB1100
Who can install the caster table	End user	Technician	End user	Technician

No additional notes

Options: Controller (All Models)

- D3BS: Extended USB Board Type M19
- D3C0: IEEE 1284 Interface Board Type M19
- M500: IEEE 802.11 Interface Unit Type M24
- D3BC: USB Device Server Option Type M19
- D792: Enhanced Security HDD Option Type M10
- D3CP: XPS Direct Print Option Type M24
- M500: IPDS Unit Type M24

No additional notes

■ Options: Controller (MFP Models)

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- D566: Bluetooth Interface Unit Type D
- D3CP: Fax Connection Unit Type M24
 - The base fax unit is standard
- D3CP: NFC Card Reader Type M24
- D3BS: DataOverwriteSecurity Unit Type M19
- D3BR: File Format Converter Type M19
- D3AC: OCR Unit Type M13
- B870: Optional Counter Interface Unit Type M12

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No additional notes

■ **Options: Controller (Printer Models)** **RICOH**
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- M500: Hard Disk Drive Option Type P8
 - HDD is standard for MFP models
- M500: VM Card Type P8

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No additional notes

Configuration Differences

Sh-MF1 vs. Brz-MF1

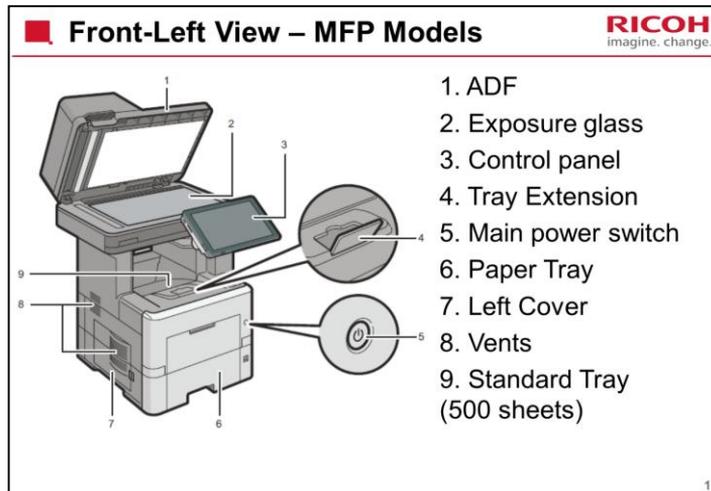
Features	Sh-MF1 Basic model	Sh-MF1m 1bin + Fax model	Brz-MF1
1 bin tray	N/A	Standard	N/A
Fax	Option	Standard	Standard
PostScript3	Standard	Standard	Standard
VM Card	Standard	Standard	Standard
RAM Std.	1GB	Standard	2GB
HDD	Standard	128GB	Standard 320GB
Gigabit Ethernet	Option	Standard	Standard
Starter Toner/ISO	6K	Standard	10K

Sh-P1b vs. Brz-P1

Features	Sh-P1b	Brz-P1
VM Card	Option	Option
RAM Std.	768 MB	2GB
HDD	Standard	Option
Gigabit Ethernet	Option	Standard
Starter Toner/ISO	6K	10K

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No additional notes



1. ADF

Lower the ADF over originals placed on the exposure glass.

If you load a stack of originals in the ADF, the ADF will automatically feed the originals one by one.

2. Exposure glass

Place originals face down here.

3. Control panel

4. Tray Extension

Pull this fence to prevent paper from falling off.

5. Main power switch

To operate the machine, the main power switch must be on. If it is off, open the main power switch's cover and turn the switch on.

6. Paper Tray

Paper is loaded here.

7. Left Cover

Open to access the waste toner bottle.

8. Vents

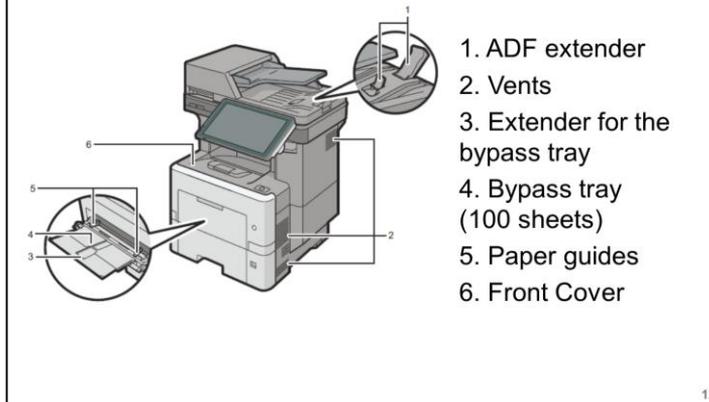
Prevent overheating.

9. Standard Tray

Copied/printed paper and fax messages are delivered here.

Front-Right View – MFP Models

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1. ADF extender

Pull this extender to support large paper.

2. Vents

Prevent overheating.

3. Extender for the bypass tray

Pull this extender out when loading A4 , 8.5 x 11 or larger paper in the bypass tray.

4. Bypass tray

5. Paper guides

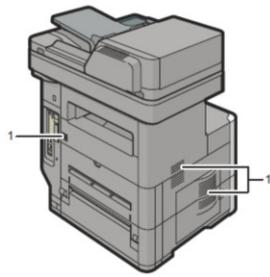
When loading paper in the bypass tray, align the paper guides flush against the paper.

6. Front Cover

Open to access the inside of the machine and remove jammed paper.

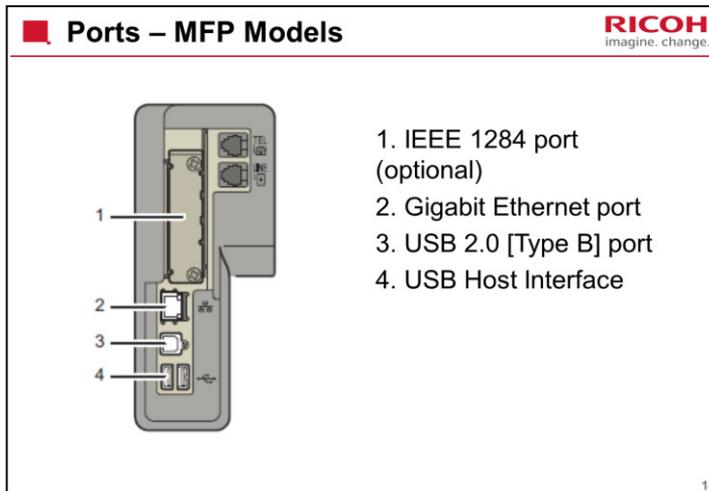
Open here to replace the print cartridge.

Rear View – MFP Models



- 1. Vents

No additional notes



1. IEEE 1284 port (optional)

Port for connecting an IEEE 1284 interface cable

2. Gigabit Ethernet port

Port for using a 1000BASE-T, 100BASE-TX, or 10BASE-T cable

Use this interface to connect the machine to a network.

If you use an Ethernet interface cable that supports 1000BASE-T, set [Ethernet Speed] to [Auto Select: Enable

1Gbps] in [Interface Settings] in [System Settings].

3. USB 2.0 [Type B] port

Port for connecting a USB2.0 [Type B] interface cable

This interface allows the machine to print over USB connection.

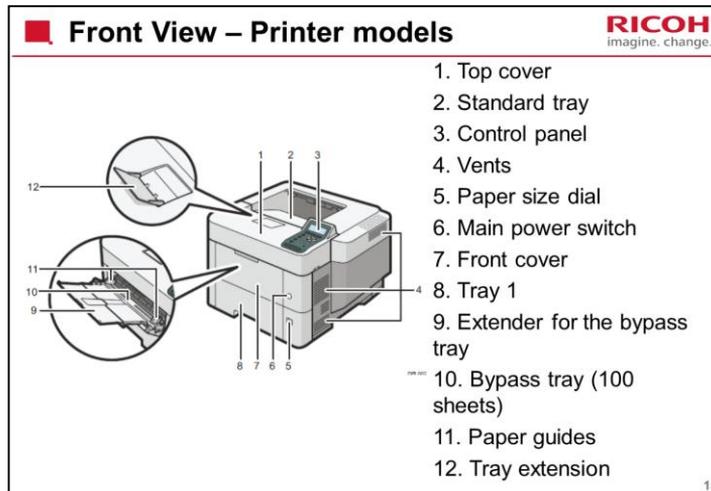
The other end of the USB cable must be connected to the Extended USB Port (optional).

Do not connect to devices other than the machine.

4. USB Host Interface

Port for connecting a USB interface cable or USB interface device

Use this interface to connect the machine to a card authentication device, external keyboard, or Bluetooth.



1. Top cover

Open to access the inside of the printer and remove jammed paper.

Open here to replace the print cartridge.

2. Standard tray

Output is stacked here with the print side down.

3. Control panel

4. Vents

Use this dial to specify the paper size. To use a paper size that is not indicated on the paper size dial, set the dial to “*”. If this is the case, set the paper size using the control panel.

5. Paper size dial

Use this switch to turn the power on and off.

6. Main power switch

Open to access the inside of the printer and remove jammed paper.

Open here to replace the print cartridge.

7. Front cover

Up to 500 sheets of plain paper can be loaded.

8. Tray 1

Pull this extender out when loading A4 , 8 1/2 x 11 or larger size paper in the bypass tray.

9. Extender for the bypass tray

Up to 100 sheets of plain paper can be loaded.

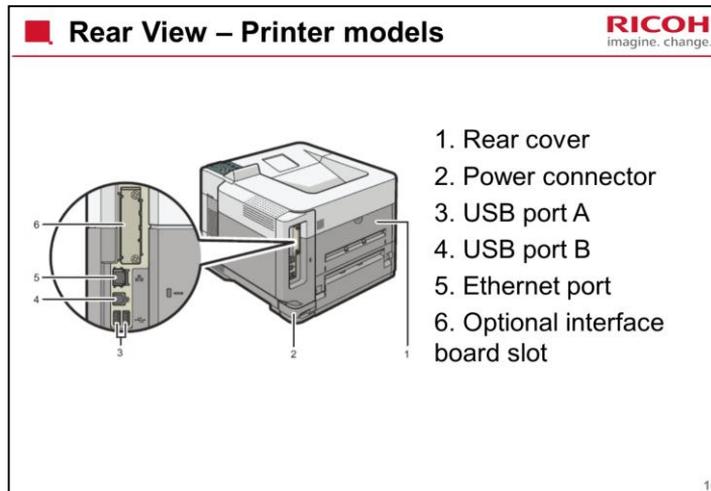
10. Bypass tray (100 sheets)

When loading paper in the bypass tray, align the paper guides flush against

the paper.

12. Tray Extension

Pull this fence to prevent paper from falling off.



1. Rear cover

Open to access the inside of the printer.

Open here to replace the fusing unit.

2. Power connector

Connect the power cord to the printer. Insert the other end into an electrical outlet.

3. USB port A

Connect external devices such as a card authentication device, etc.

4. USB port B

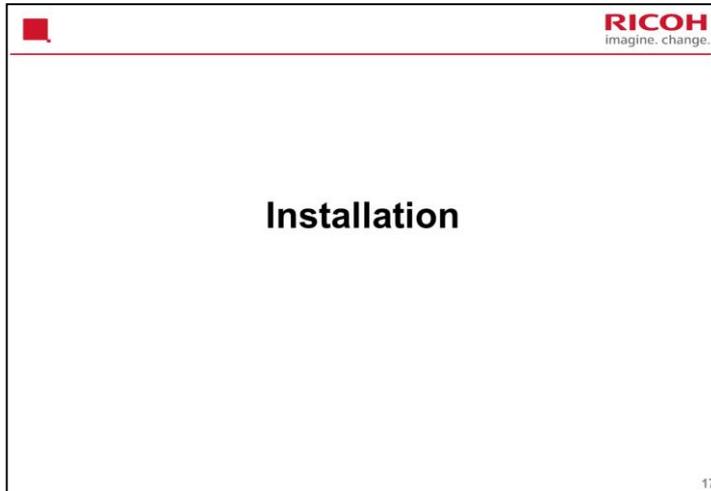
Connect to the USB port of the USB device server. Remove the cover to use this port.

5. Ethernet port

Use a network interface cable to connect the printer to a network.

6. Optional interface board slot

Insert an optional wireless LAN interface board, IEEE 1284 interface board, or USB device server.



This section takes a quick look at the important points about installing the machine. For full details see the service and operation manuals.

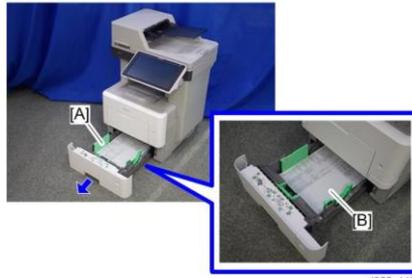
■ Installing the Machine

- This machine is installed by the end user.
- For instructions on unpacking and installing the machine, please refer to the "Quick Installation Guide".
- Note that 'meter click mode' is on as the default setting, which is unusual for machines installed by customers.

No additional notes

■ SMC Report - 1

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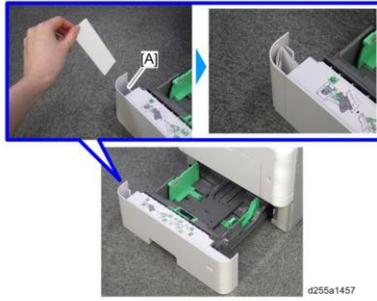


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- The SMC report must be kept with the machine.
- When the machine is shipped, it is inside the paper tray.

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No additional notes



- Take it out, fold it up, and keep it in the storage location as shown above.

No additional notes

■ Installing the Caster Table

- The caster table is installed by the end user, except in the following cases.
 - MFP models: When using the caster table with one or more paper feed units
 - Printer models: When using the caster table with two or more paper feed units
- Stabilizers must be installed to prevent the machine from falling over.

No additional notes

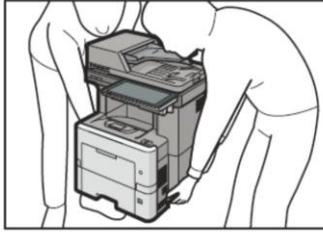
■ Installing a Paper Feed Unit

- The paper feed unit is installed by the end user, except in the following cases.
 - MFP models: When installing the caster table with one or more paper feed units
 - Printer models: When installing the caster table with two or more paper feed units

No additional notes

■ Lifting the Machine

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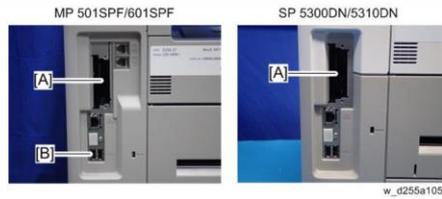
- Lifting the machine requires two people.
- When moving the machine, do not hold the following parts. Doing so may cause them to break.
 - The handle on the standard paper feed tray
 - The underside of the bypass tray

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No additional notes

Controller Options - 1

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- [A] I/F slot
 - USB Device Server Option Type M19
 - IEEE 1284 Interface Board Type M19
 - IEEE 802.11 Interface Unit Type M24
 - Extended USB Board Type M19
 - File Format Converter Type M19 *2
- [B] USB ports *1 Bluetooth Interface Unit Type D *2

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*1 There is no difference between the left and right USB ports.

*2 MP 501SPF/601SPF only

Controller Options - 2

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- [A] SD card slot 1 (option slot)
 - OCR Unit Type M13 *1
 - IPDS Unit Type M24
 - XPS Direct Print Option Type M24
 - VM CARD Type P8 *2
 - Fax Connection Unit Type M24 *1
- [B] SD card slot 2 (service slot) Used for service only (for example, updating the firmware).

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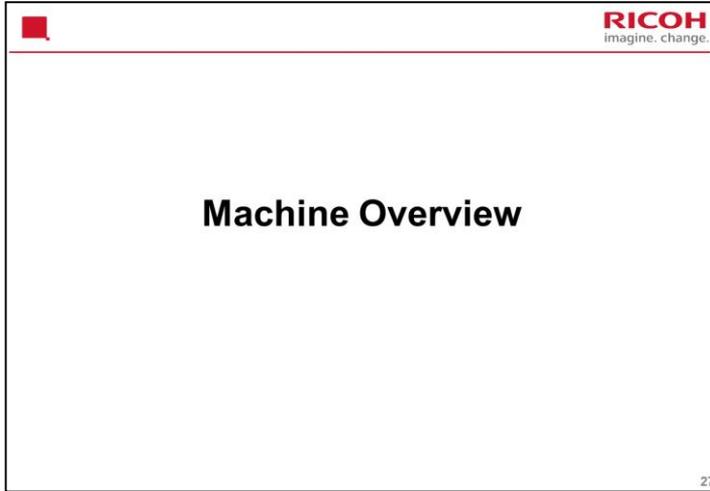
*1 MP 501SPF/601SPF only

*2 SP 5300DN/5310DN only

■ Transporting the Machine

- Before moving the machine a long distance, do the following:
 - Remove the toner cartridge.
 - This prevents toner leaks, which can be caused by vibration during transport.
 - Make sure there is no paper left in the paper trays. Then fix down the bottom plates with a sheet of paper and tape.
 - If the Caster Table Type M24 is installed, remove the four stabilizers.
- See 'Transporting the machine' in the Installation section of the service manual for full details.

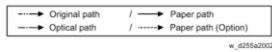
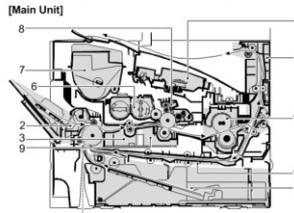
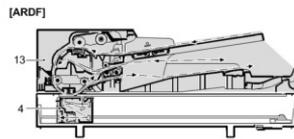
No additional notes



This section takes a quick look at the components of the machine.

Overall Layout (MFP Models)

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1. Paper feed tray
2. Bypass paper feed section
3. Transportation section
4. Scanner unit
5. Laser unit
6. Development unit
7. Toner cartridge
8. Drum unit
9. Transfer/Separation unit
10. Fusing unit
11. Paper exit unit
12. Duplex feed path
13. ARDF

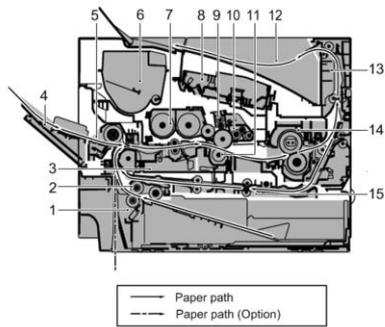
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No additional notes

Overall Layout (Printer Models)

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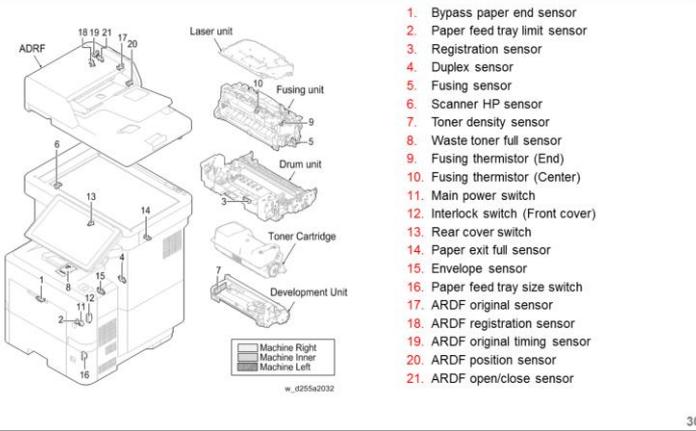
1. Paper feed tray
2. Paper feed section
3. Transportation section
4. Bypass tray
5. Bypass paper feed section
6. Toner cartridge
7. Development unit
8. Laser unit
9. Charge roller unit
10. Drum unit
11. Transfer/Separation unit
12. Paper exit tray
13. Paper exit unit
14. Fusing unit
15. Duplex feed path

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No additional notes

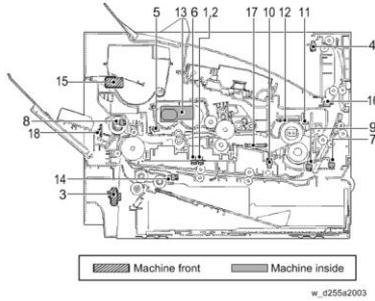
Sensors (MFP Models)



No additional notes

Sensors (Printer Models)

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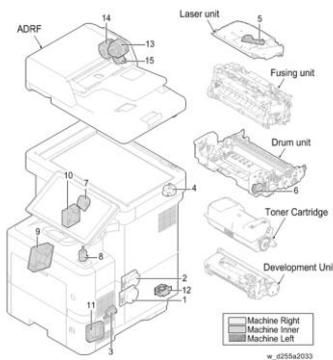
1. Paper end sensor 1
2. Paper end sensor 2
3. Paper feed tray size switch
4. Paper exit full sensor
5. Registration sensor 1
6. Registration sensor 2
7. Duplex sensor 1
8. Bypass paper end sensor
9. Fusing sensor
10. Fusing pressure release sensor
11. Fusing thermistor 1 (End)
12. Fusing thermistor 2 (Center)
13. Toner density sensor
14. Paper feed tray limit sensor
15. Interlock switch (Front cover)
16. Rear cover switch
17. Waste toner full sensor
18. Main power switch

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No additional notes

Drive Unit (MFP Models)

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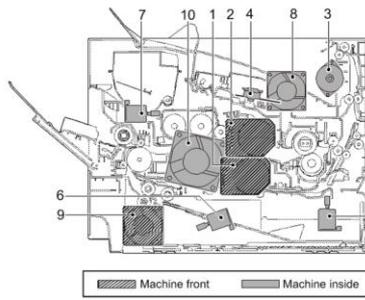
1. Main motor
2. Drum motor
3. Paper feed tray lift motor
4. Scanner motor
5. Polygon motor
6. Toner supply motor
7. Paper exit motor
8. Fusing pressure release motor
9. Development fan motor
10. Laser motor
11. PSU fan motor
12. Controller box fan motor
13. ARDF paper feed motor
14. ARDF paper transport motor
15. ARDF inverter motor

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No additional notes

■ Drive Unit (Printer Models)

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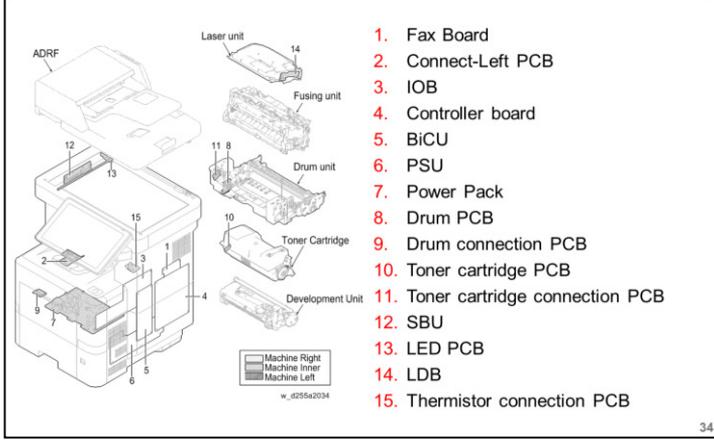


1. Main motor
2. Drum motor
3. Paper exit motor
4. Polygon motor
5. Fusing pressure release motor
6. Paper feed tray lift motor
7. Toner supply motor
8. Laser fan motor
9. PSU fan motor
10. Development fan motor

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No additional notes

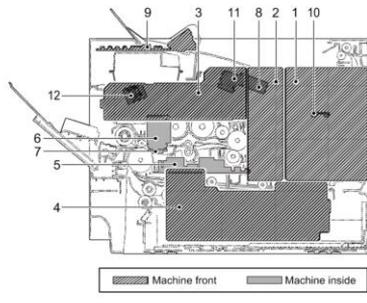
Electrical Components (MFP Models) **RICOH**
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No additional notes

Electrical Components (Printer Models)

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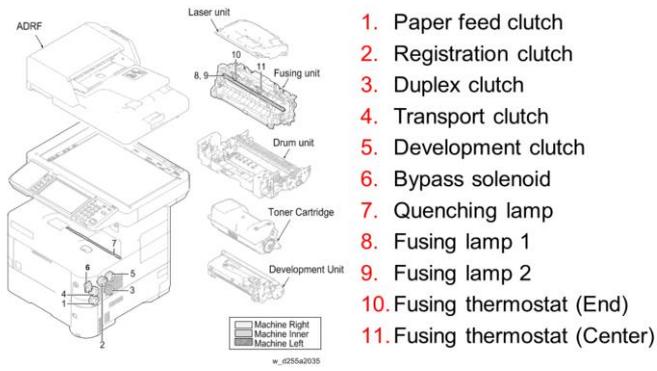
1. Controller board
2. BiCU
3. IOB
4. PSU
5. Power Pack
6. Drum PCB
7. Drum connection PCB
8. Connect-Left PCB
9. OPU Board
10. Thermistor connection PCB
11. LDB
12. Toner cartridge PCB

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No additional notes

Others (MFP Models)

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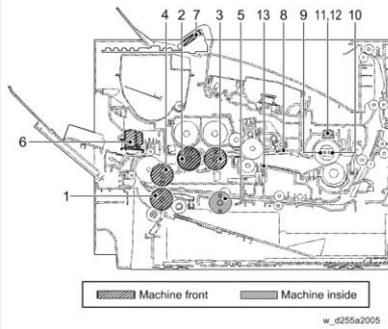


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No additional notes

Others (Printer Models)

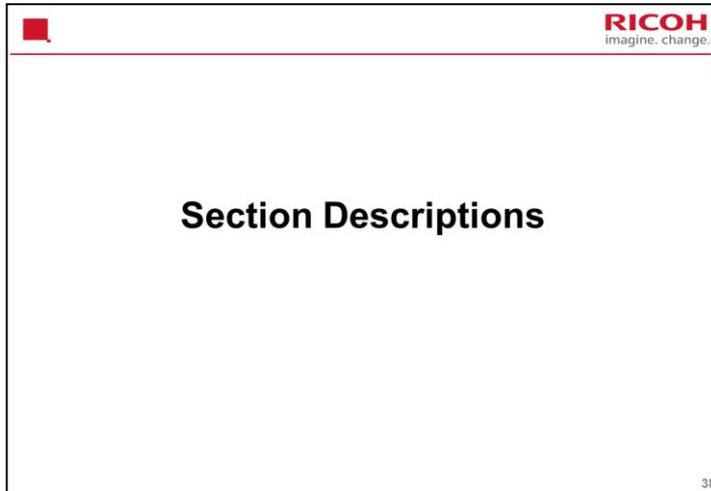
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1. Paper feed clutch
2. Registration clutch
3. Development clutch
4. Transport clutch
5. Duplex clutch
6. Bypass solenoid
7. LCD
8. Quenching lamp
9. Fusing lamp 1
10. Fusing lamp 2
11. Fusing thermostat (End)
12. Fusing thermostat (Center)
13. Drum heater (Asia only)

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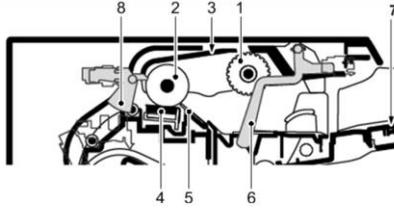
No additional notes



This section takes a look at the components of each section, and any important points about replacing parts.

Original Feed - 1

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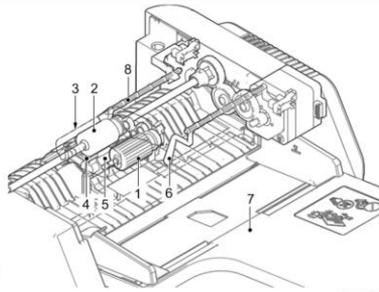
1. ARDF pickup roller
2. ARDF paper feed roller
3. ARDF feed roller holder
4. ARDF separation pad
5. Pre separation pad
6. Actuator (ARDF original sensor)
7. Original tray
8. Actuator (ARDF original timing sensor)

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No additional notes

Original Feed - 2

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1. ARDF pickup roller
2. ARDF paper feed roller
3. ARDF feed roller holder
4. ARDF separation pad
5. Pre separation pad
6. Actuator (ARDF original sensor)
7. Original tray
8. Actuator (ARDF original timing sensor)

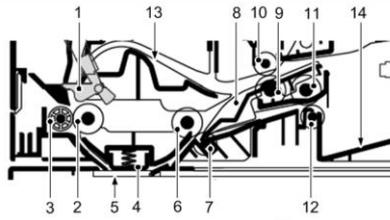
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No additional notes

Original Exit - 1

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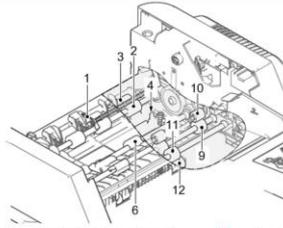
- | | |
|--|------------------------|
| 1. Actuator (ARDF registration sensor) | 8. Junction guide |
| 2. ARDF registration roller | 9. Junction roller |
| 3. ARDF registration pulley | 10. Junction pulley |
| 4. Scanning guide | 11. ARDF exit roller |
| 5. Exposure glass for ARDF | 12. ARDF exit pulley |
| 6. ARDF transport roller | 13. ARDF duplex guide |
| 7. ARDF transport pulley | 14. Original exit tray |

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No additional notes

Original Exit - 2

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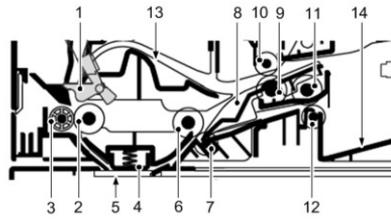
- | | |
|--|------------------------|
| 1. Actuator (ARDF registration sensor) | 8. Junction guide |
| 2. ARDF registration roller | 9. Junction roller |
| 3. ARDF registration pulley | 10. Junction pulley |
| 4. Scanning guide | 11. ARDF exit roller |
| 5. Exposure glass for ARDF | 12. ARDF exit pulley |
| 6. ARDF transport roller | 13. ARDF duplex guide |
| 7. ARDF transport pulley | 14. Original exit tray |

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No additional notes

Original Exit - 3

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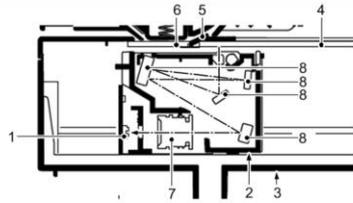
- For duplex scanning, the original is partially fed out to the exit tray by the junction rollers [9,10].
- Then it is fed back in along the duplex path [13].

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No additional notes

Scanner - 1

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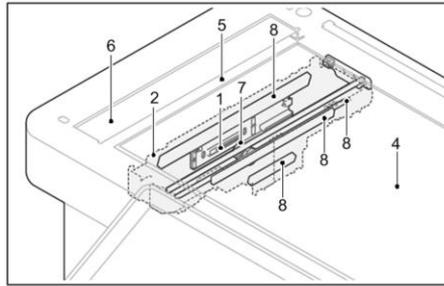
1. CCD
2. Carriage
3. Scanner frame
4. Exposure glass
5. Original size indicator plate
6. Exposure glass (for ARDF)
7. Lens
8. Mirrors

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No additional notes

Scanner - 2

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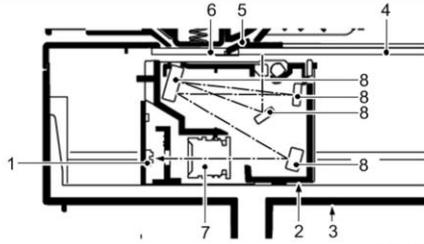
1. CCD
2. Carriage
3. Scanner frame
4. Exposure glass
5. Original size indicator plate
6. Exposure glass (for ARDF)
7. Lens
8. Mirrors

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No additional notes

Scanner - 3



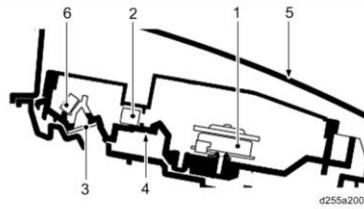
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- If the built-in ARDF is used, the machine feeds the original over the ARDF exposure glass [6].

No additional notes

■ Laser Unit - 1

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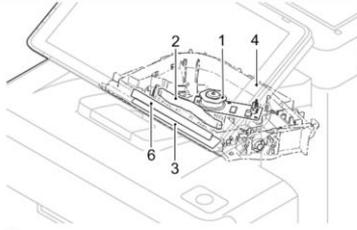
1. Polygon motor
2. fθ main lens
3. Dust shield glass
4. Unit base
5. Unit cover
6. Mirror

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No additional notes

■ Laser Unit - 2

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imagine. change.



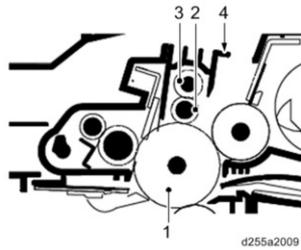
1. Polygon motor
2. f θ main lens
3. Dust shield glass
4. Unit base
5. Unit cover
6. Mirror

48

No additional notes

■ Drum - 1

RICOH
imagine. change.



1. Drum
2. Charge roller
3. Cleaning roller
(Charge roller)
4. Charge roller case

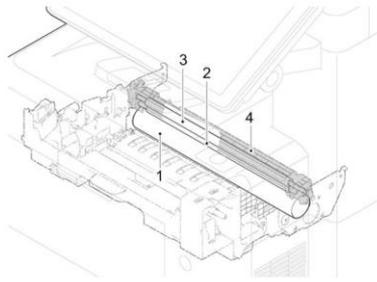
d255a2009

49

There is also a quenching lamp (LED array).

■ Drum - 2

RICOH
imagine. change.



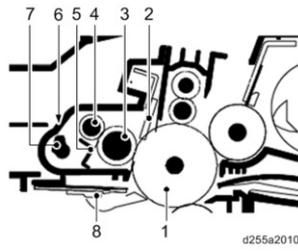
1. Drum
2. Charge roller
3. Cleaning roller
(Charge roller)
4. Charge roller
case

50

There is also a quenching lamp (LED array).

■ Cleaning Unit - 1

RICOH
imagine. change.



d255a2010

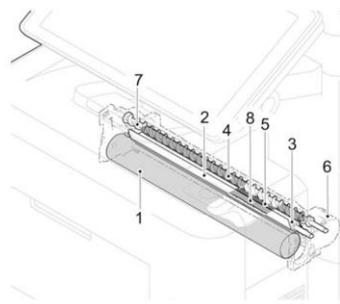
1. Drum
2. Cleaning blade
3. Cleaning roller
4. Control roller
5. Scraper
6. Drum frame
7. Waste toner removal coil (drum coil)
8. Quenching lamp (LED array)

51

No additional notes

■ Cleaning Unit - 2

RICOH
imagine. change.



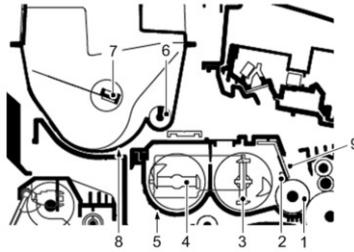
1. Drum
2. Cleaning blade
3. Cleaning roller
4. Control roller
5. Scraper
6. Drum frame
7. Waste toner removal coil
8. Quenching lamp (LED array)

52

No additional notes

Development Unit - 1

RICOH
imagine. change.



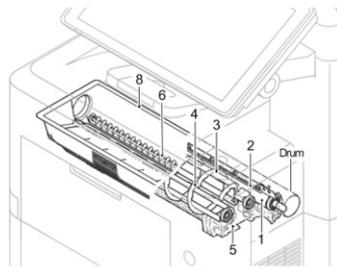
1. Development roller
2. Development blade
3. Development agitator A
4. Development agitator B
5. Development case
6. Toner supply roller
7. Toner agitator
8. Toner cartridge
9. Development blade

53

There is also a sensor to check if toner remains in the development unit.

■ Development Unit - 2

RICOH
imagine. change.



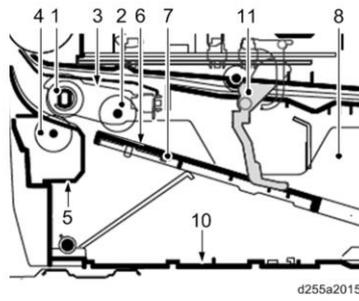
1. Development roller
2. Development blade
3. Development agitator A
4. Development agitator B
5. Development case
6. Toner supply roller
7. Toner agitator
8. Toner cartridge
9. Development blade

54

There is also a sensor to check if toner remains in the development unit.

■ Paper Feed - 1

RICOH
imagine. change.



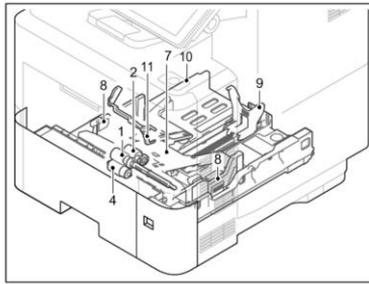
1. Paper feed roller
2. Pickup roller
3. Feed roller holder
4. Separation roller
5. Separation roller holder
6. Friction pad
7. Bottom plate
8. Paper width guide
9. Paper length guide
10. Cassette base
11. Actuator (paper end sensor)

55

No additional notes

■ Paper Feed - 2

RICOH
imagine. change.



0255a2030

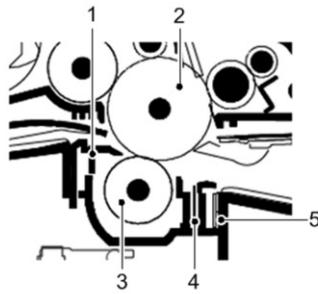
1. Paper feed roller
2. Pickup roller
3. Feed roller holder
4. Separation roller
5. Separation roller holder
6. Friction pad
7. Bottom plate
8. Paper width guide
9. Paper length guide
10. Cassette base
11. Actuator (paper end sensor)

56

No additional notes

Transfer and Separation - 1

RICOH
imagine. change.



1. Transfer guide plate
2. Drum
3. Transfer roller
4. Discharge plate
5. Drum heater (Asia Only)

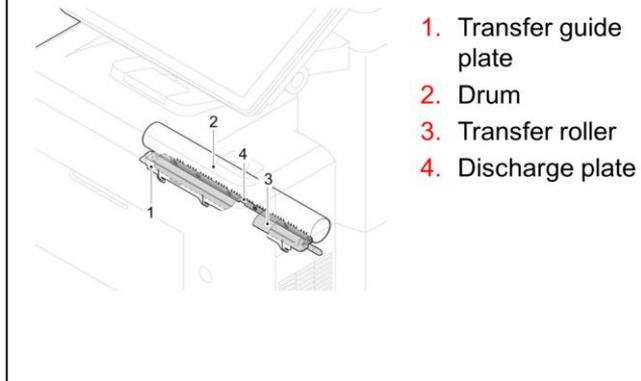
57

The transfer roller transfers toner from the drum to the paper.

The discharge plate discharges the paper, so that it separates from the drum.

Transfer and Separation - 2

RICOH
imagine. change.

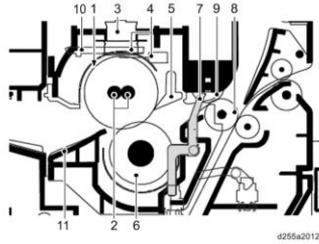


The transfer roller transfers toner from the drum to the paper.

The discharge plate discharges the paper, so that it separates from the drum.

Fusing - 1

RICOH
imagine. change.



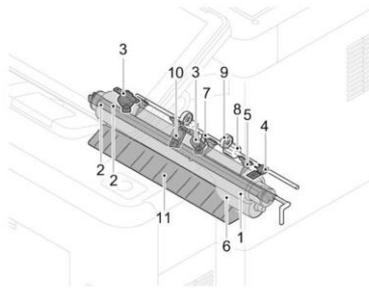
1. Hot roller
2. Fusing lamps
3. Fusing thermostat
4. Fusing thermistor
5. Separators
6. Pressure roller
7. Actuator (Fusing Sensor)
8. Fusing exit roller
9. Fusing exit pulley
10. Fusing thermistor
11. Fusing entrance guide

59

No additional notes

■ Fusing - 2

RICOH
imagine. change.

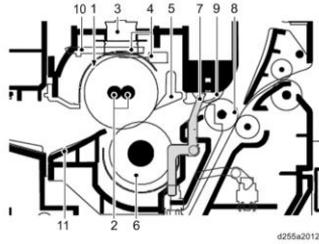


1. Hot roller
2. Fusing lamps
3. Fusing thermostat
4. Fusing thermistor
5. Separators
6. Pressure roller
7. Actuator (Fusing Sensor)
8. Fusing exit roller
9. Fusing exit pulley
10. Fusing thermistor
11. Fusing entrance guide

60

No additional notes

Fusing - 3

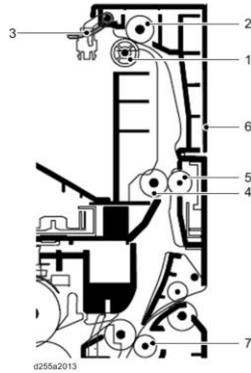


- The hot roller [1] is heated by two fusing lamps [2].
- The pressure roller [6] is pushed against the hot roller by the fusing pressure spring.
- The surface temperature of the hot roller is detected by the fusing thermistor [4]. If the temperature is high, the power will be shut off and the fusing lamps will turn off.

No additional notes

■ Paper Exit - 1

RICOH
imagine. change.



1. Upper paper exit pulley
2. Upper paper exit roller
3. Actuator (Paper tray full sensor)
4. Lower paper exit roller
5. Lower paper exit pulley
6. Paper exit cover (MFP models), Upper cover (Printers)
7. Duplex feed pulley

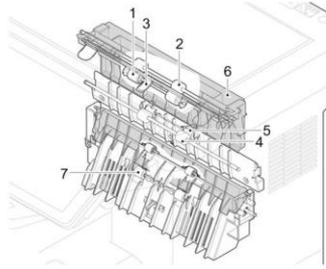
d255a2013

62

No additional notes

■ Paper Exit - 2

RICOH
imagine. change.

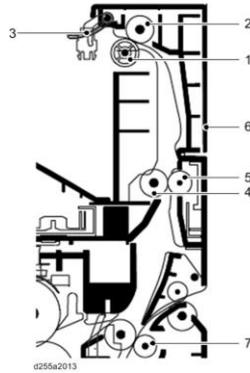


1. Upper paper exit pulley
2. Upper paper exit roller
3. Actuator (Paper tray full sensor)
4. Lower paper exit roller
5. Lower paper exit pulley
6. Paper exit cover (MFP models), Upper cover (Printers)
7. Duplex feed pulley

63

No additional notes

■ Paper Exit - 3



d255a2013

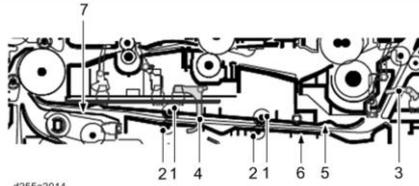
- The lower paper exit rollers [4,5] feed the paper out of the fusing unit.
- For duplex feed, the duplex feed pulley [7] pulls paper down into the duplex feed path.

64

No additional notes

■ Duplex - 1

RICOH
imagine. change.



d255a2014

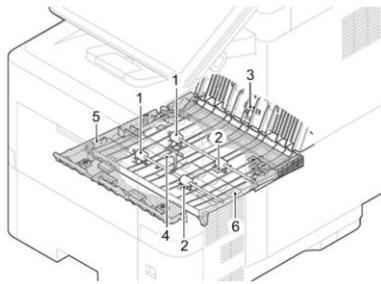
1. Duplex rollers
2. Duplex idle rollers
3. Actuator (Duplex sensor 1)
4. Actuator (Duplex sensor 2)
5. Duplex base
6. Duplex lower guide
7. Feed upper guide

65

No additional notes

■ Duplex - 2

RICOH
imagine. change.



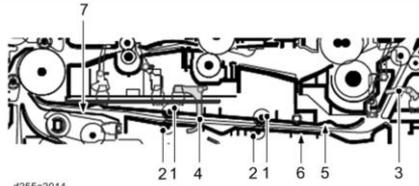
1. Duplex rollers
2. Duplex idle rollers
3. Actuator (Duplex sensor 1)
4. Actuator (Duplex sensor 2)
5. Duplex base
6. Duplex lower guide
7. Feed upper guide

66

No additional notes

■ Duplex - 3

RICOH
imagine. change.



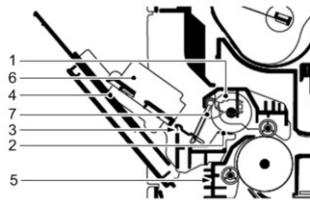
- The paper moves along the duplex feed path and is fed back into the machine for printing on side 2.

67

No additional notes

■ Bypass Tray - 1

RICOH
imagine. change.



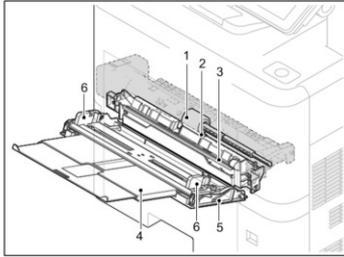
1. Bypass paper feed roller
2. Bypass separation pad
3. Bypass bottom plate
4. Bypass tray
5. Bypass frame
6. Bypass paper width guide
7. Actuator (bypass paper end sensor)

68

No additional notes

■ Bypass Tray - 2

RICOH
imagine. change.



d255a2031

1. Bypass paper feed roller
2. Bypass separation pad
3. Bypass bottom plate
4. Bypass tray
5. Bypass frame
6. Bypass paper width guides

69

No additional notes



This section takes a quick look at the main points about the replacement procedures. For full details, see the service manual.

■ Shutting Down the Machine

RICOH
imagine. change.

MP 501SPF/601SPF



SP 5300DN/5310DN



w_d255a1059

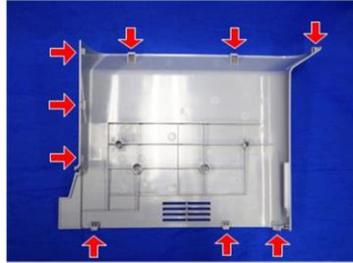
1. Press the main power switch [A] on the machine.
2. The shutdown message appears. After the shutdown process, the main power is turned off automatically. The LED on the operation panel is turned off when the machine completes the shutdown.
3. Take out the power cord after shutdown.
4. Press the main power switch for a second to remove the residual charge inside the machine.

71

No additional notes

■ Removing Covers

RICOH
imagine. change.



d255a1157

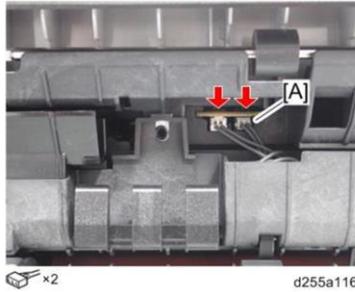
- Most of the covers have hooks. Be careful not to damage these when removing or installing a cover.
- Follow the instructions in the manual carefully when removing a cover.

72

Example: Left upper cover

■ Fusing Unit

RICOH
imagine. change.



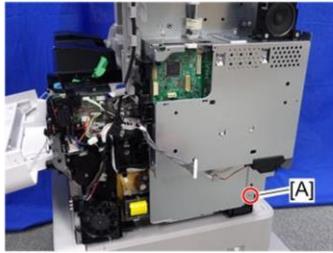
- When connecting the fusing unit after replacement, note that connector [A] is grey. Don't mix them up.

73

No additional notes

Controller Box

RICOH
imagine. change.



d255a1089

- The screw at [A] is a tapping screw. Be careful not to use the wrong screw when installing the controller box.

74

No additional notes

Controller Box Cover

RICOH
imagine. change.



d255a1096

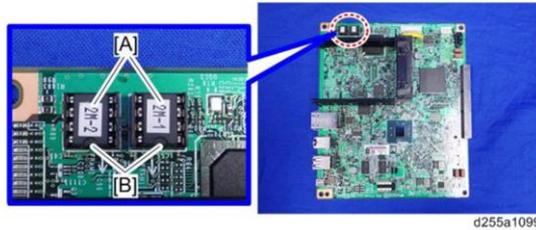
- The screw at [A] is a small screw. Be careful not to use the wrong screw when installing the controller box.

75

The printer model looks a bit different, but the screw in the same place is also a small screw.

Controller Board NVRAMs

RICOH
imagine. change.



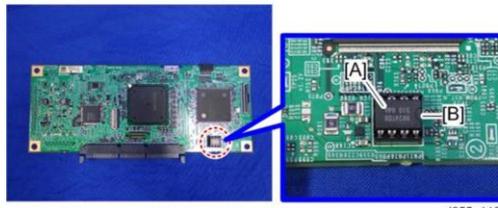
- Remove two NVRAMs [A] from the old controller board and install them on the new controller board.
- Make sure the NVRAM [A] is installed at the correct mounting location and orientation). Install the NVRAM so that the indentation on the NVRAM corresponds with the mark [B] on the controller board.

76

This diagram shows the MFP version. The printer version is almost the same.

■ BiCU Board NVRAM

RICOH
imagine. change.



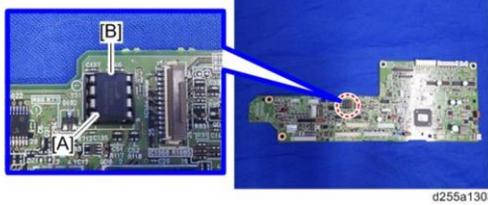
- Remove the NVRAM [A] from the old board and install it on the new board.
- Make sure the NVRAM [A] is installed at the correct mounting location and orientation). Install the NVRAM so that the indentation on the NVRAM corresponds with the mark [B] on the controller board.
- Make sure the serial number is input in the machine for the NVRAM data with SP5-811-004, if not, SC995-001 occurs.

77

No additional notes

IOB Board NVRAM - 1

RICOH
imagine. change.



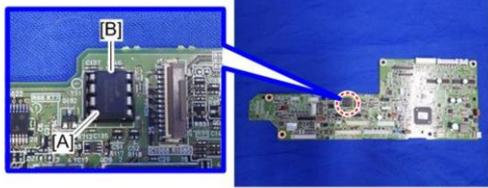
- Remove the NVRAM [A] from the old board and install it on the new board.
- Make sure the NVRAM [A] is installed at the correct mounting location and orientation). Install the NVRAM so that the indentation on the NVRAM corresponds with the mark [B] on the controller board.

78

No additional notes

IOB Board NVRAM - 2

RICOH
imagine. change.



- This NVRAM has a serial number written on it, and it cannot be changed with SP mode.
- So if you need to replace this NVRAM, a new one must be sent from Japan with the machine serial number written on it.
- Contact your supervisor and give the machine's serial number.

79

There is no such problem with the other serial number, which is on the BiCU board.

■ After Replacing the Hard Disk

RICOH
imagine. change.

- In the MFP models, if the customer uses the DataOverwriteSecurity Unit Type M19, NFC Card Reader Type M24, or OCR Unit Type M13, these applications must be installed again.

80

No additional notes

■ Yield Parts - 1

- The following parts should not need to be replaced if the machine is used within normal conditions. So they are not categorized as PM parts.
 - Drum unit
 - Development unit
 - Fusing unit
 - Transfer unit
 - Paper feed roller
 - Pickup roller
 - Separation roller
 - Feed roller assembly (ARDF)
 - Separation pad (ARDF)

No additional notes

■ Yield Parts - 2

- If you have to replace one of the yield parts:
 1. Set SP7-804-002 to "1".
 2. Exit SP mode and replace the part(s).
 3. When you turn the main switch on, the PM counter will be reset.
- For the full procedure, see Preventive Maintenance > Yield Parts Settings in the service manual.

No additional notes



The End