Model: Martini-C3	Date: 29-Jan-08	No.: RB246026

Subject: Differences between the MT-C3.5 and MT-C3	Prepared by: S. Watanabe
From: 2nd Tech Support Sec. Service Support Dept.	

Classification:	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Product Safety	☒ Other ( )	

Differences between the MT-C3.5 and MT-C3

Overview

The MT-C3.5 (D052/D053/D054) is basically the MT-C3 with some minor changes applied. The mechanical parts, controller, and machine layout are the same. There are only four differences, which are listed below:

1. CPM

Each version of the MT-C3.5 is five copies/minute faster than its MT-C3 predecessor. This was achieved not by increasing the printing speed, but by reducing the paper interval (firmware modification).

The following table shows the paper intervals when continuously printing A4/LT-LEF sheets on each model, along with their printing speeds:

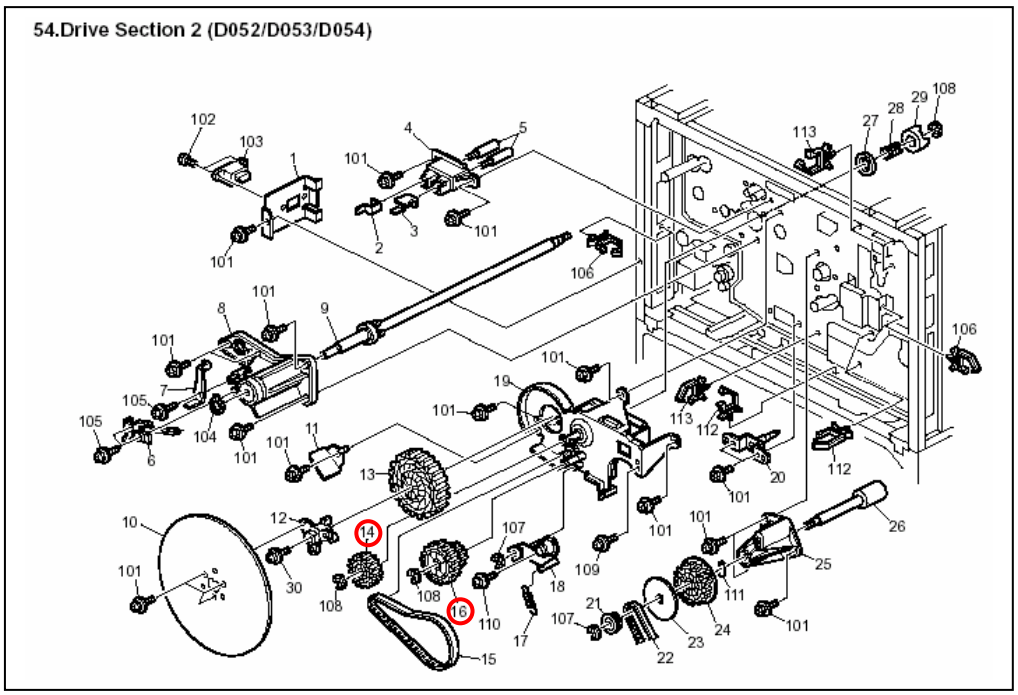
	MT-C3			MT-C3.5		
	CPM	Printing speed	Paper interval (A4/LT)	CPM	Printing speed	Paper interval (A4/LT)
Type a	55	270mm/sec	81.9/75.9mm	60	270mm/sec	57.8/57.5mm
Type b	65	362mm/sec	121.6/115.6mm	70	362mm/sec	98.1/92.1mm
Type c	75	362mm/sec	77.7/71.7mm	80	362mm/sec	59.8/53.8mm

2. Cleaning brush rotation speed

The number of rotations is the same on the MT-C3.5a/b, but on the MT-C3.5c, the rotation speed was increased by 50%. This was in order to prevent blurred images caused by OPC filming. As a result, the brush can more easily wipe foreign particles off the drum surface. The increase in speed was achieved by modifying the mainframe gears (MT-C3.5 Parts Catalog, pg. 121, items 14 and 16).

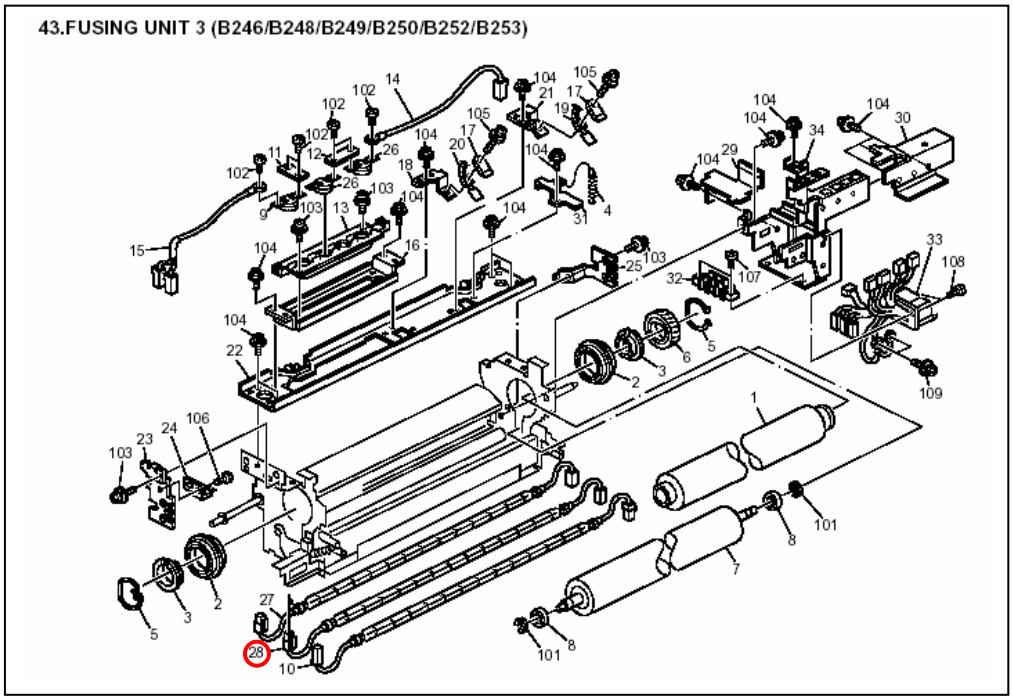
Note: The differences between the mainframe gears on the MT-C3.5a/b and MT-C3.5c are the color and P/N.

- MT-C3a/b/c, C3.5a/b: Black AB011482, AB017640
- MT-C3.5c: White AB011507, AB017760



3. Elimination of the fusing lamp for side heating

The lamp for side heating (listed in the MT-C3 Parts Catalog on pg. 99, item 28) was eliminated on the MT-C3.5c. This is because the warm-up time on this model (60 sec.) is 30 seconds slower than on the MT-C3 (30 sec.), and as a result, there is no need to provide additional heat to the roller ends. It has been confirmed that eliminating this lamp does not affect image quality. This change will make it easier to replace/install fusing rollers in the field.



4. Firmware modifications

It is possible to use the same firmware on both MT-C3 and MT-C3.5 models, **except for the Engine firmware** (the MT-C3 and MT-C3.5 both have their own unique Engine firmware).

The following table shows the part numbers for the MT-C3 and MT-C3.5 Engine firmware:

Firmware Name	MT-C3	MT-C3.5	Unique or Common
Engine	**B2475127**	**D0545127**	**Unique**
System/Copy	B2475101	B2475101	Common
Animation	B2475104	B2475104	Common
Browser	B8285301	B8285301	Common
Fax	B2475108	B2475108	Common
RFax	B8415560	B8415560	Common
FCU	B8195571	B8195571	Common
Language	B2471496	B2471496	Common
Network DocBox	B8415530	B8415530	Common
NCS	B2475102	B2475102	Common
LCDC(NA)	B2471491	B2471491	Common
LCDC(EU)	B2471492	B2471492	Common
LCDC(Asia)	B2461491	B2461491	Common
PS	B5255121	B5255121	Common
Printer	B8415521	B8415521	Common
Scanner	B8415510	B8415510	Common
Web Support	B8415540	B8415540	Common
Web Uapl	B8415550	B8415550	Common

1.1.5 PERIPHERAL/OPTION SUMMARY TABLE

The table below summarizes all the peripheral devices and controller options that can be installed with the B064, B140, and B246 Series machines. O: YES, X: NO

Bnnn	Name	Series			Class*1	Comment
		B064	B140	B246		
B328	Copy Connector Kit Type 2105	X	O	X	1	Links two mainframes.
B377	Punch Unit Type 1045	O	O	X	2	Installed in B468, B469, B674
B452	Key Counter Bracket Type 1027	O	O	O	1	Common option.
B468	Booklet Finisher	O	X	X	1	Punching, sorting, shifting, corner/booklet stapling.
B469	Booklet Finisher SR850	O	O	X	1	Punching, sorting, shifting, corner stapling only.
B470	Cover Interposer Tray	O	O	X	2	Installed on B468, B469, B674, or B478, B706
B471	9-Bin Mailbox	O	O	X	2	Installed on the B468, B469, or B674.
B473	LCT RT43	O	O	O	1	Paper bank for LT/A4 paper
B474	81/2"x 14" Paper Size Tray Type 1075	O	O	O	1	Paper bank for LG paper
B475	A3/11"x17" Tray Unit Type 1075	O	O	O	1	Installed in Tray 1 (Tandem Tray)
B476	Copy Tray Type 1075	O	X	X	2	Small output tray for mainframe
B478	3000 Sheet Finisher	O	X	X	1	Punching, sorting, shifting, corner stapling only.
B498	Card Reader Bracket	O	O	O	1	Connected directly to the mainframe.
B499	Tab Sheet Holder Type 3260	O	O	O	2	Installed in Tray 1 (Tandem Tray)
B513	Output Jogger Unit Type 1075	X	O	O	2	Installed in B478 or B706
B515	IEEE 801.11b	O	X	X	3	Board
B519	File Format Converter	O	X	X	3	Board
B525-08	Postscript 3 Type 1075	O	X	X	3	DIMM
B525-15	Postscript 3 Type 2075	X	O	X	3	SD card
B525-44	Postscript 3 Type 7500	X	X	O	3	SD card
B525-01	USB 2.0	O	O	O	3	Board
B531-27	Punch Unit Type 1075 EU 2/4	O	O	O	2	Installed in B478 or B706.
B531-17	Punch Unit Type 1075 NA 3/2	O	O	O	2	Installed in B478 or B706.
B581	IEEE 1394 Interface Board Type B	X	X	O	3	Board
B585	Memory Unit Type D 2075 256MB	X	O	X	3	Memory
B594	Network Interface Board Type 2105	X	O	X	3	Board
B596-01	USB 2.0 Interface Board Type B	X	O	X	3	Board
B609-04	File Format Converter Type C	X	X	O	3	Board
B609-01	File Format Converter Type B	X	O	X	3	Board
B659	Printer/Scanner Kit Type 2075	X	O	X	3	SD card

Bnnn	Name	Series			Class*[1]	Comment
		B064	B140	B246		
B660	Z-folding Unit ZF 4000	X	O	O	1	Installed with B674, B700, or B701.
B674	Booklet Finisher	X	O	X	1	Punching, sorting, shifting, corner/booklet stapling.
B679	IEEE1284 Interface Board Type A	X	X	O	3	Board
B700	SR 4000	X	X	O	1	Punching, sorting, shifting, corner/booklet stapling.
B701	SR970	X	X	O	1	Punching, sorting, shifting, corner stapling only.
B702-27	Punch Unit Type 3260 EU 2/4	X	X	O	2	Installed in B700 or B701
B702-17	Punch Unit Type 3260 NA 2/3	X	X	O	2	Installed in B700 or B701
B702-28	Punch Unit Type 3260 SC	X	X	O	2	Installed in B700 or B701
B703	Output Jogger Unit Type 3260	X	X	O	2	Installed on B700 or B701
B704	Cover Interposer Type 3260	X	X	O	2	Installed on the B700, B701, B706.
B706	SR841	X	O	O	1	Punching, sorting, shifting, corner stapling only.
B735	Data Overwrite Security Unit C	X	O	O	3	SD card
B736	Bluetooth Interface Unit Type 3245	X	O	X	3	Board
B756	Copy Tray Type 2075	X	O	O	1	Small output tray for mainframe
B762	Mail Box CS391	X	X	O	2	Installed on B700 or B701
B782	VM Card Type B	X	O	X	3	SD card
B812	Punch Unit Type 850 SC	O	O	O	2	Installed in B478/B706.
B818	Remote Communication Gate Type CM1	X	X	O	3	Board
B825	USB Host Interface Unit Type A	X	X	O	3	Board
B826	Bluetooth Unit Type 3245	X	X	O	3	Board
B828	Browser Unit Type B	X	X	O	3	SD card
B829	Copy Data Security Unit Type C	X	X	O	3	IPU Board
B841	Printer/Scanner Unit Type 7500	X	X	O	3	SD Card
D406	Printer/Scanner Unit Type 8000	X	X	O	3	SD Card (D052/D053/D054)
B842	Copy Connector Type MP 7500	X	O	O	1	Links two mainframes
B861	VM Card Type C	X	X	O	3	SD card
G336	IEEE 1394	O	X	X	3	Board
G338	Printer/Scanner Kit	O	X	X	3	DIMM
G377	Bluetooth Interface Unit	X	O	X	3	Board
G381	Gigabit Ethernet Type 7300	X	X	O	3	Board
G813	IEEE 802.11b Interface Board	X	O	O	3	Board
B819	FAX OPTION TYPE 7500	X	X	O	3	Board
B820	G3 INTERFACE UNIT TYPE 7500	X	X	O	3	Board

*1 Class 1: Peripheral units connected directly to the mainframe
Class 2: Components installed on or in peripheral units (punches, etc.)
Class 3: MFP controller options (SD cards, boards)

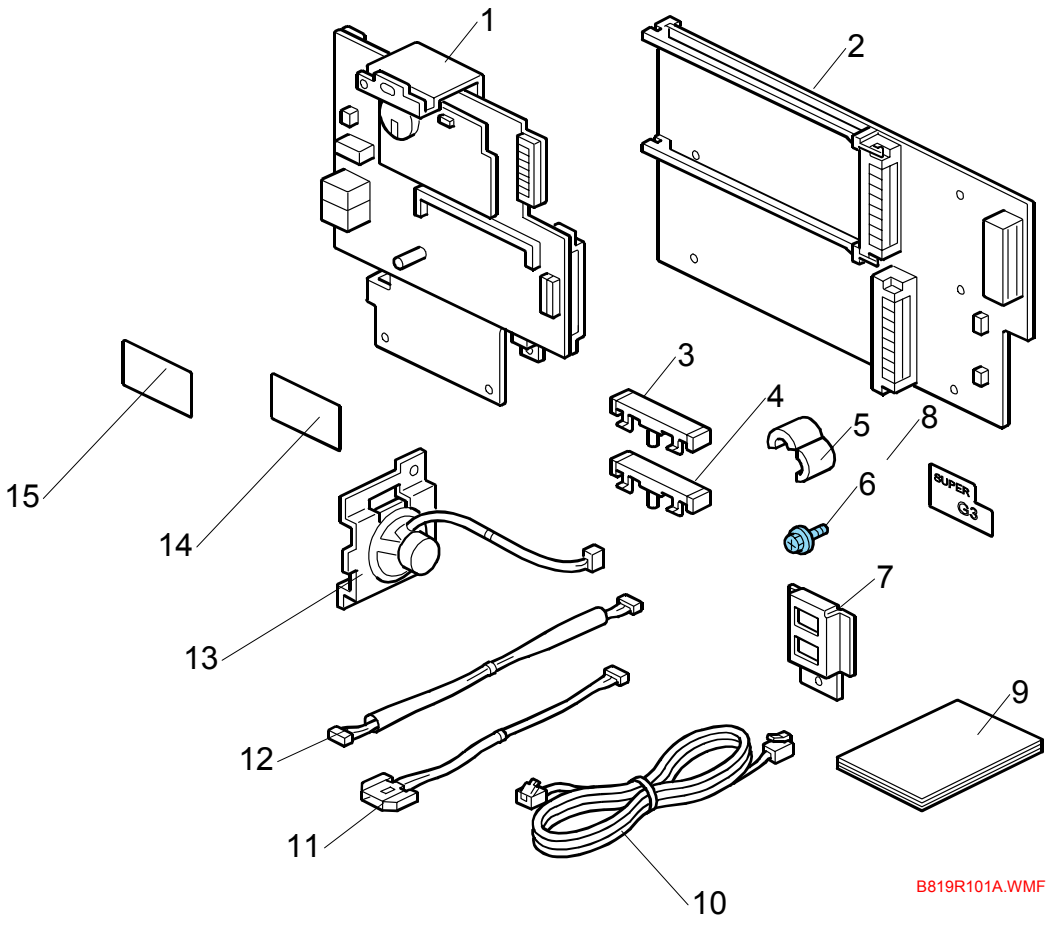
1.26 FAX OPTIONS: B246 SERIES

1.26.1 FAX OPTION TYPE 7500 (B819)

ACCESSORY CHECK

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

No.	Description	Q'ty
1.	FCU	1
2.	Interface Board	1
3.	Keytop (NA)	1
4.	Keytops (Symbol)	1
5.	Ferrite Core	1
6.	Screws (Blue M3 x 6)	9
7.	Fax Connector Bracket	1
8.	Super G3 Decal	1
9.	Instructions	1
10.	Telephone Cable (NA only)	1
11.	FCU Power Harness	1
12.	FCU Power Relay Harness (insulated)	1
13.	Speaker	1
14.	FCC Decal (NA Only)	1
15.	Serial Number Decal	1



Installation Procedure

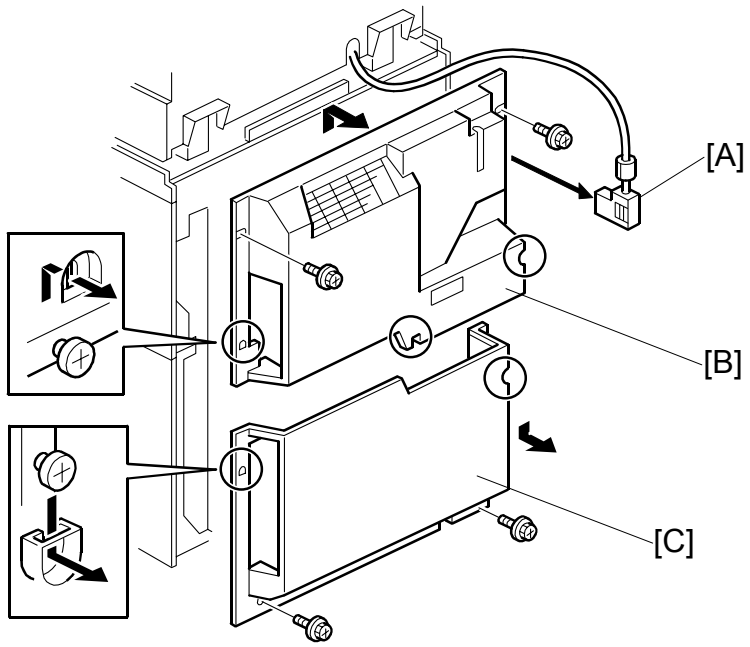
FCU installation

⚠CAUTION

Before installing this fax unit:

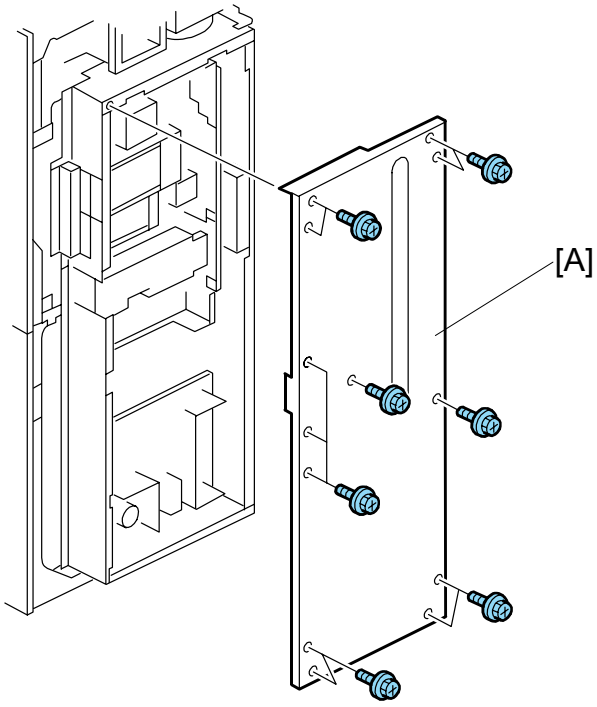
1) Print out all data in the printer buffer.

2) Turn off the main power switch and disconnect the power cord and the network cable.



B819R102.WMF

1. Disconnect the ADF connector [A].
2. Remove the rear upper cover [B] (☞ x 2)
   - Slide down to remove.
   - When re-attaching, before tightening the screws make sure that the tabs on the cover are engaged with the shoulder screws.
3. Remove the rear lower cover [C] (☞ x 2)
   - When re-attaching, before tightening the screws make sure that the tabs on the cover are engaged with the shoulder screws.



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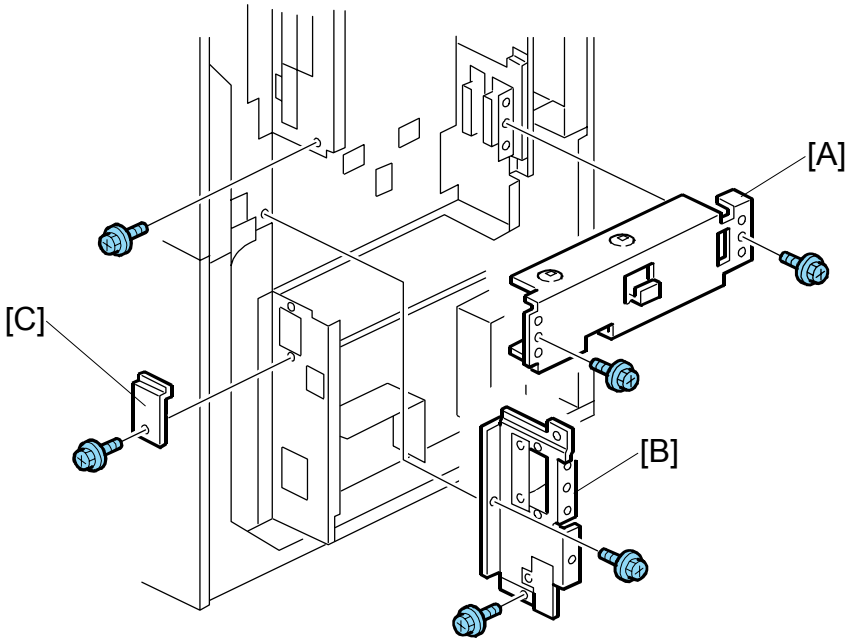
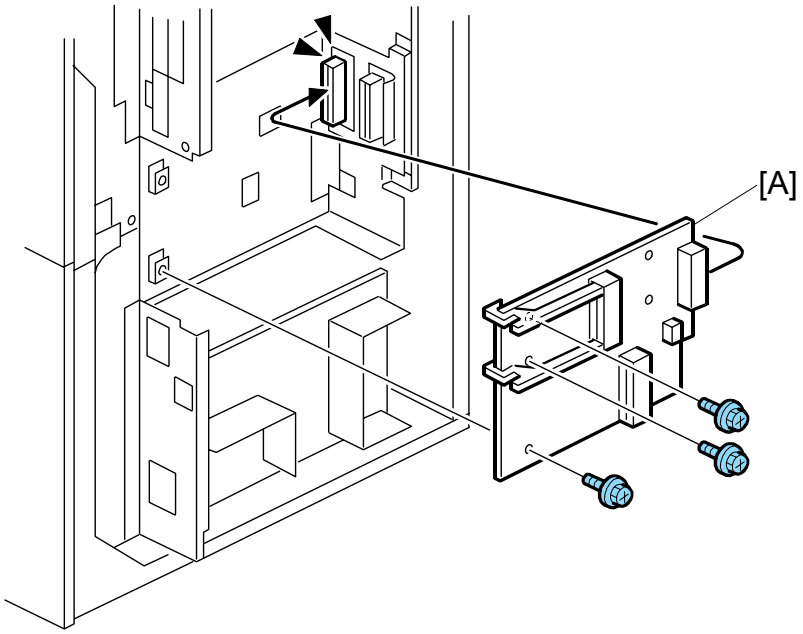
4. Remove the controller box cover [A] (x13).

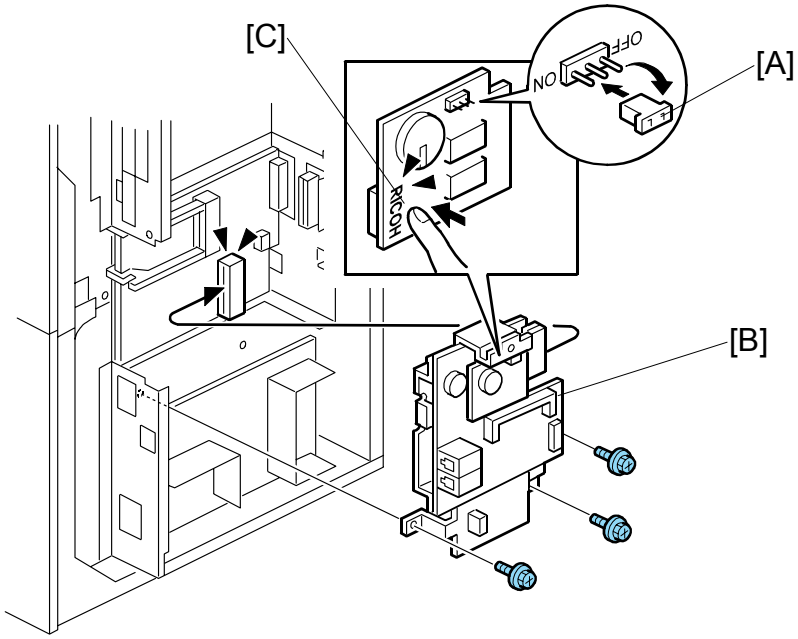


5. Remove the option board cover [A] (🔩 x2).
6. Remove the option faceplate [C] (🔩 x3).
7. Remove the cover plate [D] (🔩 x1).



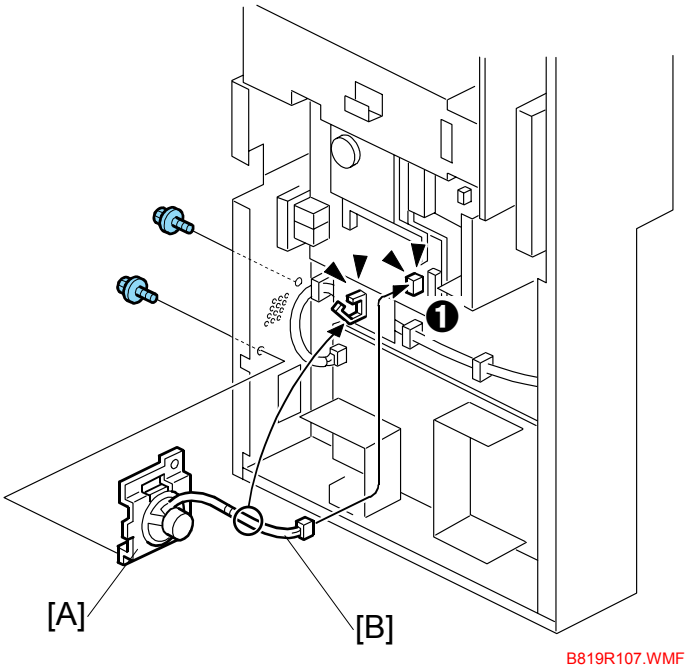
B819R105.WMF

8. Attach the interface board [A] (x3).

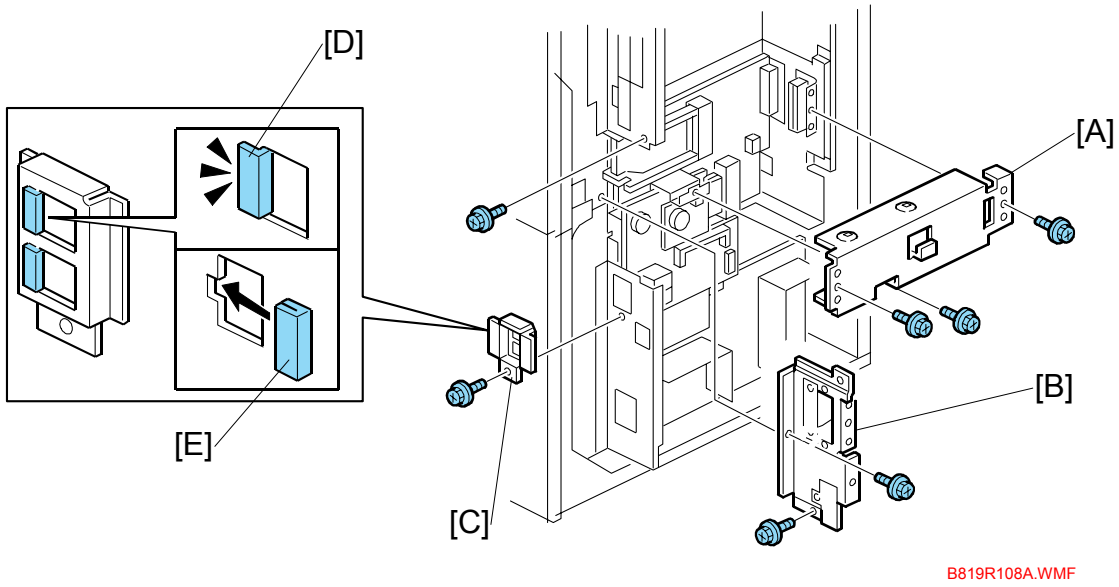


B819R106.WMF

9. Remove the jumper [A] on the MBU and set it to the ON position.
   Important: If the jumper remains at the OFF position this will cause SC672 (Controller Startup Error) to appear.
10. Attach the FCU [B] to the interface board (x4).
11. Press on the "RICOH" logo at [C] to confirm that the MBU is securely mounted on the FCU.

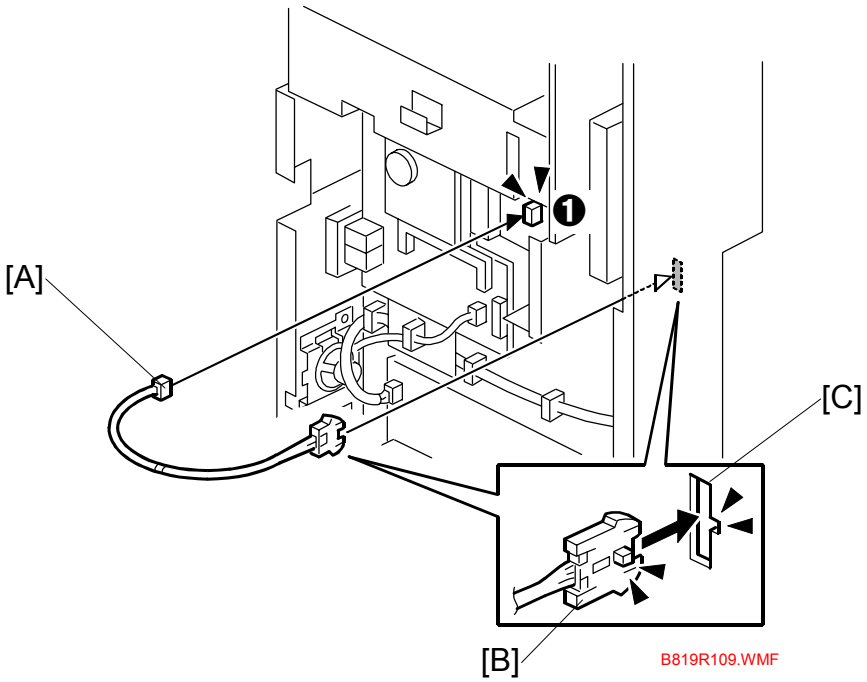


12. Attach the speaker [A] to the side of the controller box (x2).
13. Connect the speaker harness [B] to **CN605 ❶** on the FCU (x1, x2).

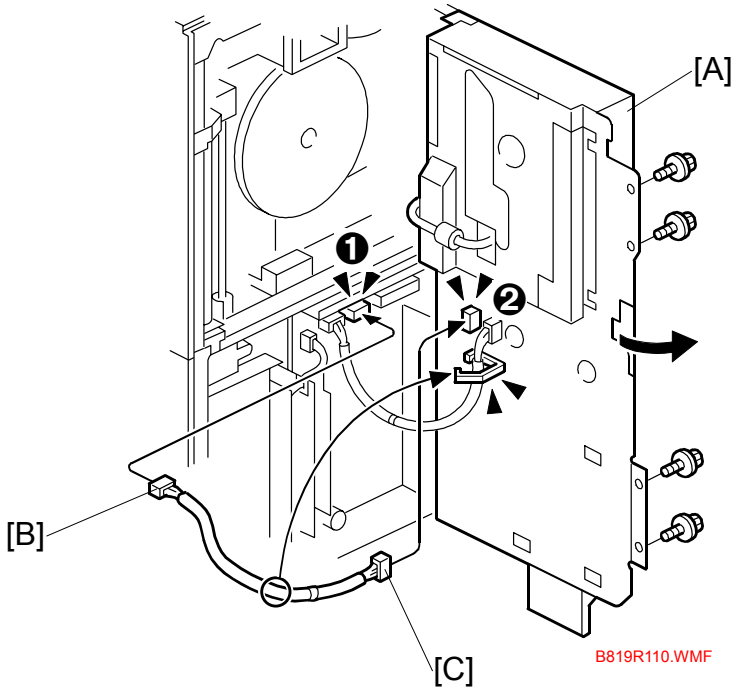


14. Reattach the option board cover [A] removed in Step 5 (☞ x2).
15. Reattach the option faceplate [B] removed in Step 6 (☞ x3).
16. Attach the fax connector bracket [C] (☞ x1).

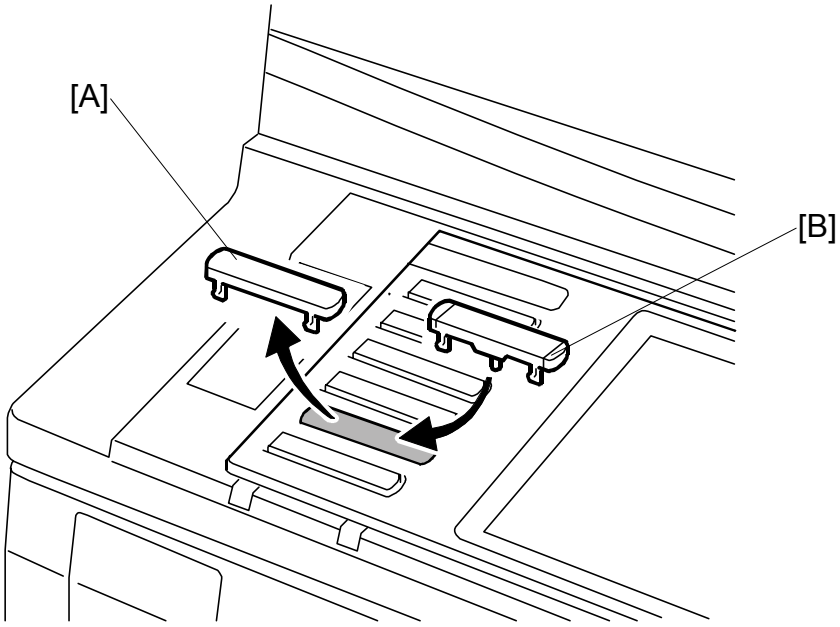
    NOTE: Make sure that the protective sleeves [D] and [E] are attached properly.



17. Connect the small end of the FCU power harness [A] to **CN323** ❶.
18. Set the large end of the harness [B] into the vertical cutout [C].

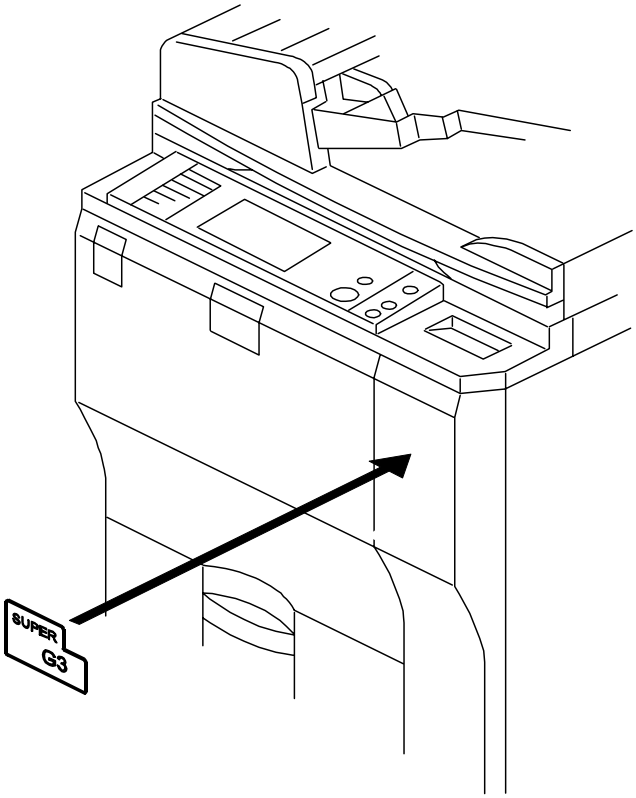


19. Remove the screws of the controller box [A] then open it (x4).
20. Connect one end of the FCU power relay harness [B] to **CN121** on the PSU ❶ (x1).
21. Connect the other end of the FCU power relay harness [C] to the harness connector set in the vertical cutout at ❷ (the connector set in Step 18) (x1, x1).



B819R111A.WMF

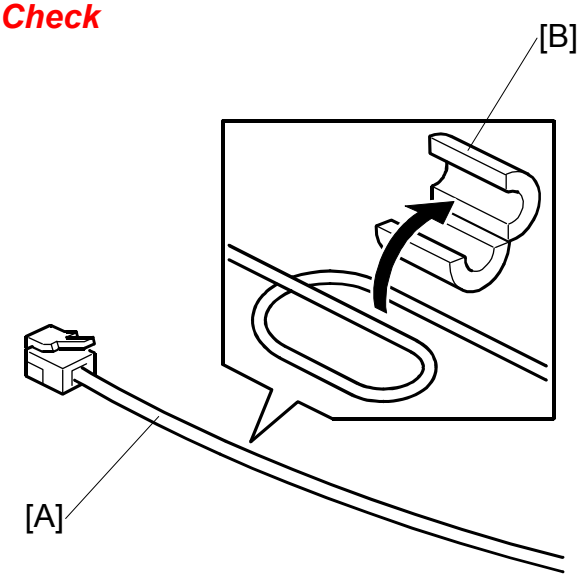
22. Remove the blank keytop [A] (5th from the top) and replace it with one of the keytops provided [B] (either the "Facsimile" keytop or the fax symbol keytop).



B819R112A.WMF

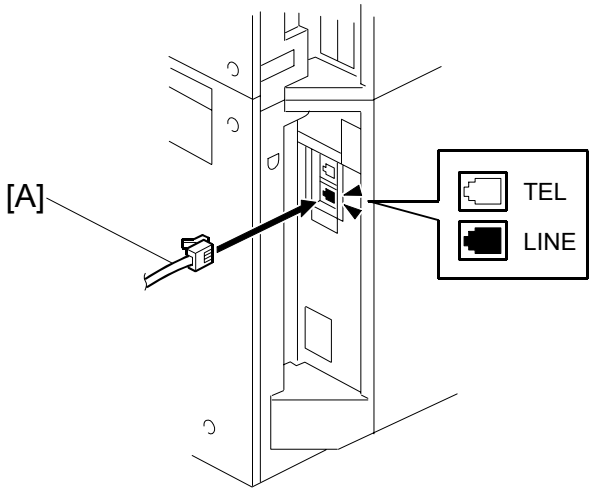
23. Attach the "Super G3" decal to the front door.
24. Attach the FCC and serial number decals to the rear cover of the machine..
    NOTE: The FCC decal is for the U.S. and Canada only.

Line Connection and Check



B819R113.WMF

1. Loop one end of the telephone cable [A] once, then enclose it with the ferrite core [B] as shown.
   NOTE: Attach the ferrite core at least 9 cm (3.5 in.) from the connector.



B819R114.WMF

2. Insert the end of the telephone cable [A] with the ferrite core into the "LINE" RJ-45 connector.
3. Reattach all covers and the ADF cable.
4. Connect the machine power cord to the power supply, then switch on the main power switch.

5. Go into the SP mode and confirm that the fax SP codes are enabled.
   - Push [Reset], enter "107", then hold down "Clear/Reset" for at least 3 sec.
   - At the initial screen, confirm that "Fax SP" is displayed. This indicates that the machine recognizes the fax unit.
6. Confirm that the date and time setting are correct.
   Push [User Tools] then touch "System Settings"> "Timer Settings"> "Set Date" and "Set Time".

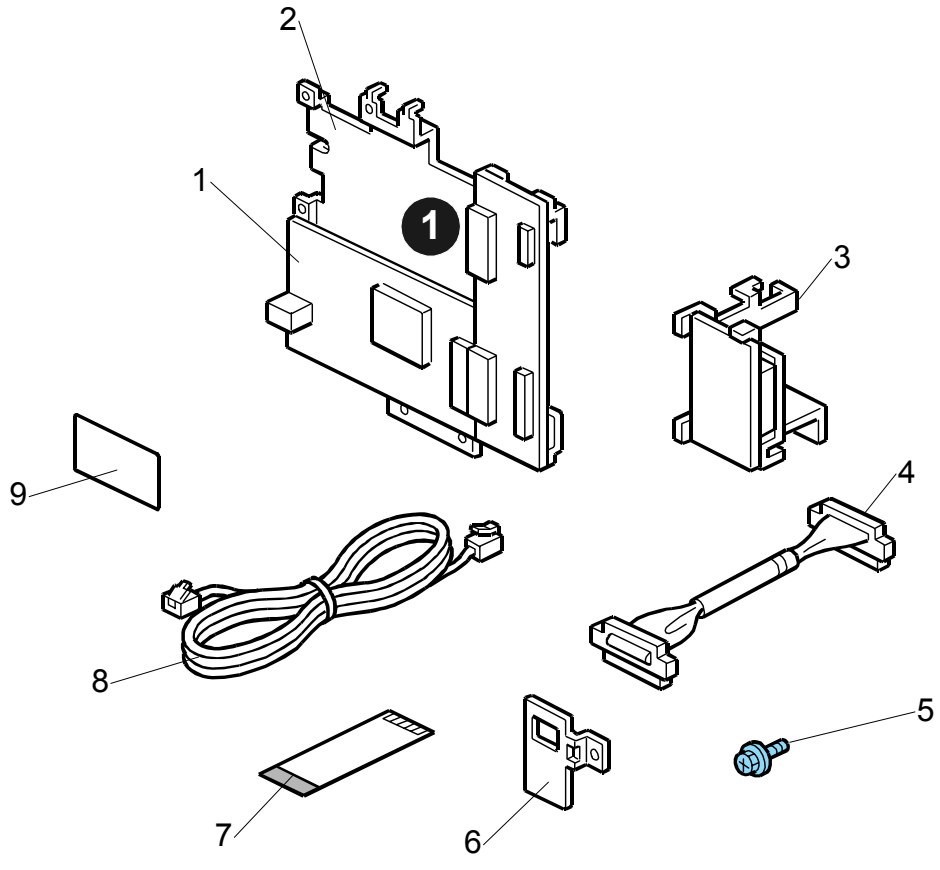
1.26.2 G3 INTERFACE UNIT TYPE 7500 (B820)

ACCESSORY CHECK

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

No.	Description	Q'ty
1.	G3 Interface Board (attached)	
2.	G3 Interface Unit*1	1
3.	CCU Drive Board	1
4.	CCUIF Harness	1
5.	Screws (Blue M3 x 6)	5
6.	G3 Connector Bracket	1
7.	FFC (Flat Film Connector)	1
8.	Telephone Cable (NA Only)	1
9.	FCC Decal (NA Only)	1

***1** One additional G3 interface unit (ordered separately) can be mounted in the open slot of the G3 interface board.



B820R101A.WMF

Installation Procedure

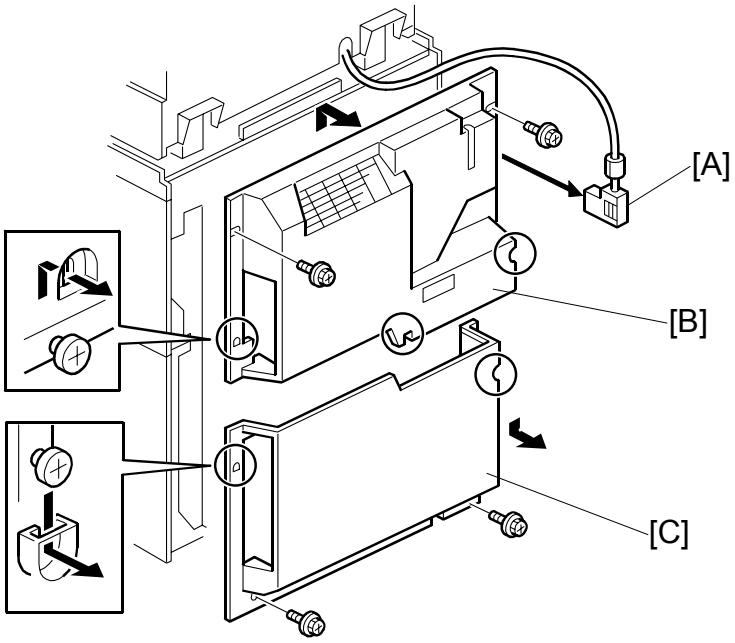
G3 Board Installation

⚠CAUTION

Before installing this optional unit,

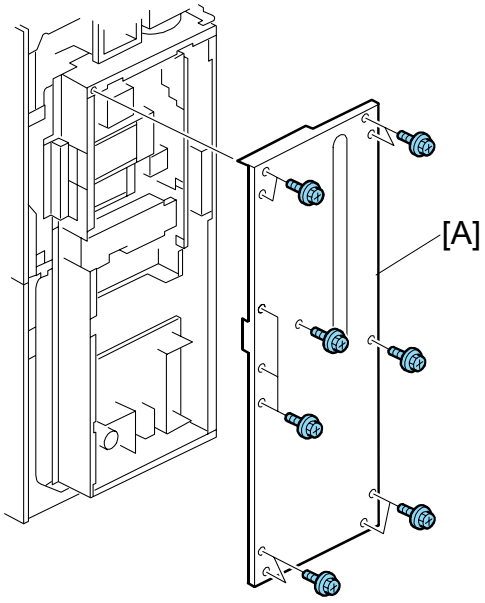
1) Print out all data in the printer buffer.

2) Turn off the main switch and disconnect the power cord and the network cable.



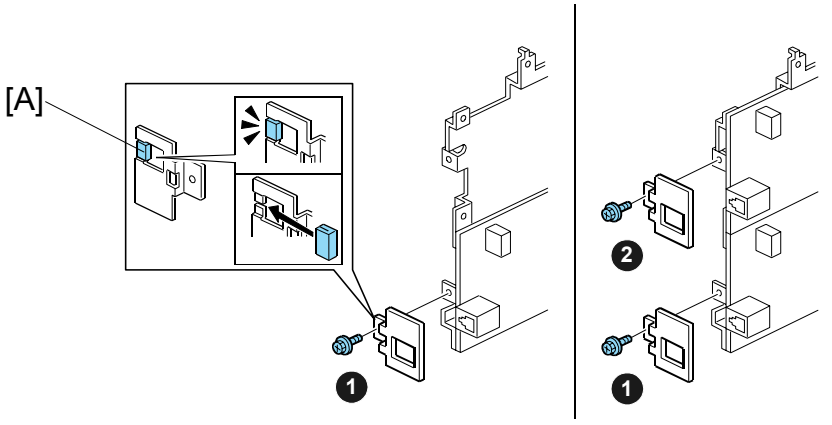
B820R102.WMF

1. Disconnect the ADF connector [A].
2. Remove the rear upper cover [B] (☞ x 2)
   - Slide down to remove.
   - When re-attaching, before tightening the screws make sure that the tabs on the cover are engaged with the shoulder screws.
3. Remove the rear lower cover [C] (☞ x 2)
   - When re-attaching, before tightening the screws make sure that the tabs on the cover are engaged with the shoulder screws.



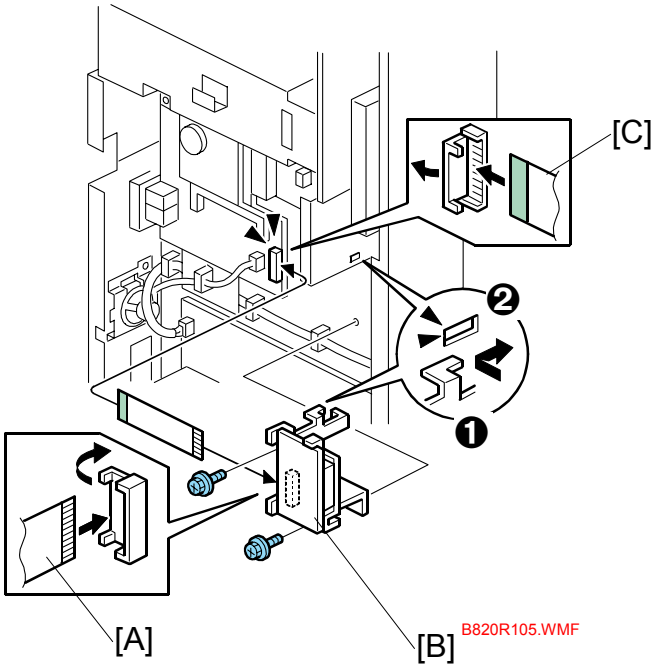
B820R103.WMF

4. Remove the controller box cover [A] (x13).



B820R106.WMF

5. If installing single-line G3, remove only one blind cover ❶.
   -or-
   If installing dual-line G3, remove two blind covers ❶ and ❷.
   NOTE: Make sure the protective sleeve [A] is attached properly.



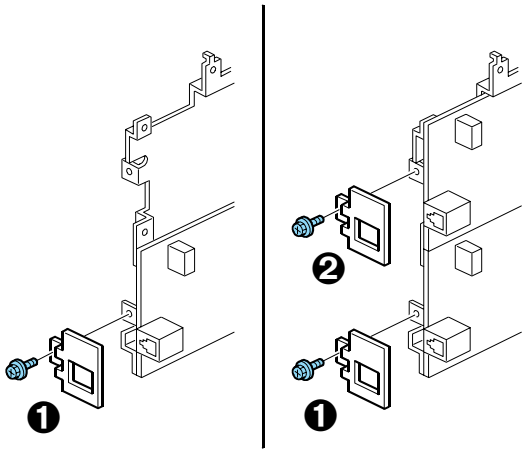
6. Connect the FFC [A] (Flat Film Connector) to the CCU drive board [B].

   Important: Connect the FFC with the green, insulated side visible and the bare connector strip down so it touches the connector strip of the board.

7. Attach the CCU drive board [B] to the machine
   - Set the hook ❶ of the bracket into the slot ❷ in the frame.
   - Fasten the CCU drive board with the screws (x2).

8. Connect the other end of the FFC [C] to the FCU.

   Important: Connect the FFC with the green, insulated visble and the bare connector strip down so it touches the connector strip of the board.

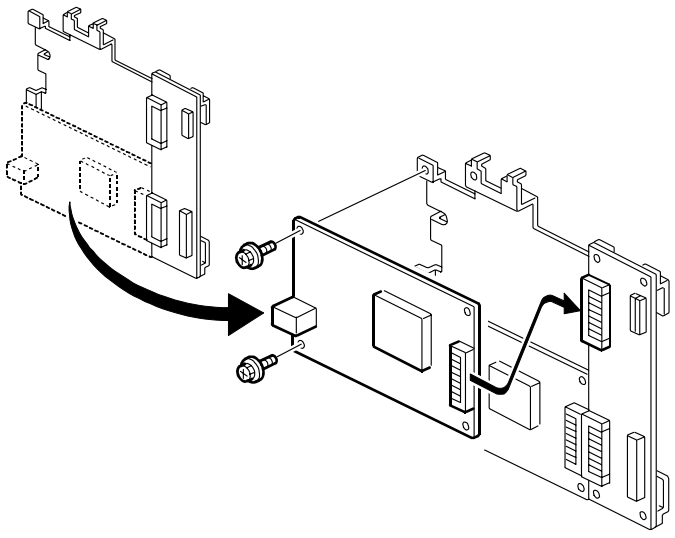


B820R106.WMF

9. Attach the connector bracket to the G3 expansion board (🔩 x1).
10. If one G3 line is being installed, attach the connector bracket ❶ as shown on the left..

    -or-

    If two G3 lines are being installed, attach the connector brackets ❶, ❷ as shown on the right.

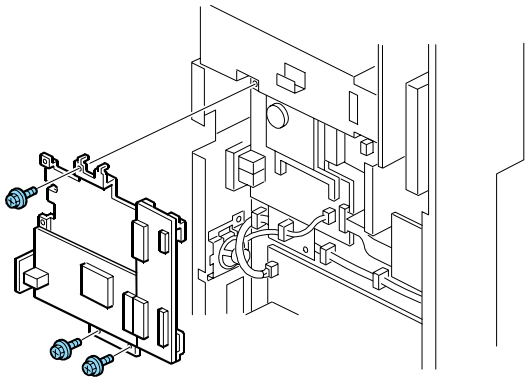


B820R107.WMF

11. If only one G3 line is being installed, go to the next step.

    -or-

    If two lines are being installed, insert the 2nd G3 board [A] into the empty slot of the interface unit and fasten it (🔩 x2).



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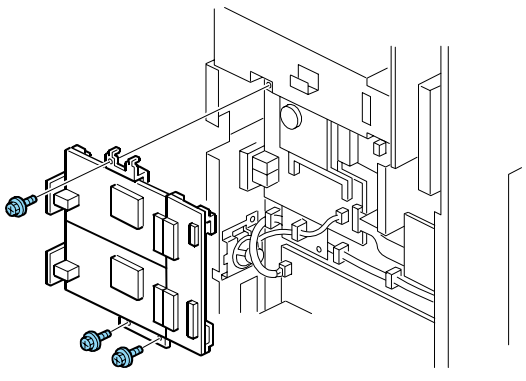

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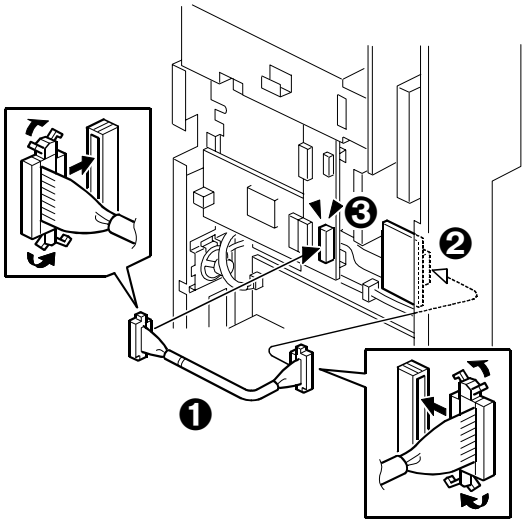
12. Attach the G3 interface unit (x3)

NOTE: The illustration on the left shows the single G3 board installation and the illustration on the right shows the dual G3 board installation.



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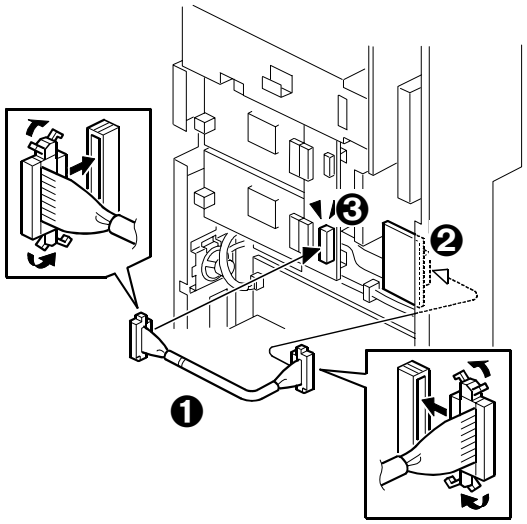


B820R111.WMF

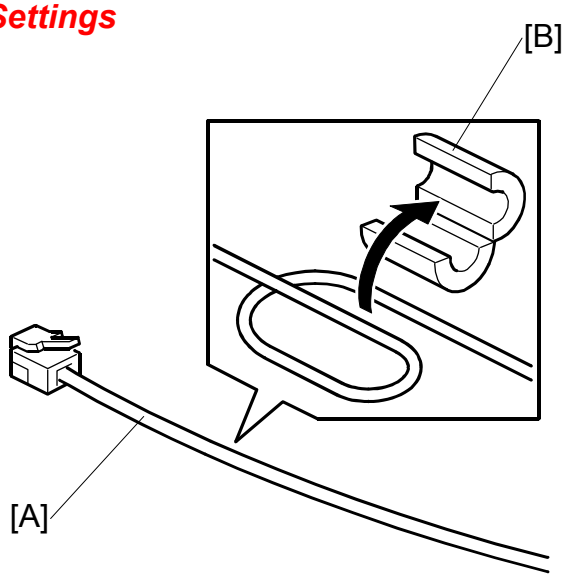
13. Connect the CCUIF harness ❶ to the CCU drive board ❷ and CCU I/F ❸.

NOTE: The illustration on the left shows the single G3 board installation and the illustration on the right shows the dual G3 board installation.

14. Reinstall all covers and reconnect the ADF cable.

15. Attach the FCC decal to the rear cover of the machine.

Line Connection and Settings



B819R113.WMF

1. Loop one end of the telephone cable [A] once, then enclose it with the ferrite core [B] as shown.

   NOTE:
   - Attach the ferrite core at least 9 cm (3.5 in.) from the connector.
   - Attach a ferrite core to the 2nd G3 line if two G3 boards are installed.
2. Connect the telephone cable to "LINE 2" jack.

   -or-

   If dual G3 boards are installed connect the cables to "LINE 2" and "LINE 3" jacks.
3. Connect the machine power cord to the power supply, then switch on the main power switch.
4. Enter the Service Mode.
   - Push [Reset], enter "107", then hold down "Clear/Reset" for at least 3 sec.
   - Touch "Fax SP"

5. Do these communication switch settings:

SP1104-23 (Switch 16)	Set Bit 1 "1".
	Set Bit 3 "1" if two G3 boards are installed.

6. Exit the Service Mode and cycle the machine off/on with the main power switch.
7. Do SP5990-001 to print the system parameter list, then confirm that "G3" is listed as an option.
8. Enter the Service Mode and set the items required for PSTN communication.
   - If one G3 line is installed, use SP3103 (PSTN-1 Port Settings) to do the PSTN settings.
   - If two G3 lines are installed, use SP3103 (PSTN-1 Port Settings) and SP3104 (PSTN-2 Port Settings) to do the PSTN settings for the first and second G3 line.

SC876	D	Log Data Error	
		The log data has been corrupted at power on, while the machine was operating, or when the machine was powered off during a print or copy cycle. The machine should never be switched off while it is printing or copying.	
SC876-1		Log data file was corrupted at power on or while the machine was operating.	Format the HDD with SP5832-004.
SC876-2		The log was set for encryption without the encryption module installed: At power on While the machine was operating When the log encryption setting was changed.	Install or replace and set the encryption module. Enable the log encryption setting.
SC876-3		At power on the log encryption key was disabled, causing an NVRAM malfunction.	Format the disk with SP5832-004.
SC876-4		At power on the machine attempted log data encryption with the log encryption setting disabled (NVRAM malfunction). -or- At power on log encryption was attempted with the log encryption setting disabled (NVRAM malfunction).	Format the disk with SP5832-004.
SC876-5		Error occurred at power on. Only the NVRAM was replaced with an NVRAM from another machine. -or- Only the HDD was replaced with an HDD unit from another machine.	Replace NVRAM with original NVRAM. Replace HDD with original HDD. If the error persists, format the HDD with SP5832-004.
SC876-99		Cause unknown. The error occurred at power on or while the machine was operating.	Contact Ricoh design section.

7. SPECIFICATIONS

7.1 GENERAL SPECIFICATIONS

7.1.1 COPIER

Configuration	Console		
Original	Sheet/Book/Objects		
Original Size	Max. A3/11" x 17"		
	Min. B5 SEF/5.5" x 8.5" (using ADF)		
Original Alignment	Rear left corner		
Copy Paper Size	Paper tray, Duplex	A3/11" x 17" – A5 SEF/5.5" x 8.5"	
	By-pass tray	A3/11" x 17" – A6 SEF/5.5" x 8.5"	
	Non-standard sizes	Width: 100 – 305 mm (4" x 12") Length: 148 - 600 mm (5.5" x 23.4")	
Copy Paper Weight	Paper Tray	52.3 ~ 127.9 g/m^2 (14 ~ 34 lb.)	
	Duplex	64 ~ 127.9 g/m^2 (17 ~ 34 lb.)	
	By-pass: Standard Thick Paper mode	52.3 ~ 157 g/m^2 (14 ~ 43 lb.) 52.3 ~ 216 g/m^2 (14 ~ 58 lb.)	
Reproduction Ratios	6 reduction ratios, 5 enlargement ratios	Metric (%)	400, 200, 141, 122, 115, 93, 82, 75, 71, 65, 50
		Inch (%)	400, 200, 155, 129, 121, 93, 85, 78, 73, 65, 50
	Zoom	25 ~ 400% in 1% steps	
Copying Speed	B163/B228	51 cpm (A4/11" x 8.5" LEF)	
	B246/250	55 cpm (A4/11" x 8.5" LEF)	
	B064/B140/B142/D052	60 cpm (A4/11" x 8.5" LEF)	
	B248/B252	65 cpm (A4/11" x 8.5" LEF)	
	D053	70 cpm (A4/11" x 8.5" LEF)	
	B065/B141/B143/B249/B253	75 cpm (A4/11" x 8.5" LEF)	
	D054	80 cpm (A4/11" x 8.5" LEF)	
First Copy Time	B064/B065 B141/B143 B248/B249 B252/B253 D053/D054	3.5 s (1st Tray, A4/11" x 8.5" LEF Face-up mode)	
	B140/B142 B163/B228 B246/B250 D052	4.2 s (1st Tray, A4/11" x 8.5" LEF Face-up mode)	
	B064/B065 B141/B143 B248/B249 B252/B253	5.3 s (1st Tray, A4/11" x 8.5" LEF Face-down mode)	
	B140/B142 B163/B228 B246/B250	6.3 s (1st Tray, A4/11" x 8.5" LEF Face-down mode)	

Warm-up Time (under 20°C room temp.)	B064/B065	Less than 300 s from Off mode
		Less than 25 s from low power mode
	B140/B141/B163/B142/B143/ B228/B246/B248/B249/B250/ B252/B253/D052/D053	Less than 30 s
	D054	Less than 60 s
Continuous Copy	1 ~ 999 (Operation panel entry)	
Paper Capacity	Tray 1 (tandem tray)	3100 sheets
	Tray 2	550 sheets
	Tray 3	550 sheets
	By-pass Tray	100 sheets (80 g/m^2, 20 lb.)

Paper Output	A4/8 1/2" x 11" and smaller	500 sheets
	B4 and larger	250 sheets
Power Source	North America	120 V / 60 Hz 20 A or more
	Europe/Asia	220 ~ 240 V / 50/60 Hz 8 A or more
	Taiwan	110 V / 60 Hz 20 A or more
Allowed voltage fluctuation	10%	
Dimensions (W x D x H)	B064/B065	690 x 750 x 1165 mm (27.2" x 29.6" x 45.9")
	B140/B141/B142/ B143/B163/B228	690 x 760 x 1165 mm (27.2" x 29.9" x 45.9")
	B246/B248/B249/ B250/B252/B253/ D052/D053/D054	690 x 790 x 1165 mm (27.2" x 31.1" x 45.9")
Weight	B064/B065	Approx. 200 kg (440.9 lb.)
	B140/B141/B142 B143/B163/B228	Approx. 203 kg (447.6 lb.)
	B246/B248/B249/ B250/B252/B253/ D052/D053/D054	Approx. 206 kg (453.w lb.)
Resolution	1200 dpi (printing) 600 dpi (scanning)	
Gradation	256 levels (scanning and printing)	
Original Archive	10,000 A4/8 1/2" x 11" pages for document server	
Toner Replenishment	Cartridge exchange (1100 g)	
Total Counter	Electric Counter	

7.1.2 ADF

Original Size	A3/11" x 17" – B6/5.5" x 8.5"	
Original Weight	1-sided original	40 ~ 128 g/m^2 (11 ~ 34 lb.)
	2-sided original	52 ~ 128 g/m^2 (14 ~ 34 lb.)
Table Capacity	100 sheets (80 g/m^2, 20 lb.) or less than 12 mm (0.4") original stack height	
Original Standard Position	Rear left corner	
Separation	Feed belt and separation roller	
Original Transport	Roller transport	
Original Feed Order	From top original	
Reproduction Range	100%	
Power Source	DC 24 V from the main machine	
Power Consumption	Less than 110 W	
Rated Voltage of Output Connector	Max. DC 24 V	
Permissible voltage fluctuation	±10%	
Dimensions (W x D x H)	680 x 560 x 180 mm (26.8" x 22.0" x 7.1")	
Weight	18 kg (39.6 lb.)	

7.1.3 POWER CONSUMPTION

B064/B065 Copier (120V Model)

	Mainframe Only	Full System
Warm-up	Approx. 1.20 kW	Approx. 1.25 kW
Stand-by	Approx. 0.30 kW	Approx. 0.32 kW
Copying	Approx. 1.55 kW	Approx. 1.65 kW
Maximum	Less than 1.60 kW	Less than 1.70 kW

B064/B065 Copier (220V to 240V Model)

	Mainframe Only	Full System
Warm-up	Approx. 1.25 kW	Approx. 1.26 kW
Stand-by	Approx. 0.27 kW	Approx. 0.27 kW
Copying	Approx. 1.60 kW	Approx. 1.60 kW
Maximum	Less than 1.75 kW	Less than 1.75 kW

B140/B141/B163 Copier (120V Model)

	Mainframe Only	Full System
Warm-up	Approx. 1.761 kW	Approx. 1.761 kW
Stand-by	Approx. 0.329 kW	-
Copying	Approx. 1.274 kW	Approx. 1.842 kW
Maximum	Less than 1.386 kW	Less than 1.850 kW

B140/B141/B163 Copier (220V to 240V Model)

	Mainframe Only	Full System
Warm-up	Approx. 1.750 kW	Approx. 1.750 kW
Stand-by	Approx. 0.333 kW	-
Copying	Approx. 1.281 kW	Approx. 1.782 kW
Maximum	Less than 1.401 kW	Less than 1.850 kW

B246/B248/B249/D052/D053/D054 Copier (120V Model)

Item	B246/D052		B248/D053		B249/D054	
	Basic	MFP	Basic	MFP	Basic	MFP
Copying	1.66/1.75K	1.66/1.75K	1.66/1.75K	1.66/1.75K	1.66/1.78K	1.68/1.78K
Warm-up	1.66/1.70K	1.66/1.72K	1.66/170K	1.66/172K	1.67/173K	1.68/174K
Standby	304/341K	317/346KW	304/341K	317/346K	304/341K	317/346K
10 sec. Recovery	202/214W	217/227W	202/214W	217/227W	202/214W	217/227W
Off/Sleep Recovery	3.3/3.3W	28.1/28.1W	3.3/3.3W	28.1/28.1W	3.3/3.3W	28.1/28.1W
Energy Save Mode	3.3/3.3W	28.1/28.1W	3.3/3.3W	28.1/28.1W	3.3/3.3W	28.1/28.1W

B246/B248/B249/D052/D053/D054 Copier (220V to 240V Model)

Item	B246/D054 (Basic)	B248/D053 (Basic)	B249/D054 (Basic)
Copying	1.43/1.53 KW	1.44/1.56 KW	1.44/1.56 KW
Warm-up	1.77/1.81 KW	1.78/1.82 KW	1.78/183 KW
Standby	299/346 W	299/346 W	299/346 W
10 sec. Recovery	196/223 W	196/223 W	196/223 W
Off/Sleep Recovery	4.9/4.9 W	4.9/4.9 W	4.9/4.9 W
Energy Save Mode	4.9/4.9 W	4.9/4.9 W	4.9/4.9 W

Noise Emission: Sound Power Level

	B064 (60 CPM)	B065 (75 CMP)
Mainframe Only		
Standby	Less than 48 dB (A)	Less than 48 dB (A)
Copying	Less than 71 dB (A)	Less than 71 dB (A)
Complete System		
Standby	Less than 49 dB (A)	Less than 49 dB (A)
Copying	Less than 74 dB (A)	Less than 74 dB (A)

	B163/B228 (51 CPM)	B140/B142 (60 CPM)	B141/B143 (75 CMP)
Mainframe Only			
Standby	Less than 49 dB (A)	Less than 49 dB (A)	Less than 49 dB (A)
Copying	Less than 70 dB (A)	Less than 70 dB (A)	Less than 71 dB (A)
Complete System			
Standby	Less than 49 dB (A)	Less than 49 dB (A)	Less than 49 dB (A)
Copying	Less than 74 dB (A)	Less than 74 dB (A)	Less than 74 dB (A)

	B246/D052 (55/60 CPM)	B248/D053 (65/70 CPM)	B249/D054 (75/80 CPM)
Mainframe Only			
Standby	Less than 35/50 dB (A)	Less than 35/50 dB (A)	Less than 35/50 dB (A)
Copying	Less than 68 dB (A)	Less than 69 dB (A)	Less than 70 dB (A)
Complete System			
Standby	Less than 35/50 dB (A)	Less than 35/50 dB (A)	Less than 35/50 dB (A)
Copying	Less than 74 dB (A)	Less than 75 dB (A)	Less than 75 dB (A)

Noise Emission: Sound Pressure Level

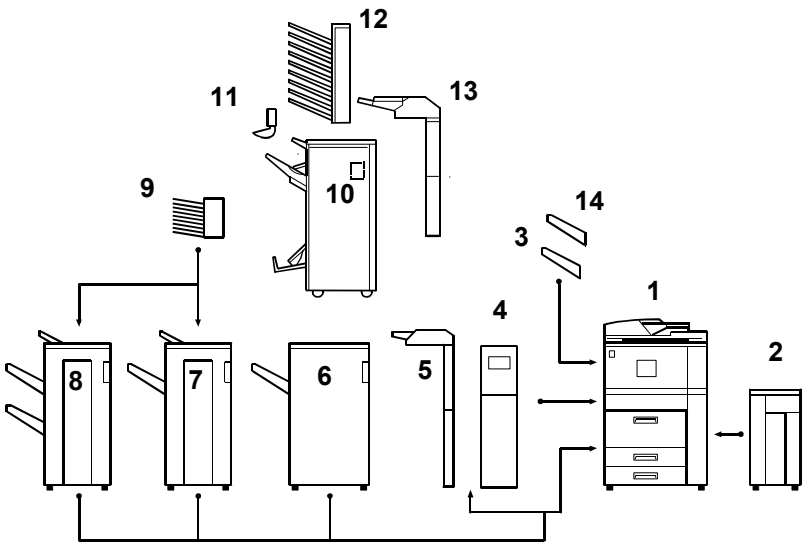
	B064 (60 CPM)	B065 (75 CMP)
Mainframe Only		
Standby	Less than 38 dB (A)	Less than 38 dB (A)
Copying	Less than 57 dB (A)	Less than 57 dB (A)
Complete System		
Standby	Less than 39 dB (A)	Less than 39 dB (A)
Copying	Less than 64 dB (A)	Less than 64 dB (A)

	B163(51 CPM)	B064 (60 CPM)	B065 (75 CMP)
Mainframe Only			
Standby	Less than 44 dB (A)	Less than 44 dB (A)	Less than 44 dB (A)
Copying	Less than 65 dB (A)	Less than 65 dB (A)	Less than 67 dB (A)
Complete System			
Standby	Less than 44 dB (A)	Less than 44 dB (A)	Less than 44 dB (A)
Copying	Less than 69 dB (A)	Less than 69 dB (A)	Less than 69 dB (A)

	B246/D052 (55/60 CPM)	B248/D053 (65/70 CPM)	B249/D054 (75/80 CPM)
Mainframe Only			
Standby	Less than 21/32 dB (A)	Less than 21/32 dB (A)	Less than 21/32 dB (A)
Copying	Less than 53 dB (A)	Less than 57 dB (A)	Less than 57 dB (A)
Complete System			
Standby	Less than 21/32 dB (A)	Less than 21/32 dB (A)	Less than 21/32 dB (A)
Copying	Less than 63 dB (A)	Less than 63 dB (A)	Less than 63 dB (A)

NOTE: The above measurements were made in accordance with ISO 7779. Full system measurements include the Finisher, LCT, and Mailbox. In the above stand-by condition, the polygon mirror motor is not rotating.

7.2 MACHINE CONFIGURATION



B246V500.WMF

Item		Machine code			Number
Mainframe		B065 B064	B140 B141 B163	B246 B248 B249 D052 D053 D054	1
A3/DLT Kit	B475	○	○	○	Inside mainframe
Tab Sheet Kit	B499	○	○	○	
LCT (Large Capacity Tray)	B473	○	○	○	2
LG/B4 Kit	B474	○	○	○	Inside LCT
Copy Tray	B476	○	○		3
Z-Folding Unit	B660		○	○	4
Cover Interposer Tray	B470	○	○		5
Finisher with 100-sheet stapler	B478	○			6
	B706		○	○	6
Finisher with 50-sheet Stapler	B469	○	○		7
Finisher with saddle-stitching and 50-sheet Stapler	B468	○			8
Finisher with 50-sheet Stapler for Z-folding	B674		○		8
9-Bin Mailbox	B471	○	○		9
Punch Unit for 50-staple Finisher	B377	○	○		Inside Finisher No. 7 or 8
Punch Unit for 100-staple Finisher (NA 3/2, EU 2/4)	B531	○	○	○	Inside Finisher No. 6
Punch Unit for 100-staple Finisher (SC)	B812	○	○	○	Inside Finisher No. 6
Jogger Unit	B513	○	○	○	Inside Finisher No. 6
Copy Connector Kit	B525	○		○	Inside mainframe
	B328		○		Inside mainframe
File Format Converter	B519	○			Inside mainframe
	B609		○	○	Inside mainframe
SR4000/SR970	B700/ B701			○	10
Output Jogger Unit	B703			○	11 or 12 (not both)
Mailbox CS391	B762			○	12 or 11 (not both)
Cover Initerposer	B704			○	13
Copy Tray	B756			○	14