



FS-C2026MFP

FS-C2126MFP

SERVICE

MANUAL

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Rev. 8

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

It may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for proper disposal.

ATTENTION

IL Y A UN RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UN MODÈLE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES UTILISÉES SELON LES INSTRUCTIONS DONNÉES.

Il peut être illégal de jeter les batteries dans des eaux d'égout municipales. Vérifiez avec les fonctionnaires municipaux de votre région pour les détails concernant des déchets solides et une mise au rebut appropriée.

Revision history

Revision	Date	Replaced pages	Remarks
1	July 7, 2010	1-1-1, 1-1-2, 1-1-4, 1-3-1, 1-3-4, 1-3-18, 1-3-55, 1-3-59 to 1-3-63	-
2	September 17, 2010	Contents, 1-1-1, 1-1-7, 1-2-2 to 1-2-13, 1-3-2, 1-3-4, 1-3-6, 1-3-7, 1-3-9 to 1-3-11, 1-3-13, 1-3-16, 1-3-19, 1-3-50, 1-3-58, 1-3-63, 1-3-65, 1-4-4 to 1-4-6, 1-4-21 to 1-4-27, 1-4-29, 1-4-30, 1-5-7, 1-5-8, 1-5-10 to 1-5-13, 1-5-17, 1-5-26, 1-5-27, 1-5-29, 1-5-30, 1-5-35, 1-5-53, 1-5-65 to 1-5-67, 2-1-13, 2-1-16, 2-1-20, 2-1-26, 2-1-28, 2-2-1 to 2-2-3, 2-2-5, 2-2-7, 2-3-2, 2-3-5 to 2-3-9, 2-3-11, 2-3-15, 2-3-16, 2-3-18, 2-4-1 to 2-4-9, 2-4-11	-
3	November 8, 2010	Contents, 1-1-1, 1-3-7, 1-4-2, 1-4-5, 1-4-17, 1-4-27, 1-4-38, 1-4-40, 1-4-42, 1-4-43, 1-4-44, 1-5-4, 1-5-10, 1-5-12, 2-1-1, 2-1-5, 2-1-6, 2-1-11, 2-1-12, 2-1-21, 2-1-22, 2-2-4, 2-2-5, 2-3-5, 2-3-8, 2-4-9, 2-4-11	-
4	April 6, 2011	Safety precautions, 1-2-5, 1-3-2 to 1-3-4, 1-3-15, 1-5-11, 1-5-17	-
5	June 18, 2012	Contents, 1-3-9, 1-3-23, 1-3-51, 1-6-1, 2-4-3, 2-4-9 to 16	-
6	1 December 2012	Contents, 1-6-1, 1-6-2, 2-4-7	-
7	12 February 2013	Contents, 1-3-2 to 5, 1-3-12 to 24, 1-3-32 to 34, 1-3-37, Address	-
8	26 December 2013	Contents, 1-1-3, 1-3-2, 1-3-10, 1-3-11, 1-3-13, 1-3-15, 1-3-79, 1-5-29, 1-5-30, 1-5-52 to 77, Address	-


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Safety precautions


This booklet provides safety warnings and precautions for our service personnel to ensure the safety of their customers, their machines as well as themselves during maintenance activities. Service personnel are advised to read this booklet carefully to familiarize themselves with the warnings and precautions described here before engaging in maintenance activities.

Safety warnings and precautions

Various symbols are used to protect our service personnel and customers from physical danger and to prevent damage to their property. These symbols are described below:

 **DANGER:** High risk of serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

 **WARNING:** Serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

 **CAUTION:** Bodily injury or damage to property may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

Symbols

The triangle (\triangle) symbol indicates a warning including danger and caution. The specific point of attention is shown inside the symbol.



General warning.



Warning of risk of electric shock.



Warning of high temperature.

 indicates a prohibited action. The specific prohibition is shown inside the symbol.



General prohibited action.



Disassembly prohibited.

 indicates that action is required. The specific action required is shown inside the symbol.



General action required.





Remove the power plug from the wall outlet.











Always ground the copier.

1. Installation Precautions

WARNING











- Do not use a power supply with a voltage other than that specified. Avoid multiple connections to one outlet: they may cause fire or electric shock. When using an extension cable, always check that it is adequate for the rated current. 
- Connect the ground wire to a suitable grounding point. Not grounding the copier may cause fire or electric shock. Connecting the earth wire to an object not approved for the purpose may cause explosion or electric shock. Never connect the ground cable to any of the following: gas pipes, lightning rods, ground cables for telephone lines and water pipes or faucets not approved by the proper authorities. 

CAUTION:





- Do not place the copier on an infirm or angled surface: the copier may tip over, causing injury. 
- Do not install the copier in a humid or dusty place. This may cause fire or electric shock. 
- Do not install the copier near a radiator, heater, other heat source or near flammable material. This may cause fire. 
- Allow sufficient space around the copier to allow the ventilation grills to keep the machine as cool as possible. Insufficient ventilation may cause heat buildup and poor copying performance. 
- Always handle the machine by the correct locations when moving it. 
- Always use anti-toppling and locking devices on copiers so equipped. Failure to do this may cause the copier to move unexpectedly or topple, leading to injury. 
- Avoid inhaling toner or developer excessively. Protect the eyes. If toner or developer is accidentally ingested, drink a lot of water to dilute it in the stomach and obtain medical attention immediately. If it gets into the eyes, rinse immediately with copious amounts of water and obtain medical attention. 
- Advise customers that they must always follow the safety warnings and precautions in the copier's instruction handbook. 












2. Precautions for Maintenance

WARNING

- Always remove the power plug from the wall outlet before starting machine disassembly. 
- Always follow the procedures for maintenance described in the service manual and other related brochures. 
- Under no circumstances attempt to bypass or disable safety features including safety mechanisms and protective circuits. 
- Always use parts having the correct specifications. 
- Always use the thermostat or thermal fuse specified in the service manual or other related brochure when replacing them. Using a piece of wire, for example, could lead to fire or other serious accident. 
- When the service manual or other serious brochure specifies a distance or gap for installation of a part, always use the correct scale and measure carefully. 
- Always check that the copier is correctly connected to an outlet with a ground connection. 
- Check that the power cable covering is free of damage. Check that the power plug is dust-free. If it is dirty, clean it to remove the risk of fire or electric shock. 
- Never attempt to disassemble the optical unit in machines using lasers. Leaking laser light may damage eyesight. 
- Handle the charger sections with care. They are charged to high potentials and may cause electric shock if handled improperly. 



CAUTION

- Wear safe clothing. If wearing loose clothing or accessories such as ties, make sure they are safely secured so they will not be caught in rotating sections. 
- Use utmost caution when working on a powered machine. Keep away from chains and belts. 
- Handle the fixing section with care to avoid burns as it can be extremely hot. 
- Check that the fixing unit thermistor, heat and press rollers are clean. Dirt on them can cause abnormally high temperatures. 

- Do not remove the ozone filter, if any, from the copier except for routine replacement. 
- Do not pull on the AC power cord or connector wires on high-voltage components when removing them; always hold the plug itself. 
- Do not route the power cable where it may be stood on or trapped. If necessary, protect it with a cable cover or other appropriate item. 
- Treat the ends of the wire carefully when installing a new charger wire to avoid electric leaks. 
- Remove toner completely from electronic components. 
- Run wire harnesses carefully so that wires will not be trapped or damaged. 
- After maintenance, always check that all the parts, screws, connectors and wires that were removed, have been refitted correctly. Special attention should be paid to any forgotten connector, trapped wire and missing screws. 
- Check that all the caution labels that should be present on the machine according to the instruction handbook are clean and not peeling. Replace with new ones if necessary. 
- Handle greases and solvents with care by following the instructions below: 
- Use only a small amount of solvent at a time, being careful not to spill. Wipe spills off completely.
- Ventilate the room well while using grease or solvents.
- Allow applied solvents to evaporate completely before refitting the covers or turning the power switch on.
- Always wash hands afterwards.
- Never dispose of toner or toner bottles in fire. Toner may cause sparks when exposed directly to fire in a furnace, etc. 
- Should smoke be seen coming from the copier, remove the power plug from the wall outlet immediately. 

3. Miscellaneous

WARNING

- Never attempt to heat the drum or expose it to any organic solvents such as alcohol, other than the specified refiner; it may generate toxic gas. 
- Keep the machine away from flammable liquids, gases, and aerosols. A fire or an electric shock might occur. 

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1-1-1 Specifications

Machine

Item	Specifications	
	3 in 1 model (without FAX)	4 in 1 model (with FAX)
Type	Desktop	
Printing method	Electrophotography by semiconductor laser, tandem (4) drum system	
Originals	Sheet, Book, 3-dimensional objects (maximum original size: Folio/Legal)	
Original feed system	Fixed	
Paper weight	Cassette	60 to 163 g/m ² (Duplex: 60 to 163 g/m ²)
	MP tray	60 to 220 g/m ² , 230 μm (Cardstock)
Paper type	Cassette	Plain, Recycled, Preprinted, Bond, Color (Colour), Prepunched, Letterhead, Thick, High quality, Custom 1 to 8 (Duplex: Same as simplex)
	MP tray	Plain, Transparency, Vellum, Labels, Recycled, Preprinted, Bond, Cardstock, Color (Colour), Prepunched, Letterhead, Thick, Envelope, Coated, High quality, Custom 1 to 8
Paper size	Cassette	A4, A5, A6, B5, Letter, Legal, Statement, Executive, Oficio II, Folio, 16K, Custom
	MP tray	A4, A5, A6, B5, ISO B5, B6, Letter, Legal, Statement, Executive, Oficio II, Folio, 16K, Envelope #10, Envelope #9, Envelope #6, Envelope Monarch, Envelope DL, Envelope C5, Postcards, Return postcard, Youkei 2, Youkei 4, Custom
Zoom level	Manual mode : 25 to 400%, 1% increments Auto mode : 400%, 200%, 141%, 129%, 115%, 90%, 86%, 78%, 70%, 64%, 50%, 25%	
Copying speed	Simplex	A4R : 26 sheets/min LetterR : 28 sheets/min Legal : 23 sheets/min B5R : 28 sheets/min A5R : 28 sheets/min A6R : 28 sheets/min
	Duplex	A4R : 13 sheets/min LetterR : 13 sheets/min Legal : 12 sheets/min
First copy time (A4, feed from cassette)	B/W	When using the DP : 11.0 s or less When the DP is not used: 10.0 s or less
	Color	When using the DP : 13.0 s or less When the DP is not used: 12.0 s or less
Warm-up time (22 °C/71.6 °F, 60% RH)	Power on : 29 s or less Sleep mode: 20 s or less	
Paper capacity	Cassette	150 sheets (80g/m ²)
	MP tray	50 sheets (80 g/m ² , plain paper, A4/Letter or less)
Output tray capacity	150 sheets (80g/m ²)	
Continuous copying	1 to 999 sheets	

Item	Specifications	
	3 in 1 model (without FAX)	4 in 1 model (with FAX)
Light source	Exposure lamp	
Scanning system	Flat bed scanning by CCD image sensor	
Photoconductor	OPC drum (diameter 30 mm)	
Image write system	Semiconductor laser	
Charging system	Charger roller	
Developing system	Touch down developing system Developer: 2-component Toner replenishing: Automatic from the toner container	
Transfer system	Primary: Transfer belt Secondary: Transfer roller	
Separation system	Small diameter separation	
Cleaning system	Drum: Counter blade	
Charge erasing system	Exposure by cleaning lamp (LED)	
Fusing system	Heat and pressure fusing with the heat roller and the press roller Heat source: halogen heater Abnormally high temperature protection devices: thermostat	
CPU	PowerPC464 (667MHz)	
Main memory	Standard	768 MB
	Maximum	1792 MB
Interface	Standard	USB interface connector: 1 (USB Hi-speed) USB host: 2 Network interface: 1 (10BASE-T/100BASE-TX)
	Option	KUIO/W slot: 1
Resolution	600 × 600 dpi	
Operating environment	Temperature	10 to 32.5 °C/50 to 90.5 °F
	Humidity	15 to 80% RH
	Altitude	2,500 m/8,202 ft or less
	Brightness	1,500 lux or less
Dimensions (W × D × H)	514 × 550 × 580 mm 20 1/4 × 21 5/8 × 22 13/16"	
Weight	36.5 kg / 80.3 lb (with toner container)	
Space required (W × D)	514 × 1020 mm (using MP tray) 20 1/4 × 40 3/16" (using MP tray)	
Power source	120 V AC, 60 Hz, more than 8.9 A 220 - 240 V AC, 50/60 Hz, more than 4.7 A	
Options	Paper feeder × 2, Expanded memory	

Document processor

Item	Specifications
Original feed method	Automatic feed
Supported original types	Sheet originals
Original sizes	Maximum: A4/Legal Minimum : A5/Statement
Original weights	Simplex: 50 to 120 g/m ² Duplex : 50 to 110 g/m ²
Loading capacity	50 sheets (50 to 80 g/m ²) or less
Dimensions (W × D × H)	490 × 338 × 104 mm 19 5/16 × 13 5/16 × 4 1/8"
Weight	3 kg/ 6.6 lb or less

Printer

Item	Specifications
Printing speed	Same as copying speed.
First print time (A4, feed from cassette)	B/W : 9.0 s or less Color: 10.5 s or less (Excluding time for system stabilization immediately after turning on the main power.)
Resolution	600 dpi
Operating system	Windows 2000, Windows XP, Windows XP Professional, Windows Server 2003, Windows Server 2003 x64 Edition, Windows Vista x86 Edition, Windows Vista x64 Edition, Windows 7 x86 Edition, Windows 7 x64 Edition, Windows Server 2008, Windows Server 2008 x64 Edition, Apple Macintosh OS 10.x
Interface	USB interface connector: 1 (USB Hi-speed) USB host: 2 Network interface: 1 (10BASE-T/100BASE-TX)
Page description language	PRESCRIBE

Scanner

Item		Specifications
Operating system		Windows 2000 (Service Pack 4), Windows XP, Windows Vista, Windows 7, Windows Server 2003, Windows Server 2008
System requirements		IBM PC/AT compatible CPU: Celeron 600 MHz or higher RAM: 128 MB or more HDD free space: 20 MB or more Interface: Ethernet
Resolution		600 dpi, 400 dpi, 300 dpi, 200 dpi
File format		JPEG, TIFF, PDF, XPS
Scanning speed	Simplex	B/W : 35 images/min Color: 25 images/min (A4 landscape, 300 dpi, Image quality: Text/Photo original)
	Duplex	B/W : 18 images/min Color: 13 images/min (A4 landscape, 300 dpi, Image quality: Text/Photo original)
Interface		Ethernet (10 BASE-T/100 BASE-TX)
Network protocol		TCP/IP
Transmission system		PC transmission SMB Scan to SMB FTP Scan to FTP, FTP over SSL E-mail transmission SNTP Scan to E-mail TWAIN scan*1 WIA scan*2

*1 Available operating system: Windows 2000 (Service Pack 4), Windows XP, Windows Vista, Windows Server 2008, Windows 7

*2 Available operating system: Windows Vista, Windows Server 2008, Windows 7

FAX (4 in 1 model (with FAX) only)

Item	Specifications
Compatibility	G3
Communication line	Subscriber telephone line
Transmission time	3 s or less (33600 bps, JBIG, ITU-T A4 #1 chart)
Transmission speed	33600/31200/28800/26400/24000/21600/19200/16800/14400/12000/9600/ 7200/4800/2400 bps
Coding scheme	JBIG/MMR/MR/MH
Error correction	ECM
Original size	Max. width: 8 1/2"/216 mm Max. length: 14"/356 mm
Automatic document feed	Max. 50 sheets
Scanner resolution	Horizontal × Vertical 200 × 100 dpi Normal (8 dot/mm × 3.85 line/mm) 200 × 200 dpi Fine (8 dot/mm × 7.7 line/mm) 200 × 400 dpi Super fine (8 dot/mm × 15.4 line/mm) 400 × 400 dpi Ultra fine (16 dot/mm × 15.4 line/mm)
Printing resolution	600 × 600 dpi
Gradations	256 shades (Error diffusion)
One-Touch key	22 keys
Multi-Station transmission	Max. 100 destinations
Substitute memory reception	256 sheets or more (when using ITU-T A4 #1 chart)
Image memory capacity	3.5 MB (standard) (for incoming faxed originals)
Report output	Sent result report, FAX RX result report, Report for job canceled before sending, Activity report, Status page

NOTE: These specifications are subject to change without notice.

1-1-2 Parts names

(1) Machine (front side)

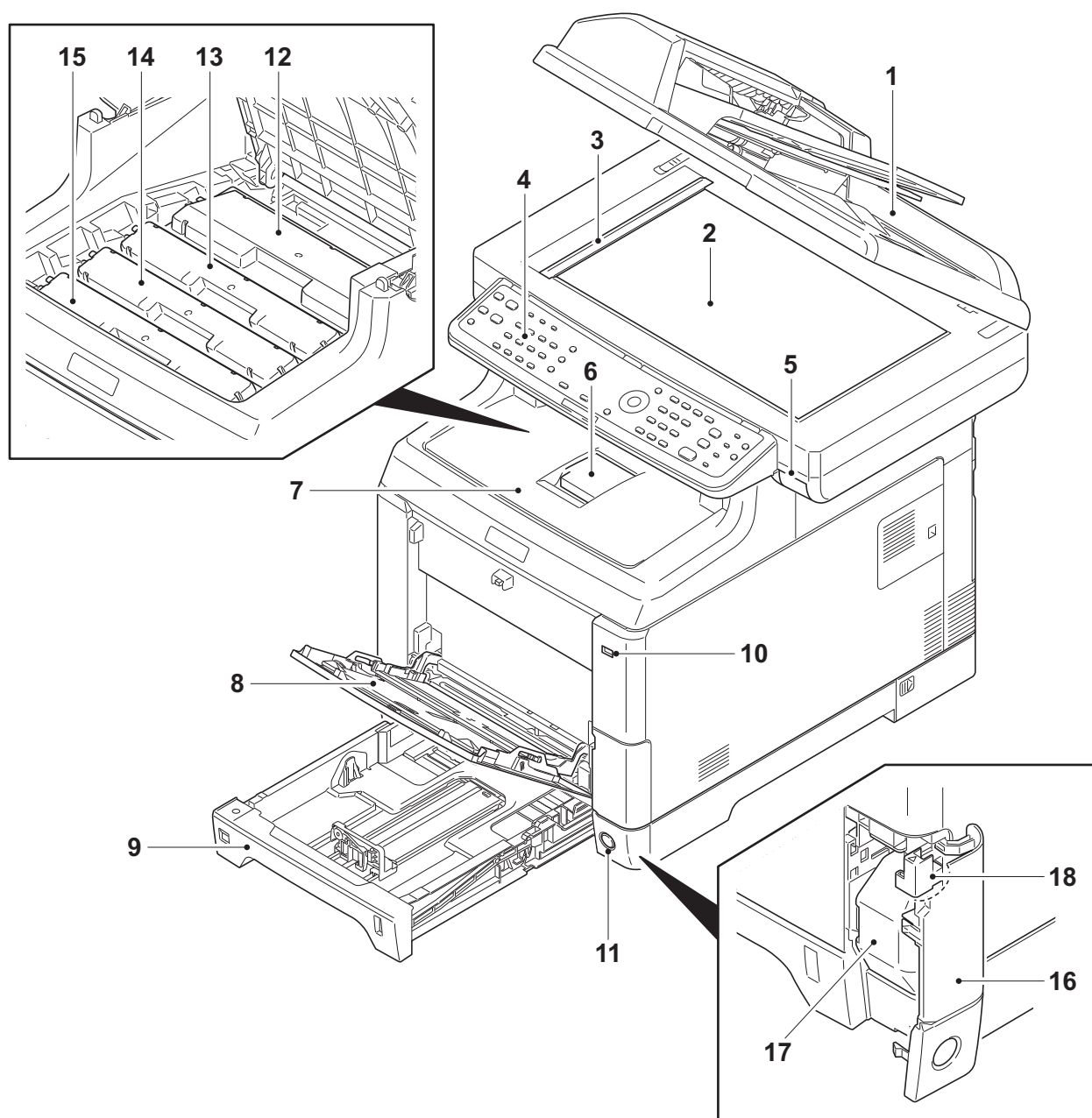
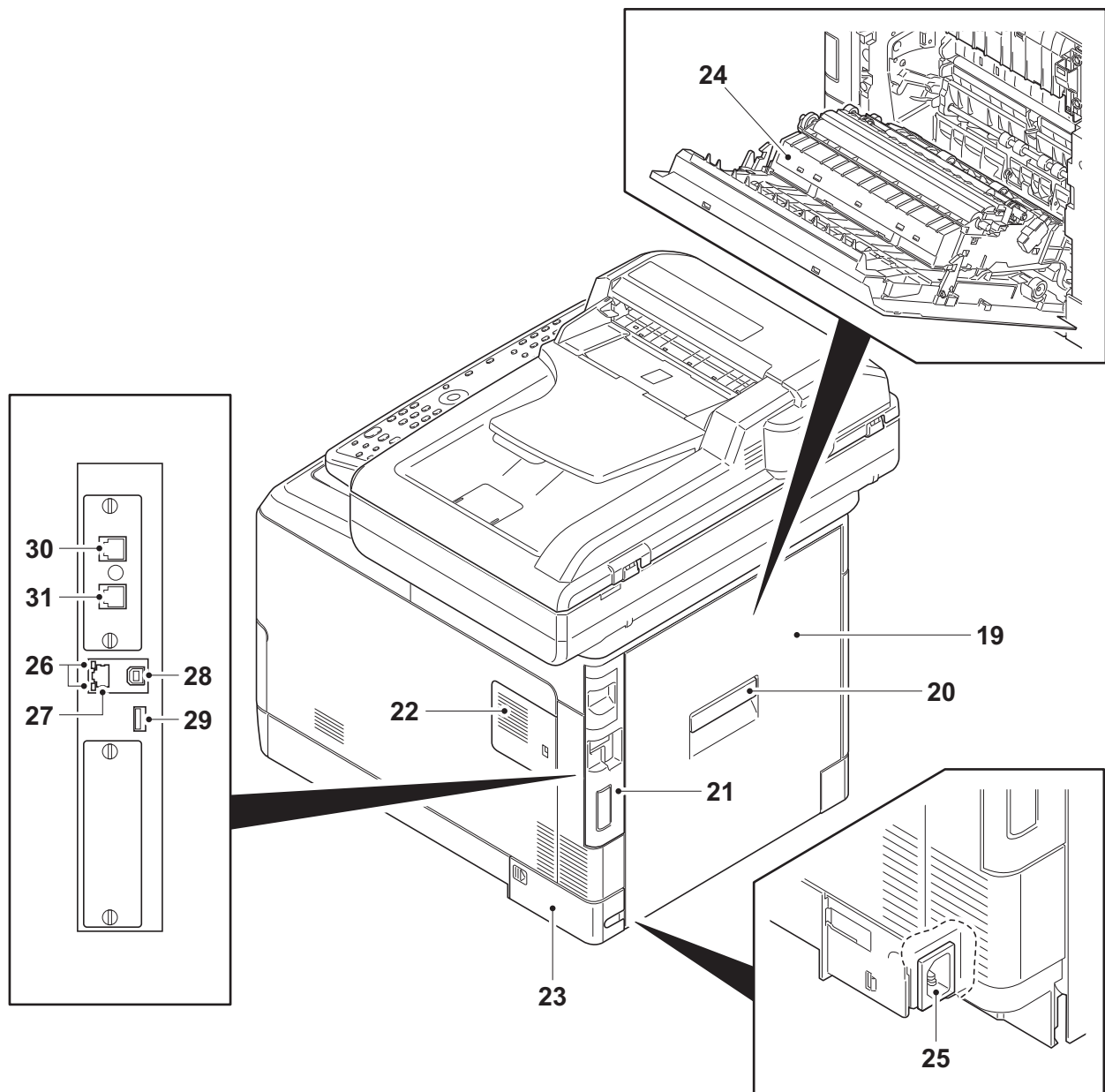


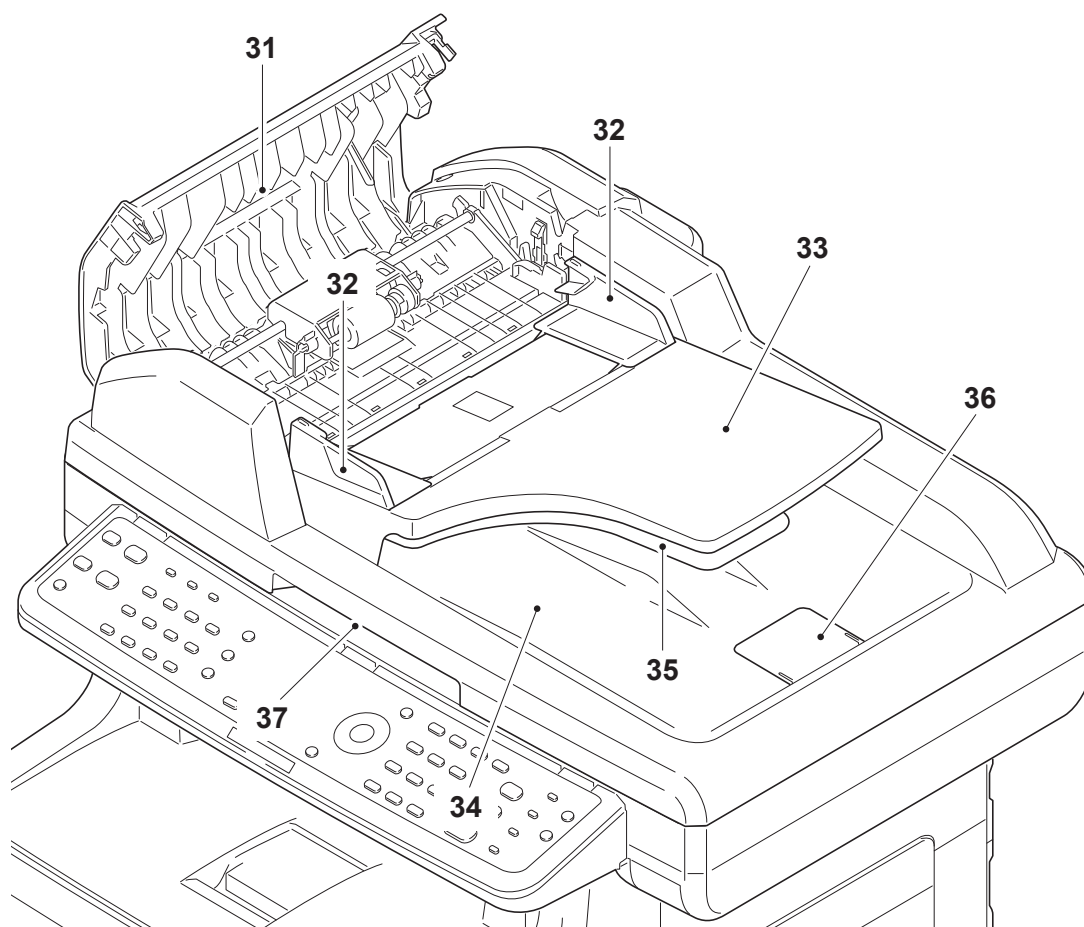
Figure 1-1-1

- | | |
|----------------------------------|-------------------------|
| 1. Document processor (DP) | 10. USB memory slot |
| 2. Contact glass | 11. Main power switch |
| 3. Original size Indicator plate | 12. Toner container K |
| 4. Operation panel | 13. Toner container M |
| 5. Top tray lever | 14. Toner container C |
| 6. Paper stopper | 15. Toner container Y |
| 7. Top tray | 16. Waste toner cover |
| 8. MP (Multi-Purpose) tray | 17. Waste toner box |
| 9. Cassette | 18. Lock release button |

(2) Machine (rear side)**Figure 1-1-2**

- | | |
|--------------------------|---------------------------------|
| 19. Rear cover | 26. Network indicators |
| 20. Rear cover lever | 27. Network interface connector |
| 21. IF cover | 28. USB interface connector |
| 22. Memory cover | 29. USB memory slot |
| 23. Power cord cover | 30. LINE connector* |
| 24. Paper conveying unit | 31. TEL connector* |
| 25. Power cord connector | |

*: 4 in 1 model (with FAX) only

(3) Document processor**Figure 1-1-3**

- 32. DP top cover
- 33. Original width guides
- 34. Original table
- 35. Original eject table
- 36. Switchback table
- 37. Original stopper
- 38. Opening Handle

(4) Operation panel

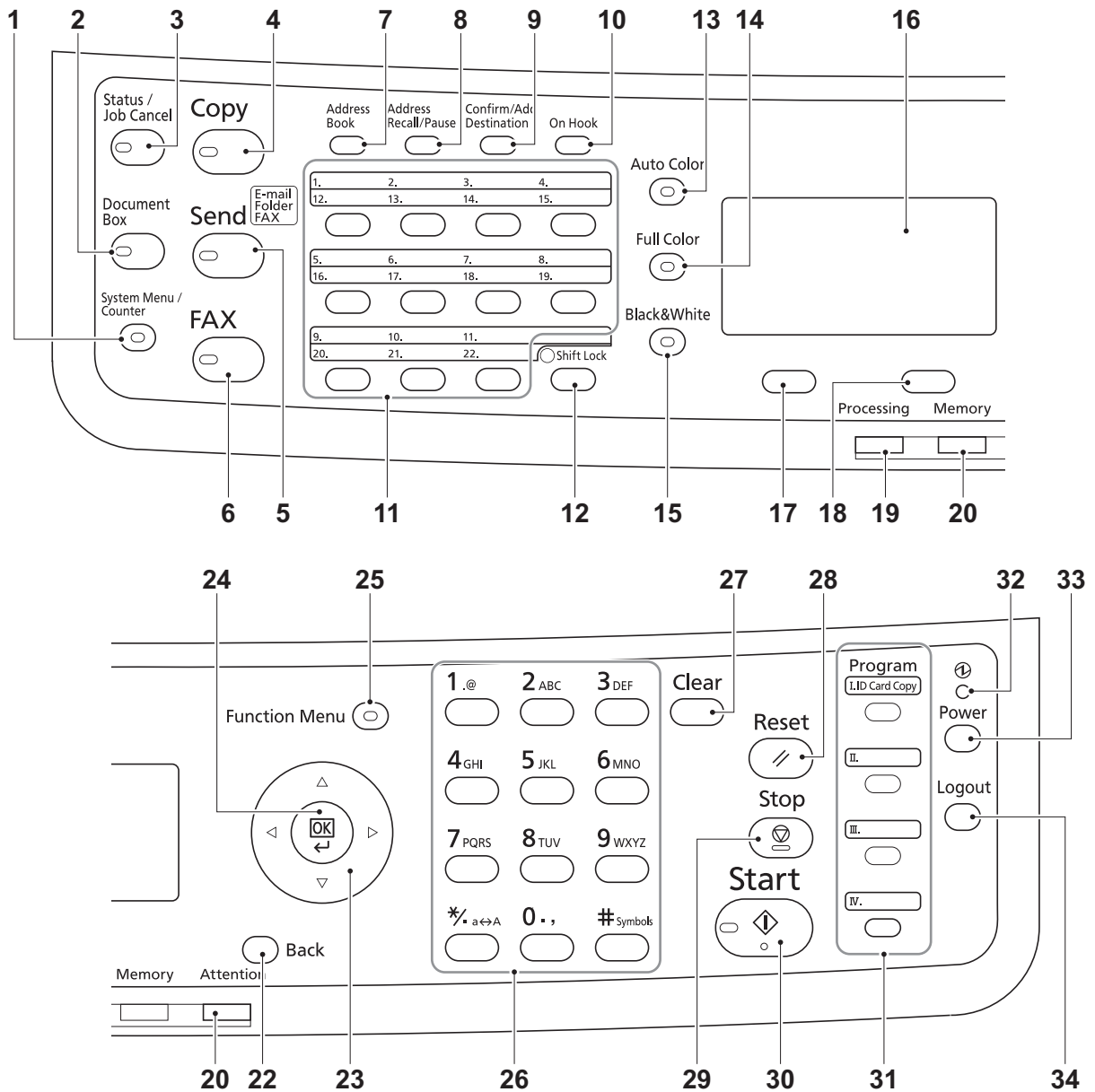


Figure 1-1-4

- | | | |
|--------------------------------|--------------------------|-----------------------|
| 1. System menu/Counter key | 13. Auto color key | 25. Function Menu key |
| 2. Document box key | 14. Full color key | 26. Numeric keys |
| 3. Status/Job cancel key | 15. Black and White key | 27. Clear key |
| 4. Copy key | 16. Message display | 28. Reset key |
| 5. Send key | 17. Left Select key | 29. Stop key |
| 6. FAX key* | 18. Right Select key | 30. Start key |
| 7. Address book key | 19. Processing indicator | 31. Program keys |
| 8. Address recall/Pause key* | 20. Memory indicator | 32. Main power LED |
| 9. Confirm/Add destination key | 21. Attention indicator | 33. Power key |
| 10. On Hook key* | 22. Back key | 34. Logout key |
| 11. One-touch keys | 23. Cursor keys | |
| 12. Shift Lock key | 24. OK key | |

*: 4 in 1 model (with FAX) only

1-1-3 Machine cross section

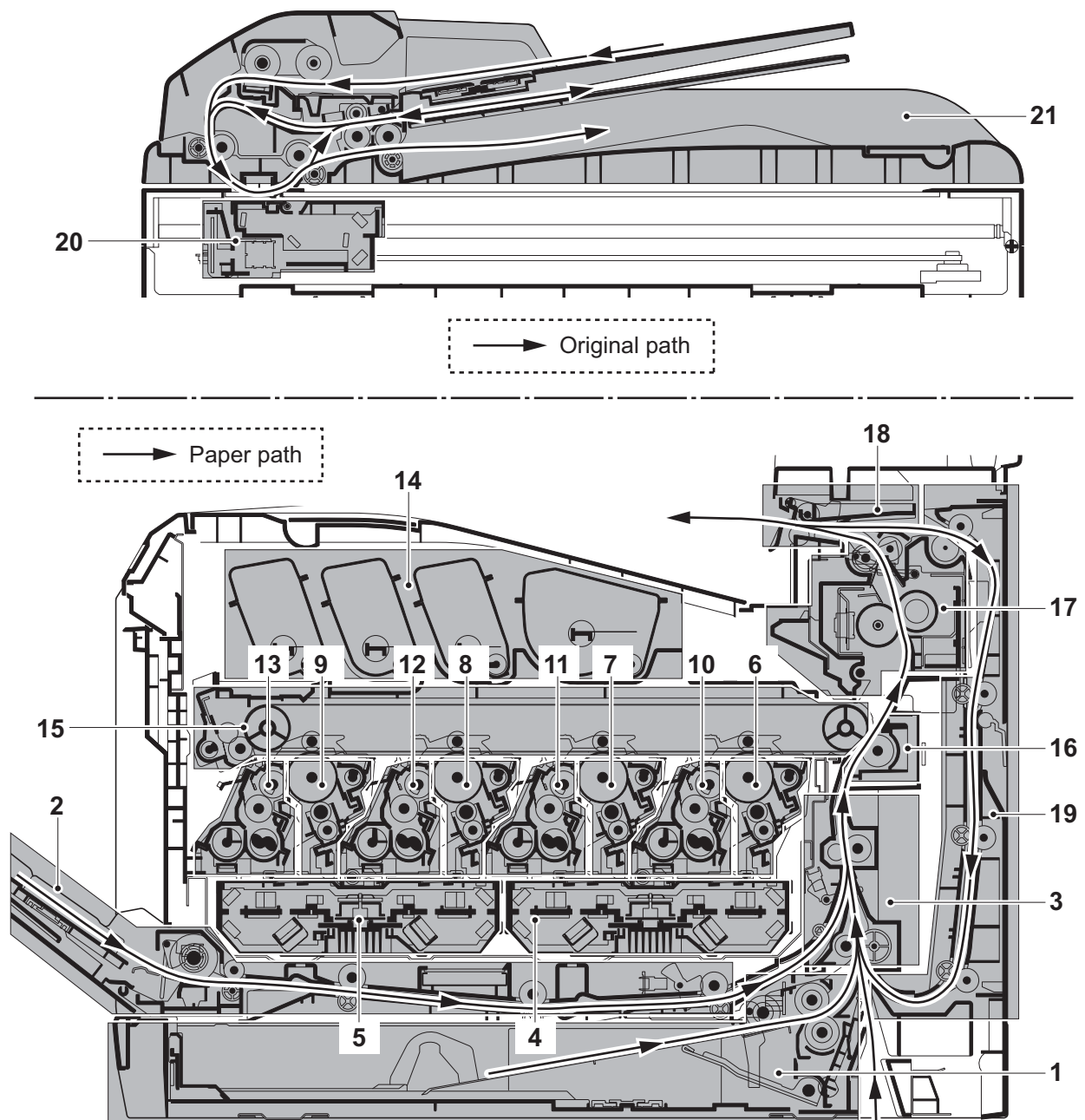


Figure 1-1-5

- | | | |
|--------------------------------|------------------------------|--|
| 1. Cassette paper feed section | 9. Drum unit Y | 16. Secondary transfer/Separation sections |
| 2. MP tray paper feed section | 10. Developing unit K | 17. Fuser section |
| 3. Paper conveying section | 11. Developing unit M | 18. Eject/Feed shift sections |
| 4. Laser scanner unit KM | 12. Developing unit C | 19. Duplex section |
| 5. Laser scanner unit CY | 13. Developing unit Y | 20. Image scanner unit |
| 6. Drum unit K | 14. Toner container section | 21. Document processor |
| 7. Drum unit M | 15. Primary transfer section | |
| 8. Drum unit C | | |

1-2-1 Installation environment

1. Temperature: 10 to 32.5°C/50 to 90.5°F
2. Humidity: 15 to 80% RH
3. Power supply: 120 V AC, 8.9 A
220 - 240 V AC, 4.7 A
4. Power source frequency: 50 Hz \pm 2%/60 Hz \pm 2%
5. Installation location

Avoid direct sunlight or bright lighting. Ensure that the photoconductor will not be exposed to direct sunlight or other strong light when removing paper jams.

Avoid locations subject to high temperature and high humidity or low temperature and low humidity; an abrupt change in the environmental temperature; and cool or hot, direct air.

Avoid places subject to dust and vibrations.

Choose a surface capable of supporting the weight of the machine.

Place the machine on a level surface (maximum allowance inclination: 1°).

Avoid air-borne substances that may adversely affect the machine or degrade the photoconductor, such as mercury, acidic or alkaline vapors, inorganic gasses, NO_x, SO_x gases and chlorine-based organic solvents.

Select a well-ventilated location.

6. Allow sufficient access for proper operation and maintenance of the machine.

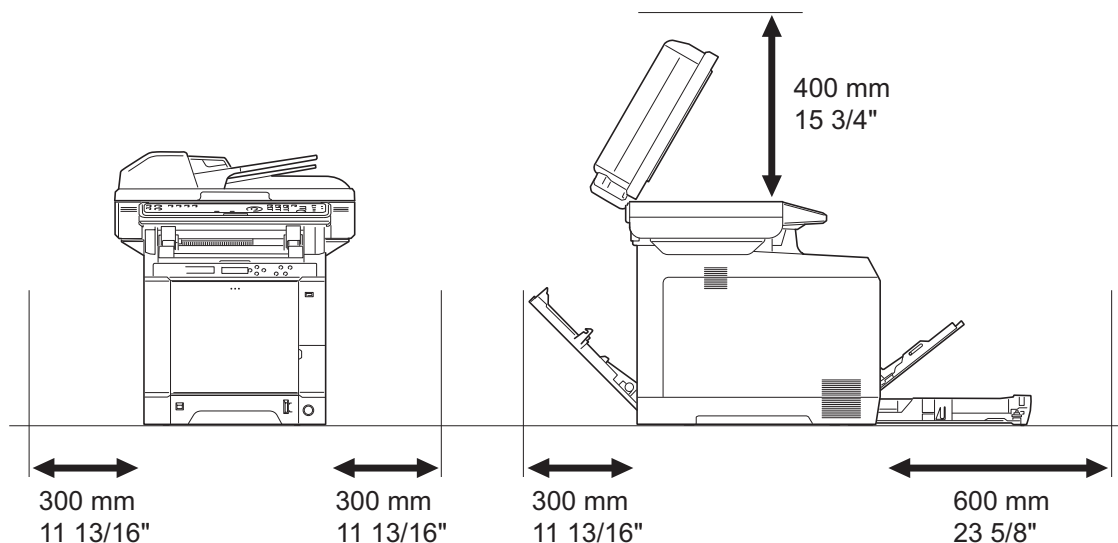


Figure 1-2-1

1-2-2 Unpacking

Unpacking

220-240 V AC model

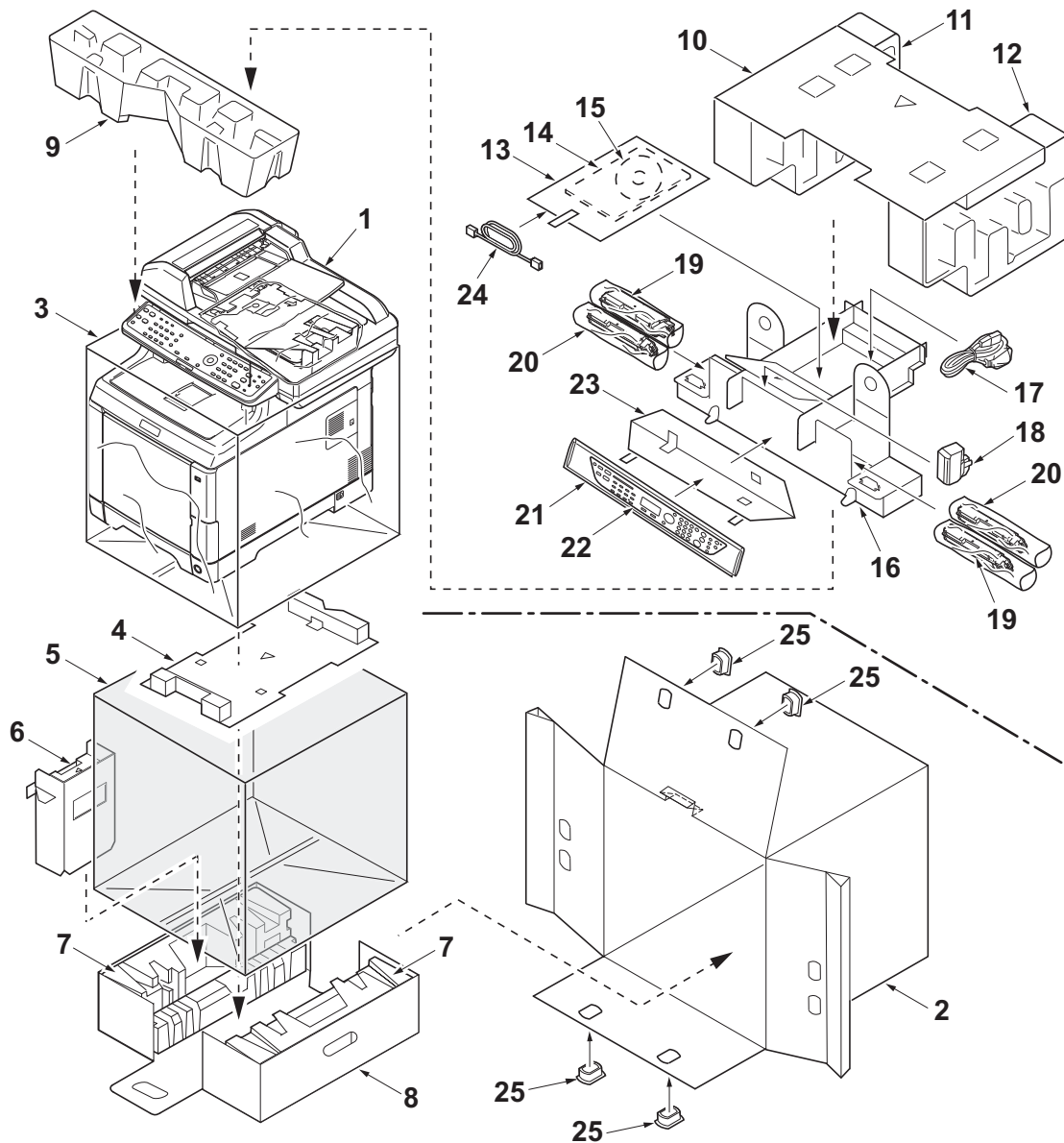


Figure 1-2-2

- | | | |
|------------------------------|-----------------------------|------------------------------------|
| 1. Machine | 10. Top spacer | 19. Toner containers |
| 2. Outer case | 11. Top pad L | 20. Plastic bags (200 × 450) |
| 3. Machine cover (620 × 580) | 12. Top pad R | 21. Plastic bag (250 × 600) |
| 4. Bottom spacer | 13. Plastic bag (240 × 350) | 22. Operation labels |
| 5. Plastic bag (650 × 650) | 14. Installation guide etc. | 23. Operation label pad |
| 6. Left spacer | 15. CD-ROM* | 24. Modular cable** |
| 7. Bottom pads | 16. Middle spacer | 25. Hinge joints |
| 8. Bottom case | 17. Power cord | *: 240 V AC model only. |
| 9. Front pad | 18. Waste toner box | ** : 4 in 1 model (with FAX) only. |

120 V AC model

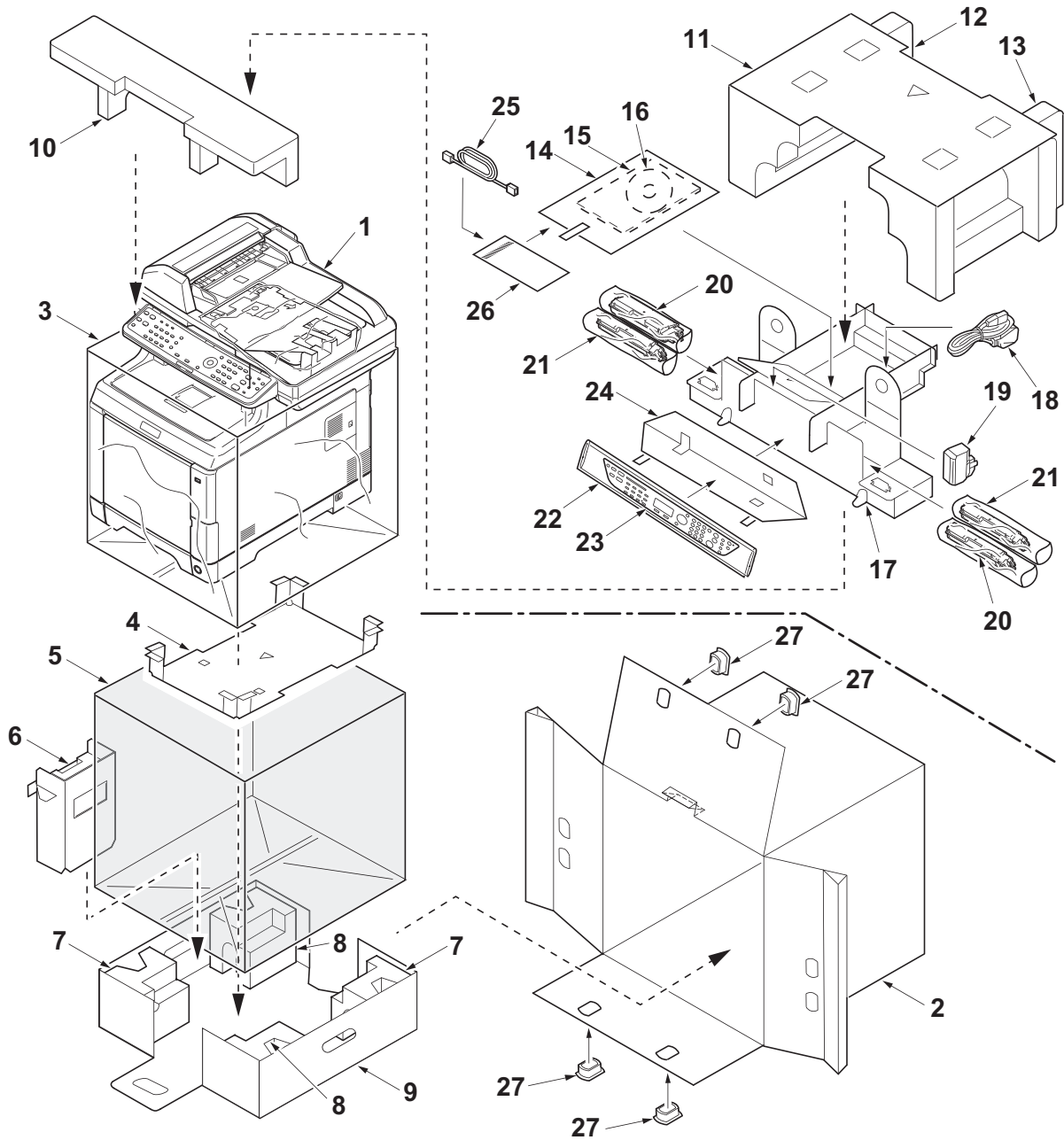


Figure 1-2-3

- | | | |
|------------------------------|-----------------------------|----------------------------------|
| 1. Machine | 10. Front pad | 19. Waste toner box |
| 2. Outer case | 11. Top spacer | 20. Toner containers |
| 3. Machine cover (620 × 580) | 12. Top pad L | 21. Plastic bags (200 × 450) |
| 4. Bottom spacer | 13. Top pad R | 22. Plastic bag (250 × 600) |
| 5. Plastic bag (650 × 650) | 14. Plastic bag (240 × 350) | 23. Operation labels |
| 6. Left spacer | 15. Installation guide etc. | 24. Operation label pad |
| 7. Bottom pads A | 16. CD-ROM | 25. Modular cable* |
| 8. Bottom pads B | 17. Middle spacer | 26. Plastic bag* |
| 9. Bottom case | 18. Power cord | 27. Hinge joints |
| | | *: 4 in 1 model (with FAX) only. |

Place the machine on a level surface.

Removing the tapes and pads

1. Open the DP.
2. Remove two tapes.
3. Remove two sheets.

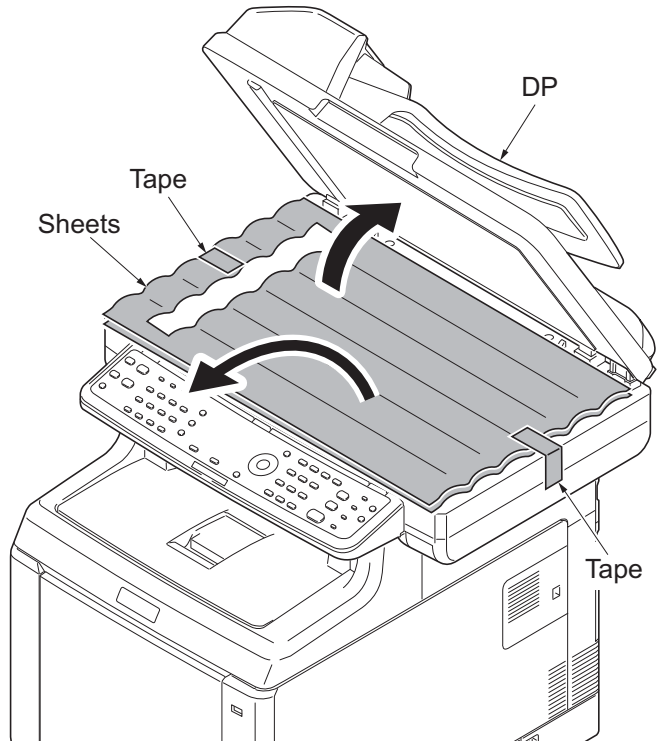


Figure 1-2-4

4. Remove the paper.

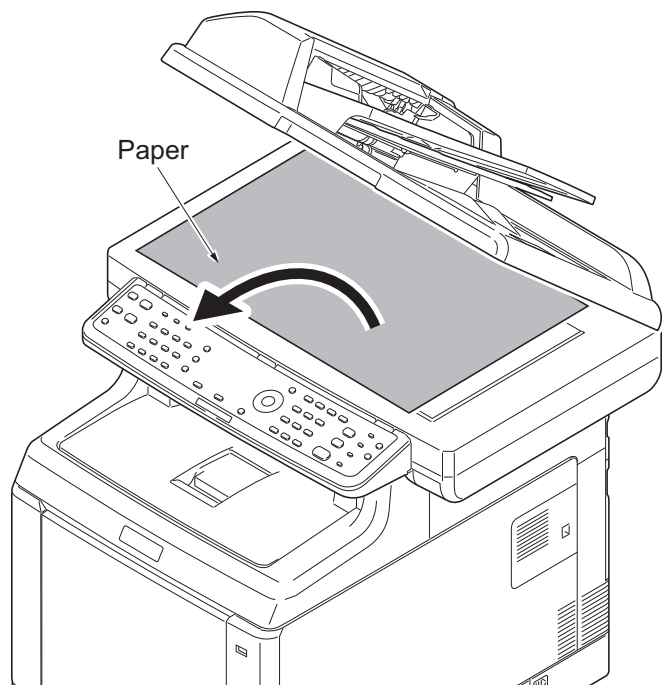


Figure 1-2-5

5. Remove the tape A and pad.
6. Move the lock lever to the position of release.
- * : When turning on power if the lock lever is not released, the error message is displayed.
7. Remove the tape B.
8. Close the DP.

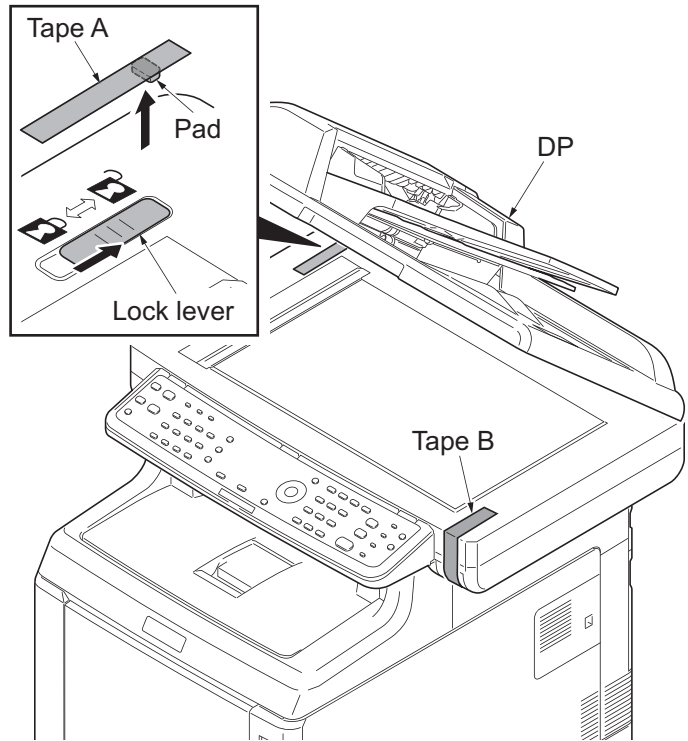


Figure 1-2-6

9. Remove three tapes.

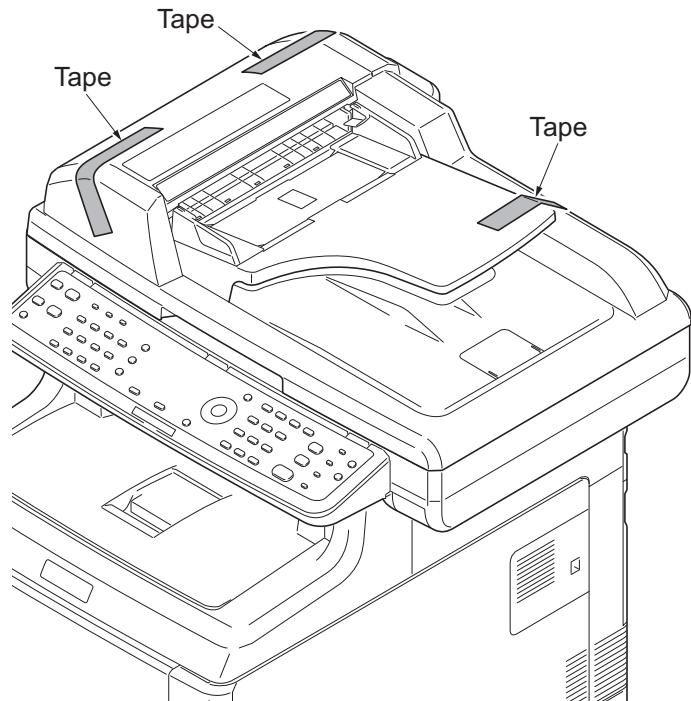


Figure 1-2-7

- 10. Open the DP top cover.
- 11. Remove two tapes.
- 12. Close the DP top cover.

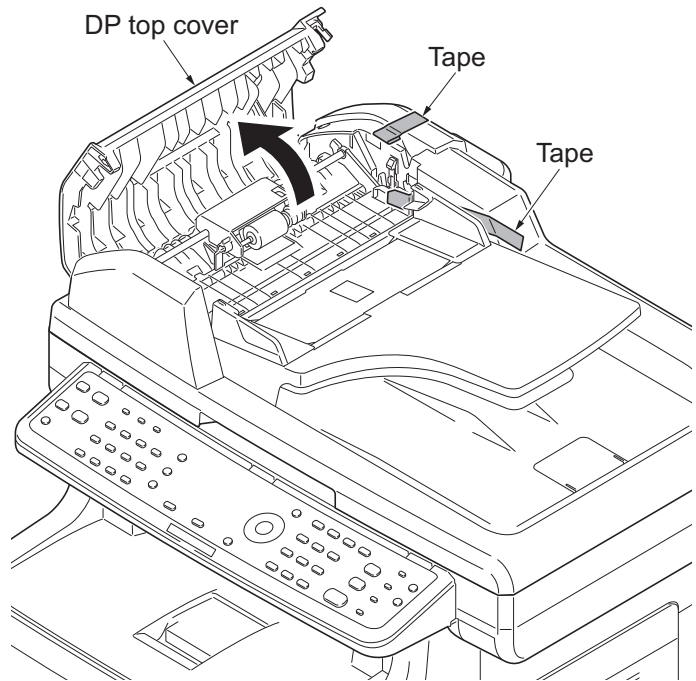


Figure 1-2-8

- 13. Remove five tapes.

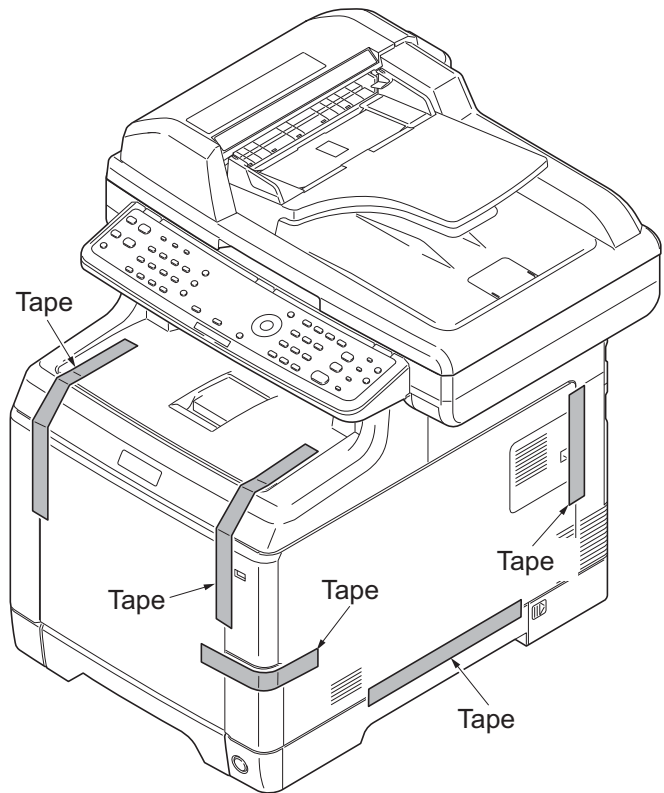


Figure 1-2-9

14. Remove four tapes.

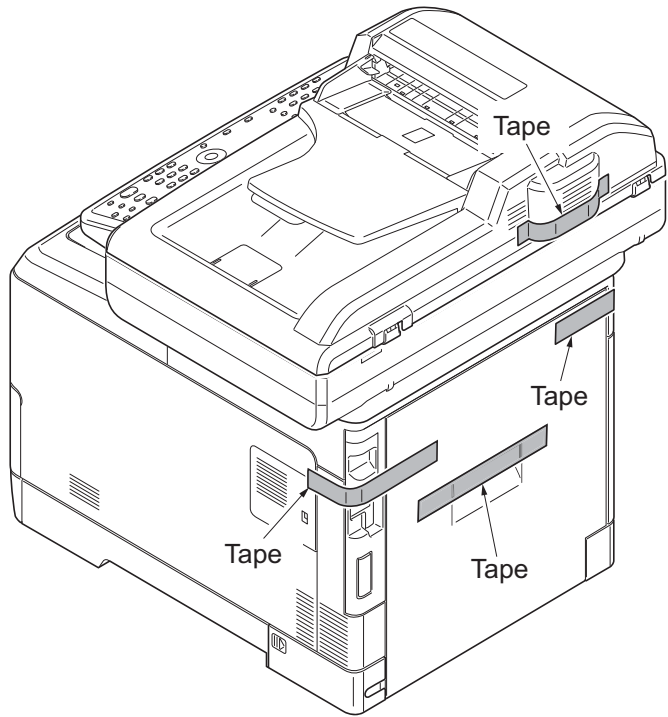


Figure 1-2-10

- 15. Open the top tray.
- 16. Remove pads A and B.
- 17. Close the top tray.

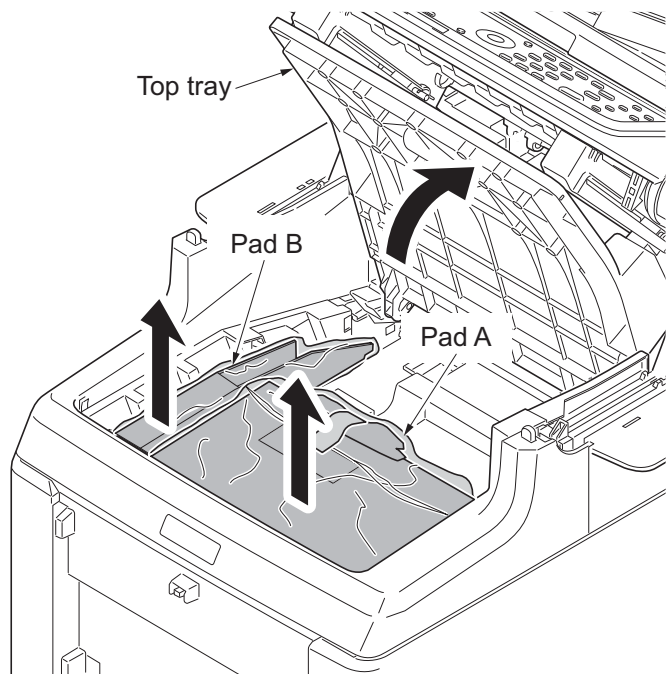


Figure 1-2-11

Installing the toner containers

1. Slide the release lever backward.

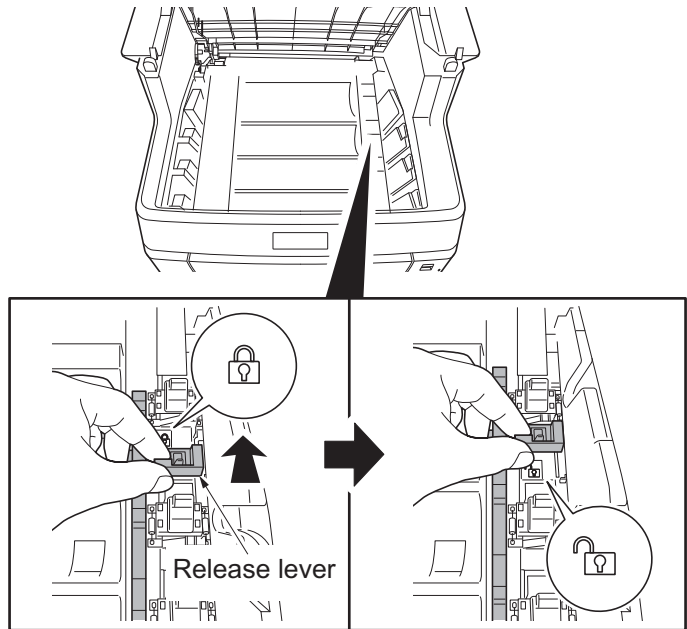


Figure 1-2-12

2. Facing the toner feed slot up and shake the toner container 5 to 6 times.

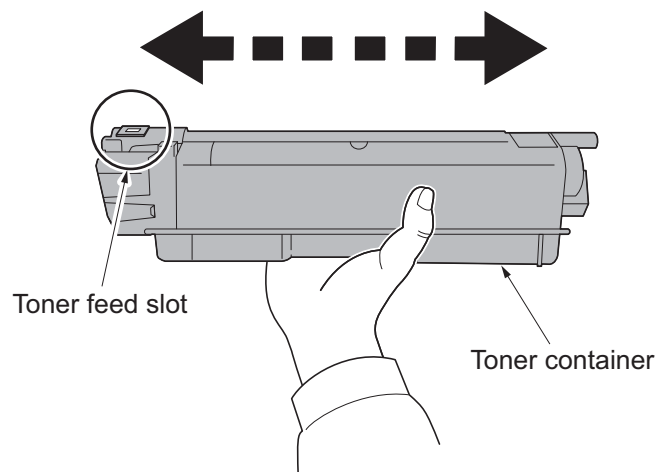


Figure 1-2-13

3. Install toner containers (K, M, C, Y).
4. Close the top cover.

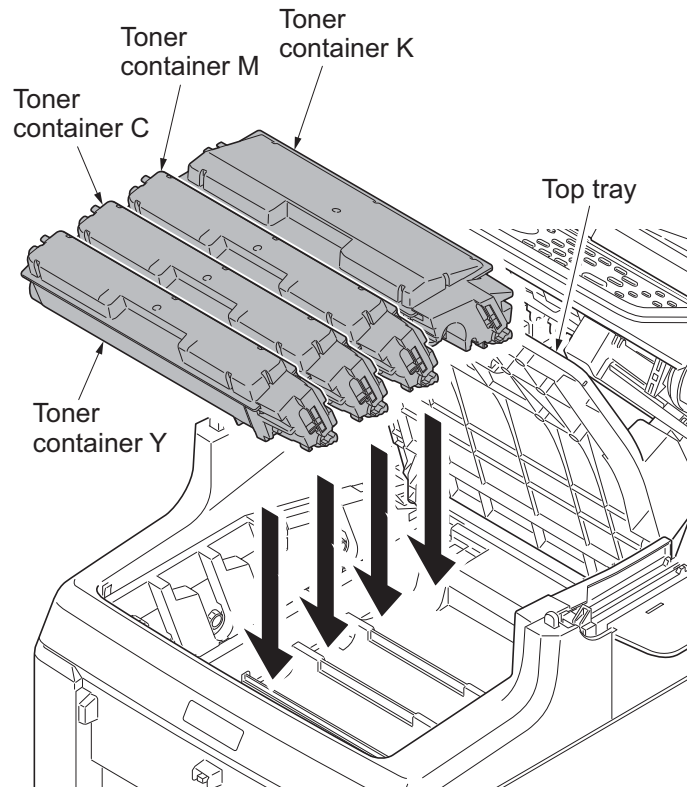


Figure 1-2-14

Installing the waste toner box

1. Open the waste toner cover.
2. Open the cap of the waste toner box.
3. Install the waste toner box.
4. Close the waste toner cover.

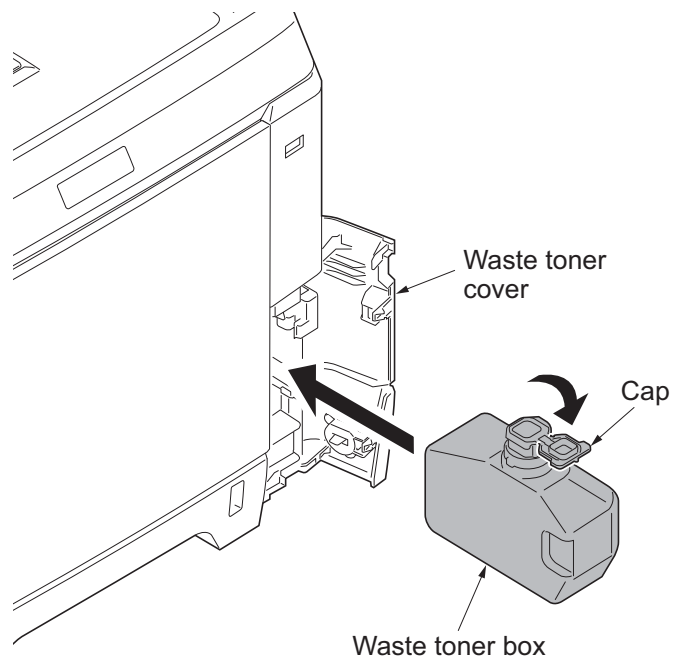


Figure 1-2-15

Loading paper

1. Pull the cassette out.
2. While pressing the width lever, adjust the paper width guides to fit the paper size.
3. While pressing the length lever, adjust the paper length guide to fit the paper size.

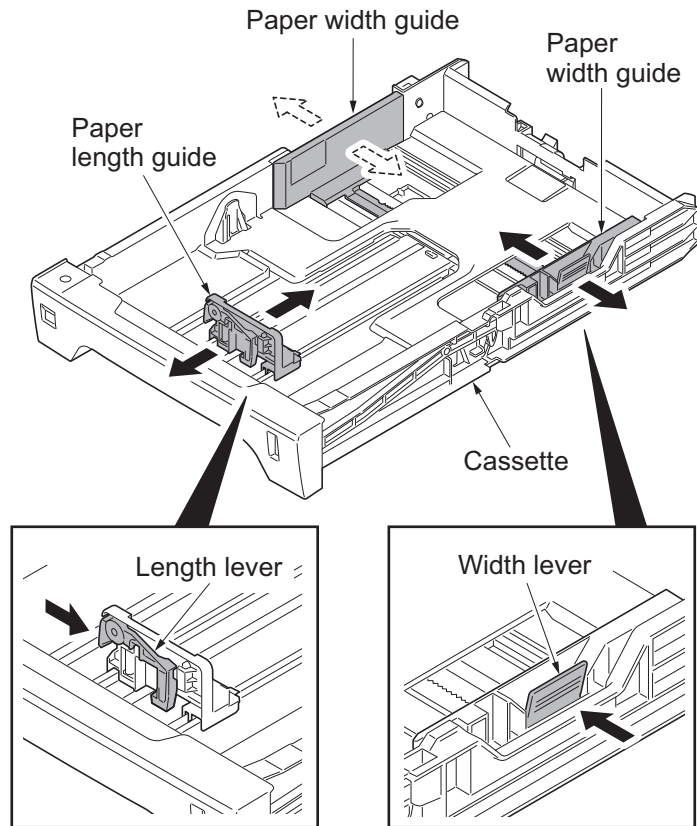


Figure 1-2-16

4. Load the paper in the cassette.
5. Turn the paper size dial so that it shows the paper size you are going to use.
6. Insert the cassette.

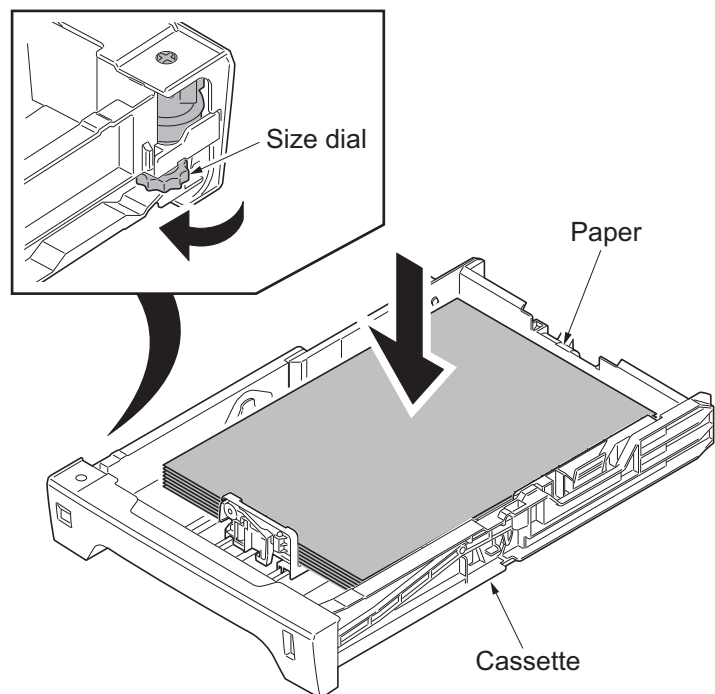


Figure 1-2-17

Connecting the interface cable

1. Connect the interface cable to the machine and PC or network.

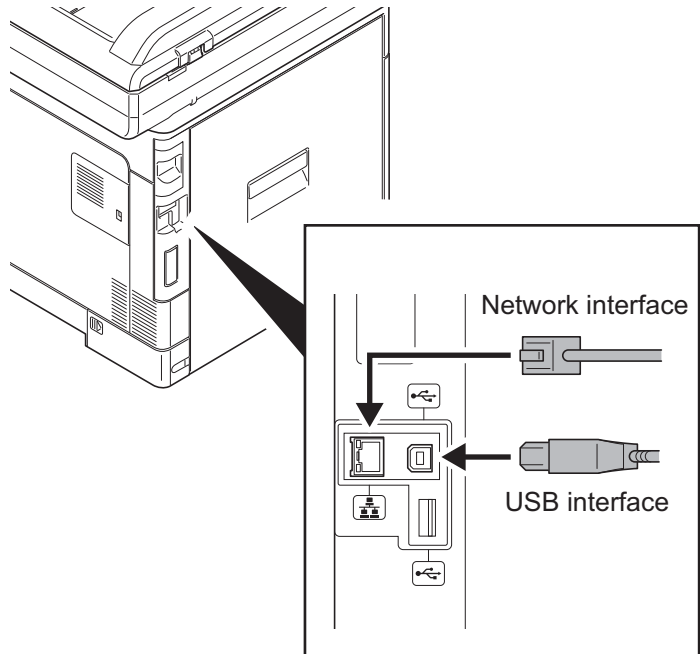


Figure 1-2-18

Connecting the power cord

1. Remove the power cord cover.
2. Connect the power cord to the machine and the wall outlet.
3. Refit the power cord cover.
4. Press the main power switch to turn power on.
5. Installing the printer driver (refer to operation guide).

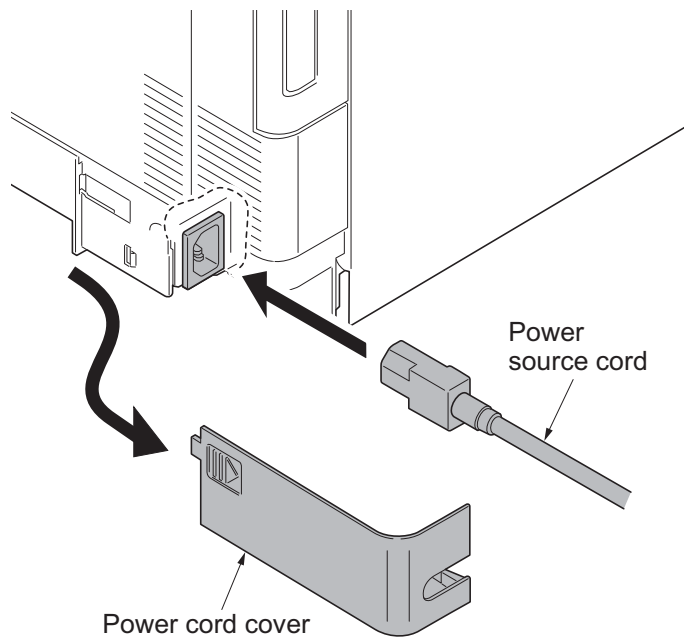


Figure 1-2-19

Completion of the machine installation

1-2-3 Installing the expansion memory (option)

Procedure

1. Turn off the main power switch.
Caution: Do not insert or remove expansion memory while machine power is on.
 Doing so may cause damage to the machine and the expansion memory.
2. Remove the memory cover.

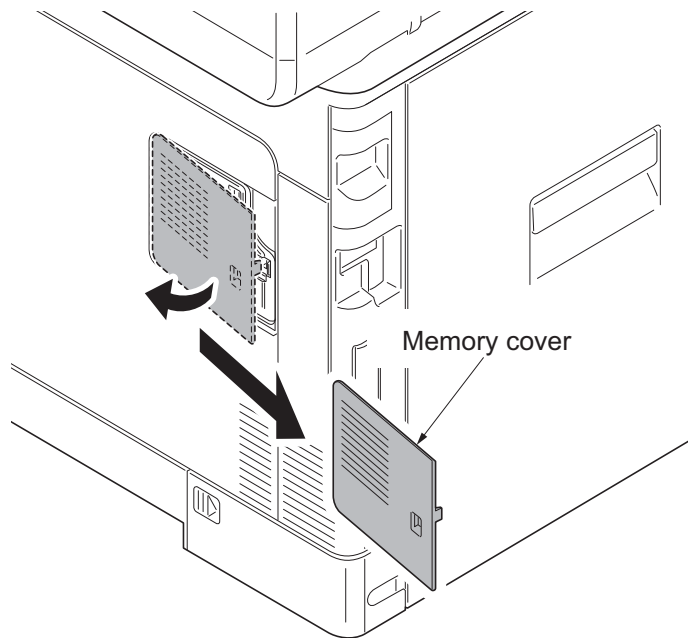


Figure 1-2-20

3. Release the hook and then open the fan bracket.

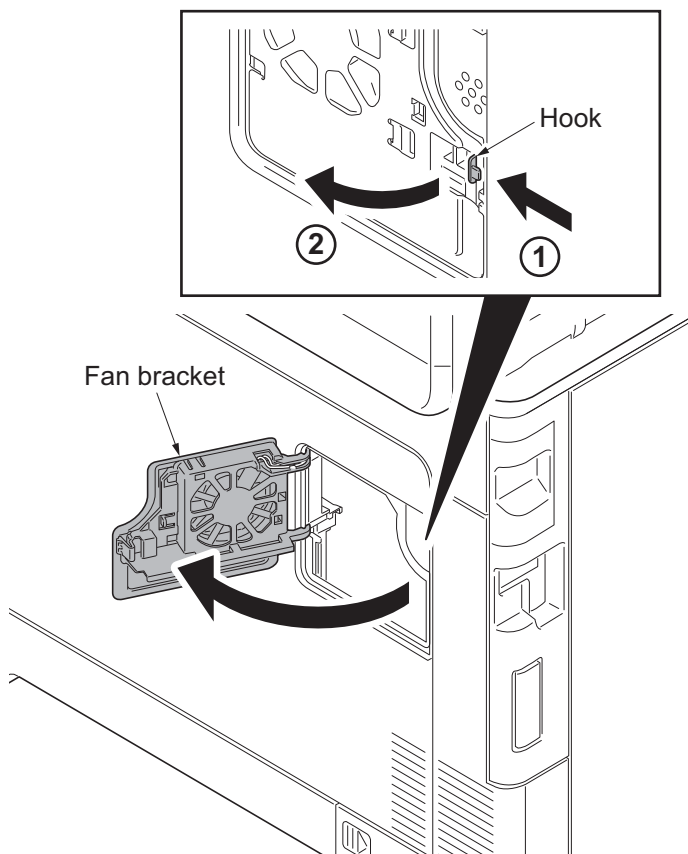
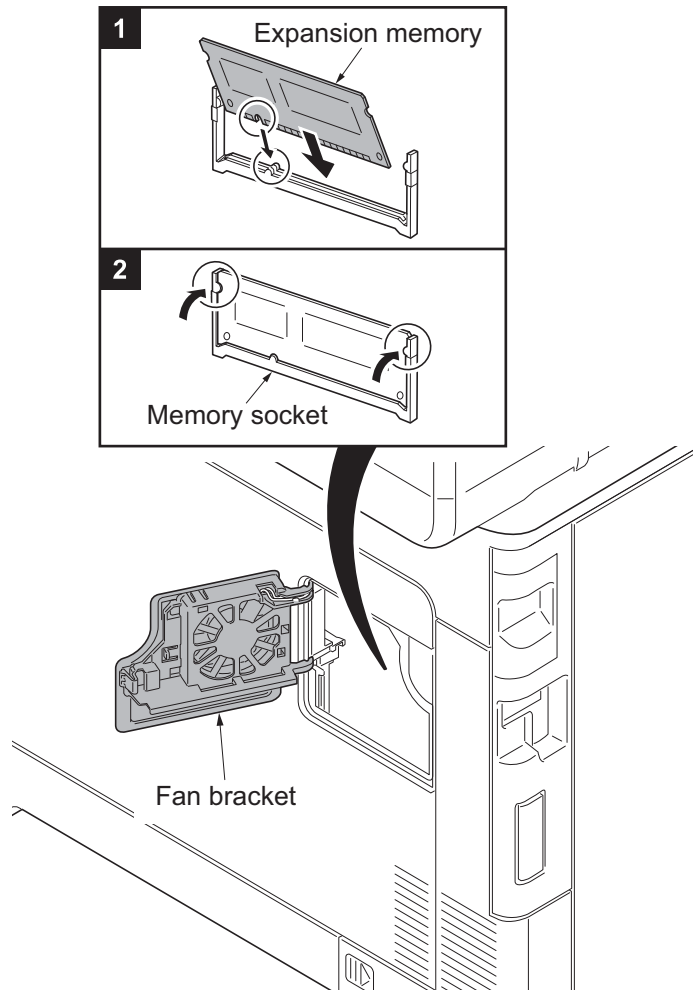


Figure 1-2-21

4. Insert the expansion memory into the memory socket so that the notches on the memory align with the corresponding protrusions in the slot.
 5. Close the fan bracket.
 6. Refit the memory cover.
 7. Print a status page to check the memory expansion (see page 1-3-76).
- If memory expansion has been properly performed, information on the installed memory is printed with the total memory capacity has been increased. Standard memory capacity 768 MB.

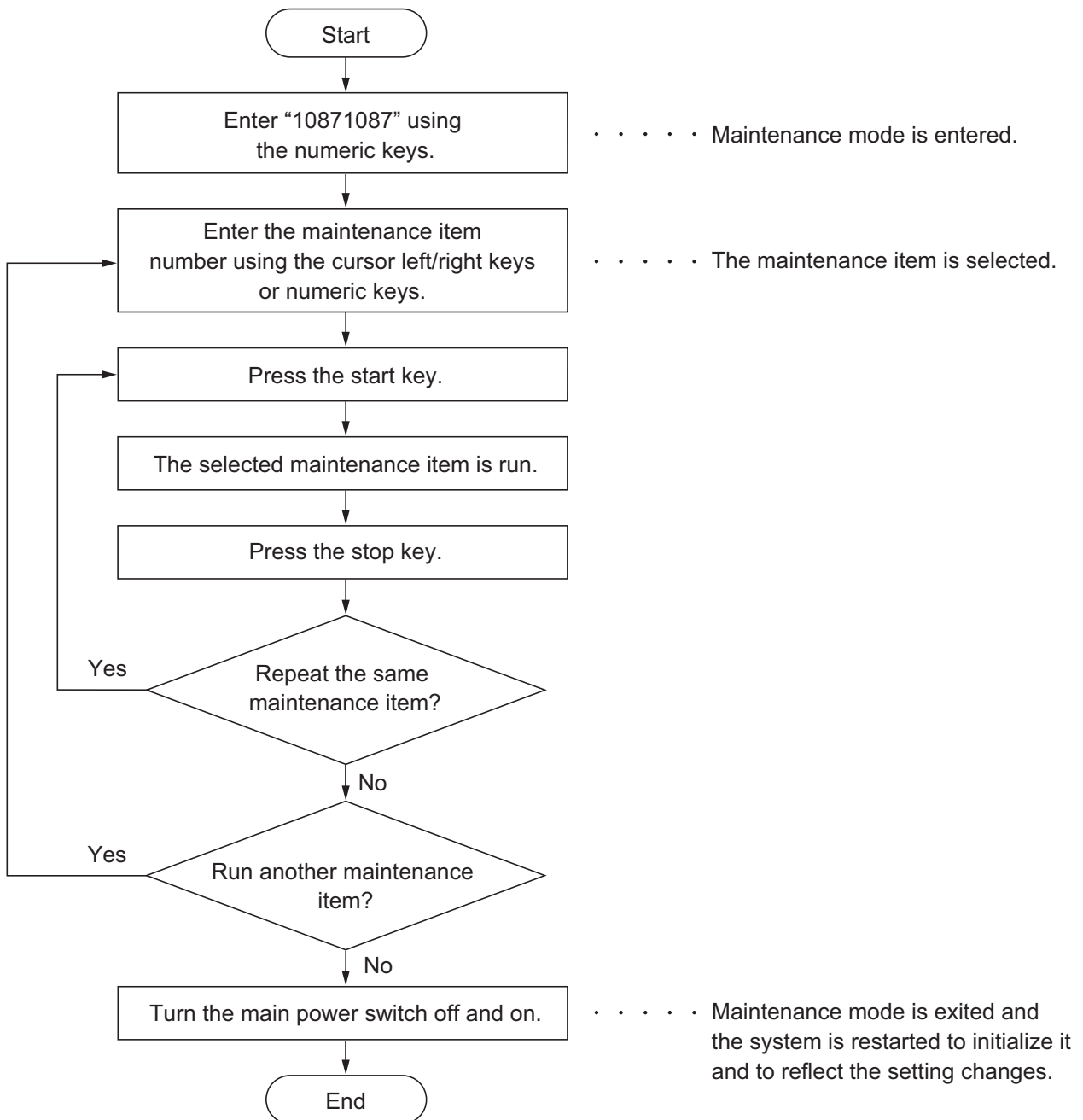
**Figure 1-2-22**

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1-3-1 Maintenance mode

The machine is equipped with a maintenance function which can be used to maintain and service the machine.

(1) Executing a maintenance item



(2) Maintenance modes item list

Section	Item No.	Content of maintenance item	Initial setting
General	U000	Outputting an own-status report	-
	U001	Exit Maintenance Mode	-
	U002	Setting the factory default data	-
	U010	Set Mainte ID	-
	U019	Firmware Version	-
Initialization	U021	Memory initializing	-
Drive, paper feed and paper conveying system	U034	Adjust Paper Timing Data LSU Out Top LSU Out Left	0/0/0 0/0/0/0/0
Optical	U065	Adjust Scanner Motor Speed	0/0
	U066	Adjust Table Leading Edge Timing	0/0
	U067	Adjust Table Center	0/0
	U068	Adjust DP Scan Position	0/0
	U070	Adjust DP Motor Speed	0
	U071	Adjust DP Leading Edge Timing	0/0/0/0/0
	U072	Adjust DP Original Center	0/12/0
Operation panel and support equipment	U203	Checking DP operation	-
	U222	Setting the IC card type	Other
Mode setting	U250	Setting the maintenance cycle	200000
	U251	Checking/clearing the maintenance count	0
	U252	Setting the destination	-
	U253	Switching between double and single counts	Double count
	U260	Selecting the timing for copy counting	Eject
	U285	Setting service status page	On
	U332	Setting the size conversion factor	1.0
	U345	Setting the value for maintenance due indication	0
Image processing	U402	Adjust Print Margin	4.0/4.0/4.0/4.0
	U403	Adjust Scanning Margin(Table)	2.0/2.0/2.0/2.0
	U404	Adjust Scanning Margin(DP)	3.0/2.5/3.0/4.0
	U410	Adjusting the halftone automatically	-
	U411	Adjusting the scanner automatically	-
	U425	Setting the target	-

Section	Item No.	Content of maintenance item	Initial setting
Fax	U600	Initializing all data	-
	U601	Initializing permanent data	-
	U603	Setting user data 1	DTMF
	U604	Setting user data 2	2 (120 V) 1 (220-240 V)
	U605	Clearing data	-
	U610	Setting system 1 Setting the number of lines to be ignored when receiving a fax at 100% magnification Setting the number of lines to be ignored when receiving a fax in the auto reduction mode Setting the number of lines to be ignored when receiving a fax (A4R/LetterR) in the auto reduction mode	3 0 0
	U611	Setting system 2 Setting the number of adjustment lines for automatic reduction Setting the number of adjustment lines for automatic reduction when A4 paper is set Setting the number of adjustment lines for automatic reduction when letter size paper is set	7 22 26
	U612	Setting system 3 Selecting if auto reduction in the auxiliary direction is to be performed Setting the automatic printing of the protocol list Setting how trailing edge margins are detected	On Off On
	U620	Setting the remote switching mode	One
	U625	Setting the transmission system 1 Setting the auto redialing interval Setting the number of times of auto redialing	3 (120 V) 2 (220-240 V) 2 (120 V) 3 (220-240 V)
	U630	Setting communication control 1 Setting the communication starting speed Setting the reception speed Setting the waiting period to prevent echo problems at the sender Setting the waiting period to prevent echo problems at the receiver	14400bps/V17 14400bps 300 75
	U631	Setting communication control 2 Setting ECM transmission Setting ECM reception Setting the frequency of the CED signal	On On 2100
	U632	Setting communication control 3 Setting the DIS signal to 4 bytes Setting the CNG detection times in the fax/telephone auto select mode	Off 2Time

Section	Item No.	Content of maintenance item	Initial setting
Fax	U633	Setting communication control 4 Enabling/disabling V.34 communication Setting the number of times of DIS signal reception Setting the number of times of DIS signal reception Setting the reference for RTN signal output	On On Once 15%
	U634	Setting communication control 5	0
	U640	Setting communication time 1 Setting the one-shot detection time for remote switching Setting the continuous detection time for remote switching	7 80
	U641	Setting communication time 2 Setting the T0 time-out time Setting the T1 time-out time Setting the T2 time-out time Setting the Ta time-out time Setting the Tb1 time-out time Setting the Tb2 time-out time Setting the Tc time-out time Setting the Td time-out time	56 36 69 30 20 80 60 9 (120 V) 6 (220-240 V)
	U650	Setting modem 1 Setting the G3 transmission cable equalizer Setting the G3 reception cable equalizer Setting the modem detection level	0dB 0dB -43dBm
	U651	Setting modem 2 Modem output level DTMF output level (main value) DTMF output level (level difference)	9 (120 V) 10 (220-240 V) 5 (120 V) 10.5 (220-240 V) 2 (120 V) 2.5 (220-240 V)
	U660	Setting the NCU Setting the connection to PBX/PSTN Setting PSTN dial tone detection Setting busy tone detection Setting for a PBX Setting the loop current detection before dialing	PSTN On On Loop On
	U670	Outputting lists	-
	U695	FAX function customize	On/Off
U699	Setting the software switches	-	

Section	Item No.	Content of maintenance item	Initial setting
Others	U910	Clearing the print coverage data	-
	U917	Setting backup data reading/writing	-
	U920	Checking the copy counts	-
	U927	Clearing the all copy counts and machine life counts (one time only)	-
	U928	Checking machine life counts	-
	U977	Data capture mode	-
	U995	Memory data Individual setting	-

(3) Contents of the maintenance mode items

Item No.	Description																
U000	<p data-bbox="287 291 702 324">Outputting an own-status report</p> <p data-bbox="287 358 438 392">Description Outputs lists of the current settings of the maintenance items and paper jam and service call occurrences. Outputs the event log. Also sends output data to the USB memory.</p> <p data-bbox="287 459 399 492">Purpose To check the current setting of the maintenance items, or paper jam or service call occurrences. Before initializing or replacing the backup RAM, output a list of the current settings of the maintenance items to reenter the settings after initialization or replacement.</p> <p data-bbox="287 638 391 672">Method</p> <ol data-bbox="303 672 1037 739" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be output using the cursor up/down keys. <table border="1" data-bbox="335 750 1396 940"> <thead> <tr> <th data-bbox="343 750 638 795">Display</th> <th data-bbox="638 750 1396 795">Output list</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 795 638 840">Maintenance</td> <td data-bbox="638 795 1396 840">List of the current settings of the maintenance modes</td> </tr> <tr> <td data-bbox="343 840 638 884">Event</td> <td data-bbox="638 840 1396 884">Outputs the event log</td> </tr> <tr> <td data-bbox="343 884 638 940">All</td> <td data-bbox="638 884 1396 940">Outputs the all reports</td> </tr> </tbody> </table> <ol data-bbox="303 952 750 985" style="list-style-type: none"> 3. Press the start key. A list is output. <p data-bbox="287 1019 726 1052">Method: Send to the USB memory</p> <ol data-bbox="303 1052 1428 1332" style="list-style-type: none"> 1. Press the power key on the operation panel, and after verifying the main power indicator has gone off, switch off the main power switch. 2. Insert USB memory in USB memory slot. 3. Turn the main power switch on. 4. Enter the maintenance item. 5. Press the start key. 6. Select the item to be send. 7. Select [Text] or [HTML]. <table border="1" data-bbox="335 1344 1396 1534"> <thead> <tr> <th data-bbox="343 1344 638 1388">Display</th> <th data-bbox="638 1344 1396 1388">Output list</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 1388 638 1433">Print</td> <td data-bbox="638 1388 1396 1433">Outputs the report</td> </tr> <tr> <td data-bbox="343 1433 638 1478">USB (Text)</td> <td data-bbox="638 1433 1396 1478">Sends output data to the USB memory (text type)</td> </tr> <tr> <td data-bbox="343 1478 638 1534">USB (HTML)</td> <td data-bbox="638 1478 1396 1534">Sends output data to the USB memory (HTML type)</td> </tr> </tbody> </table> <ol data-bbox="303 1545 805 1612" style="list-style-type: none"> 8. Press the start key. Output will be sent to the USB memory. <p data-bbox="287 1646 438 1680">Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Output list	Maintenance	List of the current settings of the maintenance modes	Event	Outputs the event log	All	Outputs the all reports	Display	Output list	Print	Outputs the report	USB (Text)	Sends output data to the USB memory (text type)	USB (HTML)	Sends output data to the USB memory (HTML type)
Display	Output list																
Maintenance	List of the current settings of the maintenance modes																
Event	Outputs the event log																
All	Outputs the all reports																
Display	Output list																
Print	Outputs the report																
USB (Text)	Sends output data to the USB memory (text type)																
USB (HTML)	Sends output data to the USB memory (HTML type)																

Item No.	Description																																																																																																																																																																																																			
U000	<p data-bbox="288 241 414 275">Event log</p> <div data-bbox="323 304 1396 1608" style="border: 1px solid black; padding: 10px;"> <h3 data-bbox="355 331 576 376">Event Log</h3> <p data-bbox="355 383 414 409">MFP</p> <p data-bbox="1153 383 1361 409">(2) 06/Apr/2010 08:40</p> <p data-bbox="347 439 831 465">(1) Firmware version 2KX_2000.000.000 2010.04.06</p> <p data-bbox="979 421 1361 465">(3) [XXXXXXXX] (4) [XXXXXXXX] (5) [XXXXXXXX]</p> <hr/> <div style="display: flex; justify-content: space-between;"> <div data-bbox="355 506 560 533">(7) Paper Jam Log</div> <div data-bbox="895 506 1115 533">(8) Service Call Log</div> </div> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">#</th> <th style="width: 15%;">Count.</th> <th style="width: 45%;">Event Descriptions</th> <th style="width: 10%;">#</th> <th style="width: 15%;">Count.</th> <th style="width: 15%;">Service Code</th> </tr> </thead> <tbody> <tr><td>16</td><td>1876543</td><td>0501.01.08.01.01</td><td>8</td><td>1881214</td><td>01.6000</td></tr> <tr><td>15</td><td>166554</td><td>4020.01.08.01.01</td><td>7</td><td>178944</td><td>01.2100</td></tr> <tr><td>14</td><td>4988</td><td>0501.01.08.01.01</td><td>6</td><td>5296</td><td>01.4000</td></tr> <tr><td>13</td><td>4988</td><td>4020.01.08.01.01</td><td>5</td><td>5295</td><td>01.6000</td></tr> <tr><td>12</td><td>4988</td><td>0501.01.08.01.01</td><td>4</td><td>2099</td><td>01.2100</td></tr> <tr><td>11</td><td>4988</td><td>4020.01.08.01.01</td><td>3</td><td>1054</td><td>01.4000</td></tr> <tr><td>10</td><td>1103</td><td>0501.01.08.01.01</td><td>2</td><td>809</td><td>01.6000</td></tr> <tr><td>9</td><td>1103</td><td>4020.01.08.01.01</td><td>1</td><td>30</td><td>01.2100</td></tr> <tr><td>8</td><td>1103</td><td>0501.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>7</td><td>1103</td><td>4020.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>6</td><td>1027</td><td>0501.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>5</td><td>1027</td><td>4020.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>1027</td><td>0501.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>1027</td><td>4020.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>406</td><td>0501.01.08.01.01</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>36</td><td>4020.01.08.01.01</td><td></td><td></td><td></td></tr> </tbody> </table> <div data-bbox="895 757 1123 784" style="margin-top: 10px;">(9) Maintenance Log</div> <table border="0" style="width: 100%; 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Figure 1-3-1

Item No.	Description									
U000	Detail of event log									
	No.	Items	Description							
	(1)	System version								
	(2)	System date								
	(3)	Engine soft version								
	(4)	Engine boot version								
	(5)	Operation panel mask version								
	(6)	Machine serial number								
	(7)	Paper Jam Log	<table border="1"> <thead> <tr> <th data-bbox="547 622 841 667">#</th> <th data-bbox="849 622 1114 667">Count.</th> <th data-bbox="1114 622 1425 667">Event</th> </tr> </thead> <tbody> <tr> <td data-bbox="547 667 841 992">Remembers 1 to 16 of occurrence. If the occurrence of the previous paper jam is less than 16, all of the paper jams are logged. When the occurrence exceeds 16, the oldest occurrence is removed.</td> <td data-bbox="849 667 1114 992">The total page count at the time of the paper jam.</td> <td data-bbox="1114 667 1425 992">Log code (hexadecimal, 5 categories) (a) Cause of a paper jam (b) Paper source (c) Paper size (d) Paper type (e) Paper eject</td> </tr> </tbody> </table>	#	Count.	Event	Remembers 1 to 16 of occurrence. If the occurrence of the previous paper jam is less than 16, all of the paper jams are logged. When the occurrence exceeds 16, the oldest occurrence is removed.	The total page count at the time of the paper jam.	Log code (hexadecimal, 5 categories) (a) Cause of a paper jam (b) Paper source (c) Paper size (d) Paper type (e) Paper eject	<p data-bbox="547 992 1007 1037">(a) Cause of paper jam (Hexadecimal)</p> <p data-bbox="547 1037 1007 1081">Refer to P.1-4-1 for paper jam location</p> <p data-bbox="547 1081 930 1126">0100: Controller sequence error</p> <p data-bbox="547 1126 1010 1171">0105: Registration sensor not detected</p> <p data-bbox="547 1171 930 1216">0106: Controller sequence error</p> <p data-bbox="547 1216 786 1261">0110: Top tray open</p> <p data-bbox="547 1261 818 1305">0111: Rear cover open</p> <p data-bbox="547 1305 818 1350">0112: Front cover open</p> <p data-bbox="547 1350 786 1395">0113: MP tray open</p> <p data-bbox="547 1395 930 1440">0120: Controller sequence error</p> <p data-bbox="547 1440 930 1485">0121: Controller sequence error</p> <p data-bbox="547 1485 1010 1529">0211: Rear cover open (paper feeder 1)</p> <p data-bbox="547 1529 1010 1574">0212: Rear cover open (paper feeder 2)</p> <p data-bbox="547 1574 978 1619">0501: No paper feed from cassette 1</p> <p data-bbox="547 1619 978 1664">0502: No paper feed from cassette 2</p> <p data-bbox="547 1664 978 1709">0503: No paper feed from cassette 3</p> <p data-bbox="547 1709 1026 1753">0508: No paper feed from duplex section</p> <p data-bbox="547 1753 946 1798">0509: No paper feed from MP tray</p> <p data-bbox="547 1798 946 1843">0511: Multiple sheets in cassette 1</p> <p data-bbox="547 1843 946 1888">0512: Multiple sheets in cassette 2</p> <p data-bbox="547 1888 946 1933">0513: Multiple sheets in cassette 3</p> <p data-bbox="547 1933 1010 1977">0518: Multiple sheets in duplex section</p> <p data-bbox="547 1977 930 2022">0519: Multiple sheets in MP tray</p> <p data-bbox="547 2022 1106 2067">1020: MP paper conveying sensor is turned ON</p> <p data-bbox="547 2067 1042 2112">1403: PF feed sensor 1 does not turn ON</p> <p data-bbox="547 2112 1042 2157">1413: PF feed sensor 1 does not turn OFF</p> <p data-bbox="547 2157 978 2201">1420: PF feed sensor 1 is turned ON</p> <p data-bbox="547 2201 978 2240">1620: PF feed sensor 2 is turned ON</p>
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Item No.	Description				
U000					
	No.	Items	Description		
	(7) cont.	Paper Jam Log	(d) Detail of paper type (Hexadecimal)		
			01: Plain 02: Transparency 03: Preprinted 04: Labels 05: Bond 06: Recycled 07: Vellum 08: Rough 09: Letterhead	0A: Color 0B: Prepunched 0C: Envelope 0D: Cardstock 0E: Coated 0F: 2nd side 10: Thick 11: High quality	15: Custom 1 16: Custom 2 17: Custom 3 18: Custom 4 19: Custom 5 1A: Custom 6 1B: Custom 7 1C: Custom 8
			(e) Detail of paper eject location (Hexadecimal)		
			01: Face down (FD)		
(8)	Service Call Log	#	Count.	Service Code	
		Remembers 1 to 8 of occurrence of self diagnostics error. If the occurrence of the previous diagnostics error is less than 8, all of the diagnostics errors are logged.	The total page count at the time of the self diagnostics error.	Self diagnostic error code (See page 1-4-7) Example: 01.6000 01: Self diagnostic error 6000: Self diagnostic error code number	
(9)	Maintenance Log	#	Count.	Item	
		Remembers 1 to 8 of occurrence of replacement. If the occurrence of the previous replacement of toner container is less than 8, all of the occurrences of replacement are logged.	The total page count at the time of the replacement of the toner container. * :The toner replacement log is triggered by toner empty. This record may contain such a reference as the toner container is inserted twice or a used toner container is inserted.	Code of maintenance replacing item (1 byte, 2 categories) First byte (Replacing item) 01: Toner container Second byte (Type of replacing item) 00: Black 01: Cyan 02: Magenta 03: Yellow First byte (Replacing item) 02: Maintenance kit Second byte (Type of replacing item) 01: MK-590/592/594	

Item No.	Description				
U000	Description				
	No.	Items	Description		
	(10)	Unknown Toner Log	<p>#</p> <p>Remembers 1 to 5 of occurrence of unknown toner detection. If the occurrence of the previous unknown toner detection is less than 5, all of the unknown toner detection are logged.</p>	<p>Count.</p> <p>The total page count at the time of the toner empty error with using an unknown toner container.</p>	<p>Item</p> <p>Unknown toner log code (1 byte, 2 categories)</p> <p>First byte 01: Toner container (Fixed)</p> <p>Second byte 00: Black 01: Cyan 02: Magenta 03: Yellow</p>
	(11)	<p>Counter Log</p> <p>Comprised of three log counters including paper jams, self diagnostics errors, and replacement of the toner container.</p>	<p>(f) Paper jam</p> <p>Indicates the log counter of paper jams depending on location.</p> <p>Refer to Paper Jam Log.</p> <p>All instances including those are not occurred are displayed.</p>	<p>(g) Self diagnostic error</p> <p>Indicates the log counter of self diagnostics errors depending on cause. (See page 1-4-7)</p> <p>Example: C6000: 4</p> <p>Self diagnostics error 6000 has happened four times.</p>	<p>(h) Maintenance item replacing</p> <p>Indicates the log counter depending on the maintenance item for maintenance.</p> <p>T: Toner container 00: Black 01: Cyan 02: Magenta 03: Yellow</p> <p>M: Maintenance kit 01: MK-590/592/594</p> <p>Example: T00: 1 The toner container has been replaced once.</p> <p>* :The toner replacement log is triggered by toner empty. This record may contain such a reference as the toner container is inserted twice or a used toner container is inserted.</p>

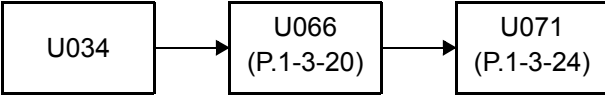
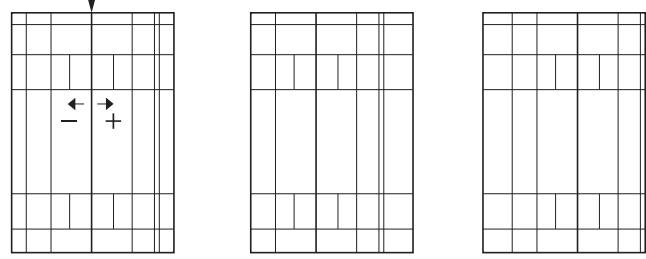
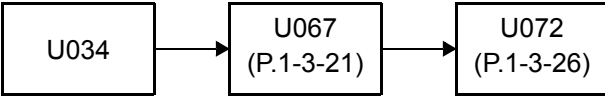
Item No.	Description								
U001	<p>Exit Maintenance Mode</p> <p>Description Exits the maintenance mode and returns to the normal copy mode.</p> <p>Purpose To exit the maintenance mode.</p> <p>Method 1. Press the start key. The normal copy mode is entered.</p>								
U002	<p>Setting the factory default data</p> <p>Description Restores the machine conditions to the factory default settings.</p> <p>Purpose To move the image scanner unit to the home position.</p> <p>Method 1. Press the start key. 2. Select [Mode1(All)] using the cursor up/down keys. 3. Press the start key. The image scanner unit returns to the home position. 4. Turn the main power switch off and on. * : An error code is displayed in case of an initialization error. When errors occurred, turn main power switch off then on, and execute initialization using maintenance item U002.</p> <p>Error codes</p> <table border="1" data-bbox="336 1305 1401 1496"> <thead> <tr> <th data-bbox="336 1305 639 1352">Codes</th> <th data-bbox="639 1305 1401 1352">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1352 639 1400">0001</td> <td data-bbox="639 1352 1401 1400">Controller error</td> </tr> <tr> <td data-bbox="336 1400 639 1447">0020</td> <td data-bbox="639 1400 1401 1447">Engine error</td> </tr> <tr> <td data-bbox="336 1447 639 1496">0040</td> <td data-bbox="639 1447 1401 1496">Scanner error</td> </tr> </tbody> </table>	Codes	Description	0001	Controller error	0020	Engine error	0040	Scanner error
Codes	Description								
0001	Controller error								
0020	Engine error								
0040	Scanner error								


Item No.	Description						
U010	<p>Set Mainte ID</p> <p>Description Maintenance mode ID for markets is changed.</p> <p>Purpose The brittleness of a security function is improved by changing maintenance mode ID for markets.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set. <table border="1" data-bbox="338 618 1401 761"> <thead> <tr> <th data-bbox="338 618 641 663">Display</th> <th data-bbox="641 618 1401 663">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 663 641 707">Change</td> <td data-bbox="641 663 1401 707">Maintenance mode ID for markets is changed.</td> </tr> <tr> <td data-bbox="338 707 641 761">Initialize</td> <td data-bbox="641 707 1401 761">Maintenance mode ID for markets is initialized.</td> </tr> </tbody> </table> <p>[Setting: Change]</p> <ol style="list-style-type: none"> 1. Select the [New ID(Reconfirm)]. 2. New ID is inputted using a ten key. * : New ID of 8 figures is taken as the arbitrary combination of 0 to 9, *, and #. (* or # is certainly included) 3. Select the [Excute]. 4. Press the start key. ID is set. 5. Turn the main power switch off and on. Allow more than 5 seconds between Off and On. <p>[Setting: Initialaize]</p> <ol style="list-style-type: none"> 1. Select the [Excute]. 2. Press the start key. ID is intialized. 3. Turn the main power switch off and on. Allow more than 5 seconds between Off and On. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Change	Maintenance mode ID for markets is changed.	Initialize	Maintenance mode ID for markets is initialized.
Display	Description						
Change	Maintenance mode ID for markets is changed.						
Initialize	Maintenance mode ID for markets is initialized.						


Item No.	Description																												
U019	<p data-bbox="288 244 517 271">Firmware Version</p> <p data-bbox="288 315 440 342">Description Displays the part number of the ROM fitted to each PWB.</p> <p data-bbox="288 387 400 414">Purpose To check the part number or to decide, if the newest version of ROM is installed.</p> <p data-bbox="288 488 387 515">Method</p> <ol data-bbox="304 521 954 584" style="list-style-type: none"> 1. Press the start key. The ROM version are displayed. 2. Change the screen using the cursor up/down keys. <table border="1" data-bbox="336 600 1401 1267"> <thead> <tr> <th data-bbox="336 600 639 645">Display</th> <th data-bbox="639 600 1401 645">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 645 639 689">Main</td> <td data-bbox="639 645 1401 689">Main ROM</td> </tr> <tr> <td data-bbox="336 689 639 734">MMI</td> <td data-bbox="639 689 1401 734">Operation ROM</td> </tr> <tr> <td data-bbox="336 734 639 779">Engine</td> <td data-bbox="639 734 1401 779">Engine ROM</td> </tr> <tr> <td data-bbox="336 779 639 824">Engine Boot</td> <td data-bbox="639 779 1401 824">Engine booting</td> </tr> <tr> <td data-bbox="336 824 639 869">Scanner</td> <td data-bbox="639 824 1401 869">Scanner ROM</td> </tr> <tr> <td data-bbox="336 869 639 913">Scanner Boot</td> <td data-bbox="639 869 1401 913">Scanner booting</td> </tr> <tr> <td data-bbox="336 913 639 958">Option Language</td> <td data-bbox="639 913 1401 958">Optional language ROM</td> </tr> <tr> <td data-bbox="336 958 639 1003">Color Table</td> <td data-bbox="639 958 1401 1003">Color table ROM</td> </tr> <tr> <td data-bbox="336 1003 639 1048">Cassette2</td> <td data-bbox="639 1003 1401 1048">Paper feeder 2</td> </tr> <tr> <td data-bbox="336 1048 639 1093">Cassette3</td> <td data-bbox="639 1048 1401 1093">Paper feeder 3</td> </tr> <tr> <td data-bbox="336 1093 639 1137">Fax Boot</td> <td data-bbox="639 1093 1401 1137">Fax Boot</td> </tr> <tr> <td data-bbox="336 1137 639 1182">Fax APL</td> <td data-bbox="639 1137 1401 1182">Fax APL</td> </tr> <tr> <td data-bbox="336 1182 639 1227">Fax IPL</td> <td data-bbox="639 1182 1401 1227">Fax IPL</td> </tr> </tbody> </table> <p data-bbox="288 1308 440 1335">Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Main	Main ROM	MMI	Operation ROM	Engine	Engine ROM	Engine Boot	Engine booting	Scanner	Scanner ROM	Scanner Boot	Scanner booting	Option Language	Optional language ROM	Color Table	Color table ROM	Cassette2	Paper feeder 2	Cassette3	Paper feeder 3	Fax Boot	Fax Boot	Fax APL	Fax APL	Fax IPL	Fax IPL
Display	Description																												
Main	Main ROM																												
MMI	Operation ROM																												
Engine	Engine ROM																												
Engine Boot	Engine booting																												
Scanner	Scanner ROM																												
Scanner Boot	Scanner booting																												
Option Language	Optional language ROM																												
Color Table	Color table ROM																												
Cassette2	Paper feeder 2																												
Cassette3	Paper feeder 3																												
Fax Boot	Fax Boot																												
Fax APL	Fax APL																												
Fax IPL	Fax IPL																												

Item No.	Description										
U021	<p data-bbox="288 244 533 275">Memory initializing</p> <p data-bbox="288 315 440 347">Description</p> <p data-bbox="288 349 1422 450">Initializes all settings, except those pertinent to the type of machine, namely each counter, service call history and mode setting. Also initializes backup RAM according to region specification selected in maintenance item U252 Setting the destination.</p> <p data-bbox="288 452 400 483">Purpose</p> <p data-bbox="288 486 922 517">To return the machine settings to their factory default.</p> <p data-bbox="288 557 387 589">Method</p> <ol data-bbox="304 591 1345 757" style="list-style-type: none"> <li data-bbox="304 591 564 622">1. Press the start key. <li data-bbox="304 624 539 656">2. Select [Execute]. <li data-bbox="304 658 1345 723">3. Press the start key. All data other than that for adjustments due to variations between machines is initialized based on the destination setting. <li data-bbox="304 725 798 757">4. Turn the main power switch off and on. <p data-bbox="336 761 1059 792">* : An error code is displayed in case of an initialization error.</p> <p data-bbox="368 795 1426 860">When errors occurred, turn main power switch off then on, and execute initialization using maintenance item U021.</p> <p data-bbox="336 900 488 931">Error codes</p> <table border="1" data-bbox="336 943 1401 1182"> <thead> <tr> <th data-bbox="336 943 639 992">Codes</th> <th data-bbox="639 943 1401 992">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 992 639 1041">0001</td> <td data-bbox="639 992 1401 1041">Entity error</td> </tr> <tr> <td data-bbox="336 1041 639 1090">0002</td> <td data-bbox="639 1041 1401 1090">Controller error</td> </tr> <tr> <td data-bbox="336 1090 639 1140">0020</td> <td data-bbox="639 1090 1401 1140">Engine error</td> </tr> <tr> <td data-bbox="336 1140 639 1182">0040</td> <td data-bbox="639 1140 1401 1182">Scanner error</td> </tr> </tbody> </table>	Codes	Description	0001	Entity error	0002	Controller error	0020	Engine error	0040	Scanner error
Codes	Description										
0001	Entity error										
0002	Controller error										
0020	Engine error										
0040	Scanner error										

Item No.	Description																										
<p>U034</p>	<p>Adjust Paper Timing Data</p> <p>Description Adjusts the leading edge registration or center line.</p> <p>Purpose Make the adjustment if there is a regular error between the leading edges of the copy image and original. Make the adjustment if there is a regular error between the center lines of the copy image and original.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item to be adjusted. <table border="1" data-bbox="336 701 1401 846"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>LSU Out Top</td> <td>Leading edge registration adjustment</td> </tr> <tr> <td>LSU Out Left</td> <td>Center line adjustment</td> </tr> </tbody> </table> <p>Adjustment: [LSU Out Top]</p> <ol style="list-style-type: none"> 1. Press the system menu key. 2. Press the start key to output a test pattern. 3. Press the system menu key. 4. Select the item to be adjusted. <table border="1" data-bbox="336 1093 1396 1323"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>MPT</td> <td>Paper feed from MP tray</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cassette</td> <td>Paper feed from cassette</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Duplex</td> <td>Duplex mode (second)</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 5. Change the setting value using the cursor left/right keys or numeric keys. For output example 1, increase the value. For output example 2, decrease the value. <div data-bbox="368 1473 1193 1798"> <p>Leading edge registration (20 ± 1.0 mm)</p> <p>Correct image</p> <p>Output example 1</p> <p>Output example 2</p> </div> <p>Figure 1-3-2</p> <ol style="list-style-type: none"> 6. Press the start key. The value is set. 	Display	Description	LSU Out Top	Leading edge registration adjustment	LSU Out Left	Center line adjustment	Display	Description	Setting range	Initial setting	Change in value per step	MPT	Paper feed from MP tray	-100 to 600	0	0.1 mm	Cassette	Paper feed from cassette	-100 to 600	0	0.1 mm	Duplex	Duplex mode (second)	-100 to 600	0	0.1 mm
Display	Description																										
LSU Out Top	Leading edge registration adjustment																										
LSU Out Left	Center line adjustment																										
Display	Description	Setting range	Initial setting	Change in value per step																							
MPT	Paper feed from MP tray	-100 to 600	0	0.1 mm																							
Cassette	Paper feed from cassette	-100 to 600	0	0.1 mm																							
Duplex	Duplex mode (second)	-100 to 600	0	0.1 mm																							

Item No.	Description																														
<p>U034</p>	<p>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</p> <div style="text-align: center;">  </div> <p>Adjustment: [LSU Out Left]</p> <ol style="list-style-type: none"> Press the system menu key. Press the start key to output a test pattern. Press the system menu key. Select the item to be adjusted. <table border="1" data-bbox="338 716 1391 1041"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>MPT</td> <td>Paper feed from MP tray</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cassette1</td> <td>Paper feed from optional cassette1</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cassette2</td> <td>Paper feed from optional cassette2</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cassette3</td> <td>Paper feed from optional cassette3</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Duplex</td> <td>Duplex mode (second)</td> <td>-100 to 600</td> <td>0</td> <td>0.1 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> Change the setting value using the cursor left/right keys or numeric keys. For output example 1, increase the value. For output example 2, decrease the value. <div style="text-align: center;"> <p>Center line of printing (within ± 2.0 mm)</p>  <p>Correct image Output example 1 Output example 2</p> </div> <p>Figure 1-3-3</p> <ol style="list-style-type: none"> Press the start key. The value is set. <p>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</p> <div style="text-align: center;">  </div> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	MPT	Paper feed from MP tray	-100 to 600	0	0.1 mm	Cassette1	Paper feed from optional cassette1	-100 to 600	0	0.1 mm	Cassette2	Paper feed from optional cassette2	-100 to 600	0	0.1 mm	Cassette3	Paper feed from optional cassette3	-100 to 600	0	0.1 mm	Duplex	Duplex mode (second)	-100 to 600	0	0.1 mm
Display	Description	Setting range	Initial setting	Change in value per step																											
MPT	Paper feed from MP tray	-100 to 600	0	0.1 mm																											
Cassette1	Paper feed from optional cassette1	-100 to 600	0	0.1 mm																											
Cassette2	Paper feed from optional cassette2	-100 to 600	0	0.1 mm																											
Cassette3	Paper feed from optional cassette3	-100 to 600	0	0.1 mm																											
Duplex	Duplex mode (second)	-100 to 600	0	0.1 mm																											


Item No.	Description															
U065	<p data-bbox="288 241 657 275">Adjust Scanner Motor Speed</p> <p data-bbox="288 313 440 342">Description Adjusts the magnification of the original scanning.</p> <p data-bbox="288 383 400 412">Purpose Make the adjustment if the magnification in the main scanning direction is incorrect. Make the adjustment if the magnification in the auxiliary scanning direction is incorrect.</p> <p data-bbox="288 521 387 551">Method</p> <ol data-bbox="304 557 1058 723" style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 734 1401 983"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Y Scan Zoom</td> <td>Scanner magnification in the main scanning direction</td> <td>-32 to 127</td> <td>0</td> <td>0.1 %</td> </tr> <tr> <td>X Scan Zoom</td> <td>Scanner magnification in the auxiliary scanning direction</td> <td>-25 to 25</td> <td>0</td> <td>0.1 %</td> </tr> </tbody> </table> <p data-bbox="288 1028 643 1059">Adjustment: [Y Scan Zoom]</p> <ol data-bbox="304 1066 1302 1164" style="list-style-type: none"> 1. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value. Increasing the setting enlarges the image and decreasing it narrows the image. <div data-bbox="667 1189 1058 1413" style="text-align: center;">  <p data-bbox="676 1352 762 1382">Original</p> <p data-bbox="804 1352 914 1413">Copy example 1</p> <p data-bbox="943 1352 1058 1413">Copy example 2</p> </div> <p data-bbox="783 1440 938 1469">Figure 1-3-4</p> <ol data-bbox="304 1507 767 1536" style="list-style-type: none"> 2. Press the start key. The value is set. 	Display	Description	Setting range	Initial setting	Change in value per step	Y Scan Zoom	Scanner magnification in the main scanning direction	-32 to 127	0	0.1 %	X Scan Zoom	Scanner magnification in the auxiliary scanning direction	-25 to 25	0	0.1 %
Display	Description	Setting range	Initial setting	Change in value per step												
Y Scan Zoom	Scanner magnification in the main scanning direction	-32 to 127	0	0.1 %												
X Scan Zoom	Scanner magnification in the auxiliary scanning direction	-25 to 25	0	0.1 %												

Item No.	Description
U065	<p data-bbox="288 244 643 275">Adjustment: [X Scan Zoom]</p> <p data-bbox="308 280 1412 412">1. Change the setting value using the left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value. Increasing the value makes the image longer, while decreasing the value makes the image shorter.</p> <div data-bbox="667 439 1054 658" style="text-align: center;"><p data-bbox="676 600 1054 658">Original Copy example 1 Copy example 2</p></div> <p data-bbox="783 689 938 721" style="text-align: center;">Figure 1-3-5</p> <p data-bbox="308 759 766 790">2. Press the start key. The value is set.</p> <p data-bbox="288 828 440 860">Completion</p> <p data-bbox="288 864 1254 896">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>

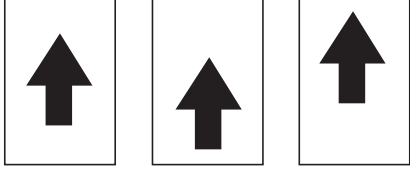
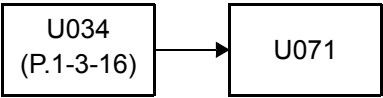
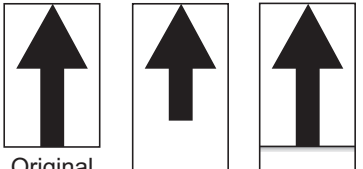
Item No.	Description															
<p>U066</p>	<p>Adjust Table Leading Edge Timing</p> <p>Description Adjusts the scanner leading edge registration of the original scanning.</p> <p>Purpose Make the adjustment if there is a regular error between the leading edges of the copy image and original.</p> <p>Adjustment</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 734 1401 983"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Front</td> <td>Scanner leading edge registration</td> <td>-45 to 45</td> <td>0</td> <td>0.086 mm</td> </tr> <tr> <td>Rotate</td> <td>Scanner leading edge registration (rotate copying)</td> <td>-45 to 45</td> <td>0</td> <td>0.086 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value. Increasing the value moves the image forward and decreasing the value moves the image backward. <div data-bbox="576 1155 1299 1460" data-label="Diagram"> <p>Leading edge registration of the copy image (+1.0/-1.5 mm or less)</p> <p>Original Copy example 1 Copy example 2</p> </div> <p style="text-align: center;">Figure 1-3-6</p> <ol style="list-style-type: none"> 7. Press the start key. The value is set. <p>Caution If the above adjustment does not optimize the leading edge registration, proceed with the following maintenance modes.</p> <div data-bbox="293 1749 903 1839" data-label="Diagram"> <pre> graph LR U034["U034 (P.1-3-16)"] --> U065["U065 (P.1-3-18)"] U065 --> U066["U066"] </pre> </div> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	Front	Scanner leading edge registration	-45 to 45	0	0.086 mm	Rotate	Scanner leading edge registration (rotate copying)	-45 to 45	0	0.086 mm
Display	Description	Setting range	Initial setting	Change in value per step												
Front	Scanner leading edge registration	-45 to 45	0	0.086 mm												
Rotate	Scanner leading edge registration (rotate copying)	-45 to 45	0	0.086 mm												

Item No.	Description															
U067	<p>Adjust Table Center</p> <p>Description Adjusts the scanner center line of the original scanning.</p> <p>Purpose Make the adjustment if there is a regular error between the center lines of the copy image and original.</p> <p>Adjustment</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 734 1401 949"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Front</td> <td>Scanner center line</td> <td>-40 to 40</td> <td>0</td> <td>0.085 mm</td> </tr> <tr> <td>Rotate</td> <td>Scanner center line (rotate copying)</td> <td>-40 to 40</td> <td>0</td> <td>0.085 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, decrease the value. For copy example 2, increase the value. Increasing the value moves the image leftward and decreasing it moves the image rightward. <div data-bbox="651 1088 1158 1384" style="text-align: center;"> <p>Center line of the copy image (within ± 2.0 mm)</p> <p>Original Copy example 1 Copy example 2</p> </div> <p>Figure 1-3-7</p> <ol style="list-style-type: none"> 7. Press the start key. The value is set. <p>Caution If the above adjustment does not optimize the center line, proceed with the following maintenance modes.</p> <pre> graph LR U034["U034 (P.1-3-16)"] --> U065["U065 (P.1-3-18)"] U065 --> U067["U067"] </pre> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	Front	Scanner center line	-40 to 40	0	0.085 mm	Rotate	Scanner center line (rotate copying)	-40 to 40	0	0.085 mm
Display	Description	Setting range	Initial setting	Change in value per step												
Front	Scanner center line	-40 to 40	0	0.085 mm												
Rotate	Scanner center line (rotate copying)	-40 to 40	0	0.085 mm												

Item No.	Description															
U068	<p data-bbox="288 241 606 275">Adjust DP Scan Position</p> <p data-bbox="288 313 438 342">Description</p> <p data-bbox="288 347 1412 414">Adjusts the position for scanning originals from the DP. Performs the test copy at the four scanning positions after adjusting.</p> <p data-bbox="288 418 399 448">Purpose</p> <p data-bbox="288 452 1428 519">Used when the image fogging occurs because the scanning position is not proper when the DP is used. Run U071 to adjust the timing of DP leading edge when the scanning position is changed.</p> <p data-bbox="288 557 383 586">Setting</p> <p data-bbox="308 591 571 620">1. Press the start key.</p> <table border="1" data-bbox="336 633 1399 882"> <thead> <tr> <th data-bbox="336 633 528 712">Display</th> <th data-bbox="528 633 922 712">Description</th> <th data-bbox="922 633 1082 712">Setting range</th> <th data-bbox="1082 633 1193 712">Initial setting</th> <th data-bbox="1193 633 1399 712">Change in value per step</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 528 797">DP Read</td> <td data-bbox="528 712 922 797">Starting position adjustment for scanning originals</td> <td data-bbox="922 712 1082 797">-33 to 33</td> <td data-bbox="1082 712 1193 797">0</td> <td data-bbox="1193 712 1399 797">0.086 mm</td> </tr> <tr> <td data-bbox="336 797 528 882">Black Line</td> <td data-bbox="528 797 922 882">Scanning position for the test copy originals</td> <td data-bbox="922 797 1082 882">0 to 3</td> <td data-bbox="1082 797 1193 882">0</td> <td data-bbox="1193 797 1399 882">0.22 mm</td> </tr> </tbody> </table> <p data-bbox="308 891 550 920">2. Select [DP Read].</p> <p data-bbox="308 925 1125 954">3. Change the setting using the cursor left/right keys or numeric keys.</p> <p data-bbox="336 958 1428 1025">When the setting value is increased, the scanning position moves to the right and it moves to the left when the setting value is decreased.</p> <p data-bbox="308 1030 766 1059">4. Press the start key. The value is set.</p> <p data-bbox="308 1064 566 1093">5. Select [Black Line].</p> <p data-bbox="308 1097 981 1126">6. Change the setting using the +/- keys or numeric keys.</p> <p data-bbox="308 1131 766 1160">7. Press the start key. The value is set.</p> <p data-bbox="308 1164 1420 1193">8. Set the original (the one which density is known) in the DP and press the system menu key.</p> <p data-bbox="308 1198 837 1227">9. Press the start key. Test copy is executed.</p> <p data-bbox="288 1232 1428 1299">10. Perform the test copy at each scanning position with the setting value from 0 to 3 and check that no black line appears and the image is normally scanned.</p> <p data-bbox="288 1337 438 1366">Completion</p> <p data-bbox="288 1370 1252 1400">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	DP Read	Starting position adjustment for scanning originals	-33 to 33	0	0.086 mm	Black Line	Scanning position for the test copy originals	0 to 3	0	0.22 mm
Display	Description	Setting range	Initial setting	Change in value per step												
DP Read	Starting position adjustment for scanning originals	-33 to 33	0	0.086 mm												
Black Line	Scanning position for the test copy originals	0 to 3	0	0.22 mm												

Item No.	Description										
U070	<p>Adjust DP Motor Speed</p> <p>Description Adjusts the DP original scanning speed.</p> <p>Purpose Make the adjustment if the magnification is incorrect in the auxiliary scanning direction when the DP is used.</p> <p>Adjustment</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original on the DP and press the start key to make a test copy. 4. Press the system menu key. 5. Select [Convey Speed]. <table border="1" data-bbox="336 734 1401 936"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Convey Speed</td> <td>Magnification in the auxiliary scanning direction of CCD (first side)</td> <td>-25 to 25</td> <td>0</td> <td>0.1 %</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value. Increasing the value makes the image longer, while decreasing the value makes the image shorter. <div data-bbox="667 1153 1054 1377" style="text-align: center;">  <p>Original Copy example 1 Copy example 2</p> </div> <ol style="list-style-type: none"> 7. Press the start key. The value is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	Convey Speed	Magnification in the auxiliary scanning direction of CCD (first side)	-25 to 25	0	0.1 %
Display	Description	Setting range	Initial setting	Change in value per step							
Convey Speed	Magnification in the auxiliary scanning direction of CCD (first side)	-25 to 25	0	0.1 %							

Item No.	Description																														
U071	<p data-bbox="288 244 699 275">Adjust DP Leading Edge Timing</p> <p data-bbox="288 315 440 342">Description</p> <p data-bbox="288 349 762 376">Adjusts the DP original scanning timing.</p> <p data-bbox="288 387 400 414">Purpose</p> <p data-bbox="288 421 1422 483">Make the adjustment if there is a regular error between the leading or trailing edges of the original and the copy image when the DP is used.</p> <p data-bbox="288 524 387 551">Method</p> <ol data-bbox="308 562 1182 723" style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original on the DP and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 770 1401 1263"> <thead> <tr> <th data-bbox="344 781 528 846">Display</th> <th data-bbox="528 781 922 846">Description</th> <th data-bbox="922 781 1082 846">Setting range</th> <th data-bbox="1082 781 1193 846">Initial setting</th> <th data-bbox="1193 781 1401 846">Change in value per step</th> </tr> </thead> <tbody> <tr> <td data-bbox="344 857 528 936">Front Head</td> <td data-bbox="528 857 922 936">Leading edge registration of CCD (first side)</td> <td data-bbox="922 857 1082 936">-32 to 32</td> <td data-bbox="1082 857 1193 936">0</td> <td data-bbox="1193 857 1401 936">0.196 mm</td> </tr> <tr> <td data-bbox="344 947 528 1025">Front Tail</td> <td data-bbox="528 947 922 1025">Trailing edge registration of CCD (first side)</td> <td data-bbox="922 947 1082 1025">-32 to 32</td> <td data-bbox="1082 947 1193 1025">0</td> <td data-bbox="1193 947 1401 1025">0.196 mm</td> </tr> <tr> <td data-bbox="344 1037 528 1115">Back Head</td> <td data-bbox="528 1037 922 1115">Leading edge registration of CCD (second side)</td> <td data-bbox="922 1037 1082 1115">-45 to 45</td> <td data-bbox="1082 1037 1193 1115">0</td> <td data-bbox="1193 1037 1401 1115">0.196 mm</td> </tr> <tr> <td data-bbox="344 1126 528 1205">Back Tail</td> <td data-bbox="528 1126 922 1205">Trailing edge registration of CCD (second side)</td> <td data-bbox="922 1126 1082 1205">-45 to 45</td> <td data-bbox="1082 1126 1193 1205">0</td> <td data-bbox="1193 1126 1401 1205">0.196 mm</td> </tr> <tr> <td data-bbox="344 1216 528 1263">Rotate</td> <td data-bbox="528 1216 922 1263">Leading edge registration (rotate copying)</td> <td data-bbox="922 1216 1082 1263">-128 to 127</td> <td data-bbox="1082 1216 1193 1263">0</td> <td data-bbox="1193 1216 1401 1263">0.196 mm</td> </tr> </tbody> </table>	Display	Description	Setting range	Initial setting	Change in value per step	Front Head	Leading edge registration of CCD (first side)	-32 to 32	0	0.196 mm	Front Tail	Trailing edge registration of CCD (first side)	-32 to 32	0	0.196 mm	Back Head	Leading edge registration of CCD (second side)	-45 to 45	0	0.196 mm	Back Tail	Trailing edge registration of CCD (second side)	-45 to 45	0	0.196 mm	Rotate	Leading edge registration (rotate copying)	-128 to 127	0	0.196 mm
Display	Description	Setting range	Initial setting	Change in value per step																											
Front Head	Leading edge registration of CCD (first side)	-32 to 32	0	0.196 mm																											
Front Tail	Trailing edge registration of CCD (first side)	-32 to 32	0	0.196 mm																											
Back Head	Leading edge registration of CCD (second side)	-45 to 45	0	0.196 mm																											
Back Tail	Trailing edge registration of CCD (second side)	-45 to 45	0	0.196 mm																											
Rotate	Leading edge registration (rotate copying)	-128 to 127	0	0.196 mm																											

Item No.	Description
U071	<p>Adjustment: Leading edge registration</p> <p>1. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value. Increasing the value moves the image forward and decreasing the value moves the image backward.</p> <div data-bbox="655 439 1066 678" style="text-align: center;">  <p>Original Copy example 1 Copy example 2</p> </div> <p style="text-align: center;">Figure 1-3-9</p> <p>2. Press the start key. The value is set.</p> <p>Caution If the first side is adjusted, check the second side and if adjustment is required, carry out the adjustment. If the above adjustment does not optimize the leading edge registration, proceed with the following maintenance modes.</p> <div data-bbox="295 1025 678 1122" style="text-align: center;">  </div> <p>Adjustment: Trailing edge registration</p> <p>1. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value.</p> <div data-bbox="679 1294 1043 1534" style="text-align: center;">  <p>Original Copy example 1 Copy example 2</p> </div> <p style="text-align: center;">Figure 1-3-10</p> <p>2. Press the start key. The value is set.</p> <p>Caution If the first side is adjusted, check the second side and if adjustment is required, carry out the adjustment.</p> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>

Item No.	Description																				
U072	<p>Adjust DP Original Center</p> <p>Description Adjusts the scanning start position for the DP original.</p> <p>Purpose Make the adjustment if there is a regular error between the centers of the original and the copy image when the DP is used.</p> <p>Adjustment</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original on the DP and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 734 1401 963"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Front</td> <td>DP center line (first side)</td> <td>-39 to 39</td> <td>0</td> <td>0.085 mm</td> </tr> <tr> <td>Back</td> <td>DP center line (second side)</td> <td>-39 to 39</td> <td>12</td> <td>0.085 mm</td> </tr> <tr> <td>Rotate</td> <td>DP center line (rotate copying)</td> <td>-39 to 39</td> <td>0</td> <td>0.085 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. For copy example 1, increase the value. For copy example 2, decrease the value. Increasing the value moves the image rightward and decreasing it moves the image leftward. <div data-bbox="647 1128 1074 1368" style="text-align: center;"> <p style="display: flex; justify-content: space-around; margin-top: 5px;"> Original Copy example 1 Copy example 2 </p> </div> <p style="text-align: center;">Figure 1-3-11</p> <ol style="list-style-type: none"> 7. Press the start key. The value is set. <p>Caution If the first side is adjusted, check the second side and if adjustment is required, carry out the adjustment. If the above adjustment does not optimize the center line, proceed with the following maintenance modes.</p> <div data-bbox="293 1715 1131 1809" style="text-align: center;"> <pre> graph LR U034["U034 (P.1-3-16)"] --> U065["U065 (P.1-3-18)"] U065 --> U067["U067 (P.1-3-21)"] U067 --> U072["U072"] </pre> </div> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	Front	DP center line (first side)	-39 to 39	0	0.085 mm	Back	DP center line (second side)	-39 to 39	12	0.085 mm	Rotate	DP center line (rotate copying)	-39 to 39	0	0.085 mm
Display	Description	Setting range	Initial setting	Change in value per step																	
Front	DP center line (first side)	-39 to 39	0	0.085 mm																	
Back	DP center line (second side)	-39 to 39	12	0.085 mm																	
Rotate	DP center line (rotate copying)	-39 to 39	0	0.085 mm																	

Item No.	Description																
U203	<p data-bbox="288 241 587 275">Checking DP operation</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1046 376">Simulates the original conveying operation separately in the DP.</p> <p data-bbox="288 383 400 412">Purpose</p> <p data-bbox="288 416 612 448">To check the DP operation.</p> <p data-bbox="288 486 387 515">Method</p> <ol data-bbox="308 519 1091 620" style="list-style-type: none"> 1. Press the start key. 2. Place an original in the DP if running this simulation with paper. 3. Select the speed to be operated using the cursor up/down keys. <table border="1" data-bbox="336 631 1399 777"> <thead> <tr> <th data-bbox="336 631 639 676">Display</th> <th data-bbox="639 631 1399 676">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 676 639 721">Normal Speed</td> <td data-bbox="639 676 1399 721">Normal reading (600 dpi)</td> </tr> <tr> <td data-bbox="336 721 639 777">High Speed</td> <td data-bbox="639 721 1399 777">High-speed reading</td> </tr> </tbody> </table> <ol data-bbox="308 786 1069 853" style="list-style-type: none"> 4. Press the start key. 5. Select the item to be operated using the cursor up/down keys. <table border="1" data-bbox="336 864 1399 1173"> <thead> <tr> <th data-bbox="336 864 639 909">Display</th> <th data-bbox="639 864 1399 909">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 909 639 987">CCD ADP (Non-P)</td> <td data-bbox="639 909 1399 987">Without paper, single-sided original of CCD (continuous operation)</td> </tr> <tr> <td data-bbox="336 987 639 1032">CCD ADP</td> <td data-bbox="639 987 1399 1032">With paper, single-sided original of CCD</td> </tr> <tr> <td data-bbox="336 1032 639 1111">CCD RADP (Non-P)</td> <td data-bbox="639 1032 1399 1111">Without paper, double-sided original of CCD (continuous operation)</td> </tr> <tr> <td data-bbox="336 1111 639 1173">CCD RADP</td> <td data-bbox="639 1111 1399 1173">With paper, double-sided original of CCD</td> </tr> </tbody> </table> <ol data-bbox="308 1184 916 1252" style="list-style-type: none"> 6. Press the start key. The operation starts. 7. To stop continuous operation, press the stop key. <p data-bbox="288 1290 440 1319">Completion</p> <p data-bbox="288 1323 1254 1355">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Normal Speed	Normal reading (600 dpi)	High Speed	High-speed reading	Display	Description	CCD ADP (Non-P)	Without paper, single-sided original of CCD (continuous operation)	CCD ADP	With paper, single-sided original of CCD	CCD RADP (Non-P)	Without paper, double-sided original of CCD (continuous operation)	CCD RADP	With paper, double-sided original of CCD
Display	Description																
Normal Speed	Normal reading (600 dpi)																
High Speed	High-speed reading																
Display	Description																
CCD ADP (Non-P)	Without paper, single-sided original of CCD (continuous operation)																
CCD ADP	With paper, single-sided original of CCD																
CCD RADP (Non-P)	Without paper, double-sided original of CCD (continuous operation)																
CCD RADP	With paper, double-sided original of CCD																

Item No.	Description						
U222	<p>Setting the IC card type</p> <p>Description Sets the type of IC card.</p> <p>Purpose To change the type of IC card.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item using the cursor up/down keys. <table border="1" data-bbox="338 600 1401 741"> <thead> <tr> <th data-bbox="338 600 641 645">Display</th> <th data-bbox="641 600 1401 645">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 645 641 689">Other</td> <td data-bbox="641 645 1401 689">The type of IC card is SSFC.</td> </tr> <tr> <td data-bbox="338 689 641 741">SSFC</td> <td data-bbox="641 689 1401 741">The type of IC card is not SSFC.</td> </tr> </tbody> </table> <p>* : Initial setting: Other</p> <ol style="list-style-type: none"> 3. Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Other	The type of IC card is SSFC.	SSFC	The type of IC card is not SSFC.
Display	Description						
Other	The type of IC card is SSFC.						
SSFC	The type of IC card is not SSFC.						
U250	<p>Setting the maintenance cycle</p> <p>Description Displays, clears and changes the maintenance cycle.</p> <p>Purpose To check and change the maintenance cycle.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. The currently set maintenance cycle is displayed. <p>Setting</p> <ol style="list-style-type: none"> 1. Select [M.Cnt A] using the cursor up/down keys. 2. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="338 1397 1401 1491"> <thead> <tr> <th data-bbox="338 1397 871 1442">Description</th> <th data-bbox="871 1397 1134 1442">Setting range</th> <th data-bbox="1134 1397 1401 1442">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 1442 871 1491">Maintenance cycle</td> <td data-bbox="871 1442 1134 1491">0 to 9999999</td> <td data-bbox="1134 1442 1401 1491">200000</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. The value is set. <p>Clearing</p> <ol style="list-style-type: none"> 1. Select [Clear] using the cursor up/down keys. 2. Press the start key. The count is cleared. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Maintenance cycle	0 to 9999999	200000
Description	Setting range	Initial setting					
Maintenance cycle	0 to 9999999	200000					

Item No.	Description						
U251	<p data-bbox="288 241 823 275">Checking/clearing the maintenance count</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 927 376">Displays, clears and changes the maintenance count.</p> <p data-bbox="288 383 400 412">Purpose</p> <p data-bbox="288 416 683 448">To check the maintenance count.</p> <p data-bbox="288 452 1171 483">Also to clear the count during maintenance service (replacing the maintenance kit).</p> <p data-bbox="288 517 387 546">Method</p> <p data-bbox="308 551 1007 582">1. Press the start key. The maintenance count is displayed.</p> <p data-bbox="288 618 384 647">Setting</p> <p data-bbox="308 651 906 683">1. Select [M.Cnt A] using the cursor up/down keys.</p> <p data-bbox="308 687 1126 719">2. Change the setting using the cursor left/right keys or numeric keys.</p> <table border="1" data-bbox="338 730 1401 826"> <thead> <tr> <th data-bbox="338 730 868 779">Description</th> <th data-bbox="868 730 1134 779">Setting range</th> <th data-bbox="1134 730 1401 779">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 779 868 826">Maintenance count</td> <td data-bbox="868 779 1134 826">0 to 9999999</td> <td data-bbox="1134 779 1401 826">0</td> </tr> </tbody> </table> <p data-bbox="308 837 767 869">3. Press the start key. The count is set.</p> <p data-bbox="288 904 400 934">Clearing</p> <p data-bbox="308 938 874 969">1. Select [Clear] using the cursor up/down keys.</p> <p data-bbox="308 974 820 1005">2. Press the start key. The count is cleared.</p> <p data-bbox="288 1041 440 1070">Completion</p> <p data-bbox="288 1075 1254 1106">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Maintenance count	0 to 9999999	0
Description	Setting range	Initial setting					
Maintenance count	0 to 9999999	0					

Item No.	Description														
U252	<p data-bbox="288 244 580 275">Setting the destination</p> <p data-bbox="288 315 440 347">Description</p> <p data-bbox="288 349 1254 380">Switches the operations and screens of the machine according to the destination.</p> <p data-bbox="288 383 400 414">Purpose</p> <p data-bbox="288 416 1426 483">To be executed after initializing the backup RAM, in order to return the setting to the value before replacement or initialization.</p> <p data-bbox="288 524 384 555">Setting</p> <ol data-bbox="304 557 970 624" style="list-style-type: none"> 1. Press the start key. 2. Select the destination using the cursor up/down keys. <table border="1" data-bbox="349 629 1410 920"> <thead> <tr> <th data-bbox="357 640 652 672">Display</th> <th data-bbox="652 640 1410 672">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="357 674 652 705">Inch</td> <td data-bbox="652 674 1410 705">Inch (North America) specifications</td> </tr> <tr> <td data-bbox="357 707 652 739">Europe Metric</td> <td data-bbox="652 707 1410 739">Metric (Europe) specifications</td> </tr> <tr> <td data-bbox="357 741 652 772">Asia Pacific</td> <td data-bbox="652 741 1410 772">Metric (Asia Pacific) specifications</td> </tr> <tr> <td data-bbox="357 775 652 806">Australia</td> <td data-bbox="652 775 1410 806">Australia specifications</td> </tr> <tr> <td data-bbox="357 808 652 840">China</td> <td data-bbox="652 808 1410 840">China specifications</td> </tr> <tr> <td data-bbox="357 842 652 873">Korea</td> <td data-bbox="652 842 1410 873">Korea specifications</td> </tr> </tbody> </table> <ol data-bbox="304 931 798 999" style="list-style-type: none"> 3. Press the start key. 4. Turn the main power switch off and on. <p data-bbox="288 1039 448 1070">Supplement</p> <p data-bbox="288 1072 1426 1171">The specified initial settings are provided according to the destinations in the maintenance items below. To change the initial settings in those items, be sure to run maintenance item U021 after changing the destination.</p>	Display	Description	Inch	Inch (North America) specifications	Europe Metric	Metric (Europe) specifications	Asia Pacific	Metric (Asia Pacific) specifications	Australia	Australia specifications	China	China specifications	Korea	Korea specifications
Display	Description														
Inch	Inch (North America) specifications														
Europe Metric	Metric (Europe) specifications														
Asia Pacific	Metric (Asia Pacific) specifications														
Australia	Australia specifications														
China	China specifications														
Korea	Korea specifications														

Item No.	Description												
U253	<p>Switching between double and single counts</p> <p>Description Switches the count system for the total counter and other counters.</p> <p>Purpose Used to select, according to the preference of the user (copy service provider), if folio size paper is to be counted as one sheet (single count) or two sheets (double count).</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item using the cursor up/down keys. <table border="1" data-bbox="336 633 1401 777"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Color</td> <td>Count system of color mode</td> </tr> <tr> <td>B/W</td> <td>Count system of black/white mode</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. 4. Select the count system using the cursor up/down keys. <table border="1" data-bbox="336 866 1401 1010"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>SGL Count(All)</td> <td>Single count for all size paper</td> </tr> <tr> <td>DBL Count(Folio)</td> <td>Double count for Folio size or larger</td> </tr> </tbody> </table> <p>* : Initial setting: DBL Count(Folio)</p> <ol style="list-style-type: none"> 5. Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Color	Count system of color mode	B/W	Count system of black/white mode	Display	Description	SGL Count(All)	Single count for all size paper	DBL Count(Folio)	Double count for Folio size or larger
Display	Description												
Color	Count system of color mode												
B/W	Count system of black/white mode												
Display	Description												
SGL Count(All)	Single count for all size paper												
DBL Count(Folio)	Double count for Folio size or larger												
U260	<p>Selecting the timing for copy counting</p> <p>Description Changes the copy count timing for the total counter and other counters.</p> <p>Purpose To be set according to user request.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the copy count timing using the cursor up/down keys. <table border="1" data-bbox="336 1563 1401 1706"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Feed</td> <td>When secondary paper feed starts</td> </tr> <tr> <td>Eject</td> <td>When the paper is ejected</td> </tr> </tbody> </table> <p>* : Initial setting: Eject</p> <ol style="list-style-type: none"> 3. Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Feed	When secondary paper feed starts	Eject	When the paper is ejected						
Display	Description												
Feed	When secondary paper feed starts												
Eject	When the paper is ejected												

Item No.	Description								
U285	<p>Setting service status page</p> <p>Description Determines displaying the print coverage report on reporting.</p> <p>Purpose According to user request, changes the setting.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select On or Off using the cursor up/down keys. <table border="1" data-bbox="338 598 1401 741"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>On</td> <td>Displays the print coverage</td> </tr> <tr> <td>Off</td> <td>Not to display the print coverage</td> </tr> </tbody> </table> <p>* : Initial setting: On</p> <ol style="list-style-type: none"> 3. Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	On	Displays the print coverage	Off	Not to display the print coverage		
Display	Description								
On	Displays the print coverage								
Off	Not to display the print coverage								
U332	<p>Setting the size conversion factor</p> <p>Description Sets the coefficient of nonstandard sizes in relation to the A4/Letter size. The coefficient set here is used to convert the black ratio in relation to the A4/Letter size and to display the result in user simulation.</p> <p>Purpose To set the coefficient for converting the black ratio for nonstandard sizes in relation to the A4/Letter size.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="338 1397 1385 1491"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Rate</td> <td>Size parameter</td> <td>0.1 to 3.0</td> <td>1.0</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. The value is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Rate	Size parameter	0.1 to 3.0	1.0
Display	Description	Setting range	Initial setting						
Rate	Size parameter	0.1 to 3.0	1.0						

Item No.	Description						
U345	<p data-bbox="290 241 911 275">Setting the value for maintenance due indication</p> <p data-bbox="290 311 440 340">Description</p> <p data-bbox="290 342 1417 459">Sets when to display a message notifying that the time for maintenance is about to be reached, by setting the number of copies that can be made before the current maintenance cycle ends. When the difference between the number of copies of the maintenance cycle and that of the maintenance count reaches the set value, the message is displayed.</p> <p data-bbox="290 461 400 490">Purpose</p> <p data-bbox="290 492 895 521">To change the time for maintenance due indication.</p> <p data-bbox="290 562 384 591">Setting</p> <ol data-bbox="308 595 930 696" style="list-style-type: none"> 1. Press the start key. 2. Select [Cnt] using the cursor up/down keys. 3. Change the setting using the cursor left/right keys. <table border="1" data-bbox="338 707 1399 875"> <thead> <tr> <th data-bbox="338 707 975 752">Description</th> <th data-bbox="975 707 1189 752">Setting range</th> <th data-bbox="1189 707 1399 752">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 752 975 875">Time for maintenance due indication (Remaining number of copies that can be made before the current maintenance cycle ends)</td> <td data-bbox="975 752 1189 875">0 to 9999</td> <td data-bbox="1189 752 1399 875">0</td> </tr> </tbody> </table> <ol data-bbox="308 887 767 916" style="list-style-type: none"> 4. Press the start key. The value is set. <p data-bbox="290 954 400 983">Clearing</p> <ol data-bbox="308 987 874 1052" style="list-style-type: none"> 1. Select [Clear] using the cursor up/down keys. 2. Press the start key. The value is cleared. <p data-bbox="290 1093 440 1122">Completion</p> <p data-bbox="290 1126 1254 1155">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Time for maintenance due indication (Remaining number of copies that can be made before the current maintenance cycle ends)	0 to 9999	0
Description	Setting range	Initial setting					
Time for maintenance due indication (Remaining number of copies that can be made before the current maintenance cycle ends)	0 to 9999	0					

Item No.	Description																												
U402	<p data-bbox="288 241 539 273">Adjust Print Margin</p> <p data-bbox="288 311 440 342">Description</p> <p data-bbox="288 347 703 378">Adjusts margins for image printing.</p> <p data-bbox="288 383 400 414">Purpose</p> <p data-bbox="288 418 826 450">Make the adjustment if margins are incorrect.</p> <p data-bbox="288 488 440 519">Adjustment</p> <ol data-bbox="304 524 839 689" style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Press the start key to output a test pattern. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 701 1401 976"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>Printer leading edge margin</td> <td>0 to 100</td> <td>40</td> <td>0.1mm</td> </tr> <tr> <td>A Margin</td> <td>Printer left margin</td> <td>0 to 100</td> <td>40</td> <td>0.1mm</td> </tr> <tr> <td>C Margin</td> <td>Printer right margin</td> <td>0 to 100</td> <td>40</td> <td>0.1mm</td> </tr> <tr> <td>Trail</td> <td>Printer trailing edge margin</td> <td>0 to 100</td> <td>40</td> <td>0.1mm</td> </tr> </tbody> </table> <ol data-bbox="304 987 1426 1055" style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. Increasing the value makes the margin wider, and decreasing it makes the margin narrower. <div data-bbox="528 1081 1193 1496" style="text-align: center;"> </div> <p data-bbox="775 1525 946 1556">Figure 1-3-12</p> <ol data-bbox="304 1592 767 1624" style="list-style-type: none"> 7. Press the start key. The value is set. <p data-bbox="288 1662 392 1693">Caution</p> <p data-bbox="288 1697 1361 1765">If the above adjustment does not optimize the margins, perform the following maintenance modes.</p> <div data-bbox="293 1778 676 1872" style="text-align: center;"> <table border="1"> <tr> <td data-bbox="293 1778 448 1872">U034 (P.1-3-16)</td> <td data-bbox="448 1778 520 1872">→</td> <td data-bbox="520 1778 676 1872">U402</td> </tr> </table> </div> <p data-bbox="288 1921 440 1953">Completion</p> <p data-bbox="288 1957 1254 1989">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	Lead	Printer leading edge margin	0 to 100	40	0.1mm	A Margin	Printer left margin	0 to 100	40	0.1mm	C Margin	Printer right margin	0 to 100	40	0.1mm	Trail	Printer trailing edge margin	0 to 100	40	0.1mm	U034 (P.1-3-16)	→	U402
Display	Description	Setting range	Initial setting	Change in value per step																									
Lead	Printer leading edge margin	0 to 100	40	0.1mm																									
A Margin	Printer left margin	0 to 100	40	0.1mm																									
C Margin	Printer right margin	0 to 100	40	0.1mm																									
Trail	Printer trailing edge margin	0 to 100	40	0.1mm																									
U034 (P.1-3-16)	→	U402																											

Item No.	Description																									
<p>U403</p>	<p>Adjust Scanning Margin(Table)</p> <p>Description Adjusts margins for scanning the original on the contact glass.</p> <p>Purpose Make the adjustment if margins are incorrect.</p> <p>Adjustment</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 701 1401 976"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>A Margin</td> <td>Scanner left margin</td> <td>0.0 to 10.0</td> <td>2.0</td> <td>0.5 mm</td> </tr> <tr> <td>B Margin</td> <td>Scanner leading edge margin</td> <td>0.0 to 10.0</td> <td>2.0</td> <td>0.5 mm</td> </tr> <tr> <td>C Margin</td> <td>Scanner right margin</td> <td>0.0 to 10.0</td> <td>2.0</td> <td>0.5 mm</td> </tr> <tr> <td>D Margin</td> <td>Scanner trailing edge margin</td> <td>0.0 to 10.0</td> <td>2.0</td> <td>0.5 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. Increasing the value makes the margin wider, and decreasing it makes the margin narrower. <div data-bbox="528 1081 1193 1496" style="text-align: center;"> <p>Leading edge margin of the copy image (4.0 +1.5/-1.0 mm)</p> <p>Left margin of the copy image (2.5 +1.5/-2.0 mm)</p> <p>Right margin of the copy image (2.5 +1.5/-2.0 mm)</p> <p>Trailing edge margin of the copy image (4.0 mm or less)</p> </div> <p>Figure 1-3-13</p> <ol style="list-style-type: none"> 7. Press the start key. The value is set. <p>Caution If the above adjustment does not optimize the margins, perform the following maintenance modes.</p> <div data-bbox="293 1778 903 1872" style="text-align: center;"> <pre> graph LR U034["U034 (P.1-3-16)"] --> U402["U402 (P.1-3-34)"] U402 --> U403["U403"] </pre> </div> <p>Completion Press the stop key. The indication for selecting a maintenance item No. appears.</p>	Display	Description	Setting range	Initial setting	Change in value per step	A Margin	Scanner left margin	0.0 to 10.0	2.0	0.5 mm	B Margin	Scanner leading edge margin	0.0 to 10.0	2.0	0.5 mm	C Margin	Scanner right margin	0.0 to 10.0	2.0	0.5 mm	D Margin	Scanner trailing edge margin	0.0 to 10.0	2.0	0.5 mm
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D Margin	Scanner trailing edge margin	0.0 to 10.0	2.0	0.5 mm																						

Item No.	Description																									
<p>U404</p>	<p>Adjust Scanning Margin(DP)</p> <p>Description Adjusts margins for scanning the original from the DP.</p> <p>Purpose Make the adjustment if margins are incorrect.</p> <p>Adjustment</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Press the system menu key. 3. Place an original on the DP and press the start key to make a test copy. 4. Press the system menu key. 5. Select the item to be adjusted. <table border="1" data-bbox="336 701 1401 976"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>A Margin</td> <td>DP left margin</td> <td>0.0 to 10.0</td> <td>3.0</td> <td>0.5 mm</td> </tr> <tr> <td>B Margin</td> <td>DP leading edge margin</td> <td>0.0 to 10.0</td> <td>2.5</td> <td>0.5 mm</td> </tr> <tr> <td>C Margin</td> <td>DP right margin</td> <td>0.0 to 10.0</td> <td>3.0</td> <td>0.5 mm</td> </tr> <tr> <td>D Margin</td> <td>DP trailing edge margin</td> <td>0.0 to 10.0</td> <td>4.0</td> <td>0.5 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. Change the setting value using the cursor left/right keys or numeric keys. Increasing the value makes the margin wider, and decreasing it makes the margin narrower. <div data-bbox="564 1081 1230 1503" style="text-align: center;"> <p>The diagram shows a rectangular document with four margins indicated by arrows and labels. The top margin is labeled 'DP leading edge margin (4.0 +1.5/-1.0 mm)'. The left margin is labeled 'DP left margin (2.5 +1.5/-2.0 mm)'. The right margin is labeled 'DP right margin (2.5 +1.5/-2.0 mm)'. The bottom margin is labeled 'DP trailing edge margin (4.0 mm or less)'.</p> </div> <p>Figure 1-3-14</p> <ol style="list-style-type: none"> 7. Press the start key. The value is set. <p>Caution If the above adjustment does not optimize the margins, perform the following maintenance modes.</p> <div data-bbox="293 1778 1131 1872" style="text-align: center;"> <pre> graph LR U034["U034 (P.1-3-16)"] --> U402["U402 (P.1-3-34)"] U402 --> U403["U403 (P.1-3-35)"] U403 --> U404["U404"] </pre> </div> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Change in value per step	A Margin	DP left margin	0.0 to 10.0	3.0	0.5 mm	B Margin	DP leading edge margin	0.0 to 10.0	2.5	0.5 mm	C Margin	DP right margin	0.0 to 10.0	3.0	0.5 mm	D Margin	DP trailing edge margin	0.0 to 10.0	4.0	0.5 mm
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A Margin	DP left margin	0.0 to 10.0	3.0	0.5 mm																						
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Item No.	Description																																
U410	<p data-bbox="292 241 751 275">Adjusting the halftone automatically</p> <p data-bbox="292 313 440 342">Description</p> <p data-bbox="292 347 1390 412">Carries out processing for the data acquisition that is required in order to perform either automatic adjustment of the halftone or the ID correction operation.</p> <p data-bbox="292 416 400 445">Purpose</p> <p data-bbox="292 450 1067 481">Performed when the quality of reproduced halftones has dropped.</p> <p data-bbox="292 519 387 548">Method</p> <ol data-bbox="308 555 1291 965" style="list-style-type: none"> 1. Select [Normal Mode]. 2. Press the start key. A test patterns 1 and 2 are outputted. 3. Place the output test pattern 1 as the original. Place approximately 20 sheets of white paper on the test pattern 1 and set them. 4. Press the start key. Adjustment is made (first time). 5. Place the output test pattern 2 as the original. Place approximately 20 sheets of white paper on the test pattern 2 and set them. 6. Press the start key. Adjustment is made (second time). 7. When normally completed, [Finish] is displayed. If a problem occurs during auto adjustment, error code is displayed. <p data-bbox="292 1003 440 1032">Error codes</p> <table border="1" data-bbox="336 1048 1401 1480"> <thead> <tr> <th data-bbox="336 1048 491 1093">Codes</th> <th data-bbox="491 1048 871 1093">Description</th> <th data-bbox="871 1048 1023 1093">Codes</th> <th data-bbox="1023 1048 1401 1093">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1093 491 1137">S001</td> <td data-bbox="491 1093 871 1137">Patch not detected</td> <td data-bbox="871 1093 1023 1137">E001</td> <td data-bbox="1023 1093 1401 1137">Engine status error</td> </tr> <tr> <td data-bbox="336 1137 491 1227">S002</td> <td data-bbox="491 1137 871 1227">Original deviation in the main scanning direction</td> <td data-bbox="871 1137 1023 1227">E002</td> <td data-bbox="1023 1137 1401 1227">Engine sensor error</td> </tr> <tr> <td data-bbox="336 1227 491 1317">S003</td> <td data-bbox="491 1227 871 1317">Original deviation in the auxiliary scanning direction</td> <td data-bbox="871 1227 1023 1317">EFFF</td> <td data-bbox="1023 1227 1401 1317">Engine other error</td> </tr> <tr> <td data-bbox="336 1317 491 1361">S004</td> <td data-bbox="491 1317 871 1361">Original inclination error</td> <td data-bbox="871 1317 1023 1361">C001</td> <td data-bbox="1023 1317 1401 1361">Controller error</td> </tr> <tr> <td data-bbox="336 1361 491 1406">S005</td> <td data-bbox="491 1361 871 1406">Original type error</td> <td data-bbox="871 1361 1023 1406">C100</td> <td data-bbox="1023 1361 1401 1406">Adjustment value error</td> </tr> <tr> <td data-bbox="336 1406 491 1451">SFFF</td> <td data-bbox="491 1406 871 1451">Scanner other error</td> <td data-bbox="871 1406 1023 1451">C200</td> <td data-bbox="1023 1406 1401 1451">Adjustment value error</td> </tr> <tr> <td data-bbox="336 1451 491 1480"></td> <td data-bbox="491 1451 871 1480"></td> <td data-bbox="871 1451 1023 1480">CFFF</td> <td data-bbox="1023 1451 1401 1480">Controller other error</td> </tr> </tbody> </table> <p data-bbox="292 1527 440 1556">Completion</p> <p data-bbox="292 1561 1206 1592">Press the stop key. The screen for selecting a maintenance item is displayed.</p>	Codes	Description	Codes	Description	S001	Patch not detected	E001	Engine status error	S002	Original deviation in the main scanning direction	E002	Engine sensor error	S003	Original deviation in the auxiliary scanning direction	EFFF	Engine other error	S004	Original inclination error	C001	Controller error	S005	Original type error	C100	Adjustment value error	SFFF	Scanner other error	C200	Adjustment value error			CFFF	Controller other error
Codes	Description	Codes	Description																														
S001	Patch not detected	E001	Engine status error																														
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S005	Original type error	C100	Adjustment value error																														
SFFF	Scanner other error	C200	Adjustment value error																														
		CFFF	Controller other error																														

Item No.	Description												
U411	<p data-bbox="287 241 751 275">Adjusting the scanner automatically</p> <p data-bbox="287 311 440 340">Description</p> <p data-bbox="287 344 1423 409">Uses a specified original and automatically adjusts the following items in the scanner and the DP scanning sections.</p> <p data-bbox="287 414 1423 479">Scanner section: Original size magnification, leading edge timing, center line, input gamma, input gamma in monochrome mode and matrix</p> <p data-bbox="287 483 1246 515">DP scanning section: Original size magnification, leading edge timing, center line</p> <p data-bbox="287 519 400 548">Purpose</p> <p data-bbox="287 553 1418 584">To perform automatic adjustment of various items in the scanner and the DP scanning sections.</p> <p data-bbox="287 620 387 649">Method</p> <ol data-bbox="304 654 564 719" style="list-style-type: none"> 1. Press the start key. 2. Select the item. <table border="1" data-bbox="336 734 1399 1099"> <thead> <tr> <th data-bbox="336 734 564 815">Display</th> <th data-bbox="564 734 1096 815">Description</th> <th data-bbox="1096 734 1399 815">Original to be used for adjustment (P/N)</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 815 564 936">All</td> <td data-bbox="564 815 1096 936">Performs automatic adjustment in the DP scanning section following automatic adjustment in the scanner section</td> <td data-bbox="1096 815 1399 936">302FZ56990/ 303LJ57010</td> </tr> <tr> <td data-bbox="336 936 564 1016">Table</td> <td data-bbox="564 936 1096 1016">Automatic adjustment in the scanner section</td> <td data-bbox="1096 936 1399 1016">302FZ56990</td> </tr> <tr> <td data-bbox="336 1016 564 1099">DP</td> <td data-bbox="564 1016 1096 1099">Automatic adjustment in the DP scanning section:</td> <td data-bbox="1096 1016 1399 1099">303LJ57010</td> </tr> </tbody> </table> <p data-bbox="287 1144 472 1173">Method: Table</p> <ol data-bbox="304 1178 1431 1556" style="list-style-type: none"> 1. Enter the target values which are shown on the specified original (P/N: 302FZ56990) executing maintenance item U425. 2. Set a specified original (P/N: 302FZ56990) on the platen. 3. Enter maintenance item U411. 4. Select [Table] using the cursor up/down keys. 5. Press the start key. Auto adjustment starts. 6. When automatic adjustment has normally completed, [OK] is displayed. If a problem occurs during auto adjustment, [NG XX] (XX is replaced by an error code) is displayed and operation stops. Should this happen, determine the details of the problem and repeat the procedure from the beginning. 7. To return to the screen for selecting an item, press the stop key. <p data-bbox="287 1592 440 1621">Method: DP</p> <ol data-bbox="304 1626 1423 1904" style="list-style-type: none"> 1. Select [DP] using the cursor up/down keys. 2. Set a specified original (P/N: 303LJ57010) in the DP. 3. Press the start key. Auto adjustment starts. 4. When automatic adjustment has normally completed, [OK] is displayed. If a problem occurs during auto adjustment, [NG XX] (XX is replaced by an error code) is displayed and operation stops. Should this happen, determine the details of the problem and repeat the procedure from the beginning. 5. To return to the screen for selecting an item, press the stop key. 	Display	Description	Original to be used for adjustment (P/N)	All	Performs automatic adjustment in the DP scanning section following automatic adjustment in the scanner section	302FZ56990/ 303LJ57010	Table	Automatic adjustment in the scanner section	302FZ56990	DP	Automatic adjustment in the DP scanning section:	303LJ57010
Display	Description	Original to be used for adjustment (P/N)											
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Item No.	Description																																																										
U411	<p data-bbox="288 244 448 271">Error Codes</p> <table border="1" data-bbox="336 286 1401 1850"> <thead> <tr> <th data-bbox="336 286 491 331">Codes</th> <th data-bbox="491 286 1401 331">Description</th> </tr> </thead> <tbody> <tr><td data-bbox="336 331 491 376">01</td><td data-bbox="491 331 1401 376">Black band detection error (scanner leading edge registration)</td></tr> <tr><td data-bbox="336 376 491 421">02</td><td data-bbox="491 376 1401 421">Black band detection error (scanner center line)</td></tr> <tr><td data-bbox="336 421 491 465">03</td><td data-bbox="491 421 1401 465">Black band detection error (scanner main scanning direction magnification)</td></tr> <tr><td data-bbox="336 465 491 510">04</td><td data-bbox="491 465 1401 510">Black band is not detected (scanner leading edge registration)</td></tr> <tr><td data-bbox="336 510 491 555">05</td><td data-bbox="491 510 1401 555">Black band is not detected (scanner center line)</td></tr> <tr><td data-bbox="336 555 491 600">06</td><td data-bbox="491 555 1401 600">Black band is not detected (scanner main scanning direction magnification)</td></tr> <tr><td data-bbox="336 600 491 645">07</td><td data-bbox="491 600 1401 645">Black band is not detected (scanner auxiliary scanning direction magnification)</td></tr> <tr><td data-bbox="336 645 491 689">08</td><td data-bbox="491 645 1401 689">Black band is not detected (DP main scanning direction magnification far end)</td></tr> <tr><td data-bbox="336 689 491 734">09</td><td data-bbox="491 689 1401 734">Black band is not detected (DP main scanning direction magnification near end)</td></tr> <tr><td data-bbox="336 734 491 779">0a</td><td data-bbox="491 734 1401 779">Black band is not detected (DP auxiliary scanning direction magnification leading edge)</td></tr> <tr><td data-bbox="336 779 491 824">0b</td><td data-bbox="491 779 1401 824">Black band is not detected (DP auxiliary scanning direction magnification leading edge original check)</td></tr> <tr><td data-bbox="336 824 491 869">0c</td><td data-bbox="491 824 1401 869">Black band is not detected (DP auxiliary scanning direction trailing edge)</td></tr> <tr><td data-bbox="336 869 491 913">0d</td><td data-bbox="491 869 1401 913">Black band is not detected (DP auxiliary scanning direction trailing edge 2)</td></tr> <tr><td data-bbox="336 913 491 958">0e</td><td data-bbox="491 913 1401 958">DMA time out</td></tr> <tr><td data-bbox="336 958 491 1003">0f</td><td data-bbox="491 958 1401 1003">Auxiliary scanning direction magnification error</td></tr> <tr><td data-bbox="336 1003 491 1048">10</td><td data-bbox="491 1003 1401 1048">Auxiliary scanning direction leading edge detection error</td></tr> <tr><td data-bbox="336 1048 491 1093">11</td><td data-bbox="491 1048 1401 1093">Auxiliary scanning direction trailing edge detection error</td></tr> <tr><td data-bbox="336 1093 491 1137">12</td><td data-bbox="491 1093 1401 1137">Auxiliary scanning direction skew 1.5 error</td></tr> <tr><td data-bbox="336 1137 491 1182">13</td><td data-bbox="491 1137 1401 1182">Maintenance request error</td></tr> <tr><td data-bbox="336 1182 491 1227">14</td><td data-bbox="491 1182 1401 1227">Main scanning direction center line error</td></tr> <tr><td data-bbox="336 1227 491 1272">15</td><td data-bbox="491 1227 1401 1272">Main scanning direction skew 1.5 error</td></tr> <tr><td data-bbox="336 1272 491 1317">16</td><td data-bbox="491 1272 1401 1317">Main scanning direction magnification error</td></tr> <tr><td data-bbox="336 1317 491 1361">17</td><td data-bbox="491 1317 1401 1361">Service call error</td></tr> <tr><td data-bbox="336 1361 491 1406">18</td><td data-bbox="491 1361 1401 1406">DP paper misfeed error</td></tr> <tr><td data-bbox="336 1406 491 1451">19</td><td data-bbox="491 1406 1401 1451">PWB replacement error</td></tr> <tr><td data-bbox="336 1451 491 1496">1a</td><td data-bbox="491 1451 1401 1496">Original error</td></tr> <tr><td data-bbox="336 1496 491 1541">1b</td><td data-bbox="491 1496 1401 1541">Original error (scanner input gamma adjustment)</td></tr> <tr><td data-bbox="336 1541 491 1585">1c</td><td data-bbox="491 1541 1401 1585">Original error (scanner matrix adjustment)</td></tr> </tbody> </table> <p data-bbox="288 1899 440 1926">Completion</p> <p data-bbox="288 1933 1206 1960">Press the stop key. The screen for selecting a maintenance item is displayed.</p>	Codes	Description	01	Black band detection error (scanner leading edge registration)	02	Black band detection error (scanner center line)	03	Black band detection error (scanner main scanning direction magnification)	04	Black band is not detected (scanner leading edge registration)	05	Black band is not detected (scanner center line)	06	Black band is not detected (scanner main scanning direction magnification)	07	Black band is not detected (scanner auxiliary scanning direction magnification)	08	Black band is not detected (DP main scanning direction magnification far end)	09	Black band is not detected (DP main scanning direction magnification near end)	0a	Black band is not detected (DP auxiliary scanning direction magnification leading edge)	0b	Black band is not detected (DP auxiliary scanning direction magnification leading edge original check)	0c	Black band is not detected (DP auxiliary scanning direction trailing edge)	0d	Black band is not detected (DP auxiliary scanning direction trailing edge 2)	0e	DMA time out	0f	Auxiliary scanning direction magnification error	10	Auxiliary scanning direction leading edge detection error	11	Auxiliary scanning direction trailing edge detection error	12	Auxiliary scanning direction skew 1.5 error	13	Maintenance request error	14	Main scanning direction center line error	15	Main scanning direction skew 1.5 error	16	Main scanning direction magnification error	17	Service call error	18	DP paper misfeed error	19	PWB replacement error	1a	Original error	1b	Original error (scanner input gamma adjustment)	1c	Original error (scanner matrix adjustment)
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19	PWB replacement error																																																										
1a	Original error																																																										
1b	Original error (scanner input gamma adjustment)																																																										
1c	Original error (scanner matrix adjustment)																																																										

Item No.	Description																																		
U425	<p data-bbox="290 241 512 275">Setting the target</p> <p data-bbox="290 311 440 340">Description Enters the lab values that is indicated on the back of the chart (P/N: 302FZ56990) used for adjustment.</p> <p data-bbox="290 414 400 443">Purpose Performs data input in order to correct for differences in originals during automatic adjustment.</p> <p data-bbox="290 517 387 546">Method</p> <ol data-bbox="308 555 999 618" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 631 1399 1160"> <thead> <tr> <th data-bbox="336 631 639 676">Display</th> <th data-bbox="639 631 1399 676">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 676 639 721">N875</td> <td data-bbox="639 676 1399 721">Setting the N875 patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 721 639 766">N475</td> <td data-bbox="639 721 1399 766">Setting the N475 patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 766 639 810">N125</td> <td data-bbox="639 766 1399 810">Setting the N125 patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 810 639 855">C</td> <td data-bbox="639 810 1399 855">Setting the cyan patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 855 639 900">M</td> <td data-bbox="639 855 1399 900">Setting the magenta patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 900 639 945">Y</td> <td data-bbox="639 900 1399 945">Setting the yellow patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 945 639 990">R</td> <td data-bbox="639 945 1399 990">Setting the red patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 990 639 1034">G</td> <td data-bbox="639 990 1399 1034">Setting the green patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 1034 639 1079">B</td> <td data-bbox="639 1034 1399 1079">Setting the blue patch for the original for adjustment</td> </tr> <tr> <td data-bbox="336 1079 639 1160">Adjust Original</td> <td data-bbox="639 1079 1399 1160">Setting the main and auxiliary scanning directions</td> </tr> </tbody> </table> <ol data-bbox="308 1169 999 1198" style="list-style-type: none"> 3. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 1211 1399 1406"> <thead> <tr> <th data-bbox="336 1211 639 1256">Display</th> <th data-bbox="639 1211 1018 1256">Description</th> <th data-bbox="1018 1211 1399 1256">Setting range</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1256 639 1301">L</td> <td data-bbox="639 1256 1018 1301">Setting the L value</td> <td data-bbox="1018 1256 1399 1301">0.0 to 100.0</td> </tr> <tr> <td data-bbox="336 1301 639 1346">a</td> <td data-bbox="639 1301 1018 1346">Setting the a value</td> <td data-bbox="1018 1301 1399 1346">-200.0 to 200.0</td> </tr> <tr> <td data-bbox="336 1346 639 1406">b</td> <td data-bbox="639 1346 1018 1406">Setting the b value</td> <td data-bbox="1018 1346 1399 1406">-200.0 to 200.0</td> </tr> </tbody> </table> <ol data-bbox="308 1415 1406 1514" style="list-style-type: none"> 4. Enters the value that is indicated on the back of the chart using the cursor left/right keys or numeric keys. 5. Press the start key. The value is set. 	Display	Description	N875	Setting the N875 patch for the original for adjustment	N475	Setting the N475 patch for the original for adjustment	N125	Setting the N125 patch for the original for adjustment	C	Setting the cyan patch for the original for adjustment	M	Setting the magenta patch for the original for adjustment	Y	Setting the yellow patch for the original for adjustment	R	Setting the red patch for the original for adjustment	G	Setting the green patch for the original for adjustment	B	Setting the blue patch for the original for adjustment	Adjust Original	Setting the main and auxiliary scanning directions	Display	Description	Setting range	L	Setting the L value	0.0 to 100.0	a	Setting the a value	-200.0 to 200.0	b	Setting the b value	-200.0 to 200.0
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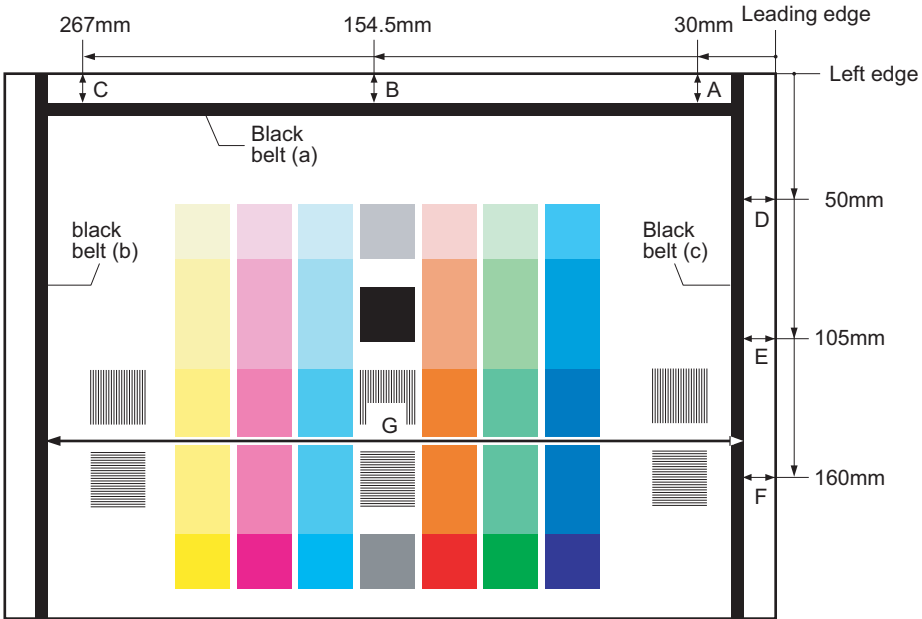
Item No.	Description
U425	<p>Setting: [Adjust Original]</p> <ol style="list-style-type: none"> Measure the distance from the left edge to the black belt (a) of the original at A, B and C. Measurement procedure <ol style="list-style-type: none"> 1) Measure the distance from the edge to the black belt (a) of the original at A (30 mm from the leading edge), B (154.5 mm from the leading edge) and C (267 mm from the leading edge), respectively. 2) Apply the following formula for the values obtained: $((A + C) / 2 + B) / 2$ Enter the values solved using the cursor left/right keys or numeric keys in [MAIN]. Press the start key. The value is set. Measure the distance from the leading edge to the black belt (c) of the original at D, E and F. Measurement procedure <ol style="list-style-type: none"> 1) Measure the distance from the edge to the black belt (c) of the original at D (50 mm from the left edge), E (105 mm from the left edge) and F (160 mm from the left edge), respectively. 2) Apply the following formula for the values obtained: $((D + F) / 2 + E) / 2$ Enter the values solved using the cursor left/right keys or numeric keys in [SUB LEAD]. Press the start key. The value is set. Measure the length (G) from the edge of the black belt (b) to edge of the black belt (c) of the original. Enter the measured value using the cursor left/right keys or numeric keys in [SUB TAIL]. Press the start key. The value is set. <div style="text-align: center; margin-top: 20px;">  <p>Original for adjustment (P/N: 302FZ56990)</p> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-top: 10px;"> <p>[Main] = $((A+C)/2+B)/2$</p> <p>[Sub Lead] = $((D+F)/2+E)/2$</p> <p>[SubTail] = G</p> </div>

Figure 1-3-15

Completion

Press the stop key. The screen for selecting a maintenance item No. is displayed.

Item No.	Description																																																																												
U600	<p data-bbox="288 241 523 271">Initializing all data</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 347 1422 409">Initializes software switches and all data in the backup data on the FAX control PWB, according to the destination and OEM.</p> <p data-bbox="288 416 1426 479">Executes the check of the file system, when abnormality of the file system is detected, initializes the file system, communication past record and register setting contents.</p> <p data-bbox="288 486 400 515">Purpose</p> <p data-bbox="288 521 687 551">To initialize the FAX control PWB.</p> <p data-bbox="288 591 387 620">Method</p> <ol data-bbox="308 627 1431 965" style="list-style-type: none"> 1. Press the start key. 2. Select [Execute]. The screen for entering the destination code and OEM code is displayed. 3. Select [Country Code] and enter a destination code using the numeric keys (refer to the destination code list on following for the destination code). 4. Press the start key. There is no operation necessary on this screen. The destination code and the OEM code are displayed with the values currently set. 5. Press the start key. Data initialization starts. To cancel data initialization, press the stop key. 6. After data initialization, the entered destination, OEM codes and ROM version are displayed. A ROM version displays three kinds, application, boot, and IPL. <p data-bbox="288 1005 555 1034">Destination code list</p> <table border="1" data-bbox="336 1048 1399 1957"> <thead> <tr> <th>Code</th> <th>Destination</th> <th>Code</th> <th>Destination</th> </tr> </thead> <tbody> <tr> <td>000</td> <td>Japan</td> <td>253</td> <td>CTR21 (European nations)</td> </tr> <tr> <td>009</td> <td>Australia</td> <td></td> <td>Italy</td> </tr> <tr> <td>038</td> <td>China</td> <td></td> <td>Germany</td> </tr> <tr> <td>080</td> <td>Hong Kong</td> <td></td> <td>Spain</td> </tr> <tr> <td>084</td> <td>Indonesia</td> <td></td> <td>U.K.</td> </tr> <tr> <td>088</td> <td>Israel</td> <td></td> <td>Netherlands</td> </tr> <tr> <td>097</td> <td>Korea</td> <td></td> <td>Sweden</td> </tr> <tr> <td>108</td> <td>Malaysia</td> <td></td> <td>France</td> </tr> <tr> <td>126</td> <td>New Zealand</td> <td></td> <td>Austria</td> </tr> <tr> <td>136</td> <td>Peru</td> <td></td> <td>Switzerland</td> </tr> <tr> <td>137</td> <td>Philippines</td> <td></td> <td>Belgium</td> </tr> <tr> <td>152</td> <td>Middle East</td> <td></td> <td>Denmark</td> </tr> <tr> <td>156</td> <td>Singapore</td> <td></td> <td>Finland</td> </tr> <tr> <td>159</td> <td>South Africa</td> <td></td> <td>Portugal</td> </tr> <tr> <td>169</td> <td>Thailand</td> <td></td> <td>Ireland</td> </tr> <tr> <td>181</td> <td>U.S.A.</td> <td></td> <td>Norway</td> </tr> <tr> <td>242</td> <td>South America</td> <td>254</td> <td>Taiwan</td> </tr> <tr> <td>243</td> <td>Saudi Arabia</td> <td></td> <td></td> </tr> </tbody> </table>	Code	Destination	Code	Destination	000	Japan	253	CTR21 (European nations)	009	Australia		Italy	038	China		Germany	080	Hong Kong		Spain	084	Indonesia		U.K.	088	Israel		Netherlands	097	Korea		Sweden	108	Malaysia		France	126	New Zealand		Austria	136	Peru		Switzerland	137	Philippines		Belgium	152	Middle East		Denmark	156	Singapore		Finland	159	South Africa		Portugal	169	Thailand		Ireland	181	U.S.A.		Norway	242	South America	254	Taiwan	243	Saudi Arabia		
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Item No.	Description								
U601	<p>Initializing permanent data</p> <p>Description Initializes software switches on the FAX control PWB according to the destination and OEM.</p> <p>Purpose To initialize the FAX control PWB without changing user registration data.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select [Execute]. The screen for entering the destination code and OEM code is displayed. 3. Select [Country Code] and enter a destination code using the numeric keys (refer to the destination code list on page 1-3-42 for the destination code). 4. Press the start key. There is no operation necessary on this screen. The destination code and the OEM code are displayed with the values currently set. 5. Press the start key. Data initialization starts. To cancel data initialization, press the back key. 6. After data initialization, the entered destination, OEM codes and ROM version are displayed. A ROM version displays three kinds, application, boot, and IPL. 								
U603	<p>Setting user data 1</p> <p>Description Makes user settings to enable the use of the machine as a fax.</p> <p>Purpose To be executed as required.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select [Line Type] and press the start key. 3. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1301 1401 1494"> <thead> <tr> <th data-bbox="336 1301 639 1350">Display</th> <th data-bbox="639 1301 1401 1350">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1350 639 1400">DTMF</td> <td data-bbox="639 1350 1401 1400">DTMF</td> </tr> <tr> <td data-bbox="336 1400 639 1449">10PPS</td> <td data-bbox="639 1400 1401 1449">10 PPS</td> </tr> <tr> <td data-bbox="336 1449 639 1494">20PPS</td> <td data-bbox="639 1449 1401 1494">20 PPS</td> </tr> </tbody> </table> <p>* : Initial setting: DTMF</p> <ol style="list-style-type: none"> 4. Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	DTMF	DTMF	10PPS	10 PPS	20PPS	20 PPS
Display	Description								
DTMF	DTMF								
10PPS	10 PPS								
20PPS	20 PPS								

Item No.	Description						
U604	<p>Setting user data 2</p> <p>Description Makes user settings to enable the use of the machine as a fax.</p> <p>Purpose Use this if the user wishes to adjust the number of rings that occur before the unit switches into fax receiving mode when fax/telephone auto-select is enabled.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="338 633 1401 728"> <thead> <tr> <th data-bbox="338 633 868 678">Description</th> <th data-bbox="868 633 1098 678">Setting range</th> <th data-bbox="1098 633 1401 678">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 678 868 728">Number of fax/telephone rings</td> <td data-bbox="868 678 1098 728">0 to 15</td> <td data-bbox="1098 678 1401 728">2 (120 V)/1 (220-240 V)</td> </tr> </tbody> </table> <p>* : If you set this to 0, the unit will start fax reception without any ringing.</p> <ol style="list-style-type: none"> 3. Press the start key. The value is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Number of fax/telephone rings	0 to 15	2 (120 V)/1 (220-240 V)
Description	Setting range	Initial setting					
Number of fax/telephone rings	0 to 15	2 (120 V)/1 (220-240 V)					
U605	<p>Clearing data</p> <p>Description Initializes data related to the fax transmission such as transmission history.</p> <p>Purpose To clear the transmission history.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select [Comm REC]. 3. Press the start key. Initialization processing starts. When processing is finished, [Completed] is displayed. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>						

Item No.	Description																								
U610	<p data-bbox="290 241 502 275">Setting system 1</p> <p data-bbox="290 311 438 340">Description</p> <p data-bbox="290 344 1404 412">Makes settings for fax reception regarding the sizes of the fax paper and received images and automatic printing of the protocol list.</p> <p data-bbox="290 450 386 479">Method</p> <ol data-bbox="308 486 997 548" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 562 1401 860"> <thead> <tr> <th data-bbox="336 562 639 607">Display</th> <th data-bbox="639 562 1401 607">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 607 639 689">Cut Line:100%</td> <td data-bbox="639 607 1401 689">Sets the number of lines to be ignored when receiving a fax at 100% magnification.</td> </tr> <tr> <td data-bbox="336 689 639 772">Cut Line:Auto</td> <td data-bbox="639 689 1401 772">Sets the number of lines to be ignored when receiving a fax in the auto reduction mode.</td> </tr> <tr> <td data-bbox="336 772 639 860">Cut Line:A4</td> <td data-bbox="639 772 1401 860">Sets the number of lines to be ignored when receiving a fax (A4R/LetterR) in the auto reduction mode.</td> </tr> </tbody> </table> <p data-bbox="290 904 1372 936">Setting the number of lines to be ignored when receiving a fax at 100% magnification</p> <p data-bbox="290 940 1431 1039">Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when recording the data at 100% magnification. If the number of excess lines is below the setting, those lines are ignored. If over the setting, they are recorded on the next page.</p> <ol data-bbox="308 1043 1125 1075" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="336 1088 1401 1252"> <thead> <tr> <th data-bbox="336 1088 823 1171">Description</th> <th data-bbox="823 1088 1003 1171">Setting range</th> <th data-bbox="1003 1088 1187 1171">Initial setting</th> <th data-bbox="1187 1088 1401 1171">Change in value per step</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1171 823 1252">Number of lines to be ignored when receiving at 100%</td> <td data-bbox="823 1171 1003 1252">0 to 22</td> <td data-bbox="1003 1171 1187 1252">3</td> <td data-bbox="1187 1171 1401 1252">16 lines</td> </tr> </tbody> </table> <p data-bbox="336 1261 1364 1326">* : Increase the setting if a blank second page is output, and decrease it if the received image does not include the entire transmitted data.</p> <ol data-bbox="308 1330 766 1361" style="list-style-type: none"> 2. Press the start key. The value is set. <p data-bbox="290 1397 1431 1429">Setting the number of lines to be ignored when receiving a fax in the auto reduction mode</p> <p data-bbox="290 1433 1431 1568">Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when the data is recorded in the auto reduction mode. If the number of excess lines is below the setting, those lines are ignored. If over the setting, the entire data on a page is further reduced so that it can be recorded on the same page.</p> <ol data-bbox="308 1572 1125 1603" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="336 1617 1401 1780"> <thead> <tr> <th data-bbox="336 1617 823 1700">Description</th> <th data-bbox="823 1617 1003 1700">Setting range</th> <th data-bbox="1003 1617 1187 1700">Initial setting</th> <th data-bbox="1187 1617 1401 1700">Change in value per step</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1700 823 1780">Number of lines to be ignored when receiving in the auto reduction mode</td> <td data-bbox="823 1700 1003 1780">0 to 22</td> <td data-bbox="1003 1700 1187 1780">0</td> <td data-bbox="1187 1700 1401 1780">16 lines</td> </tr> </tbody> </table> <p data-bbox="336 1789 1396 1888">* : Increase the setting if a page received in the reduction mode is over-reduced and too much trailing edge margin is left. Decrease it if the received image does not include all transmitted data.</p> <ol data-bbox="308 1892 766 1924" style="list-style-type: none"> 2. Press the start key. The value is set. 	Display	Description	Cut Line:100%	Sets the number of lines to be ignored when receiving a fax at 100% magnification.	Cut Line:Auto	Sets the number of lines to be ignored when receiving a fax in the auto reduction mode.	Cut Line:A4	Sets the number of lines to be ignored when receiving a fax (A4R/LetterR) in the auto reduction mode.	Description	Setting range	Initial setting	Change in value per step	Number of lines to be ignored when receiving at 100%	0 to 22	3	16 lines	Description	Setting range	Initial setting	Change in value per step	Number of lines to be ignored when receiving in the auto reduction mode	0 to 22	0	16 lines
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Number of lines to be ignored when receiving in the auto reduction mode	0 to 22	0	16 lines																						

Item No.	Description								
U610	<p data-bbox="288 241 1409 304">Setting the number of lines to be ignored when receiving a fax (A4R/LetterR) in the auto reduction mode</p> <p data-bbox="288 311 1433 409">Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when the data is recorded in the auto reduction mode onto A4R or LetterR paper under the conditions below.</p> <p data-bbox="288 416 1425 479">If the number of excess lines is below the setting, those lines are ignored. If over the setting, the entire data on a page is further reduced so that it can be recorded on the same page.</p> <p data-bbox="308 486 1126 517">1. Change the setting using the cursor left/right keys or numeric keys.</p> <table border="1" data-bbox="338 526 1401 728"> <thead> <tr> <th data-bbox="338 526 823 607">Description</th> <th data-bbox="823 526 1003 607">Setting range</th> <th data-bbox="1003 526 1187 607">Initial setting</th> <th data-bbox="1187 526 1401 607">Change in value per step</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 607 823 728">Number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode</td> <td data-bbox="823 607 1003 728">0 to 22</td> <td data-bbox="1003 607 1187 728">0</td> <td data-bbox="1187 607 1401 728">16 lines</td> </tr> </tbody> </table> <p data-bbox="338 739 1393 837">* : Increase the setting if a page received in the reduction mode is over-reduced and too much trailing edge margin is left. Decrease it if the received image does not include all transmitted data.</p> <p data-bbox="308 844 767 875">2. Press the start key. The value is set.</p> <p data-bbox="288 911 440 943">Completion</p> <p data-bbox="288 949 1254 981">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Change in value per step	Number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode	0 to 22	0	16 lines
Description	Setting range	Initial setting	Change in value per step						
Number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode	0 to 22	0	16 lines						

Item No.	Description																										
U611	<p data-bbox="288 241 507 275">Setting system 2</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1005 374">Sets the number of adjustment lines for automatic reduction.</p> <p data-bbox="288 414 387 443">Method</p> <ol data-bbox="304 450 1000 515" style="list-style-type: none"> <li data-bbox="304 450 564 479">1. Press the start key. <li data-bbox="304 486 1000 515">2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 526 1401 790"> <thead> <tr> <th data-bbox="336 526 639 571">Display</th> <th data-bbox="639 526 1401 571">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 571 639 616">Adj Lines</td> <td data-bbox="639 571 1401 616">Sets the number of adjustment lines for automatic reduction.</td> </tr> <tr> <td data-bbox="336 616 639 705">Adj Lines(A4)</td> <td data-bbox="639 616 1401 705">Sets the number of adjustment lines for automatic reduction when A4 paper is set.</td> </tr> <tr> <td data-bbox="336 705 639 790">Adj Lines(LT)</td> <td data-bbox="639 705 1401 790">Sets the number of adjustment lines for automatic reduction when letter size paper is set.</td> </tr> </tbody> </table> <p data-bbox="288 828 1094 857">Setting the number of adjustment lines for automatic reduction</p> <p data-bbox="288 862 1005 891">Sets the number of adjustment lines for automatic reduction.</p> <ol data-bbox="304 898 1128 927" style="list-style-type: none"> <li data-bbox="304 898 1128 927">1. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="336 943 1401 1039"> <thead> <tr> <th data-bbox="336 943 975 987">Description</th> <th data-bbox="975 943 1187 987">Setting range</th> <th data-bbox="1187 943 1401 987">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 987 975 1039">Number of adjustment lines for automatic reduction</td> <td data-bbox="975 987 1187 1039">0 to 22</td> <td data-bbox="1187 987 1401 1039">7</td> </tr> </tbody> </table> <ol data-bbox="304 1050 767 1079" style="list-style-type: none"> <li data-bbox="304 1050 767 1079">2. Press the start key. The value is set. <p data-bbox="288 1120 1369 1149">Setting the number of adjustment lines for automatic reduction when A4 paper is set</p> <p data-bbox="288 1153 1262 1182">Sets the number of adjustment lines for automatic reduction when A4 paper is set.</p> <ol data-bbox="304 1189 1128 1218" style="list-style-type: none"> <li data-bbox="304 1189 1128 1218">1. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="336 1234 1401 1364"> <thead> <tr> <th data-bbox="336 1234 975 1279">Description</th> <th data-bbox="975 1234 1187 1279">Setting range</th> <th data-bbox="1187 1234 1401 1279">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1279 975 1364">Number of adjustment lines for automatic reduction when A4 paper is set</td> <td data-bbox="975 1279 1187 1364">0 to 22</td> <td data-bbox="1187 1279 1401 1364">22</td> </tr> </tbody> </table> <ol data-bbox="304 1375 767 1404" style="list-style-type: none"> <li data-bbox="304 1375 767 1404">2. Press the start key. The value is set. <p data-bbox="288 1444 1410 1505">Setting the number of adjustment lines for automatic reduction when letter size paper is set</p> <p data-bbox="288 1509 1345 1538">Sets the number of adjustment lines for automatic reduction when letter size paper is set.</p> <ol data-bbox="304 1545 1128 1574" style="list-style-type: none"> <li data-bbox="304 1545 1128 1574">1. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="336 1590 1401 1720"> <thead> <tr> <th data-bbox="336 1590 975 1635">Description</th> <th data-bbox="975 1590 1187 1635">Setting range</th> <th data-bbox="1187 1590 1401 1635">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1635 975 1720">Number of adjustment lines for automatic reduction when letter size paper is set</td> <td data-bbox="975 1635 1187 1720">0 to 26</td> <td data-bbox="1187 1635 1401 1720">26</td> </tr> </tbody> </table> <ol data-bbox="304 1731 767 1760" style="list-style-type: none"> <li data-bbox="304 1731 767 1760">2. Press the start key. The value is set. <p data-bbox="288 1800 440 1830">Completion</p> <p data-bbox="288 1834 1256 1863">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Adj Lines	Sets the number of adjustment lines for automatic reduction.	Adj Lines(A4)	Sets the number of adjustment lines for automatic reduction when A4 paper is set.	Adj Lines(LT)	Sets the number of adjustment lines for automatic reduction when letter size paper is set.	Description	Setting range	Initial setting	Number of adjustment lines for automatic reduction	0 to 22	7	Description	Setting range	Initial setting	Number of adjustment lines for automatic reduction when A4 paper is set	0 to 22	22	Description	Setting range	Initial setting	Number of adjustment lines for automatic reduction when letter size paper is set	0 to 26	26
Display	Description																										
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Number of adjustment lines for automatic reduction when A4 paper is set	0 to 22	22																									
Description	Setting range	Initial setting																									
Number of adjustment lines for automatic reduction when letter size paper is set	0 to 26	26																									

Item No.	Description																						
U612	<p data-bbox="288 241 507 275">Setting system 3</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1428 445">Makes settings for fax transmission regarding operation and automatic printing of the protocol list. This determines how trailing edge margin is detected (to prevent image from being mutilated) while printing a received Fax.</p> <p data-bbox="288 483 387 512">Method</p> <ol data-bbox="304 517 999 584" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 595 1399 824"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1399 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 730">Auto Reduction</td> <td data-bbox="639 640 1399 730">Selects if auto reduction in the auxiliary direction is to be performed.</td> </tr> <tr> <td data-bbox="336 730 639 775">Protocol List</td> <td data-bbox="639 730 1399 775">Sets the automatic printing of the protocol list.</td> </tr> <tr> <td data-bbox="336 775 639 824">Detect Trail</td> <td data-bbox="639 775 1399 824">Sets how trailing edge margins are detected</td> </tr> </tbody> </table> <p data-bbox="288 869 1185 898">Selecting if auto reduction in the auxiliary direction is to be performed</p> <p data-bbox="288 902 1428 969">Sets whether to receive a long document by automatically reducing it in the auxiliary direction or at 100% magnification.</p> <ol data-bbox="304 974 911 1003" style="list-style-type: none"> 1. Select the setting using the cursor left/right keys. <table border="1" data-bbox="336 1014 1399 1196"> <thead> <tr> <th data-bbox="336 1014 639 1059">Display</th> <th data-bbox="639 1014 1399 1059">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1059 639 1149">On</td> <td data-bbox="639 1059 1399 1149">Auto reduction is performed if the received document is longer than the fax paper.</td> </tr> <tr> <td data-bbox="336 1149 639 1196">Off</td> <td data-bbox="639 1149 1399 1196">Auto reduction is not performed.</td> </tr> </tbody> </table> <p data-bbox="336 1205 576 1234">* : Initial setting: On</p> <ol data-bbox="304 1238 783 1267" style="list-style-type: none"> 2. Press the start key. The setting is set. <p data-bbox="288 1305 914 1335">Setting the automatic printing of the protocol list</p> <p data-bbox="288 1339 887 1368">Sets if the protocol list is automatically printed out.</p> <ol data-bbox="304 1373 911 1402" style="list-style-type: none"> 1. Select the setting using the cursor left/right keys. <table border="1" data-bbox="336 1413 1399 1684"> <thead> <tr> <th data-bbox="336 1413 639 1458">Display</th> <th data-bbox="639 1413 1399 1458">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1458 639 1547">On</td> <td data-bbox="639 1458 1399 1547">The protocol list is automatically printed out after communication.</td> </tr> <tr> <td data-bbox="336 1547 639 1637">Err</td> <td data-bbox="639 1547 1399 1637">The protocol list is automatically printed out after communication only if a communication error occurs.</td> </tr> <tr> <td data-bbox="336 1637 639 1684">Off</td> <td data-bbox="639 1637 1399 1684">The protocol list is not printed out automatically.</td> </tr> </tbody> </table> <p data-bbox="336 1693 576 1722">* : Initial setting: Off</p> <ol data-bbox="304 1727 783 1756" style="list-style-type: none"> 2. Press the start key. The setting is set. 	Display	Description	Auto Reduction	Selects if auto reduction in the auxiliary direction is to be performed.	Protocol List	Sets the automatic printing of the protocol list.	Detect Trail	Sets how trailing edge margins are detected	Display	Description	On	Auto reduction is performed if the received document is longer than the fax paper.	Off	Auto reduction is not performed.	Display	Description	On	The protocol list is automatically printed out after communication.	Err	The protocol list is automatically printed out after communication only if a communication error occurs.	Off	The protocol list is not printed out automatically.
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Item No.	Description						
U612	<p>Setting how trailing edge margins are detected</p> <p>This determines whether trailing edge margin is detected (to prevent image from being mutilated) while printing a received Fax.</p> <ol style="list-style-type: none"> 1. Select On or Off using the cursor left/right keys. <table border="1" data-bbox="336 389 1401 533"> <thead> <tr> <th data-bbox="336 389 639 434">Display</th> <th data-bbox="639 389 1401 434">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 434 639 479">On</td> <td data-bbox="639 434 1401 479">Detects trailing edge margin</td> </tr> <tr> <td data-bbox="336 479 639 533">Off</td> <td data-bbox="639 479 1401 533">Does not detect trailing edge margin</td> </tr> </tbody> </table> <p>* : Initial setting: On</p> <ol style="list-style-type: none"> 2. Press the start key. The setting is set. <p>Completion</p> <p>Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	On	Detects trailing edge margin	Off	Does not detect trailing edge margin
Display	Description						
On	Detects trailing edge margin						
Off	Does not detect trailing edge margin						
U620	<p>Setting the remote switching mode</p> <p>Description</p> <p>Sets the signal detection method for remote switching. Be sure to change the setting according to the type of telephone connected to the machine.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select [Remort Mode] and press the start key. 3. Select the mode using the cursor up/down keys. <table border="1" data-bbox="336 1084 1401 1227"> <thead> <tr> <th data-bbox="336 1084 639 1128">Display</th> <th data-bbox="639 1084 1401 1128">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1128 639 1173">One</td> <td data-bbox="639 1128 1401 1173">One-shot detection</td> </tr> <tr> <td data-bbox="336 1173 639 1227">Cont</td> <td data-bbox="639 1173 1401 1227">Continuous detection</td> </tr> </tbody> </table> <p>* : Initial setting: One</p> <ol style="list-style-type: none"> 4. Press the start key. The setting is set. <p>Completion</p> <p>Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	One	One-shot detection	Cont	Continuous detection
Display	Description						
One	One-shot detection						
Cont	Continuous detection						

Item No.	Description																		
U625	<p data-bbox="288 241 724 275">Setting the transmission system 1</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1315 376">Makes settings for the auto redialing interval and the number of times of auto redialing.</p> <p data-bbox="288 380 400 409">Purpose</p> <p data-bbox="288 414 1426 515">Change the setting to prevent the following problems: fax transmission is not possible due to too short redial interval, or fax transmission takes too much time to complete due to too long redial interval.</p> <p data-bbox="288 553 387 582">Method</p> <ol data-bbox="304 589 999 651" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 665 1399 808"> <thead> <tr> <th data-bbox="336 665 639 712">Display</th> <th data-bbox="639 665 1399 712">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 639 759">Interval</td> <td data-bbox="639 712 1399 759">Setting the auto redialing interval</td> </tr> <tr> <td data-bbox="336 759 639 808">Times</td> <td data-bbox="639 759 1399 808">Setting the number of times of auto redialing</td> </tr> </tbody> </table> <p data-bbox="288 853 716 882">Setting the auto redialing interval</p> <ol data-bbox="304 889 932 918" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 931 1399 1025"> <thead> <tr> <th data-bbox="336 931 868 978">Description</th> <th data-bbox="868 931 1096 978">Setting range</th> <th data-bbox="1096 931 1399 978">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 978 868 1025">Redialing interval</td> <td data-bbox="868 978 1096 1025">1 to 9 (min.)</td> <td data-bbox="1096 978 1399 1025">3 (120 V)/2 (220-240 V)</td> </tr> </tbody> </table> <ol data-bbox="304 1034 766 1064" style="list-style-type: none"> 2. Press the start key. The value is set. <p data-bbox="288 1106 860 1135">Setting the number of times of auto redialing</p> <ol data-bbox="304 1142 1126 1171" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="336 1184 1399 1279"> <thead> <tr> <th data-bbox="336 1184 868 1232">Description</th> <th data-bbox="868 1184 1096 1232">Setting range</th> <th data-bbox="1096 1184 1399 1232">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1232 868 1279">Number of redialing</td> <td data-bbox="868 1232 1096 1279">0 to 15</td> <td data-bbox="1096 1232 1399 1279">2 (120 V)/3 (220-240 V)</td> </tr> </tbody> </table> <ol data-bbox="304 1288 766 1317" style="list-style-type: none"> 2. Press the start key. The value is set. <p data-bbox="288 1357 440 1386">Completion</p> <p data-bbox="288 1391 1254 1420">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Interval	Setting the auto redialing interval	Times	Setting the number of times of auto redialing	Description	Setting range	Initial setting	Redialing interval	1 to 9 (min.)	3 (120 V)/2 (220-240 V)	Description	Setting range	Initial setting	Number of redialing	0 to 15	2 (120 V)/3 (220-240 V)
Display	Description																		
Interval	Setting the auto redialing interval																		
Times	Setting the number of times of auto redialing																		
Description	Setting range	Initial setting																	
Redialing interval	1 to 9 (min.)	3 (120 V)/2 (220-240 V)																	
Description	Setting range	Initial setting																	
Number of redialing	0 to 15	2 (120 V)/3 (220-240 V)																	

Item No.	Description																														
U630	<p data-bbox="288 241 707 271">Setting communication control 1</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1069 374">Makes settings for fax transmission regarding the communication.</p> <p data-bbox="288 414 387 443">Method</p> <ol data-bbox="308 448 1000 515" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 526 1399 837"> <thead> <tr> <th data-bbox="336 526 639 571">Display</th> <th data-bbox="639 526 1399 571">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 571 639 616">TX Speed</td> <td data-bbox="639 571 1399 616">Sets the communication starting speed.</td> </tr> <tr> <td data-bbox="336 616 639 660">RX Speed</td> <td data-bbox="639 616 1399 660">Sets the reception speed.</td> </tr> <tr> <td data-bbox="336 660 639 750">TX Echo</td> <td data-bbox="639 660 1399 750">Sets the waiting period to prevent echo problems at the sender.</td> </tr> <tr> <td data-bbox="336 750 639 837">RX Echo</td> <td data-bbox="639 750 1399 837">Sets the waiting period to prevent echo problems at the receiver.</td> </tr> </tbody> </table> <p data-bbox="288 882 826 911">Setting the communication starting speed</p> <p data-bbox="288 916 1418 983">Sets the initial communication speed when starting transmission. When the destination unit has V.34 capability, V.34 is selected for transmission, regardless of this setting.</p> <ol data-bbox="308 987 919 1016" style="list-style-type: none"> 1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1028 1399 1267"> <thead> <tr> <th data-bbox="336 1028 639 1072">Display</th> <th data-bbox="639 1028 1399 1072">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1072 639 1117">14400bps/V17</td> <td data-bbox="639 1072 1399 1117">V.17, 14400 bps</td> </tr> <tr> <td data-bbox="336 1117 639 1162">9600bps/V29</td> <td data-bbox="639 1117 1399 1162">V.17, 9600 bps</td> </tr> <tr> <td data-bbox="336 1162 639 1207">4800bps/V27ter</td> <td data-bbox="639 1162 1399 1207">V.27ter, 4800 bps</td> </tr> <tr> <td data-bbox="336 1207 639 1267">2400bps/V27ter</td> <td data-bbox="639 1207 1399 1267">V.27ter, 2400 bps</td> </tr> </tbody> </table> <p data-bbox="336 1279 711 1308">* : Initial setting: 14400bps/V17</p> <ol data-bbox="308 1312 782 1341" style="list-style-type: none"> 2. Press the start key. The setting is set. <p data-bbox="288 1382 643 1411">Setting the reception speed</p> <p data-bbox="288 1415 1409 1482">Sets the reception speed that the sender is informed of using the DIS or NSF signal. When the destination unit has V.34 capability, V.34 is selected, regardless of the setting.</p> <ol data-bbox="308 1487 919 1516" style="list-style-type: none"> 1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1527 1399 1769"> <thead> <tr> <th data-bbox="336 1527 639 1572">Display</th> <th data-bbox="639 1527 1399 1572">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1572 639 1617">14400bps</td> <td data-bbox="639 1572 1399 1617">V.17, V.33, V.29, V.27ter</td> </tr> <tr> <td data-bbox="336 1617 639 1662">9600bps</td> <td data-bbox="639 1617 1399 1662">V.29, V.27ter</td> </tr> <tr> <td data-bbox="336 1662 639 1706">4800bps</td> <td data-bbox="639 1662 1399 1706">V.27ter</td> </tr> <tr> <td data-bbox="336 1706 639 1769">2400bps</td> <td data-bbox="639 1706 1399 1769">V.27ter (fallback only)</td> </tr> </tbody> </table> <p data-bbox="336 1780 657 1809">* : Initial setting: 14400bps</p> <ol data-bbox="308 1814 782 1843" style="list-style-type: none"> 2. Press the start key. The setting is set. 	Display	Description	TX Speed	Sets the communication starting speed.	RX Speed	Sets the reception speed.	TX Echo	Sets the waiting period to prevent echo problems at the sender.	RX Echo	Sets the waiting period to prevent echo problems at the receiver.	Display	Description	14400bps/V17	V.17, 14400 bps	9600bps/V29	V.17, 9600 bps	4800bps/V27ter	V.27ter, 4800 bps	2400bps/V27ter	V.27ter, 2400 bps	Display	Description	14400bps	V.17, V.33, V.29, V.27ter	9600bps	V.29, V.27ter	4800bps	V.27ter	2400bps	V.27ter (fallback only)
Display	Description																														
TX Speed	Sets the communication starting speed.																														
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14400bps/V17	V.17, 14400 bps																														
9600bps/V29	V.17, 9600 bps																														
4800bps/V27ter	V.27ter, 4800 bps																														
2400bps/V27ter	V.27ter, 2400 bps																														
Display	Description																														
14400bps	V.17, V.33, V.29, V.27ter																														
9600bps	V.29, V.27ter																														
4800bps	V.27ter																														
2400bps	V.27ter (fallback only)																														

Item No.	Description												
U630	<p data-bbox="290 241 1129 271">Setting the waiting period to prevent echo problems at the sender</p> <p data-bbox="290 277 1418 338">Sets the period before a DCS signal is sent after a DIS signal is received. Used when problems occur due to echoes at the sender.</p> <p data-bbox="308 344 919 374">1. Select the setting using the cursor up/down keys.</p> <table border="1" data-bbox="336 389 1399 533"> <thead> <tr> <th data-bbox="336 389 639 434">Display</th> <th data-bbox="639 389 1399 434">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 434 639 479">500</td> <td data-bbox="639 434 1399 479">Sends a DCS 500 ms after receiving a DIS.</td> </tr> <tr> <td data-bbox="336 479 639 533">300</td> <td data-bbox="639 479 1399 533">Sends a DCS 300 ms after receiving a DIS.</td> </tr> </tbody> </table> <p data-bbox="336 542 584 571">* : Initial setting: 300</p> <p data-bbox="308 577 782 607">2. Press the start key. The setting is set.</p> <p data-bbox="290 645 1144 674">Setting the waiting period to prevent echo problems at the receiver</p> <p data-bbox="290 680 1391 741">Sets the period before an NSF, CSI or DIS signal is sent after a CED signal is received. Used when problems occur due to echoes at the receiver.</p> <p data-bbox="308 748 919 777">1. Select the setting using the cursor up/down keys.</p> <table border="1" data-bbox="336 792 1399 936"> <thead> <tr> <th data-bbox="336 792 639 837">Display</th> <th data-bbox="639 792 1399 837">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 837 639 882">500</td> <td data-bbox="639 837 1399 882">Sends an NSF, CSI or DIS 500 ms after receiving a CED.</td> </tr> <tr> <td data-bbox="336 882 639 936">75</td> <td data-bbox="639 882 1399 936">Sends an NSF, CSI or DIS 75 ms after receiving a CED.</td> </tr> </tbody> </table> <p data-bbox="336 945 571 974">* : Initial setting: 75</p> <p data-bbox="308 981 782 1010">2. Press the start key. The setting is set.</p> <p data-bbox="290 1048 440 1077">Completion</p> <p data-bbox="290 1084 1254 1113">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	500	Sends a DCS 500 ms after receiving a DIS.	300	Sends a DCS 300 ms after receiving a DIS.	Display	Description	500	Sends an NSF, CSI or DIS 500 ms after receiving a CED.	75	Sends an NSF, CSI or DIS 75 ms after receiving a CED.
Display	Description												
500	Sends a DCS 500 ms after receiving a DIS.												
300	Sends a DCS 300 ms after receiving a DIS.												
Display	Description												
500	Sends an NSF, CSI or DIS 500 ms after receiving a CED.												
75	Sends an NSF, CSI or DIS 75 ms after receiving a CED.												

Item No.	Description																										
U631	<p data-bbox="288 241 710 271">Setting communication control 2</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 799 374">Makes settings regarding fax transmission.</p> <p data-bbox="288 414 387 443">Method</p> <ol data-bbox="308 450 999 515" style="list-style-type: none"> <li data-bbox="308 450 564 479">1. Press the start key. <li data-bbox="308 483 999 515">2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 526 1401 719"> <thead> <tr> <th data-bbox="336 526 639 571">Display</th> <th data-bbox="639 526 1401 571">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 571 639 616">ECM TX</td> <td data-bbox="639 571 1401 616">Sets ECM transmission.</td> </tr> <tr> <td data-bbox="336 616 639 660">ECM RX</td> <td data-bbox="639 616 1401 660">Sets ECM reception.</td> </tr> <tr> <td data-bbox="336 660 639 719">CED Freq</td> <td data-bbox="639 660 1401 719">Sets the frequency of the CED signal.</td> </tr> </tbody> </table> <p data-bbox="288 761 624 790">Setting ECM transmission</p> <p data-bbox="288 795 1374 860">To be set to Off when reduction of transmission costs is of higher priority than image quality. This should not be set to Off when connecting to the IP (Internet Protocol) telephone line.</p> <ol data-bbox="308 864 919 896" style="list-style-type: none"> <li data-bbox="308 864 919 896">1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 907 1401 1055"> <thead> <tr> <th data-bbox="336 907 639 952">Display</th> <th data-bbox="639 907 1401 952">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 952 639 996">On</td> <td data-bbox="639 952 1401 996">ECM transmission is enabled.</td> </tr> <tr> <td data-bbox="336 996 639 1055">Off</td> <td data-bbox="639 996 1401 1055">ECM transmission is disabled.</td> </tr> </tbody> </table> <p data-bbox="336 1059 576 1088">* : Initial setting: On</p> <ol data-bbox="308 1093 782 1124" style="list-style-type: none"> <li data-bbox="308 1093 782 1124">2. Press the start key. The setting is set. <p data-bbox="288 1164 576 1193">Setting ECM reception</p> <p data-bbox="288 1198 1374 1263">To be set to Off when reduction of transmission costs is of higher priority than image quality. This should not be set to Off when connecting to the IP (Internet Protocol) telephone line.</p> <ol data-bbox="308 1267 919 1299" style="list-style-type: none"> <li data-bbox="308 1267 919 1299">1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1310 1401 1458"> <thead> <tr> <th data-bbox="336 1310 639 1355">Display</th> <th data-bbox="639 1310 1401 1355">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1355 639 1400">On</td> <td data-bbox="639 1355 1401 1400">ECM reception is enabled.</td> </tr> <tr> <td data-bbox="336 1400 639 1458">Off</td> <td data-bbox="639 1400 1401 1458">ECM reception is disabled.</td> </tr> </tbody> </table> <p data-bbox="336 1462 576 1491">* : Initial setting: On</p> <ol data-bbox="308 1496 782 1527" style="list-style-type: none"> <li data-bbox="308 1496 782 1527">2. Press the start key. The setting is set. <p data-bbox="288 1568 796 1597">Setting the frequency of the CED signal</p> <p data-bbox="288 1601 1433 1666">Sets the frequency of the CED signal. Used as one of the measures to improve transmission performance for international communications.</p> <ol data-bbox="308 1671 919 1702" style="list-style-type: none"> <li data-bbox="308 1671 919 1702">1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1713 1401 1861"> <thead> <tr> <th data-bbox="336 1713 639 1758">Display</th> <th data-bbox="639 1713 1401 1758">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1758 639 1803">2100</td> <td data-bbox="639 1758 1401 1803">2100 Hz</td> </tr> <tr> <td data-bbox="336 1803 639 1861">1100</td> <td data-bbox="639 1803 1401 1861">1100 Hz</td> </tr> </tbody> </table> <p data-bbox="336 1865 600 1895">* : Initial setting: 2100</p> <ol data-bbox="308 1899 782 1930" style="list-style-type: none"> <li data-bbox="308 1899 782 1930">2. Press the start key. The setting is set. <p data-bbox="288 1971 440 2000">Completion</p> <p data-bbox="288 2004 1254 2033">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	ECM TX	Sets ECM transmission.	ECM RX	Sets ECM reception.	CED Freq	Sets the frequency of the CED signal.	Display	Description	On	ECM transmission is enabled.	Off	ECM transmission is disabled.	Display	Description	On	ECM reception is enabled.	Off	ECM reception is disabled.	Display	Description	2100	2100 Hz	1100	1100 Hz
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ECM TX	Sets ECM transmission.																										
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Off	ECM reception is disabled.																										
Display	Description																										
2100	2100 Hz																										
1100	1100 Hz																										

Item No.	Description																		
U632	<p data-bbox="288 241 708 271">Setting communication control 3</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1069 374">Makes settings for fax transmission regarding the communication.</p> <p data-bbox="288 414 387 443">Method</p> <ol data-bbox="308 450 999 515" style="list-style-type: none"> <li data-bbox="308 450 564 479">1. Press the start key. <li data-bbox="308 483 999 515">2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 526 1399 705"> <thead> <tr> <th data-bbox="336 526 639 571">Display</th> <th data-bbox="639 526 1399 571">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 571 639 616">DIS 4Byte</td> <td data-bbox="639 571 1399 616">Sets the DIS signal to 4 bytes.</td> </tr> <tr> <td data-bbox="336 616 639 705">Num OF CNG(F/T)</td> <td data-bbox="639 616 1399 705">Sets the CNG detection times in the fax/telephone auto select mode.</td> </tr> </tbody> </table> <p data-bbox="288 748 699 777">Setting the DIS signal to 4 bytes</p> <p data-bbox="288 781 975 810">Sets if bit 33 and later bits of the DIS/DTC signal are sent.</p> <ol data-bbox="308 815 919 844" style="list-style-type: none"> <li data-bbox="308 815 919 844">1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 862 1399 1005"> <thead> <tr> <th data-bbox="336 862 639 907">Display</th> <th data-bbox="639 862 1399 907">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 907 639 952">On</td> <td data-bbox="639 907 1399 952">Bit 33 and later bits of the DIS/DTC signal are not sent.</td> </tr> <tr> <td data-bbox="336 952 639 1005">Off</td> <td data-bbox="639 952 1399 1005">Bit 33 and later bits of the DIS/DTC signal are sent.</td> </tr> </tbody> </table> <p data-bbox="336 1012 576 1041">* : Initial setting: Off</p> <ol data-bbox="308 1046 782 1075" style="list-style-type: none"> <li data-bbox="308 1046 782 1075">2. Press the start key. The setting is set. <p data-bbox="288 1117 1185 1146">Setting the CNG detection times in the fax/telephone auto select mode</p> <p data-bbox="288 1151 1101 1180">Sets the CNG detection times in the fax/telephone auto select mode.</p> <ol data-bbox="308 1184 919 1214" style="list-style-type: none"> <li data-bbox="308 1184 919 1214">1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1229 1399 1373"> <thead> <tr> <th data-bbox="336 1229 639 1274">Display</th> <th data-bbox="639 1229 1399 1274">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1274 639 1319">1Time</td> <td data-bbox="639 1274 1399 1319">Detects CNG once.</td> </tr> <tr> <td data-bbox="336 1319 639 1373">2Time</td> <td data-bbox="639 1319 1399 1373">Detects CNG twice.</td> </tr> </tbody> </table> <p data-bbox="336 1379 612 1408">* : Initial setting: 2Time</p> <ol data-bbox="308 1413 782 1442" style="list-style-type: none"> <li data-bbox="308 1413 782 1442">2. Press the start key. The setting is set. <p data-bbox="288 1485 440 1514">Completion</p> <p data-bbox="288 1518 1254 1547">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	DIS 4Byte	Sets the DIS signal to 4 bytes.	Num OF CNG(F/T)	Sets the CNG detection times in the fax/telephone auto select mode.	Display	Description	On	Bit 33 and later bits of the DIS/DTC signal are not sent.	Off	Bit 33 and later bits of the DIS/DTC signal are sent.	Display	Description	1Time	Detects CNG once.	2Time	Detects CNG twice.
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DIS 4Byte	Sets the DIS signal to 4 bytes.																		
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Display	Description																		
1Time	Detects CNG once.																		
2Time	Detects CNG twice.																		

Item No.	Description																										
U633	<p data-bbox="288 241 710 271">Setting communication control 4</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1069 374">Makes settings for fax transmission regarding the communication.</p> <p data-bbox="288 380 400 409">Purpose</p> <p data-bbox="288 414 1018 443">To reduce transmission errors when a low quality line is used.</p> <p data-bbox="288 483 387 512">Method</p> <ol data-bbox="308 517 999 582" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 595 1399 835"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1399 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">V.34</td> <td data-bbox="639 640 1399 685">Enables or disables V.34 communication.</td> </tr> <tr> <td data-bbox="336 685 639 730">V.34-3429Hz</td> <td data-bbox="639 685 1399 730">Sets the V.34 symbol speed (3429 Hz).</td> </tr> <tr> <td data-bbox="336 730 639 775">DIS 2Res</td> <td data-bbox="639 730 1399 775">Sets the number of times of DIS signal reception.</td> </tr> <tr> <td data-bbox="336 775 639 835">RTN Check</td> <td data-bbox="639 775 1399 835">Sets the reference for RTN signal output.</td> </tr> </tbody> </table> <p data-bbox="288 882 798 911">Enabling/disabling V.34 communication</p> <p data-bbox="288 916 1303 945">Sets whether V.34 communication is enabled/disabled for transmission and reception.</p> <ol data-bbox="308 949 917 978" style="list-style-type: none"> 1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 992 1399 1232"> <thead> <tr> <th data-bbox="336 992 563 1037">Display</th> <th data-bbox="563 992 1399 1037">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1037 563 1081">On</td> <td data-bbox="563 1037 1399 1081">V.34 communication is enabled for both transmission and reception.</td> </tr> <tr> <td data-bbox="336 1081 563 1126">TX</td> <td data-bbox="563 1081 1399 1126">V.34 communication is enabled for transmission only.</td> </tr> <tr> <td data-bbox="336 1126 563 1171">RX</td> <td data-bbox="563 1126 1399 1171">V.34 communication is enabled for reception only.</td> </tr> <tr> <td data-bbox="336 1171 563 1232">Off</td> <td data-bbox="563 1171 1399 1232">V.34 communication is disabled for both transmission and reception.</td> </tr> </tbody> </table> <p data-bbox="336 1243 576 1272">* : Initial setting: On</p> <ol data-bbox="308 1276 782 1305" style="list-style-type: none"> 2. Press the start key. The setting is set. <p data-bbox="288 1346 802 1375">Setting the V.34 symbol speed (3429 Hz)</p> <p data-bbox="288 1379 849 1408">Sets if the V.34 symbol speed 3429 Hz is used.</p> <ol data-bbox="308 1413 917 1442" style="list-style-type: none"> 1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1456 1399 1603"> <thead> <tr> <th data-bbox="336 1456 639 1500">Display</th> <th data-bbox="639 1456 1399 1500">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1500 639 1545">On</td> <td data-bbox="639 1500 1399 1545">V.34 symbol speed 3429 Hz is used.</td> </tr> <tr> <td data-bbox="336 1545 639 1603">Off</td> <td data-bbox="639 1545 1399 1603">V.34 symbol speed 3429 Hz is not used.</td> </tr> </tbody> </table> <p data-bbox="336 1615 576 1644">* : Initial setting: On</p> <ol data-bbox="308 1648 782 1677" style="list-style-type: none"> 2. Press the start key. The setting is set. 	Display	Description	V.34	Enables or disables V.34 communication.	V.34-3429Hz	Sets the V.34 symbol speed (3429 Hz).	DIS 2Res	Sets the number of times of DIS signal reception.	RTN Check	Sets the reference for RTN signal output.	Display	Description	On	V.34 communication is enabled for both transmission and reception.	TX	V.34 communication is enabled for transmission only.	RX	V.34 communication is enabled for reception only.	Off	V.34 communication is disabled for both transmission and reception.	Display	Description	On	V.34 symbol speed 3429 Hz is used.	Off	V.34 symbol speed 3429 Hz is not used.
Display	Description																										
V.34	Enables or disables V.34 communication.																										
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Item No.	Description																
U633	<p>Setting the number of times of DIS signal reception Sets the number of times to receive the DIS signal to once or twice. Used as one of the correction measures for transmission errors and other problems.</p> <ol style="list-style-type: none"> Select the setting using the cursor up/down keys. <table border="1" data-bbox="338 389 1401 533"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Once</td> <td>Responds to the first signal.</td> </tr> <tr> <td>Twice</td> <td>Responds to the second signal.</td> </tr> </tbody> </table> <p>* : Initial setting: Once</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Setting the reference for RTN signal output Sets the error line rate as the reference for RTN signal output. If transmission errors occur frequently due to the quality of the line, they can be reduced by lowering this setting.</p> <ol style="list-style-type: none"> Select the setting using the cursor up/down keys. <table border="1" data-bbox="338 792 1401 1034"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>5%</td> <td>Error line rate of 5%</td> </tr> <tr> <td>10%</td> <td>Error line rate of 10%</td> </tr> <tr> <td>15%</td> <td>Error line rate of 15%</td> </tr> <tr> <td>20%</td> <td>Error line rate of 20%</td> </tr> </tbody> </table> <p>* : Initial setting: 15%</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Once	Responds to the first signal.	Twice	Responds to the second signal.	Display	Description	5%	Error line rate of 5%	10%	Error line rate of 10%	15%	Error line rate of 15%	20%	Error line rate of 20%
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20%	Error line rate of 20%																
U634	<p>Setting communication control 5</p> <p>Description Sets the maximum number of error bytes judged acceptable when receiving a TCF signal. Used as a measure to ease transmission conditions if transmission errors occur.</p> <p>Setting</p> <ol style="list-style-type: none"> Press the start key. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="338 1550 1401 1646"> <thead> <tr> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Number of allowed error bytes when detecting TCF</td> <td>0 to 255</td> <td>0</td> </tr> </tbody> </table> <ol style="list-style-type: none"> Press the start key. The value is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Number of allowed error bytes when detecting TCF	0 to 255	0										
Description	Setting range	Initial setting															
Number of allowed error bytes when detecting TCF	0 to 255	0															

Item No.	Description																		
U640	<p data-bbox="288 241 671 271">Setting communication time 1</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1406 412">Sets the detection time when one-shot detection is selected for remote switching. (This setting item will be displayed, but the setting made is ineffective.)</p> <p data-bbox="288 416 1426 483">Sets the detection time when continuous detection is selected for remote switching. (This setting item will be displayed, but the setting made is ineffective.)</p> <p data-bbox="288 519 387 548">Method</p> <ol data-bbox="308 553 999 620" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 631 1401 777"> <thead> <tr> <th data-bbox="336 631 639 676">Display</th> <th data-bbox="639 631 1401 676">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 676 639 721">Time (One)</td> <td data-bbox="639 676 1401 721">Sets the one-shot detection time for remote switching.</td> </tr> <tr> <td data-bbox="336 721 639 777">Time (Cont)</td> <td data-bbox="639 721 1401 777">Sets the continuous detection time for remote switching.</td> </tr> </tbody> </table> <p data-bbox="288 815 1010 844">Setting the one-shot detection time for remote switching</p> <ol data-bbox="308 848 932 878" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 893 1401 990"> <thead> <tr> <th data-bbox="336 893 975 938">Description</th> <th data-bbox="975 893 1187 938">Setting range</th> <th data-bbox="1187 893 1401 938">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 938 975 990">One-shot detection time for remote switching</td> <td data-bbox="975 938 1187 990">0 to 255</td> <td data-bbox="1187 938 1401 990">7</td> </tr> </tbody> </table> <ol data-bbox="308 999 767 1028" style="list-style-type: none"> 2. Press the start key. The value is set. <p data-bbox="288 1066 1042 1095">Setting the continuous detection time for remote switching</p> <ol data-bbox="308 1099 932 1128" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 1144 1401 1240"> <thead> <tr> <th data-bbox="336 1144 975 1189">Description</th> <th data-bbox="975 1144 1187 1189">Setting range</th> <th data-bbox="1187 1144 1401 1189">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1189 975 1240">Continuous detection time for remote switching</td> <td data-bbox="975 1189 1187 1240">0 to 255</td> <td data-bbox="1187 1189 1401 1240">80</td> </tr> </tbody> </table> <ol data-bbox="308 1249 767 1279" style="list-style-type: none"> 2. Press the start key. The value is set. <p data-bbox="288 1317 440 1346">Completion</p> <p data-bbox="288 1350 1254 1379">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Time (One)	Sets the one-shot detection time for remote switching.	Time (Cont)	Sets the continuous detection time for remote switching.	Description	Setting range	Initial setting	One-shot detection time for remote switching	0 to 255	7	Description	Setting range	Initial setting	Continuous detection time for remote switching	0 to 255	80
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Continuous detection time for remote switching	0 to 255	80																	

Item No.	Description																														
U641	<p data-bbox="288 241 673 271">Setting communication time 2</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 799 374">Sets the time-out time for fax transmission.</p> <p data-bbox="288 380 400 409">Purpose</p> <p data-bbox="288 414 1222 443">To improve transmission performance for international communications mainly.</p> <p data-bbox="288 483 387 512">Method</p> <ol data-bbox="308 517 999 584" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 595 1399 1028"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1399 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">T0 Time Out</td> <td data-bbox="639 640 1399 685">Sets the T0 time-out time.</td> </tr> <tr> <td data-bbox="336 685 639 730">T1 Time Out</td> <td data-bbox="639 685 1399 730">Sets the T1 time-out time.</td> </tr> <tr> <td data-bbox="336 730 639 775">T2 Time Out</td> <td data-bbox="639 730 1399 775">Sets the T2 time-out time.</td> </tr> <tr> <td data-bbox="336 775 639 819">Ta Time Out</td> <td data-bbox="639 775 1399 819">Sets the Ta time-out time.</td> </tr> <tr> <td data-bbox="336 819 639 864">Tb1 Time Out</td> <td data-bbox="639 819 1399 864">Sets the Tb1 time-out time.</td> </tr> <tr> <td data-bbox="336 864 639 909">Tb2 Time Out</td> <td data-bbox="639 864 1399 909">Sets the Tb2 time-out time.</td> </tr> <tr> <td data-bbox="336 909 639 954">Tc Time Out</td> <td data-bbox="639 909 1399 954">Sets the Tc time-out time.</td> </tr> <tr> <td data-bbox="336 954 639 1028">Td Time Out</td> <td data-bbox="639 954 1399 1028">Sets the Td time-out time.</td> </tr> </tbody> </table> <p data-bbox="288 1070 644 1099">Setting the T0 time-out time</p> <p data-bbox="288 1104 1230 1133">Sets the time before detecting a CED or DIS signal after a dialing signal is sent.</p> <p data-bbox="288 1137 1388 1205">Depending on the quality of the exchange, or when the auto select function is selected at the destination unit, a line can be disconnected. Change the setting to prevent this problem.</p> <ol data-bbox="308 1209 932 1238" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 1249 1399 1346"> <thead> <tr> <th data-bbox="336 1249 975 1294">Description</th> <th data-bbox="975 1249 1187 1294">Setting range</th> <th data-bbox="1187 1249 1399 1294">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1294 975 1346">T0 time-out time</td> <td data-bbox="975 1294 1187 1346">30 to 90 s</td> <td data-bbox="1187 1294 1399 1346">56</td> </tr> </tbody> </table> <ol data-bbox="308 1355 767 1384" style="list-style-type: none"> 2. Press the start key. The value is set. <p data-bbox="288 1424 644 1453">Setting the T1 time-out time</p> <p data-bbox="288 1458 1425 1525">Sets the time before receiving the correct signal after call reception. No change is necessary for this maintenance item.</p> <ol data-bbox="308 1529 932 1559" style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 1570 1399 1666"> <thead> <tr> <th data-bbox="336 1570 975 1615">Description</th> <th data-bbox="975 1570 1187 1615">Setting range</th> <th data-bbox="1187 1570 1399 1615">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1615 975 1666">T1 time-out time</td> <td data-bbox="975 1615 1187 1666">30 to 90 s</td> <td data-bbox="1187 1615 1399 1666">36</td> </tr> </tbody> </table> <ol data-bbox="308 1675 767 1704" style="list-style-type: none"> 2. Press the start key. The value is set. 	Display	Description	T0 Time Out	Sets the T0 time-out time.	T1 Time Out	Sets the T1 time-out time.	T2 Time Out	Sets the T2 time-out time.	Ta Time Out	Sets the Ta time-out time.	Tb1 Time Out	Sets the Tb1 time-out time.	Tb2 Time Out	Sets the Tb2 time-out time.	Tc Time Out	Sets the Tc time-out time.	Td Time Out	Sets the Td time-out time.	Description	Setting range	Initial setting	T0 time-out time	30 to 90 s	56	Description	Setting range	Initial setting	T1 time-out time	30 to 90 s	36
Display	Description																														
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T0 time-out time	30 to 90 s	56																													
Description	Setting range	Initial setting																													
T1 time-out time	30 to 90 s	36																													

Item No.	Description																						
U641	<p>Setting the T2 time-out time</p> <p>The T2 time-out time decides the following.</p> <p>From CFR signal output to image data reception</p> <p>From image data reception to the next signal reception</p> <p>In ECM, from RNR signal detection to the next signal reception</p> <ol style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 459 1401 589"> <thead> <tr> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>T2 time-out time</td> <td>1 to 255</td> <td>69</td> <td>100 ms</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 2. Press the start key. The value is set. <p>Setting the Ta time-out time</p> <p>In the fax/telephone auto select mode, sets the time to continue ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-16). A fax signal is received within the Ta set time, or the fax mode is selected automatically when the time elapses. In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.</p> <ol style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 920 1401 1014"> <thead> <tr> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Ta time-out time</td> <td>1 to 255</td> <td>30</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 2. Press the start key. The value is set. <div data-bbox="518 1086 1220 1456" style="text-align: center;"> </div> <p>Figure 1-3-16 Ta/Tb1/Tb2 time-out time</p> <p>Setting the Tb1 time-out time</p> <p>In the fax/telephone auto select mode, sets the time to start sending the ring back tone after receiving a call as a fax machine (see figure 1-3-16). In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.</p> <ol style="list-style-type: none"> 1. Change the setting using the cursor left/right keys. <table border="1" data-bbox="336 1742 1401 1872"> <thead> <tr> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Tb1 time-out time</td> <td>1 to 255</td> <td>20</td> <td>100 ms</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 2. Press the start key. The value is set. 	Description	Setting range	Initial setting	Change in value per step	T2 time-out time	1 to 255	69	100 ms	Description	Setting range	Initial setting	Ta time-out time	1 to 255	30	Description	Setting range	Initial setting	Change in value per step	Tb1 time-out time	1 to 255	20	100 ms
Description	Setting range	Initial setting	Change in value per step																				
T2 time-out time	1 to 255	69	100 ms																				
Description	Setting range	Initial setting																					
Ta time-out time	1 to 255	30																					
Description	Setting range	Initial setting	Change in value per step																				
Tb1 time-out time	1 to 255	20	100 ms																				

Item No.	Description																				
U641	<p data-bbox="290 241 662 273">Setting the Tb2 time-out time</p> <p data-bbox="290 277 1428 409">In the fax/telephone auto select mode, sets the time to start ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-16). In the fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.</p> <p data-bbox="308 414 930 445">1. Change the setting using the cursor left/right keys.</p> <table border="1" data-bbox="336 456 1399 589"> <thead> <tr> <th data-bbox="336 456 807 539">Description</th> <th data-bbox="807 456 991 539">Setting range</th> <th data-bbox="991 456 1171 539">Initial setting</th> <th data-bbox="1171 456 1399 539">Change in value per step</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 539 807 589">Tb2 time-out time</td> <td data-bbox="807 539 991 589">1 to 255</td> <td data-bbox="991 539 1171 589">80</td> <td data-bbox="1171 539 1399 589">100 ms</td> </tr> </tbody> </table> <p data-bbox="308 598 766 629">2. Press the start key. The value is set.</p> <p data-bbox="290 665 643 696">Setting the Tc time-out time</p> <p data-bbox="290 701 1428 799">In the TAD mode, set the time to check if there are any triggers for shifting to fax reception after a connected telephone receives a call. Only the telephone function is available if shifting is not made within the set Tc time.</p> <p data-bbox="290 804 1412 871">In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.</p> <p data-bbox="308 875 930 907">1. Change the setting using the cursor left/right keys.</p> <table border="1" data-bbox="336 918 1399 1014"> <thead> <tr> <th data-bbox="336 918 975 965">Description</th> <th data-bbox="975 918 1187 965">Setting range</th> <th data-bbox="1187 918 1399 965">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 965 975 1014">Tc time-out time</td> <td data-bbox="975 965 1187 1014">1 to 255</td> <td data-bbox="1187 965 1399 1014">60</td> </tr> </tbody> </table> <p data-bbox="308 1023 766 1055">2. Press the start key. The value is set.</p> <p data-bbox="290 1090 647 1122">Setting the Td time-out time</p> <p data-bbox="290 1126 1428 1258">Sets the length of the time required to determine silent status (fax), one of the triggers for Tc time check. In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. Be sure not to set it too short; otherwise, the mode may be shifted to fax while the unit is being used as a telephone.</p> <p data-bbox="308 1263 930 1294">1. Change the setting using the cursor left/right keys.</p> <table border="1" data-bbox="336 1305 1399 1402"> <thead> <tr> <th data-bbox="336 1305 868 1352">Description</th> <th data-bbox="868 1305 1096 1352">Setting range</th> <th data-bbox="1096 1305 1399 1352">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1352 868 1402">Td time-out time</td> <td data-bbox="868 1352 1096 1402">1 to 255</td> <td data-bbox="1096 1352 1399 1402">9 (120 V)/6 (220-240 V)</td> </tr> </tbody> </table> <p data-bbox="308 1411 766 1442">2. Press the start key. The value is set.</p> <p data-bbox="290 1478 440 1509">Completion</p> <p data-bbox="290 1514 1254 1545">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Change in value per step	Tb2 time-out time	1 to 255	80	100 ms	Description	Setting range	Initial setting	Tc time-out time	1 to 255	60	Description	Setting range	Initial setting	Td time-out time	1 to 255	9 (120 V)/6 (220-240 V)
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Description	Setting range	Initial setting																			
Td time-out time	1 to 255	9 (120 V)/6 (220-240 V)																			

Item No.	Description								
U650	<p data-bbox="288 241 507 275">Setting modem 1</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1015 374">Sets the G3 cable equalizer. Sets the modem detection level.</p> <p data-bbox="288 383 400 412">Purpose</p> <p data-bbox="288 416 1417 479">Perform the following adjustment to make the equalizer compatible with the line characteristics. To improve the transmission performance when a low quality line is used.</p> <p data-bbox="288 517 387 546">Method</p> <ol data-bbox="304 555 1000 618" style="list-style-type: none"> <li data-bbox="304 555 564 584">1. Press the start key. <li data-bbox="304 589 1000 618">2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 631 1401 824"> <thead> <tr> <th data-bbox="336 631 639 676">Display</th> <th data-bbox="639 631 1401 676">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 676 639 721">Reg G3 TX Eqr</td> <td data-bbox="639 676 1401 721">Sets the G3 transmission cable equalizer.</td> </tr> <tr> <td data-bbox="336 721 639 766">Reg G3 RX Eqr</td> <td data-bbox="639 721 1401 766">Sets the G3 reception cable equalizer.</td> </tr> <tr> <td data-bbox="336 766 639 810">RX Mdm Level</td> <td data-bbox="639 766 1401 810">Sets the modem detection level.</td> </tr> </tbody> </table> <p data-bbox="288 869 847 898">Setting the G3 transmission cable equalizer</p> <ol data-bbox="304 902 1126 1003" style="list-style-type: none"> <li data-bbox="304 902 1126 965">1. Select [0dB], [4dB], [8dB] or [12dB] using the cursor up/down keys. * : Initial setting: 0dB <li data-bbox="304 969 783 999">2. Press the start key. The setting is set. <p data-bbox="288 1041 802 1070">Setting the G3 reception cable equalizer</p> <ol data-bbox="304 1075 1126 1176" style="list-style-type: none"> <li data-bbox="304 1075 1126 1137">1. Select [0dB], [4dB], [8dB] or [12dB] using the cursor up/down keys. * : Initial setting: 0dB <li data-bbox="304 1142 783 1171">2. Press the start key. The setting is set. <p data-bbox="288 1214 727 1243">Setting the modem detection level</p> <ol data-bbox="304 1247 1297 1348" style="list-style-type: none"> <li data-bbox="304 1247 1297 1310">1. Select [-33dBm], [-38dBm], [-43dBm] or [-48dBm] using the cursor up/down keys. * : Initial setting: -43dBm <li data-bbox="304 1314 783 1344">2. Press the start key. The setting is set. <p data-bbox="288 1386 440 1415">Completion</p> <p data-bbox="288 1420 1254 1449">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Reg G3 TX Eqr	Sets the G3 transmission cable equalizer.	Reg G3 RX Eqr	Sets the G3 reception cable equalizer.	RX Mdm Level	Sets the modem detection level.
Display	Description								
Reg G3 TX Eqr	Sets the G3 transmission cable equalizer.								
Reg G3 RX Eqr	Sets the G3 reception cable equalizer.								
RX Mdm Level	Sets the modem detection level.								

Item No.	Description																
U651	<p data-bbox="290 241 507 273">Setting modem 2</p> <p data-bbox="290 309 440 340">Description</p> <p data-bbox="290 344 638 376">Sets the modem output level.</p> <p data-bbox="290 380 995 412">Sets the DTMF output level of a push-button dial telephone.</p> <p data-bbox="290 416 399 448">Purpose</p> <p data-bbox="290 452 1244 483">Used if problems occur when sending a signal with a push-button dial telephone.</p> <p data-bbox="290 519 383 551">Setting</p> <ol data-bbox="306 555 1126 654" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. 3. Change the setting using the cursor left/right keys or numeric keys. <table border="1" data-bbox="338 667 1385 963"> <thead> <tr> <th data-bbox="338 667 564 712">Display</th> <th data-bbox="564 667 960 712">Description</th> <th data-bbox="960 667 1158 712">Setting range</th> <th data-bbox="1158 667 1385 712">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 712 564 801">Sgl LV Mdm</td> <td data-bbox="564 712 960 801">Modem output level</td> <td data-bbox="960 712 1158 801">1 to 15</td> <td data-bbox="1158 712 1385 801">9 (120 V) 10 (220-240 V)</td> </tr> <tr> <td data-bbox="338 801 564 891">DTMF LV(C)</td> <td data-bbox="564 801 960 891">DTMF output level (main value)</td> <td data-bbox="960 801 1158 891">0 to 15.0</td> <td data-bbox="1158 801 1385 891">5 (120 V) 10.5 (220-240 V)</td> </tr> <tr> <td data-bbox="338 891 564 963">DTMF LV(D)</td> <td data-bbox="564 891 960 963">DTMF output level (level difference)</td> <td data-bbox="960 891 1158 963">0 to 5.5</td> <td data-bbox="1158 891 1385 963">2 (120 V) 2.5 (220-240 V)</td> </tr> </tbody> </table> <ol data-bbox="306 976 782 1008" style="list-style-type: none"> 4. Press the start key. The setting is set. <p data-bbox="290 1043 440 1075">Completion</p> <p data-bbox="290 1079 1254 1111">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Sgl LV Mdm	Modem output level	1 to 15	9 (120 V) 10 (220-240 V)	DTMF LV(C)	DTMF output level (main value)	0 to 15.0	5 (120 V) 10.5 (220-240 V)	DTMF LV(D)	DTMF output level (level difference)	0 to 5.5	2 (120 V) 2.5 (220-240 V)
Display	Description	Setting range	Initial setting														
Sgl LV Mdm	Modem output level	1 to 15	9 (120 V) 10 (220-240 V)														
DTMF LV(C)	DTMF output level (main value)	0 to 15.0	5 (120 V) 10.5 (220-240 V)														
DTMF LV(D)	DTMF output level (level difference)	0 to 5.5	2 (120 V) 2.5 (220-240 V)														

Item No.	Description																								
U660	<p data-bbox="288 241 496 271">Setting the NCU</p> <p data-bbox="288 311 440 340">Description Makes setting regarding the network control unit (NCU).</p> <p data-bbox="288 380 400 409">Purpose To be executed as required.</p> <p data-bbox="288 486 387 515">Method</p> <ol data-bbox="308 519 999 584" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be set using the cursor up/down keys. <table border="1" data-bbox="336 595 1399 884"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1399 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Exchange</td> <td data-bbox="639 640 1399 685">Sets the connection to PBX/PSTN.</td> </tr> <tr> <td data-bbox="336 685 639 730">Dial Tone</td> <td data-bbox="639 685 1399 730">Sets PSTN dial tone detection.</td> </tr> <tr> <td data-bbox="336 730 639 775">Busy Tone</td> <td data-bbox="639 730 1399 775">Sets busy tone detection.</td> </tr> <tr> <td data-bbox="336 775 639 819">PBX Setting</td> <td data-bbox="639 775 1399 819">Setting for a PBX.</td> </tr> <tr> <td data-bbox="336 819 639 884">DC Loop</td> <td data-bbox="639 819 1399 884">Sets the loop current detection before dialing.</td> </tr> </tbody> </table> <p data-bbox="288 929 754 958">Setting the connection to PBX/PSTN</p> <p data-bbox="288 963 1331 992">Selects if a fax is to be connected to either a PBX or public switched telephone network.</p> <ol data-bbox="308 996 919 1025" style="list-style-type: none"> 1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1039 1399 1184"> <thead> <tr> <th data-bbox="336 1039 639 1084">Display</th> <th data-bbox="639 1039 1399 1084">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1084 639 1128">PSTN</td> <td data-bbox="639 1084 1399 1128">Connected to the public switched telephone network.</td> </tr> <tr> <td data-bbox="336 1128 639 1184">PBX</td> <td data-bbox="639 1128 1399 1184">Connected to a PBX.</td> </tr> </tbody> </table> <p data-bbox="336 1196 611 1225">* : Initial setting: PSTN</p> <ol data-bbox="308 1229 782 1258" style="list-style-type: none"> 2. Press the start key. The setting is set. <p data-bbox="288 1299 705 1328">Setting PSTN dial tone detection</p> <p data-bbox="288 1332 1426 1397">Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to a public switched telephone network.</p> <ol data-bbox="308 1402 919 1431" style="list-style-type: none"> 1. Select the setting using the cursor up/down keys. <table border="1" data-bbox="336 1444 1399 1590"> <thead> <tr> <th data-bbox="336 1444 639 1489">Display</th> <th data-bbox="639 1444 1399 1489">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1489 639 1534">On</td> <td data-bbox="639 1489 1399 1534">Detects the dial tone.</td> </tr> <tr> <td data-bbox="336 1534 639 1590">Off</td> <td data-bbox="639 1534 1399 1590">Does not detect the dial tone.</td> </tr> </tbody> </table> <p data-bbox="336 1601 576 1630">* : Initial setting: On</p> <ol data-bbox="308 1635 782 1664" style="list-style-type: none"> 2. Press the start key. The setting is set. 	Display	Description	Exchange	Sets the connection to PBX/PSTN.	Dial Tone	Sets PSTN dial tone detection.	Busy Tone	Sets busy tone detection.	PBX Setting	Setting for a PBX.	DC Loop	Sets the loop current detection before dialing.	Display	Description	PSTN	Connected to the public switched telephone network.	PBX	Connected to a PBX.	Display	Description	On	Detects the dial tone.	Off	Does not detect the dial tone.
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Item No.	Description																		
U660	<p>Setting busy tone detection When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected, or the busy tone is not detected and the line remains connected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be prevented. However, the line is not disconnected within the T0 time-out time even if the destination line is busy.</p> <ol style="list-style-type: none"> Select the setting using the cursor up/down keys. <table border="1" data-bbox="338 495 1401 636"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>On</td> <td>Detects busy tone.</td> </tr> <tr> <td>Off</td> <td>Does not detect busy tone.</td> </tr> </tbody> </table> <p>* : Initial setting: On</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Setting for a PBX Selects the mode to connect an outside call when connected to a PBX. According to the type of the PBX connected, select the mode to connect an outside call.</p> <ol style="list-style-type: none"> Select the setting using the cursor up/down keys. <table border="1" data-bbox="338 898 1401 1039"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Flash</td> <td>Flashing mode</td> </tr> <tr> <td>Loop</td> <td>Code number mode</td> </tr> </tbody> </table> <p>* : Initial setting: Loop</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Setting the loop current detection before dialing Sets if the loop current detection is performed before dialing.</p> <ol style="list-style-type: none"> Select the setting using the cursor up/down keys. <table border="1" data-bbox="338 1267 1401 1408"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>On</td> <td>Performs loop current detection before dialing.</td> </tr> <tr> <td>Off</td> <td>Does not perform loop current detection before dialing.</td> </tr> </tbody> </table> <p>* : Initial setting: On</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	On	Detects busy tone.	Off	Does not detect busy tone.	Display	Description	Flash	Flashing mode	Loop	Code number mode	Display	Description	On	Performs loop current detection before dialing.	Off	Does not perform loop current detection before dialing.
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U670	<p data-bbox="290 241 491 273">Outputting lists</p> <p data-bbox="290 309 440 340">Description</p> <p data-bbox="290 344 1385 443">Outputs a list of data regarding fax transmissions. Printing a list is disabled either when a job is remaining in the buffer or when [Pause All Print Jobs] is pressed to halt printing.</p> <p data-bbox="290 452 399 483">Purpose</p> <p data-bbox="290 488 1187 519">To check conditions of use, settings and transmission procedures of the fax.</p> <p data-bbox="290 555 389 586">Method</p> <ol data-bbox="306 591 1037 689" style="list-style-type: none"> 1. Press the start key. 2. Select the item to be output using the cursor up/down keys. 3. Press the start key. The selected list is output. <table border="1" data-bbox="338 698 1398 1281"> <thead> <tr> <th data-bbox="338 698 641 743">Display</th> <th data-bbox="641 698 1398 743">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 748 641 824">Sys Conf Report</td> <td data-bbox="641 748 1398 824">Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information.</td> </tr> <tr> <td data-bbox="338 828 641 904">Action List</td> <td data-bbox="641 828 1398 904">Outputs a list of error history, transmission line details and other information.</td> </tr> <tr> <td data-bbox="338 909 641 985">Self Sts Report</td> <td data-bbox="641 909 1398 985">Outputs a list of settings in maintenance mode (own-status report) regarding fax transmission only.</td> </tr> <tr> <td data-bbox="338 990 641 1034">Protocol List</td> <td data-bbox="641 990 1398 1034">Outputs a list of transmission procedures.</td> </tr> <tr> <td data-bbox="338 1039 641 1084">Error List</td> <td data-bbox="641 1039 1398 1084">Outputs a list of error.</td> </tr> <tr> <td data-bbox="338 1088 641 1133">Addr List(No.)</td> <td data-bbox="641 1088 1398 1133">Outputs address book in order IDs were added</td> </tr> <tr> <td data-bbox="338 1137 641 1182">Addr List(Idx)</td> <td data-bbox="641 1137 1398 1182">Outputs address book in order of names</td> </tr> <tr> <td data-bbox="338 1187 641 1232">One-touch List</td> <td data-bbox="641 1187 1398 1232">Outputs a list of one-touch.</td> </tr> <tr> <td data-bbox="338 1236 641 1281">Group List</td> <td data-bbox="641 1236 1398 1281">Outputs a list of group.</td> </tr> </tbody> </table> <p data-bbox="290 1330 440 1361">Completion</p> <p data-bbox="290 1366 1254 1397">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Sys Conf Report	Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information.	Action List	Outputs a list of error history, transmission line details and other information.	Self Sts Report	Outputs a list of settings in maintenance mode (own-status report) regarding fax transmission only.	Protocol List	Outputs a list of transmission procedures.	Error List	Outputs a list of error.	Addr List(No.)	Outputs address book in order IDs were added	Addr List(Idx)	Outputs address book in order of names	One-touch List	Outputs a list of one-touch.	Group List	Outputs a list of group.
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Item No.	Description																		
U695	<p data-bbox="288 241 596 271">FAX function customize</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1428 409">Sets fax batch transmission ON/OFF. Also changes the print size priority at the time of small size reception.</p> <p data-bbox="288 414 400 443">Purpose</p> <p data-bbox="288 448 624 477">To be executed as required.</p> <p data-bbox="288 517 384 546">Setting</p> <p data-bbox="308 551 919 580">1. Select the setting using the cursor up/down keys.</p> <table border="1" data-bbox="336 595 1399 741"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1399 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">FAX Bulk TX</td> <td data-bbox="639 640 1399 685">fax batch transmission On/Off</td> </tr> <tr> <td data-bbox="336 685 639 741">A5 Pt Pri Chg</td> <td data-bbox="639 685 1399 741">Change of print size priority at the time of small size reception</td> </tr> </tbody> </table> <p data-bbox="288 786 576 815">Setting: [FAX Bulk TX]</p> <p data-bbox="308 819 898 848">1. Select On or Off using the cursor left/right keys.</p> <table border="1" data-bbox="336 864 1399 1010"> <thead> <tr> <th data-bbox="336 864 639 909">Display</th> <th data-bbox="639 864 1399 909">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 909 639 954">On</td> <td data-bbox="639 909 1399 954">Fax batch transmission is enabled.</td> </tr> <tr> <td data-bbox="336 954 639 1010">Off</td> <td data-bbox="639 954 1399 1010">Fax batch transmission is disabled.</td> </tr> </tbody> </table> <p data-bbox="336 1016 576 1046">* : Initial setting: On</p> <p data-bbox="308 1050 783 1079">2. Press the start key. The setting is set.</p> <p data-bbox="288 1122 587 1151">Setting: [A5 Pt Pri Chg]</p> <p data-bbox="308 1155 922 1184">1. Select ON or OFF using the cursor left/right keys.</p> <table border="1" data-bbox="336 1200 1399 1346"> <thead> <tr> <th data-bbox="336 1200 639 1245">Display</th> <th data-bbox="639 1200 1399 1245">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1245 639 1290">On</td> <td data-bbox="639 1245 1399 1290">At the time of A5 size reception: A5→B5→A4</td> </tr> <tr> <td data-bbox="336 1290 639 1346">Off</td> <td data-bbox="639 1290 1399 1346">At the time of A5 size reception: A5→A4→B5</td> </tr> </tbody> </table> <p data-bbox="336 1352 576 1382">* : Initial setting: Off</p> <p data-bbox="308 1386 783 1415">2. Press the start key. The setting is set.</p> <p data-bbox="288 1458 440 1487">Completion</p> <p data-bbox="288 1491 1254 1520">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	FAX Bulk TX	fax batch transmission On/Off	A5 Pt Pri Chg	Change of print size priority at the time of small size reception	Display	Description	On	Fax batch transmission is enabled.	Off	Fax batch transmission is disabled.	Display	Description	On	At the time of A5 size reception: A5→B5→A4	Off	At the time of A5 size reception: A5→A4→B5
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U699	<p data-bbox="288 244 667 275">Setting the software switches</p> <p data-bbox="288 315 440 347">Description</p> <p data-bbox="288 349 1046 380">Sets the software switches on the FAX control PWB individually.</p> <p data-bbox="288 383 400 414">Purpose</p> <p data-bbox="288 416 1366 517">To change the setting when a problem such as split output of received originals occurs. Since the communication performance is largely affected, normally this setting need not be changed.</p> <p data-bbox="288 557 389 589">Method</p> <ol data-bbox="304 591 1390 792" style="list-style-type: none"> 1. Press the start key. 2. Press [SW No.]. 3. Enter the desired software switch number (3 digits) using the numeric keys and press the enter key. 4. Use numeric keys 7 to 0 to switch each bit between 0 and 1. 5. Press the start key to set the value. <p data-bbox="288 833 440 864">Completion</p> <p data-bbox="288 866 1254 898">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p> <p data-bbox="288 938 1102 969">List of Software Switches of Which the Setting Can Be Changed</p> <p data-bbox="288 1010 759 1041"><Communication control procedure></p> <table border="1" data-bbox="336 1048 1401 2007"> <thead> <tr> <th data-bbox="344 1059 427 1090">No.</th> <th data-bbox="427 1059 595 1090">Bit</th> <th data-bbox="595 1059 1401 1090">Item</th> </tr> </thead> <tbody> <tr> <td data-bbox="344 1099 427 1189" rowspan="2">36</td> <td data-bbox="427 1099 595 1144">7654</td> <td data-bbox="595 1099 1401 1144">Coding format in transmission</td> </tr> <tr> <td data-bbox="427 1144 595 1189">3210</td> <td data-bbox="595 1144 1401 1189">Coding format in reception</td> </tr> <tr> <td data-bbox="344 1198 427 1480" rowspan="6">37</td> <td data-bbox="427 1198 595 1243">5</td> <td data-bbox="595 1198 1401 1243">33600 bps/V34</td> </tr> <tr> <td data-bbox="427 1243 595 1288">4</td> <td data-bbox="595 1243 1401 1288">31200 bps/V34</td> </tr> <tr> <td data-bbox="427 1288 595 1332">3</td> <td data-bbox="595 1288 1401 1332">28800 bps/V34</td> </tr> <tr> <td data-bbox="427 1332 595 1377">2</td> <td data-bbox="595 1332 1401 1377">26400 bps/V34</td> </tr> <tr> <td data-bbox="427 1377 595 1422">1</td> <td data-bbox="595 1377 1401 1422">24000 bps/V34</td> </tr> <tr> <td data-bbox="427 1422 595 1467">0</td> <td data-bbox="595 1422 1401 1467">21600 bps/V34</td> </tr> <tr> <td data-bbox="344 1489 427 1861" rowspan="8">38</td> <td data-bbox="427 1489 595 1534">7</td> <td data-bbox="595 1489 1401 1534">19200 bps/V34</td> </tr> <tr> <td data-bbox="427 1534 595 1579">6</td> <td data-bbox="595 1534 1401 1579">16800 bps/V34</td> </tr> <tr> <td data-bbox="427 1579 595 1624">5</td> <td data-bbox="595 1579 1401 1624">14400 bps/V34</td> </tr> <tr> <td data-bbox="427 1624 595 1668">4</td> <td data-bbox="595 1624 1401 1668">12000 bps/V34</td> </tr> <tr> <td data-bbox="427 1668 595 1713">3</td> <td data-bbox="595 1668 1401 1713">9600 bps/V34</td> </tr> <tr> <td data-bbox="427 1713 595 1758">2</td> <td data-bbox="595 1713 1401 1758">7200 bps/V34</td> </tr> <tr> <td data-bbox="427 1758 595 1803">1</td> <td data-bbox="595 1758 1401 1803">4800 bps/V34</td> </tr> <tr> <td data-bbox="427 1803 595 1848">0</td> <td data-bbox="595 1803 1401 1848">2400 bps/V34</td> </tr> <tr> <td data-bbox="344 1870 427 1915">41</td> <td data-bbox="427 1870 595 1915">3</td> <td data-bbox="595 1870 1401 1915">FSK detection in V.8</td> </tr> <tr> <td data-bbox="344 1915 427 2007" rowspan="2">42</td> <td data-bbox="427 1915 595 1960">4</td> <td data-bbox="595 1915 1401 1960">4800 bps when low-speed setting is active</td> </tr> <tr> <td data-bbox="427 1960 595 2007">2</td> <td data-bbox="595 1960 1401 2007">FIF length in transmission of more than 4 times of DIS/DTC signal</td> </tr> </tbody> </table>	No.	Bit	Item	36	7654	Coding format in transmission	3210	Coding format in reception	37	5	33600 bps/V34	4	31200 bps/V34	3	28800 bps/V34	2	26400 bps/V34	1	24000 bps/V34	0	21600 bps/V34	38	7	19200 bps/V34	6	16800 bps/V34	5	14400 bps/V34	4	12000 bps/V34	3	9600 bps/V34	2	7200 bps/V34	1	4800 bps/V34	0	2400 bps/V34	41	3	FSK detection in V.8	42	4	4800 bps when low-speed setting is active	2	FIF length in transmission of more than 4 times of DIS/DTC signal
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Item No.	Description		
U699	<Communication time setting>		
	No.	Bit	Item
	53	76543210	T3 timeout setting
	54	76543210	T4 timeout setting (automatic equipment)
	55	76543210	T5 timeout setting
	60	76543210	Time before transmission of CNG (1100 Hz) signal
	63	76543210	T0 timeout setting (manual equipment)
	64	7	Phase C timeout in ECM reception
	66	76543210	Timeout 1 in countermeasures against echo
	68	76543210	Timeout for FSK detection start in V.8
	<Modem setting>		
	No.	Bit	Item
	89	76543	RX gain adjust
	<NCU setting>		
	No.	Bit	Item
	121	7654	Dial tone/busy tone detection pattern
	122	7654	Busy tone detection pattern
		1	Busy tone detection in automatic FAX/TEL switching
	125	76543210	Access code registration for connection to PSTN
	126	7654	FAX/TEL automatic switching ringback tone ON/OFF cycle
	<Calling time setting>		
	No.	Bit	Item
	133	76543210	DTMF signal transmission time
	134	76543210	DTMF signal pause time
	141	76543210	Ringer detection cycle (minimum)
	142	76543210	Ringer detection cycle (maximum)
	143	76543210	Ringer ON time detection
	144	76543210	Ringer OFF time detection
145	76543210	Ringer OFF non-detection time	
147	76543210	Dial tone detection time (continuous tone)	
148	76543210	Allowable dial tone interruption time	
149	76543210	Time for transmitting selection signal after closing the DC circuit	
151	76543210	Ringer frequency detection invalid time	

Item No.	Description
U910	<p data-bbox="288 241 702 275">Clearing the print coverage data</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 351 1410 416">Clears the accumulated data for the print coverage per A4 size paper and its period of time (as shown on the service status report).</p> <p data-bbox="288 418 400 448">Purpose</p> <p data-bbox="288 454 1126 483">To clear data as required at times such as during maintenance service.</p> <p data-bbox="288 519 387 548">Method</p> <ol data-bbox="308 557 983 656" style="list-style-type: none"><li data-bbox="308 557 564 586">1. Press the start key.<li data-bbox="308 593 906 622">2. Select [Execute] using the cursor up/down keys.<li data-bbox="308 629 983 656">3. Press the start key. The print coverage data is cleared. <p data-bbox="288 694 440 723">Completion</p> <p data-bbox="288 730 1254 759">Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>

Item No.	Description																														
U917	<p data-bbox="288 241 746 275">Setting backup data reading/writing</p> <p data-bbox="288 311 440 340">Description</p> <p data-bbox="288 344 1423 409">Retrieves the backup data to a USB memory from the machine; or writes the data from the USB memory to the machine.</p> <p data-bbox="288 414 400 443">Purpose</p> <p data-bbox="288 448 866 477">To store and write data when replacing the HDD.</p> <p data-bbox="288 517 387 546">Method</p> <ol data-bbox="304 553 1423 824" style="list-style-type: none"> Press the power key on the operation panel, and after verifying the power indicator has gone off, switch off the main power switch. Insert USB memory in USB memory slot. Turn the main power switch on. Wait for 10 seconds to allow the machine to recognize the USB memory. Enter the maintenance item. Press the start key. Select [Export] or [Import] using the cursor up/down keys and press the start key. <table border="1" data-bbox="336 837 1399 981"> <thead> <tr> <th data-bbox="336 837 639 882">Display</th> <th data-bbox="639 837 1399 882">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 882 639 927">Import</td> <td data-bbox="639 882 1399 927">Writing data from the USB memory to the machine</td> </tr> <tr> <td data-bbox="336 927 639 981">Export</td> <td data-bbox="639 927 1399 981">Retrieving from the machine to a USB memory</td> </tr> </tbody> </table> <ol data-bbox="304 994 890 1023" style="list-style-type: none"> Select the item using the cursor up/down keys. <table border="1" data-bbox="336 1037 1399 1525"> <thead> <tr> <th data-bbox="336 1037 549 1081">Display</th> <th data-bbox="549 1037 927 1081">Description</th> <th data-bbox="927 1037 1399 1081">Depending data</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1081 549 1126">Address Book</td> <td data-bbox="549 1081 927 1126">Address book</td> <td data-bbox="927 1081 1399 1126">-</td> </tr> <tr> <td data-bbox="336 1126 549 1171">Job Account</td> <td data-bbox="549 1126 927 1171">Job accounting</td> <td data-bbox="927 1126 1399 1171">-</td> </tr> <tr> <td data-bbox="336 1171 549 1216">One Touch</td> <td data-bbox="549 1171 927 1216">Information on one-touch key</td> <td data-bbox="927 1171 1399 1216">Address book</td> </tr> <tr> <td data-bbox="336 1216 549 1261">User</td> <td data-bbox="549 1216 927 1261">User managements</td> <td data-bbox="927 1216 1399 1261">Job accounting</td> </tr> <tr> <td data-bbox="336 1261 549 1305">Program</td> <td data-bbox="549 1261 927 1305">Program information</td> <td data-bbox="927 1261 1399 1305">Job accountings and user managements</td> </tr> <tr> <td data-bbox="336 1305 549 1350">Document Box</td> <td data-bbox="549 1305 927 1350">Document box information</td> <td data-bbox="927 1305 1399 1350">Job accountings and user managements</td> </tr> <tr> <td data-bbox="336 1350 549 1525">Fax Forward</td> <td data-bbox="549 1350 927 1525">FAX transfer information</td> <td data-bbox="927 1350 1399 1525">Job accountings, user managements and document box information</td> </tr> </tbody> </table> <p data-bbox="336 1538 1353 1603">* : Since data are dependent with each other, data other than those assigned are also retrieved or written in.</p> <ol data-bbox="304 1608 1361 1809" style="list-style-type: none"> Select [On] using the cursor left/right keys. Press the start key. Starts reading or writing. The progress of selected item is displayed in %. When an error occurs, the operation is canceled and an error code is displayed. When normally completed, [Fin] is displayed. Turn the main power switch off and on after completing writing when selecting [Import]. 	Display	Description	Import	Writing data from the USB memory to the machine	Export	Retrieving from the machine to a USB memory	Display	Description	Depending data	Address Book	Address book	-	Job Account	Job accounting	-	One Touch	Information on one-touch key	Address book	User	User managements	Job accounting	Program	Program information	Job accountings and user managements	Document Box	Document box information	Job accountings and user managements	Fax Forward	FAX transfer information	Job accountings, user managements and document box information
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Program	Program information	Job accountings and user managements																													
Document Box	Document box information	Job accountings and user managements																													
Fax Forward	FAX transfer information	Job accountings, user managements and document box information																													

Item No.	Description			
U917	Error Codes			
	Codes	Description	Codes	Description
	e002	Parameter error	e31e	User managements error
	e003	File write error	e31f	User managements open error
	e004	File initialization error	e320	User managements error
	e005	File error	e410	Box file open error
	e006	Processing error	e411	Box error in writing
	e010	Address book clear error (contact)	e412	Box error in reading
	e011	Address book open error (contact)	e413	Box list error
	e012	Address book list error (contact)	e414	Box list error
	e013	Address book list error (contact)	e415	Box error
	e014	Address book clear error (group)	e416	Box error
	e015	Address book open error (group)	e417	Box open error
	e016	Address book list error (group)	e418	Box close error
	e017	Address book list error (group)	e419	Box creation error
	e110	Job accounting clear error	e41a	Box creation error
	e111	Job accounting open error	e41b	Box deletion error
	e112	Job accounting open error	e41c	Box movement error
	e113	Job accounting error in writing	e510	Program error in writing
	e114	Job accounting list error	e511	Program error in reading
	e115	Job accounting list error	e710	Fax memory open error
	e210	One-touch open error	e711	Fax memory initialization error
	e211	One-touch list error	e712	Fax memory list error
	e212	One-touch list error	e713	Fax memory error
	e310	User managements backup error	e714	Fax memory error
	e311	User managements clear error	e715	Fax memory mode error
	e312	User managements open error	e716	Fax memory error
	e313	User managements open error	e717	Fax memory error
	e314	User managements open error	e718	Fax memory mode error
	e315	User managements error in writing	e910	File reading error
	e316	User managements list error	e911	File writing error
	e317	User managements list error	e912	Data mismatch
	e318	User managements list error	e913	Log file open error
	e319	User managements list error	e914	Log file error in writing
	e31a	User managements open error	e915	Directory open error
	e31b	User managements error	e916	Directory error in reading
	e31c	User managements error	e917	Synchronization error
	e31d	User managements open error	e918	Synchronization error

Item No.	Description			
U917	Error Codes			
	Codes	Description	Codes	Description
	d000	Unspecified error	d00b	File reading error
	d001	HDD unavailable	d00c	File writing error
	d002	USB memory is not inserted	d00d	File copy error
	d003	File for writing is not found in the USB	d00e	File compressed error
	d004	File for reading is not found in the HDD	d00f	File decompressed error
	d005	USB error in writing	d010	Directory open error
	d006	USB error in reading	d011	Directory creation error
	d007	USB unmount error	d012	File writing error
	d008	File rename error	d013	File reading error
	d009	File open error	d014	File deletion error
	d00a	File close error	d015	File copy error to the USB
	Supplement			
	The following restrictions apply to the data which were imported from 4 in 1 models (with FAX) to 3 in 1 models (without FAX).			
Personal address book: FAX-related data are not imported.				
Group address book: Group addresses including FAX addresses are not imported.				
Job accounting data: Initial values are added for FAX-related data.				
One-touch data: Groups assigned with FAX addresses or those including FAX are not imported.				
User management data: Initial values are added for out-going FAXes of authentication.				
Program data: Not imported. (The same applies when data are imported from 3 in 1 to 4 in 1 models.)				
Completion				
Press the stop key. The screen for selecting a maintenance item No. is displayed.				

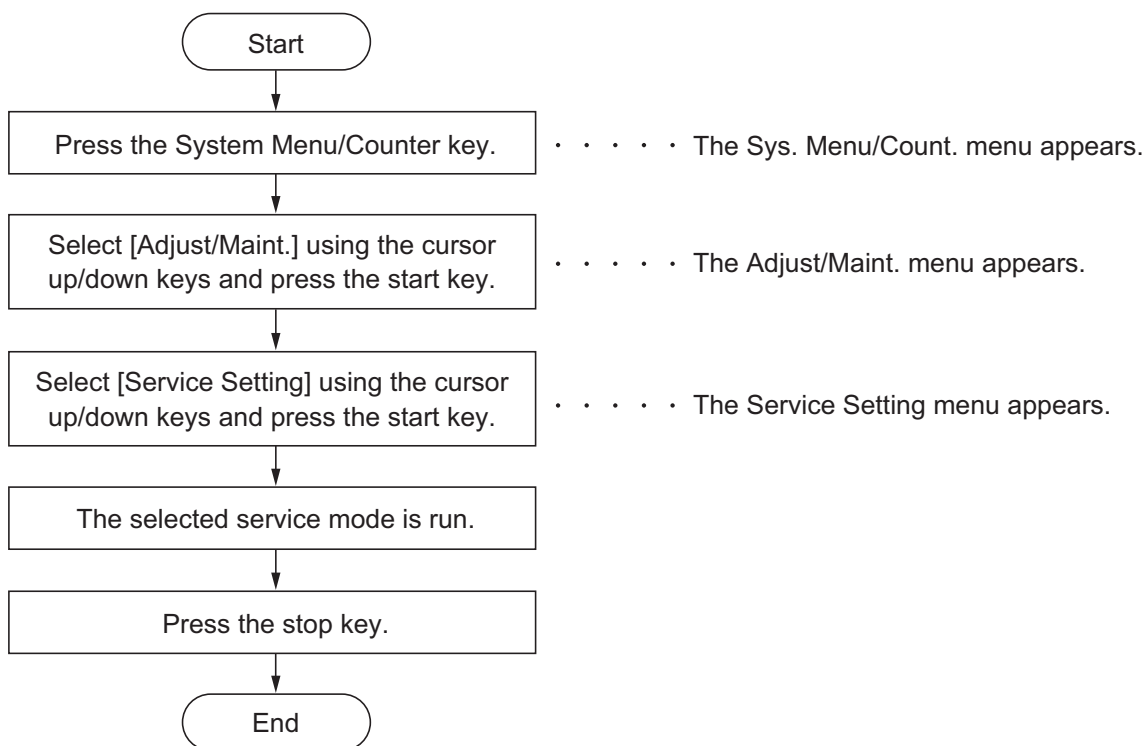
Item No.	Description												
U920	<p>Checking the copy counts</p> <p>Description Checks the copy counts.</p> <p>Purpose To check the copy counts.</p> <p>Method 1. Press the start key. The current counts are displayed.</p> <table border="1" data-bbox="336 562 1401 851"> <thead> <tr> <th data-bbox="336 562 639 611">Display</th> <th data-bbox="639 562 1401 611">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 611 639 660">Color Copy</td> <td data-bbox="639 611 1401 660">Count value of color copy</td> </tr> <tr> <td data-bbox="336 660 639 710">B/W Copy</td> <td data-bbox="639 660 1401 710">Count value of black/white copy</td> </tr> <tr> <td data-bbox="336 710 639 759">Color Prn</td> <td data-bbox="639 710 1401 759">Count value of color print</td> </tr> <tr> <td data-bbox="336 759 639 808">B/W Prn</td> <td data-bbox="639 759 1401 808">Count value of black/white print</td> </tr> <tr> <td data-bbox="336 808 639 851">B/W Fax</td> <td data-bbox="639 808 1401 851">Count value of black/white FAX</td> </tr> </tbody> </table> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Color Copy	Count value of color copy	B/W Copy	Count value of black/white copy	Color Prn	Count value of color print	B/W Prn	Count value of black/white print	B/W Fax	Count value of black/white FAX
Display	Description												
Color Copy	Count value of color copy												
B/W Copy	Count value of black/white copy												
Color Prn	Count value of color print												
B/W Prn	Count value of black/white print												
B/W Fax	Count value of black/white FAX												
U927	<p>Clearing the all copy counts and machine life counts (one time only)</p> <p>Description Resets all of the counts back to zero.</p> <p>Supplement The total account counter and the machine life counter can be cleared only once if all count values are 1000 or less.</p> <p>Method 1. Press the start key. 2. Select [Execute] using the cursor up/down keys. 3. Press the start key. All copy counts and machine life counts are cleared.</p> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>												

Item No.	Description				
U928	<p>Checking machine life counts</p> <p>Description Displays the machine life counts.</p> <p>Purpose To check the machine life counts.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. The current machine life counts is displayed. <table border="1" data-bbox="336 562 1401 658"> <thead> <tr> <th data-bbox="336 562 639 607">Display</th> <th data-bbox="639 562 1401 607">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 607 639 658">Life Cont</td> <td data-bbox="639 607 1401 658">Machine life counts</td> </tr> </tbody> </table> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Life Cont	Machine life counts
Display	Description				
Life Cont	Machine life counts				
U977	<p>Data capture mode</p> <p>Description Store the print data sent to the machine into USB memory.</p> <p>Purpose In case to occur the error at printing, check the print data sent to the machine.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Insert USB memory in USB memory slot. 2. Turn the main power switch on. 3. Enter the maintenance item. 4. Press the start key. 5. Select [Execute]. 6. Press the start key. 7. Send the print data to the machine. Once the print data is stored into USB memory, [OK] will be displayed. <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>				
U995	<p>Memory data Individual setting</p> <p>Description Displays the memory data.</p> <p>Purpose This mode need not be executed. When the status report is output, the setting is displayed.</p> <p>Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.</p>				

1-3-2 Service mode

The machine is equipped with a maintenance function which can be used to maintain and service the machine.

(1) Executing a service mode



(2) Description of service mode

Service items	Description
Service Status	<p data-bbox="387 293 927 322">Printing a status page for service purpose</p> <p data-bbox="387 360 539 389">Description</p> <p data-bbox="387 396 1422 461">Prints a status page for service purpose. The status page includes various settings and service cumulative.</p> <p data-bbox="387 468 499 497">Purpose</p> <p data-bbox="387 504 1398 533">To acquire the current printing environmental parameters and cumulative information.</p> <p data-bbox="387 571 488 600">Method</p> <ol data-bbox="403 607 1137 741" style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [Service Status] using the cursor up/down keys. 3. Press the start key. 4. Press [Yes] (the Left Select key). Two pages will be printed. <p data-bbox="387 779 539 808">Completion</p> <p data-bbox="387 815 619 844">Press the stop key.</p>

Service items	Description																																																
	<p data-bbox="387 241 683 275">Service status page (1)</p> <div data-bbox="338 304 1396 1765" style="border: 1px solid black; padding: 10px;"> <p data-bbox="363 331 801 376">Service Status Page</p> <p data-bbox="363 380 422 403">MFP</p> <p data-bbox="1152 376 1342 398">(2) 06/04/2010 12:00</p> <p data-bbox="352 432 829 454">(1) Firmware version 2KX_2000.000.000 2010.04.06</p> <p data-bbox="979 409 1353 454">(3) [XXXXXXXX] (4) [XXXXXXXX] (5) [XXXXXXXX]</p> <hr/> <p data-bbox="368 506 651 528">Controller Information</p> <p data-bbox="400 539 544 562">Memory status</p> <table data-bbox="363 566 734 645"> <tr> <td>(7) Standard Size</td> <td>128.0 KB</td> </tr> <tr> <td>(8) Option Slot</td> <td>128.0 KB</td> </tr> <tr> <td>(9) Total Size</td> <td>256.0 KB</td> </tr> </table> <p data-bbox="874 566 1046 589">(26) FRPO Status</p> <table data-bbox="927 593 1347 645"> <tr> <td>User Top Margin</td> <td>A1+A2/100</td> <td>0.00</td> </tr> <tr> <td>User Left Margin</td> <td>A3+A4/100</td> <td>0.00</td> </tr> </table> <p data-bbox="400 674 448 696">Time</p> <p data-bbox="352 701 762 723">(10) Local Time Zone +01:00 Tokio</p> <p data-bbox="352 728 804 750">(11) Date and Time 06/04/2010 12:00</p> <p data-bbox="352 754 767 777">(12) Time Server 10.183.53.13</p> <p data-bbox="400 808 564 831">Installed Options</p> <p data-bbox="352 835 727 857">(13) Paper feeder Cassette</p> <p data-bbox="352 862 724 884">(14) Card Authentication Kit (B) Installed</p> <p data-bbox="400 920 544 943">Print Coverage</p> <p data-bbox="352 947 887 969">(15) Average(%) / Usage Page(A4/Letter Conversion)</p> <p data-bbox="352 974 448 996">(16) Total</p> <table data-bbox="411 1001 683 1104"> <tr> <td>K: 1.10</td> <td>/ 1111111.11</td> </tr> <tr> <td>C: 2.20</td> <td>/ 2222222.22</td> </tr> <tr> <td>M: 3.30</td> <td>/ 3333333.33</td> </tr> <tr> <td>Y: 4.40</td> <td>/ 4444444.44</td> </tr> </table> <p data-bbox="352 1108 448 1131">(17) Copy</p> <table data-bbox="411 1135 683 1238"> <tr> <td>K: 1.10</td> <td>/ 1111111.11</td> </tr> <tr> <td>C: 2.20</td> <td>/ 2222222.22</td> </tr> <tr> <td>M: 3.30</td> <td>/ 3333333.33</td> </tr> <tr> <td>Y: 4.40</td> <td>/ 4444444.44</td> </tr> </table> <p data-bbox="352 1243 448 1265">(18) Printer</p> <table data-bbox="411 1270 1331 1373"> <tr> <td>K: 1.10</td> <td>/ 1111111.11</td> <td>PDF mode</td> <td>Y5</td> <td>00</td> </tr> <tr> <td>C: 2.20</td> <td>/ 2222222.22</td> <td></td> <td></td> <td></td> </tr> <tr> <td>M: 3.30</td> <td>/ 3333333.33</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Y: 4.40</td> <td>/ 4444444.44</td> <td></td> <td></td> <td></td> </tr> </table> <p data-bbox="352 1377 448 1400">(19) FAX</p> <p data-bbox="411 1404 671 1426">K: 1.10 / 1111111.11</p> <p data-bbox="352 1431 863 1453">(20) Period (27/10/2009 - 03/11/2009 08:40)</p> <p data-bbox="352 1458 823 1480">(21) Last Page K/C/M/Y(%) 1.00 / 2.22 / 3.33 / 4.44</p> <p data-bbox="400 1525 560 1547">FAX Information</p> <p data-bbox="352 1552 627 1574">(22) Rings (Normal) 3</p> <p data-bbox="352 1579 627 1601">(23) Rings (FAX/TEL) 3</p> <p data-bbox="352 1606 627 1628">(24) Rings (TAD) 3</p> <p data-bbox="352 1632 671 1655">(25) Option DIMM Size 16 MB</p> <hr/> <p data-bbox="858 1700 874 1722">1</p> <p data-bbox="1094 1700 1361 1731">(6) [XXXXXXXXXXXXXXXXXXXX]</p> </div>	(7) Standard Size	128.0 KB	(8) Option Slot	128.0 KB	(9) Total Size	256.0 KB	User Top Margin	A1+A2/100	0.00	User Left Margin	A3+A4/100	0.00	K: 1.10	/ 1111111.11	C: 2.20	/ 2222222.22	M: 3.30	/ 3333333.33	Y: 4.40	/ 4444444.44	K: 1.10	/ 1111111.11	C: 2.20	/ 2222222.22	M: 3.30	/ 3333333.33	Y: 4.40	/ 4444444.44	K: 1.10	/ 1111111.11	PDF mode	Y5	00	C: 2.20	/ 2222222.22				M: 3.30	/ 3333333.33				Y: 4.40	/ 4444444.44			
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Y: 4.40	/ 4444444.44																																																

Figure 1-3-17

Service items	Description		
	<p data-bbox="387 241 679 275">Service status page (2)</p> <div data-bbox="338 304 1396 1765" style="border: 1px solid black; padding: 10px;"> <h3 data-bbox="363 331 799 376">Service Status Page</h3> <p data-bbox="363 380 421 405">MFP</p> <p data-bbox="1182 380 1342 405" style="text-align: right;">06/04/2010 12:00</p> <p data-bbox="384 434 831 459">Firmware version 2KX_2000.000.000 2010.04.06</p> <p data-bbox="979 434 1353 459" style="text-align: right;">[XXXXXXXX] [XXXXXXXX] [XXXXXXXX]</p> <hr/> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p data-bbox="363 504 612 533">Engine Information</p> <p data-bbox="352 539 839 566">(27) NVRAM Version _1F31225_1F31225</p> <p data-bbox="352 568 831 595">(28) Scanner Version 2KX_1200.001.089</p> <p data-bbox="352 598 831 624">(29) FAX</p> <p data-bbox="411 627 831 654"> FAX BOOT Version 2KX_5000.001.001</p> <p data-bbox="411 656 831 683"> FAX APL Version 2KX_5100.001.001</p> <p data-bbox="411 685 831 712"> FAX IPL Version 2KX_5200.001.001</p> <p data-bbox="352 714 831 741">(30) MAC Address 00:C0:EE:D0:01:0D</p> <p data-bbox="352 743 831 770">(31) DP Counters</p> <p data-bbox="411 772 711 799"> Total 1234</p> </td> <td style="width: 50%; vertical-align: top;"> <p data-bbox="963 504 1182 533">Send Information</p> <p data-bbox="948 539 1302 566">(32) Date and Time 10/04/06</p> <p data-bbox="948 568 1066 595">(33) Address</p> </td> </tr> </table> <p data-bbox="395 857 528 884" style="margin-top: 20px;">1/2 (34) (35)</p> <p data-bbox="352 887 469 913">(36) 100/100</p> <p data-bbox="352 916 474 943">(37) 0/0/0/0/0</p> <p data-bbox="352 945 474 972">(38) 0/0/0/0/0</p> <p data-bbox="352 974 528 1001">(39) 0/0/0/0/0/0/0/0/</p> <p data-bbox="352 1003 1182 1030">(40) 0000000/0000000/0000000/0000000/0000000/0000000/</p> <p data-bbox="395 1032 1182 1059"> 0000000/0000000/0000000/0000000/0000000/0000000/0000000/0000000/</p> <p data-bbox="395 1061 1374 1088"> F00/U00/0/0/0/0/30/30/70/70/abcde/1/0 (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53)</p> <p data-bbox="352 1090 1102 1117">(54) 0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/</p> <p data-bbox="395 1120 871 1146"> 0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/</p> <p data-bbox="352 1149 1150 1176">(55) 0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/</p> <p data-bbox="395 1178 1150 1205"> 0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/0000/</p> <p data-bbox="352 1207 1347 1234">(56) 12345678/11223344/00001234abcd567800001234abcd5678/01234567890123456789012345678901/0008/00/07</p> <p data-bbox="395 1236 1347 1263"> 12345678/11223344/00001234abcd567800001234abcd5678/01234567890123456789012345678901/0008/00/07</p> <p data-bbox="395 1265 1347 1292"> 12345678/11223344/00001234abcd567800001234abcd5678/01234567890123456789012345678901/0008/00/07</p> <p data-bbox="395 1294 687 1321"> 2KX_D100.001.005/0/ (57) (58)</p> <p data-bbox="395 1323 711 1350"> [ABCDEFGHJIJ][ABCDEFGHJIJ] (59)</p> <p data-bbox="395 1352 687 1379"> [2KX_0000.001.005][] (60) (61)</p> <p data-bbox="352 1382 1302 1408">(62) 0000000000/F80C001A37/302A183C00/000100013D/8791BEC305/0000003100/000F5D0000/01FD000000/</p> <p data-bbox="395 1411 1278 1438"> 0000000000/0000000000/0000000000/0000000000/0000260000/0000000000/0000000000/0000000000/0000008400/</p> <p data-bbox="395 1440 528 1467"> 0/3/ (63) (64)</p> <p data-bbox="352 1469 895 1496">(65) ABCDEFGHIJ/ABCDEFGHIJ/ABCDEFGHIJ/ABCDEFGHIJ/</p> <hr style="width: 80%; margin: 20px auto;"/> <p data-bbox="858 1715 871 1742" style="text-align: center;">2</p> <p data-bbox="1142 1715 1353 1742" style="text-align: right;">[XXXXXXXXXXXXXXXXXXXX]</p> </div>	<p data-bbox="363 504 612 533">Engine Information</p> <p data-bbox="352 539 839 566">(27) NVRAM Version _1F31225_1F31225</p> <p data-bbox="352 568 831 595">(28) Scanner Version 2KX_1200.001.089</p> <p data-bbox="352 598 831 624">(29) FAX</p> <p data-bbox="411 627 831 654"> FAX BOOT Version 2KX_5000.001.001</p> <p data-bbox="411 656 831 683"> FAX APL Version 2KX_5100.001.001</p> <p data-bbox="411 685 831 712"> FAX IPL Version 2KX_5200.001.001</p> <p data-bbox="352 714 831 741">(30) MAC Address 00:C0:EE:D0:01:0D</p> <p data-bbox="352 743 831 770">(31) DP Counters</p> <p data-bbox="411 772 711 799"> Total 1234</p>	<p data-bbox="963 504 1182 533">Send Information</p> <p data-bbox="948 539 1302 566">(32) Date and Time 10/04/06</p> <p data-bbox="948 568 1066 595">(33) Address</p>
<p data-bbox="363 504 612 533">Engine Information</p> <p data-bbox="352 539 839 566">(27) NVRAM Version _1F31225_1F31225</p> <p data-bbox="352 568 831 595">(28) Scanner Version 2KX_1200.001.089</p> <p data-bbox="352 598 831 624">(29) FAX</p> <p data-bbox="411 627 831 654"> FAX BOOT Version 2KX_5000.001.001</p> <p data-bbox="411 656 831 683"> FAX APL Version 2KX_5100.001.001</p> <p data-bbox="411 685 831 712"> FAX IPL Version 2KX_5200.001.001</p> <p data-bbox="352 714 831 741">(30) MAC Address 00:C0:EE:D0:01:0D</p> <p data-bbox="352 743 831 770">(31) DP Counters</p> <p data-bbox="411 772 711 799"> Total 1234</p>	<p data-bbox="963 504 1182 533">Send Information</p> <p data-bbox="948 539 1302 566">(32) Date and Time 10/04/06</p> <p data-bbox="948 568 1066 595">(33) Address</p>		

Figure 1-3-18

Service items	Description	
	Detail of service status page	
No.	Description	Supplement
(1)	Firmware version	-
(2)	System date	-
(3)	Engine soft version	-
(4)	Engine boot version	-
(5)	Operation panel mask version	-
(6)	Machine serial number	-
(7)	Standard memory size	-
(8)	Optional memory size	-
(9)	Total memory size	-
(10)	Local time zone	-
(11)	Report output date	Day/Month/Year hour:minute
(12)	NTP server name	-
(13)	Presence or absence of the optional paper feeder	Paper feeder 1/Paper feeder 2/Not Installed
(14)	Presence or absence of the optional IC card authentication kit	Installed/Not Installed/Trial
(15)	Page of relation to the A4/Letter	* :Print Coverage provides a close-matching reference of toner consumption and will not match with the actual toner consumption.
(16)	Average coverage for total	Black/Cyan/Magenta/Yellow
(17)	Average coverage for copy	Black/Cyan/Magenta/Yellow
(18)	Average coverage for printer	Black/Cyan/Magenta/Yellow
(19)	Average coverage for fax	Black/Cyan/Magenta/Yellow
(20)	Cleared date and output date	-
(21)	Coverage on the final output page	-
(22)	Number of rings	0 to 15
(23)	Number of rings before automatic switching	0 to 15
(24)	Number of rings before connecting to answering machine	0 to 15
(25)	Optional DIMM size	-
(26)	FRPO setting	-

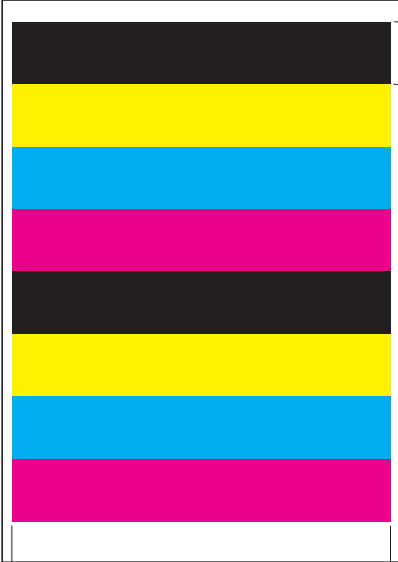
Service items	Description																																																	
	<table border="1"> <thead> <tr> <th data-bbox="295 286 386 331">No.</th> <th data-bbox="386 286 798 331">Description</th> <th data-bbox="798 286 1420 331">Supplement</th> </tr> </thead> <tbody> <tr> <td data-bbox="295 331 386 974">(27)</td> <td data-bbox="386 331 798 974">NV RAM version</td> <td data-bbox="798 331 1420 974"> <p>_ 1F3 1225 _ 1F3 1225 (a) (b) (c) (d) (e) (f)</p> <p>(a) Consistency of the present software version and the database _ (underscore): OK * (Asterisk): NG</p> <p>(b) Database version</p> <p>(c) The oldest time stamp of database version</p> <p>(d) Consistency of the present software version and the ME firmware version _ (underscore): OK * (Asterisk): NG</p> <p>(e) ME firmware version</p> <p>(f) The oldest time stamp of the ME database version</p> <p>Normal if (a) and (d) are underscored, and (b) and (e) are identical with (c) and (f).</p> </td> </tr> <tr> <td data-bbox="295 974 386 1019">(28)</td> <td data-bbox="386 974 798 1019">Scanner firmware version</td> <td data-bbox="798 974 1420 1019">-</td> </tr> <tr> <td data-bbox="295 1019 386 1064">(29)</td> <td data-bbox="386 1019 798 1064">Fax firmware version</td> <td data-bbox="798 1019 1420 1064">-</td> </tr> <tr> <td data-bbox="295 1064 386 1108">(30)</td> <td data-bbox="386 1064 798 1108">Mac address</td> <td data-bbox="798 1064 1420 1108">-</td> </tr> <tr> <td data-bbox="295 1108 386 1153">(31)</td> <td data-bbox="386 1108 798 1153">Number of original feed from DP</td> <td data-bbox="798 1108 1420 1153">-</td> </tr> <tr> <td data-bbox="295 1153 386 1198">(32)</td> <td data-bbox="386 1153 798 1198">The last sent date and time</td> <td data-bbox="798 1153 1420 1198">-</td> </tr> <tr> <td data-bbox="295 1198 386 1243">(33)</td> <td data-bbox="386 1198 798 1243">Transmission address</td> <td data-bbox="798 1198 1420 1243">-</td> </tr> <tr> <td data-bbox="295 1243 386 1288">(34)</td> <td data-bbox="386 1243 798 1288">Destination information</td> <td data-bbox="798 1243 1420 1288">-</td> </tr> 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Network Status	<p data-bbox="389 855 823 884">Printing a status page for network</p> <p data-bbox="389 920 539 949">Description</p> <p data-bbox="389 956 772 985">Prints a status page for network.</p> <p data-bbox="389 992 497 1021">Purpose</p> <p data-bbox="389 1028 994 1057">To acquire the detailed network setting information.</p> <p data-bbox="389 1093 485 1122">Method</p> <ol data-bbox="405 1128 1251 1263" style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [Network Status] using the cursor up/down keys. 3. Press the start key. 4. Press [Yes] (the Left Select key). Network status page will be printed. <p data-bbox="389 1299 539 1328">Completion</p> <p data-bbox="389 1335 616 1364">Press the stop key.</p>																																																																															

Service items	Description
<p>Test Page</p>	<p>Printing a test page</p> <p>Description Four colors are printed respectively with halftones of three different levels.</p> <p>Purpose To check the activation of the developer and drum units of four colors.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [Test Page] using the cursor up/down keys. 3. Press the start key. 4. Press [Yes] (the Left Select key). Test page will be printed. <div data-bbox="507 719 1316 1279" style="text-align: center;"> </div> <p>*1: Since focusing in yellow is hardly readable, yellow is mixed with cyan for more readability, resulting in green.</p> <p>*2: Each portion of colors has three different magnitude of halftones (bands). If focus is excessively lost, dots are not recognizable with the 16/256 band, resulting in uneven density. It also results in vertical streaks in the 24/256 and/or 32/256 bands.</p> <p style="text-align: center;">Figure 1-3-19</p> <p>Completion Press the stop key.</p>

Service items	Description
Developer Setting	<p>Entering initial value for replacing the developing unit</p> <p>Description After replacing the developing unit, enter the initial value (6-digit data) assigned on a label attached to the package or developing unit.</p> <p>Purpose To set the initial value after replacing the developing unit.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [DeveloperSetting] using the cursor up/down keys. 3. Press the start key. Enter the initial value (6-digit data) using the numeric keys. 4. Press the start key. The initial value is set. <div data-bbox="539 790 1289 1283" style="text-align: center;"> <p>The diagram illustrates the location of the initial value label. On the left is a 'Developing unit' and on the right is its 'Package'. A callout box labeled 'Label' contains a QR code, the alphanumeric code '128F1E', and the model number 'DV560Y'. Dashed circles indicate the label's position on the top of the developing unit and the top of the package.</p> </div> <p>Figure 1-3-20</p> <p>Completion Press the stop key.</p>

Service items	Description
Developer Refresh	<p>Performing developer refresh</p> <p>Description The laser output of the image data for developer refreshing is carried out, and operation to exposure, developing, and primary transfer is performed by 10 pages (paper is not fed).</p> <p>Purpose To perform cleaning when faulty images occur and a line appears longitudinally.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [DeveloperRefresh] using the cursor up/down keys. 3. Press the start key. 4. Press [Yes] (the Left Select key). Developer refresh is performed. <div data-bbox="651 792 1173 1480" style="text-align: center;"> <p>A4 paper size</p>  <p>33 mm</p> <p>200 mm</p> <p>Toner image on the transfer belt</p> </div> <p>Figure 1-3-21</p> <p>Completion Press the stop key.</p>

Service items	Description
Laser Scanner Cleaning	<p>Performing LSU cleaning</p> <p>Description The LSU cleaning motor drives the cleaning pad which in turn wipes clean the LSU dust shield glass.</p> <p>Purpose To perform cleaning when the printed image is bad and stripes are seen in the vertical direction.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [LaserScanner Cln] using the cursor up/down keys. 3. Press the start key. 4. Press [Yes] (the Left Select key). LSU cleaning is performed. <p>Completion Press the stop key.</p>
Drum surface refreshing	<p>Performing drum surface refreshing</p> <p>Description Rotates the drum approximately 2 minutes with toner lightly on the overall drum. The cleaning blade in the drum unit scrapes toner off the drum surface to clean it.</p> <p>Purpose To clean the drum surface when image failure occurs due to the drum. This mode is effective when dew condensation on the drum occurs.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [Drum Refresh] using the cursor up/down keys. 3. Press the start key. 4. Press [Yes] (the Left Select key). Drum surface refreshing is performed. <p>Completion Press the stop key.</p>

Service items	Description
Altitude adjustment	<p>Setting altitude adjustment</p> <p>Description Sets the altitude adjustment mode.</p> <p>Purpose Used when print quality deteriorates in an installation at the altitude of 1,500 meters or higher.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [Altitude Adj.] using the cursor up/down keys. 3. Press the start key. 4. Select [Normal], [High 1] or [High 2]) using the cursor up/down keys. 5. Press the start key. The setting is set. <p>Completion Press the stop key.</p>
Main charger adjustment	<p>Setting main charger output</p> <p>Description Sets the main charger output. This is executable only when the altitude adjustment mode is set to [Normal].</p> <p>Purpose Execute when the image density declines or an offset has occurred.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [MC] using the cursor up/down keys. 3. Press the start key. 4. Select [1], [2] or [3] using the cursor up/down keys. 5. Press the start key. The setting is set. <p>Completion Press the stop key.</p>

Service items	Description																																																											
FAX country code	<p>FAX Country Code</p> <p>Description Initializes software switches and all data in the backup data on the FAX control PWB, according to the destination.</p> <p>Purpose To initialize the FAX control PWB.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [FAX Country Code] using the cursor up/down keys. 3. Press the start key. 4. Enter a destination code using the numeric keys. 5. Press the start key. The setting is set. 6. Press the start key. Data initialization starts. <p>Destination code list</p> <table border="1" data-bbox="437 840 1385 1749"> <thead> <tr> <th>Code</th> <th>Destination</th> <th>Code</th> <th>Destination</th> </tr> </thead> <tbody> <tr> <td>000</td> <td>Japan</td> <td rowspan="17">253</td> <td>CTR21 (European nations)</td> </tr> <tr> <td>009</td> <td>Australia</td> <td>Italy</td> </tr> <tr> <td>038</td> <td>China</td> <td>Germany</td> </tr> <tr> <td>080</td> <td>Hong Kong</td> <td>Spain</td> </tr> <tr> <td>084</td> <td>Indonesia</td> <td>U.K.</td> </tr> <tr> <td>088</td> <td>Israel</td> <td>Netherlands</td> </tr> <tr> <td>097</td> <td>Korea</td> <td>Sweden</td> </tr> <tr> <td>108</td> <td>Malaysia</td> <td>France</td> </tr> <tr> <td>126</td> <td>New Zealand</td> <td>Austria</td> </tr> <tr> <td>136</td> <td>Peru</td> <td>Switzerland</td> </tr> <tr> <td>137</td> <td>Philippines</td> <td>Belgium</td> </tr> <tr> <td>152</td> <td>Middle East</td> <td>Denmark</td> </tr> <tr> <td>156</td> <td>Singapore</td> <td>Finland</td> </tr> <tr> <td>159</td> <td>South Africa</td> <td>Portugal</td> </tr> <tr> <td>169</td> <td>Thailand</td> <td>Ireland</td> </tr> <tr> <td>181</td> <td>U.S.A.</td> <td>Norway</td> </tr> <tr> <td>242</td> <td>South America</td> <td rowspan="2">254</td> <td rowspan="2">Taiwan</td> </tr> <tr> <td>243</td> <td>Saudi Arabia</td> </tr> </tbody> </table> <p>Completion Press the stop key.</p>	Code	Destination	Code	Destination	000	Japan	253	CTR21 (European nations)	009	Australia	Italy	038	China	Germany	080	Hong Kong	Spain	084	Indonesia	U.K.	088	Israel	Netherlands	097	Korea	Sweden	108	Malaysia	France	126	New Zealand	Austria	136	Peru	Switzerland	137	Philippines	Belgium	152	Middle East	Denmark	156	Singapore	Finland	159	South Africa	Portugal	169	Thailand	Ireland	181	U.S.A.	Norway	242	South America	254	Taiwan	243	Saudi Arabia
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Service items	Description								
FAX call Setting	<p>FAX call setting</p> <p>Description Selects if a fax is to be connected to either a PBX or public switched telephone network. Selects the mode to connect an outside call when connected to a PBX. Access code registration for connection to PSTN.</p> <p>Purpose To be executed as required.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Enter the Service Setting menu. 2. Select [FAX Call Set.] using the cursor up/down keys. 3. Press the start key. <table border="1" data-bbox="437 701 1385 893"> <thead> <tr> <th data-bbox="437 701 703 745">Display</th> <th data-bbox="703 701 1385 745">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="437 745 703 790">Exchange Select.</td> <td data-bbox="703 745 1385 790">Setting the connection to PBX/PSTN</td> </tr> <tr> <td data-bbox="437 790 703 835">PBX Setting</td> <td data-bbox="703 790 1385 835">Setting for a PBX</td> </tr> <tr> <td data-bbox="437 835 703 880">Dial No. to PSTN</td> <td data-bbox="703 835 1385 880">Setting access code to PSTN</td> </tr> </tbody> </table> <p>Setting the connection to PBX/PSTN</p> <ol style="list-style-type: none"> 1. Select [Exchange Select.] using the cursor up/down keys. 2. Press the start key. 3. Select [PBX] or [PSTN] using the cursor up/down keys. 4. Press the start key. The setting is set. <p>Setting for PBX</p> <ol style="list-style-type: none"> 1. Select [PBX Setting] using the cursor up/down keys. 2. Press the start key. 3. Select [Loop], [Flash] or [Earth] using the cursor up/down keys. 4. Press the start key. The setting is set. <p>Setting access code to PSTN</p> <ol style="list-style-type: none"> 1. Select [Dial No. to PSTN] using the cursor up/down keys. 2. Press the start key. 3. Enter access code using the numeric keys. (0 to 9, 00 to 99) 4. Press the start key. The setting is set. <p>Completion Press the stop key.</p>	Display	Description	Exchange Select.	Setting the connection to PBX/PSTN	PBX Setting	Setting for a PBX	Dial No. to PSTN	Setting access code to PSTN
Display	Description								
Exchange Select.	Setting the connection to PBX/PSTN								
PBX Setting	Setting for a PBX								
Dial No. to PSTN	Setting access code to PSTN								

Service items	Description
Remote diagnostics	<p data-bbox="387 244 735 277">Setting remote diagnostics</p> <p data-bbox="387 315 539 349">Description</p> <p data-bbox="387 349 727 383">Sets the remote diagnostics.</p> <p data-bbox="387 383 499 416">Purpose</p> <p data-bbox="387 416 1410 483">Used to establish communication between the machine and the service facility when a problem is encountered.</p> <p data-bbox="387 521 488 555">Method</p> <ol data-bbox="403 555 1362 898" style="list-style-type: none">1. Enter the Service Setting menu.2. Select [Remote Diag.Set.] using the cursor up/down keys.3. Press the start key.4. Select [On] using the cursor up/down keys.5. Press the start key. The setting is set.6. Select [Remote Diag. ID] using the cursor up/down keys.7. Press the start key.8. Enter the prespecified remote diagnostics ID number (0000 to 9999) using the numeric keys.9. Press the start key. The setting is set. <p data-bbox="387 936 539 969">Completion</p> <p data-bbox="387 969 619 1003">Press the stop key.</p>

1-4-1 Paper misfeed detection

(1) Paper misfeed indication

When a paper misfeed occurs, the machine immediately stops printing and displays the paper misfeed message on the operation panel. To remove paper misfed in the machine, pull out the cassette, open the rear cover or paper conveying unit.

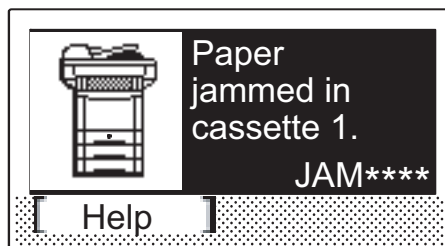


Figure 1-4-1 Paper misfeed indication

(2) Paper misfeed detection condition

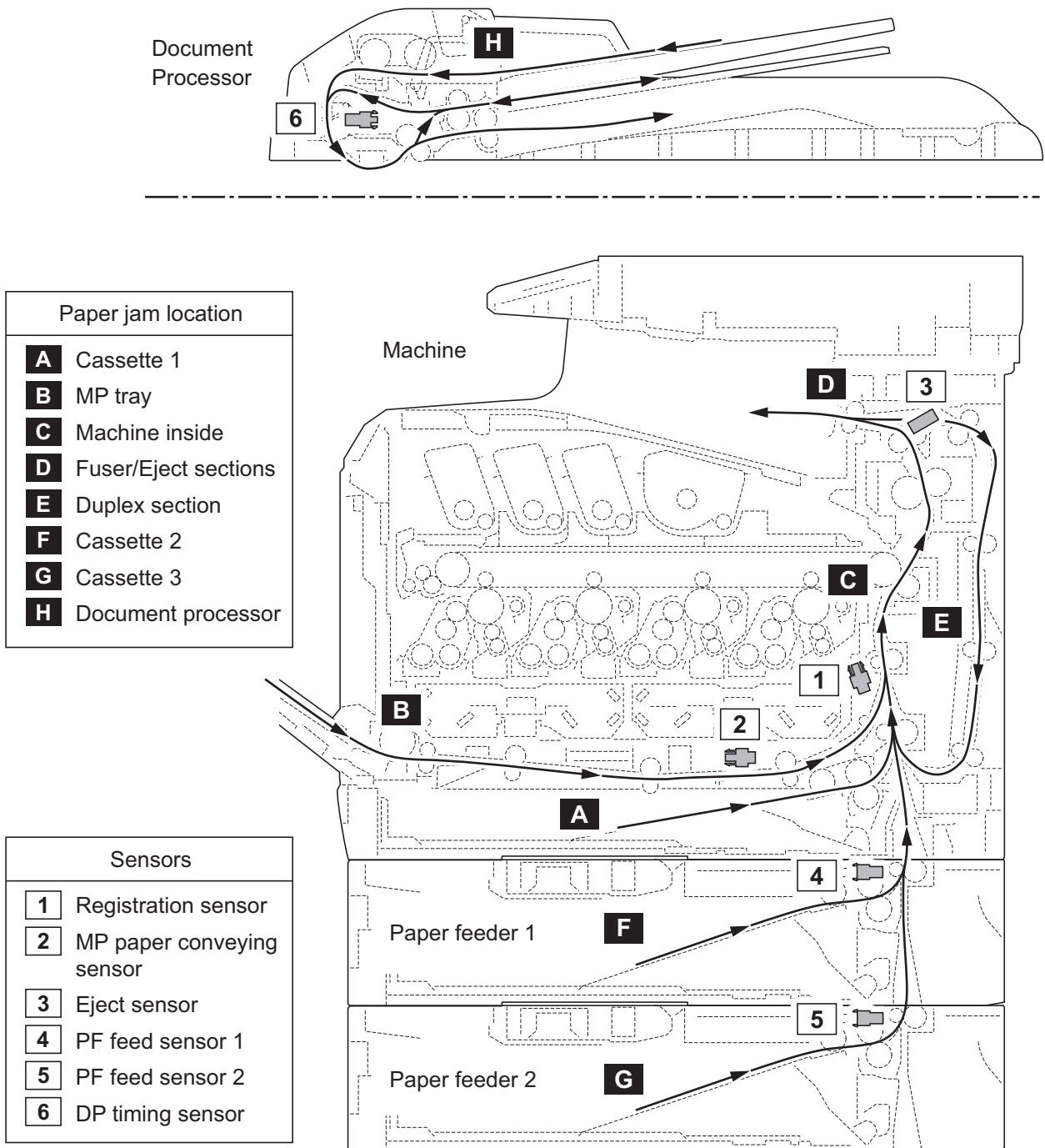


Figure 1-4-2 Paper jam location

Code	Contents	Conditions	Jam location*
0100	Controller sequence error	Secondary paper feed request given by the controller is unreachable.	C
0105	Registration sensor not detected	Activation of the registration sensor (on/off) is undetected for 90 s during printing.	-
0106	Controller sequence error	Paper feeding request for duplex printing given by the controller is unreachable.	E
0110	Top tray open	The top tray is opened during printing.	-
0111	Rear cover open	The rear cover is opened during printing.	-
0112	Front cover open	The waste toner cover is opened during printing.	-
0120	Controller sequence error	Paper feed request was received from the duplex section despite the absence of paper in the duplex section.	E
0121	Controller sequence error	The controller issued the duplex section a request for more pages than the duplex print cycle contains.	E
0211	Rear cover open (paper feeder 1)	The rear cover of paper feeder 1 is opened during printing.	-
0212	Rear cover open (paper feeder 2)	The rear cover of paper feeder 2 is opened during printing.	-
0501	No paper feed from cassette 1	The registration sensor (RS) does not turn on during paper feed from cassette.	A
0502	No paper feed from cassette 2	PF feed sensor 1 (PFFS1) does not turn on during paper feed from paper feeder 1.	F
0503	No paper feed from cassette 3	PF feed sensor 2 (PFFS2) does not turn on during paper feed from paper feeder 2.	G
0508	No paper feed from duplex section	The registration sensor (RS) does not turn on during paper feed from duplex section.	E
0509	No paper feed from MP tray	MP paper conveying sensor (MPPCS) does not turn on during paper feed from MP tray.	B
0511	Multiple sheets in cassette 1	The registration sensor (RS) does not turn off during paper feed from cassette.	A
0512	Multiple sheets in cassette 2	PF feed sensor 1 (PFFS1) does not turn off during paper feed from paper feeder 1.	F
0513	Multiple sheets in cassette 3	PF feed sensor 2 (PFFS2) does not turn off during paper feed from paper feeder 2.	G
0518	Multiple sheets in duplex section	The registration sensor (RS) does not turn off during paper feed from duplex section.	E
0519	Multiple sheets in MP tray	MP paper conveying sensor (MPPCS) does not turn off during paper feed from MP tray.	B

*: Refer to figure 1-4-2 for paper jam location (see page 1-4-2).

Code	Contents	Conditions	Jam location*
1020	MP feed sensor remaining jam	MP feed sensor (MPFS) is turned on when the power is turned on.	B
1403	PF feed sensor 1 non arrival jam	PF feed sensor 1 (PFFS1) does not turn on during paper feed from paper feeder 2.	F
1413	PF feed sensor 1 stay jam	PF feed sensor 1 (PFFS1) does not turn off during paper feed from paper feeder 2.	F
1420	PF feed sensor 1 remaining jam	PF feed sensor 1 (PFFS1) is turned on when the power is turned on.	F
1620	PF feed sensor 2 remaining jam	PF feed sensor 2 (PFFS2) is turned on when the power is turned on.	G
4002	Registration sensor non arrival jam	The registration sensor (RS) does not turn on during paper feed from paper feeder 1.	A
4003		The registration sensor (RS) does not turn on during paper feed from paper feeder 2.	A
4009		The registration sensor (RS) does not turn on during paper feed from MP tray.	A
4012	Registration sensor stay jam	The registration sensor (RS) does not turn off during paper feed from paper feeder 1.	C
4013		The registration sensor (RS) does not turn off during paper feed from paper feeder 2.	C
4019		The registration sensor (RS) does not turn off during paper feed from MP tray.	C
4020	Registration sensor remaining jam	The registration sensor (RS) is turned on when the power is turned on.	C
4201	Eject sensor non arrival jam	The eject sensor (ES) does not turn on during paper feed from cassette.	C
4202		The eject sensor (ES) does not turn on during paper feed from paper feeder 1.	C
4203		The eject sensor (ES) does not turn on during paper feed from paper feeder 2.	C
4208		The eject sensor (ES) does not turn on during paper feed from duplex section.	C
4209		The eject sensor (ES) does not turn on during paper feed from MP tray.	C

*: Refer to figure 1-4-2 for paper jam location (see page 1-4-2).

Code	Contents	Conditions	Jam location*
4211	Eject sensor stay jam	The eject sensor (ES) does not turn off during paper feed from cassette.	D
4212		The eject sensor (ES) does not turn off during paper feed from paper feeder 1.	D
4213		The eject sensor (ES) does not turn off during paper feed from paper feeder 2.	D
4218		The eject sensor (ES) does not turn off during paper feed from duplex section.	D
4219		The eject sensor (ES) does not turn off during paper feed from MP tray.	D
4220	Eject sensor remaining jam	The eject sensor (ES) is turned on when the power is turned on.	D
9000	No original feed	The DP timing sensor (DPTS) does not turn on within specified time during the first sheet feeding (Retry 5 times).	H
9001	An original jam in the original conveying section	DP timing sensor (DPTS) turns off within the specified time since the sensor turns on.	H
9003	An original jam in the original switchback section 1	During duplex switchback scanning, the DP timing sensor (DPTS) does not turn off within specified time.	H
9004	An original jam in the original switchback section 2	During duplex switchback scanning, the DP timing sensor (DPTS) does not turn on within specified time since original switchback operation starts.	H
9011	DP top cover open	The DP or DP top cover is opened during original feeding.	H
9401	An original jam in the original conveying section	The DP timing sensor (DPTS) does not turn off within specified time of the DP timing sensor (DPTS) turning on.	H

*: Refer to figure 1-4-2 for paper jam location (see page 1-4-2).

1-4-2 Self-diagnostic function

(1) Self-diagnostic function

This machine is equipped with self-diagnostic function. When a problem is detected, the machine stops printing and display an error message on the operation panel. An error message consists of a message prompting a contact to service personnel and a four-digit error code indicating the type of the error.

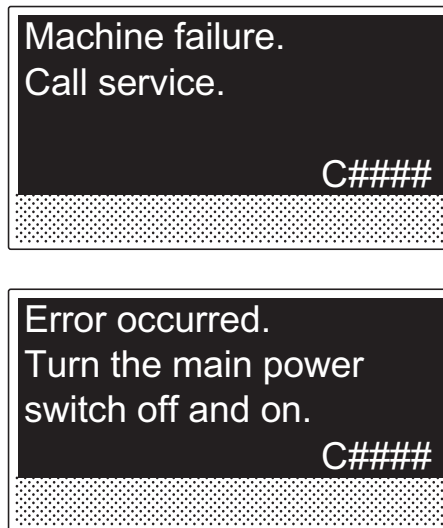


Figure 1-4-3

(2) Self diagnostic codes

If the part causing the problem was not supplied, use the unit including the part for replacement.

Code	Contents	Causes	Check procedures/ corrective measures
0030	FAX control PWB system error Processing with the fax software was disabled due to a hardware problem.	Defective FAX control PWB.	Replace the fax control PWB and check for correct operation. (see page 1-5-36).
0070	FAX control PWB incompatible detection error Abnormal detection of FAX control PWB incompatibility In the initial communication with the FAX control PWB, any normal communication command is not transmitted.	Defective FAX software.	Install the fax software.
		Defective FAX control PWB.	Replace the fax control PWB and check for correct operation. (see page 1-5-36).
0100	Backup memory device error	Defective flash memory.	Replace the main PWB and check for correct operation (see page 1-5-30).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0120	MAC address data error For data in which the MAC address is invalid.	Defective flash memory.	Replace the main PWB and check for correct operation (see page 1-5-30).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
0130	Backup memory read/write error (main PWB)	Defective flash memory.	Replace the main PWB and check for correct operation (see page 1-5-30).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0140	Backup memory data error (main PWB)	Defective flash memory.	Replace the main PWB and check for correct operation (see page 1-5-30).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0150	Engine PWB EEPROM error Detecting engine PWB EEPROM communication error.	Improper installation engine PWB EEPROM.	Check the installation of the EEPROM and remedy if necessary.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
		Device damage of EEPROM.	Contact the Service Administrative Division.
0170	Billing counting error A checksum error is detected in the main and engine backup memories for the billing counters.	Data damage of EEPROM.	Contact the Service Administrative Division.
		Defective PWB.	Replace the main PWB or the engine PWB and check for correct operation (see page 1-5-30, 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
0180	Machine number mismatch Machine number of main and engine does not match.	Data damage of EEPROM.	Contact the Service Administrative Division.
0600	Expanded memory (DIMM) installing error The expansion memory modules (DIMM) are not correctly mounted.	Improper installation expanded memory (DIMM).	Check the installation of the expanded memory (DIMM).
0610	Expanded memory (DIMM) error The expansion memory modules (DIMM) mounted on the main PWB does not operate correctly.	Defective expanded memory (DIMM).	Replace the expanded memory (DIMM) and check for correct operation (see page 1-2-12).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0640	Hard disk error The hard disk cannot be accessed.	Defective hard disk.	Replace the hard disk and check for correct operation.
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0830	FAX control PWB flash program area checksum error A checksum error occurred with the program of the FAX control PWB.	Defective FAX software.	Install the fax software.
		Defective FAX control PWB.	Replace the FAX control PWB (see page 1-5-36).
0840	Faults of RTC The time is judged to go back based on the comparison of the RTC time and the current time or five years or more have passed.	The battery is disconnected from the main PWB.	Check visually and remedy if necessary
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0870	FAX control PWB to main PWB high capacity data transfer error High-capacity data transfer between the FAX control PWB and the main PWB of the machine was not normally performed even if the data transfer was retried the specified times.	Improper installation FAX control PWB.	Reinstall the FAX control PWB (see page 1-5-36).
		Defective FAX control PWB or main PWB.	Replace the FAX control PWB or main PWB and check for correct operation (see page 1-5-36 or 1-5-30).
0920	Fax file system error The backup data is not retained for file system abnormality of flash memory of the FAX control PWB.	Defective FAX control PWB.	Replace the FAX control PWB and check for correct operation (see page 1-5-36).

Code	Contents	Causes	Check procedures/ corrective measures
0930	EEPROM bus error	Defective drum PWB (EEPROM).	Replace the drum unit (see page 1-5-21).
		Defective engine PWB (EEPROM).	Replace the engine PWB and check for correct operation (see page 1-5-27).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
1010	Lift motor error When the lift motor is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals. After the lift motor is driven, the ON status of lift sensor cannot be detected for 8 s. The cassette installed confirmation message is displayed on the operation panel, and even if the cassette is opened and closed, the cassette installed confirmation message is displayed 5 times successively.	Defective bottom plate elevation mechanism in the cassette.	Check to see if the bottom plate can move smoothly and repair it if any problem is found.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Lift motor and engine PWB (YC27)
		Defective drive transmission system of the lift motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective lift motor.	Replace the lift motor
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
1020	PF lift motor error (paper feeder 1) When the lift motor is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals. After the lift motor is driven, the ON status of lift sensor cannot be detected for 8 s. The cassette installed confirmation message is displayed on the operation panel, and even if the cassette is opened and closed, the cassette installed confirmation message is displayed 5 times successively.	Defective bottom plate elevation mechanism in the cassette.	Check to see if the bottom plate can move smoothly and repair it if any problem is found.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF lift motor and PF main PWB (YC7)
		Defective drive transmission system of the PF lift motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective PF lift motor.	Replace the PF lift motor
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
1030	<p>PF lift motor error (paper feeder 2) When the lift motor is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals. After the lift motor is driven, the ON status of lift sensor cannot be detected for 8 s. The cassette installed confirmation message is displayed on the operation panel, and even if the cassette is opened and closed, the cassette installed confirmation message is displayed 5 times successively.</p>	Defective bottom plate elevation mechanism in the cassette.	Check to see if the bottom plate can move smoothly and repair it if any problem is found.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF lift motor and PF main PWB (YC7)
		Defective drive transmission system of the PF lift motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective PF lift motor.	Replace the PF lift motor
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
1500	<p>PF heater 1 high temperature error (paper feeder 1) A temperature higher than 75°C/167°F is detected.</p>	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF fan motor 1 and PF main PWB (YC111)
		Shorted PF thermistor 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Defective PF fan motor 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
1510	<p>PF heater 2 high temperature error (paper feeder 1) A temperature higher than 75°C/167°F is detected.</p>	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF fan motor 2 and PF main PWB (YC111)
		Shorted PF thermistor 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Defective PF fan motor 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
1520	PF heater 1 high temperature error (paper feeder 2) A temperature higher than 75°C/167°F is detected.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF fan motor 1 and PF main PWB (YC111)
		Shorted PF thermistor 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Defective PF fan motor 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
1530	PF heater 2 high temperature error (paper feeder 2) A temperature higher than 75°C/167°F is detected.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF fan motor 2 and PF main PWB (YC111)
		Shorted PF thermistor 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Defective PF fan motor 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
1600	PF heater 1 low temperature error (paper feeder 1) An external temperature higher than + 5°C/+ 9°F is not detected when one minute elapses after PF heater 1 is turned on.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF heater 1 and PF heater PWB (YC1) PF heater PWB (YC3) and PF main PWB (YC113) PF thermistor 1 and PF main PWB (YC114)
		PF thermistor 1 installed incorrectly.	Check the installation of the PF thermistor 1.
		Defective PF thermistor 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Broken PF heater 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Defective PF heater PWB or PF main PWB.	Replace the PF heater PWB or PF main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
1610	PF heater 2 low temperature error (paper feeder 1) An external temperature higher than + 5°C/+ 9°F is not detected when one minute elapses after PF heater 2 is turned on.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF heater 2 and PF heater PWB (YC2) PF heater PWB (YC3) and PF main PWB (YC113) PF thermistor 2 and PF main PWB (YC115)
		PF thermistor 2 installed incorrectly.	Check the installation of the PF thermistor 2.
		Defective PF thermistor 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Broken PF heater 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Defective PF heater PWB or PF main PWB.	Replace the PF heater PWB or PF main PWB (Refer to the service manual for the paper feeder).
1620	PF heater 1 low temperature error (paper feeder 2) An external temperature higher than + 5°C/+ 9°F is not detected when one minute elapses after PF heater 1 is turned on.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF heater 1 and PF heater PWB (YC1) PF heater PWB (YC3) and PF main PWB (YC113) PF thermistor 1 and PF main PWB (YC114)
		PF thermistor 1 installed incorrectly.	Check the installation of the PF thermistor 1.
		Defective PF thermistor 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Broken PF heater 1.	Replace the top heater unit (Refer to the service manual for the paper feeder).
		Defective PF heater PWB or PF main PWB.	Replace the PF heater PWB or PF main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
1630	PF heater 2 low temperature error (paper feeder 2) An external temperature higher than + 5°C/+ 9°F is not detected when one minute elapses after PF heater 2 is turned on.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF heater 2 and PF heater PWB (YC2) PF heater PWB (YC3) and PF main PWB (YC113) PF thermistor 2 and PF main PWB (YC115)
		PF thermistor 2 installed incorrectly.	Check the installation of the PF thermistor 2.
		Defective PF thermistor 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Broken PF heater 2.	Replace the side heater unit (Refer to the service manual for the paper feeder).
		Defective PF heater PWB or PF main PWB.	Replace the PF heater PWB or PF main PWB (Refer to the service manual for the paper feeder).
1800	Paper feeder communication error Communication error between engine PWB and optional paper feeder.	Improper installation paper feeder.	Follow installation instruction carefully again.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF main PWB (YC3) and engine PWB (YC33)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
2100	Developing motor error The developing motor ready input is not given for 5 s during the main motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing motor and engine PWB (YC14)
		Defective drive transmission system of the developing motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective developing motor.	Replace the developing motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
2200	Drum motor error The drum motor ready input is not given for 5 s during the drum motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum motor and engine PWB (YC13)
		Defective drive transmission system of the drum motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor.	Replace the drum motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
2330	Fuser pressure release motor error When the fuser pressure release motor is driven, the motor over-current detection signal is detected continuously for 8 times (800 ms) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser pressure release motor and engine PWB (YC38)
		Defective drive transmission system of the fuser pressure release motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective fuser pressure release motor.	Replace the fuser pressure release motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
2340	Fuser pressure release motor time-out error When the fuser pressure release motor is driven, the envelope switch (EVS) is not detectable for 6 s.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser pressure release motor and engine PWB (YC38)
		Defective drive transmission system of the fuser pressure release motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective fuser pressure release motor.	Replace the fuser pressure release motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
2500	Paper feed motor error The drum motor ready input is not given for 5 s during the paper feed motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Paper feed motor and engine PWB (YC3)
		Defective drive transmission system of the paper feed motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective paper feed motor.	Replace the paper feed motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
2600	PF paper feed motor error (paper feeder 1) The drum motor ready input is not given for 2 s during the PF paper feed motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF paper feed motor and PF main PWB (YC6)
		Defective drive transmission system of the PF paper feed motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective PF paper feed motor.	Replace the PF paper feed motor.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
2610	PF paper feed motor error (paper feeder 2) The drum motor ready input is not given for 2 s during the PF paper feed motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. PF paper feed motor and PF main PWB (YC6)
		Defective drive transmission system of the PF paper feed motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective PF paper feed motor.	Replace the PF paper feed motor.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
2730	Developing release motor error When the developing release motor is driven, the motor over-current detection signal is detected continuously for 8 times (800 ms) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing release motor and engine PWB (YC35)
		Defective drive transmission system of the developing release motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective developing release motor.	Replace the developing release motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
2740	Developing release motor time-out error When the developing release motor is driven, the developing release switch (DEVRSW) is not detectable for 1 s.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing release motor and engine PWB (YC35)
		Defective drive transmission system of the developing release motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective developing release motor.	Replace the developing release motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
2820	Fuser motor error The fuser motor ready input is not given for 5 s during the fuser motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser motor and engine PWB (YC15)
		Defective drive transmission system of the fuser motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective fuser motor.	Replace the fuser motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

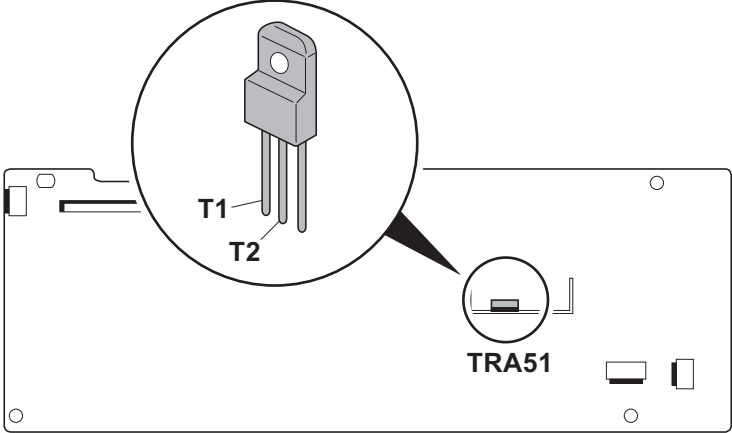
Code	Contents	Causes	Check procedures/ corrective measures
3100	ISU home position error The home position is not correct when the power is turned on or at the start of copying using the table.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Home position sensor and CCD PWB (YC3) CCD PWB (YC1) and main PWB (YC8) ISU motor and main PWB (YC36)
		Defective home position sensor.	Replace the home position sensor.
		Defective ISU motor.	Replace the ISU motor.
		Defective CCD PWB.	Replace the scanner unit (see page 1-5-48).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
3200	Exposure lamp error The exposure lamp does not turn on when power is on. The lamp's lumosity does not stabilize in one minute after power is on. Error is detected while processing lamp feedback in standby.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Exposure lamp and inverter PWB (CN2) Inverter PWB (CN1) and CCD PWB (YC3) CCD PWB (YC1) and main PWB (YC8)
		Defective exposure lamp.	Replace the scanner unit (see page 1-5-48).
		Defective inverter PWB or CCD PWB.	Replace the scanner unit (see page 1-5-48).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).

Code	Contents	Causes	Check procedures/ corrective measures
3500	Communication error between scanner and ASIC An error code is detected.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. CCD PWB (YC1) and main PWB (YC8)
		Defective CCD PWB.	Replace the scanner unit (see page 1-5-48).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
4001	Polygon motor KM error The polygon motor KM ready input is not given for 10 s during the polygon motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Laser scanner unit KM and engine PWB (YC31)
		Defective polygon motor KM.	Replace the laser scanner unit KM (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
4002	Polygon motor CY error The polygon motor CY ready input is not given for 10 s during the polygon motor is ON.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Laser scanner unit CY and engine PWB (YC31)
		Defective polygon motor CY.	Replace the laser scanner unit CY (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
4201	Laser output error (black) The pin photo signal is not output from PD PWB K for one second while laser is emitted.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. APC PWB K and engine PWB (YC31)
		Defective APC PWB K.	Replace the laser scanner unit KM (see page 1-5-45).
		Defective PD PWB K.	Replace the laser scanner unit KM (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
4202	Laser output error (cyan) The pin photo signal is not output from PD PWB C for one second while laser is emitted.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. APC PWB C and engine PWB (YC32)
		Defective APC PWB C.	Replace the laser scanner unit CY (see page 1-5-45).
		Defective PD PWB C.	Replace the laser scanner unit CY (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
4203	Laser output error (magenta) The pin photo signal is not output from PD PWB M for one second while laser is emitted.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. APC PWB M and engine PWB (YC31)
		Defective APC PWB M.	Replace the laser scanner unit KM (see page 1-5-45).
		Defective PD PWB M.	Replace the laser scanner unit KM (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
4204	Laser output error (yellow) The pin photo signal is not output from PD PWB Y for one second while laser is emitted.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. APC PWB Y and engine PWB (YC32)
		Defective APC PWB Y.	Replace the laser scanner unit CY (see page 1-5-45).
		Defective PD PWB Y.	Replace the laser scanner unit CY (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
4600	LSU cleaning motor error When the LSU cleaning motor is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. LSU cleaning motor and engine PWB (YC36)
		Defective drive transmission system of the LSU cleaning motor.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective LSU cleaning motor.	Replace the LSU cleaning motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
4700	VIDEO ASIC device error	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Main PWB (YC39) and relay PWB (YC3) Relay PWB (YC2, 4) and engine PWB (YC8, 9)
		Defective main PWB or engine PWB.	Replace the main PWB or the engine PWB and check for correct operation (see page 1-5-30, 1-5-27).
5301	Broken cleaning lamp K wire When the cleaning lamp K is driven, the lamp over-current detection signal is detected continuously for 10 times (1 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit K and Drum relay PWB (YC2) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective cleaning lamp K.	Replace the drum unit K. (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
5302	Broken cleaning lamp C wire When the cleaning lamp C is driven, the lamp over-current detection signal is detected continuously for 10 times (1 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit C and Drum relay PWB (YC4) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective cleaning lamp C.	Replace the drum unit C. (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
5303	Broken cleaning lamp M wire When the cleaning lamp M is driven, the lamp over-current detection signal is detected continuously for 10 times (1 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit M and Drum relay PWB (YC3) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective cleaning lamp M.	Replace the drum unit M. (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
5304	Broken cleaning lamp Y wire When the cleaning lamp Y is driven, the lamp over-current detection signal is detected continuously for 10 times (1 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit Y and Drum relay PWB (YC5) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective cleaning lamp Y.	Replace the drum unit Y. (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
6000	Broken fuser heater wire The detected temperature of fuser thermistor does not rise 1°C/1.8°F after the fuser heater has been turned on continuously for 10 s in warming up. The fuser temperature does not reach 100°C/212°F after the fuser heater has been turned on continuously for 30 s in warming up. The detected temperature of fuser thermistor does not reach the specified temperature (ready indication temperature) after the fuser heater has been turned on continuously for 60 s in warming up. The detected temperature of fuser thermistor does not rise 1°C/1.8°F after the fuser heater has been turned on continuously for 10 s during printing.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser heater and power source PWB (YC102) Fuser unit and eject PWB (YC3) Eject PWB (YC1) and engine PWB (YC19)
		Deformed connector pin.	See page 1-4-22.
		Defective triac.	See page 1-4-22.
		Fuser thermostat triggered.	Reinsert the fuser unit (see page 1-5-26).
		Broken fuser heater wire.	Replace the fuser unit (see page 1-5-26).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
6020	Abnormally high fuser thermistor temperature The fuser thermistor detects a temperature higher than 240°C/464°F. By the activation of the high temperature error detection circuit (230°C/446°F or more) of fuser thermistor, the illumination of fuser heater was forcibly turned off and 10 s has elapsed.	Deformed connector pin.	See page 1-4-22.
		Defective triac.	See page 1-4-22.
		Shorted fuser thermistor.	Replace the fuser unit (see page 1-5-26).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
6030 Broken fuser thermistor wire Input from fuser thermistor is 3 or less (A/D value) continuously for 1 s.		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser unit and eject PWB (YC3) Eject PWB (YC1) and engine PWB (YC19)
		Deformed connector pin.	See page 1-4-22.
		Defective triac.	See page 1-4-22.
		Broken fuser thermistor wire.	Replace the fuser unit (see page 1-5-26).
		Fuser thermostat triggered.	Reinsert the fuser unit (see page 1-5-26).
		Broken fuser heater wire.	Replace the fuser unit (see page 1-5-26).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
6000/ 6020/ 6030 Combined	Broken fuser heater wire Abnormally high fuser thermistor temperature Broken fuser thermistor wire	Deformed connector pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the connectors.
		Defective triac.	Remove the power cord and check that the resistance between terminals T1 and T2 of the triac TRA51 is of several Mega-Ohms and not shorted (see figure 1-4-4). If failed, replace the power source PWB (see page 1-5-29).
 <p style="text-align: center;">Power source PWB</p> <p style="text-align: center;">Figure 1-4-4</p>			

Code	Contents	Causes	Check procedures/ corrective measures
6400	Zero-cross signal error The zero-cross signal does not reach the engine PWB for more than 1 s.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Power source PWB (YC103) and relay PWB (YC1) Relay PWB (YC4) and engine PWB (YC9)
		Defective power source PWB or engine PWB.	Replace the power source PWB or the engine PWB and check for correct operation (see page 1-5-29, 1-5-27).
7001	Toner motor K error When the toner motor K is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Toner motor K and engine PWB (YC23)
		Defective drive transmission system of the toner motor K.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective toner motor K.	Replace the toner motor K.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7002	Toner motor C error When the toner motor C is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Toner motor C and engine PWB (YC25)
		Defective drive transmission system of the toner motor C.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective toner motor C.	Replace the toner motor C.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7003	Toner motor M error When the toner motor M is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Toner motor M and engine PWB (YC24)
		Defective drive transmission system of the toner motor M.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective toner motor M.	Replace the toner motor M.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
7004	Toner motor Y error When the toner motor Y is driven, the motor over-current detection signal is detected continuously for 50 times (5 s) at 100 ms intervals.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Toner motor Y and engine PWB (YC26)
		Defective drive transmission system of the toner motor Y.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective toner motor Y.	Replace the toner motor Y.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7401	Developing unit K non-installing error No density detection signal is output from toner sensor K in developing unit K.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing unit K and Drum relay PWB (YC6) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective toner sensor K.	Replace the developing unit K (see page 1-5-19).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7402	Developing unit C non-installing error No density detection signal is output from toner sensor C in developing unit C.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing unit C and Drum relay PWB (YC10) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective toner sensor C.	Replace the developing unit C (see page 1-5-19).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7403	Developing unit M non-installing error No density detection signal is output from toner sensor M in developing unit M.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing unit M and Drum relay PWB (YC7) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective toner sensor M.	Replace the developing unit M (see page 1-5-19).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
7404	Developing unit Y non-installing error No density detection signal is output from toner sensor Y in developing unit Y.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developing unit Y and Drum relay PWB (YC13) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective toner sensor Y.	Replace the developing unit Y (see page 1-5-19).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7411	Drum unit K non-installing error The EEPROM of drum PWB K does not communicate normally.	Installation of incompatible drum unit K.	Install drum unit K compatible with the specifications to the machine.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit K and Drum relay PWB (YC2) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective drum PWB K.	Replace the drum unit K (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7412	Drum unit C non-installing error The EEPROM of drum PWB C does not communicate normally.	Installation of incompatible drum unit C.	Install drum unit C compatible with the specifications to the machine.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit C and Drum relay PWB (YC4) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective drum PWB C.	Replace the drum unit C (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Code	Contents	Causes	Check procedures/ corrective measures
7413	Drum unit M non- installing error The EEPROM of drum PWB M does not communicate normally.	Installation of incompatible drum unit M.	Install drum unit M compatible with the specifications to the machine.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit M and Drum relay PWB (YC3) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective drum PWB M.	Replace the drum unit M (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
7414	Drum unit Y non- installing error The EEPROM of drum PWB Y does not communicate normally.	Installation of incompatible drum unit Y.	Install drum unit Y compatible with the specifications to the machine.
		Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Drum unit Y and Drum relay PWB (YC5) Drum relay PWB (YC1) and engine PWB (YC34)
		Defective drum PWB Y.	Replace the drum unit Y (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
9500			Contact the Service Administrative Division.
9510			Contact the Service Administrative Division.
9520			Contact the Service Administrative Division.
9530	Backup data error The serial number of the machine written on the EEPROM of the engine PWB differs with that is written on both the flash memory of the engine PWB and the EEPROM of the drum PWB as a backup.	Replacing both the engine PWB and the drum unit at the same time.	Check that the machine operates properly by reverting the engine controller and the drum unit to the old ones. To replace the engine PWB and the drum unit at the same time, turn on the machine after replacing either one. Check that the machine operates properly and then turn off the machine. Replace the other and turn on the machine to check that the machine operates properly. Be sure to replace one by one.
F000	Main PWB - operation panel PWB communication error	Defective main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
		Defective operation panel PWB.	Replace the operation panel PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
F010	Main PWB checksum error	Defective main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
F020	Main PWB RAM checksum error	Defective main memory (RAM) on the main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
		Defective expanded memory (DIMM).	Replace the expanded memory (DIMM) (see page 1-2-12).
F040	Main PWB - print engine communication error	Defective main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
			Replace the engine PWB and check for correct operation (see page 1-5-27).
F041	Main PWB - scanner engine communication error	Defective main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
F050	Print engine ROM checksum error	Defective engine PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace engine PWB (see page 1-5-27).
F051	Scanner engine ROM checksum error	Defective engine PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace engine PWB (see page 1-5-27).
F278	Power supply in drive system error	Main power switch was turned off without using the power key, or a power failure has occurred.	Turn on power. (To switch off power, first press the power key until the main power indicator goes off, then turn the main power switch off.)

1-4-3 Image formation problems

If the part causing the problem was not supplied, use the unit including the part for replacement.

(1) No image appears (entirely white).



See page 1-4-29

(2) No image appears (entirely black).



See page 1-4-29

(3) A specific color is printed solid.



See page 1-4-30

(4) The back side gets dirty.



See page 1-4-30

(5) Image is too light.



See page 1-4-30

(6) The background is colored.



See page 1-4-31

(7) White streaks are printed vertically.



See page 1-4-31

(8) Black streaks are printed vertically.



See page 1-4-31

(9) Streaks are printed horizontally.



See page 1-4-32

(10) Spots are printed.



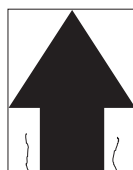
See page 1-4-32

(11) The leading edge of image begins to print too early or too late.



See page 1-4-32

(12) Paper is wrinkled.



See page 1-4-32

(13) Offset occurs.



See page 1-4-33

(14) Part of image is missing.



See page 1-4-33

(15) Fusing is loose.



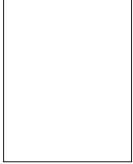
See page 1-4-33

(16) Colors are printed offset to each other.




See page 1-4-34


(1) No image appears (entirely white).

Print example	Causes		Check procedures/corrective measures
	Defective transfer bias output.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. High voltage PWB and engine PWB (YC11)
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
	Defective developing bias output.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. High voltage PWB and engine PWB (YC11)
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
	No LSU laser is output.	Defective laser scanner unit.	Replace the laser scanner unit KM/CY (see page 1-5-45).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).

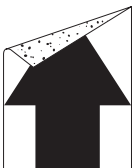
(2) No image appears (entirely black).

Print example	Causes		Check procedures/corrective measures
	No main charging.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. High voltage PWB and engine PWB (YC11)
		Defective charger roller unit.	Replace the drum unit (see page 1-5-21).
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
	Exposure lamp fails to light.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Exposure lamp and inverter PWB (CN2) Inverter PWB (CN1) and CCD PWB (YC3) CCD PWB (YC1) and main PWB (YC8)
		Defective inverter PWB or CCD PWB.	Replace the scanner unit (see page 1-5-48).
		Defective main PWB.	Replace the main PWB (see page 1-5-30).
	The laser is activated simultaneously for all colors.	Defective laser scanner unit.	Replace the laser scanner unit KM/CY (see page 1-5-45).

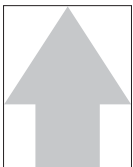
(3) A specific color is printed solid.

Print example	Causes	Check procedures/corrective measures
	Defective charger roller unit which corresponds to the color causing the problem.	Replace the drum unit for the color that causes an error (see page 1-5-21).
	Laser of laser scanner unit for solid color printing is ON. Defective laser scanner unit.	Replace the laser scanner unit KM/CY (see page 1-5-45).

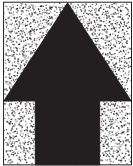
(4) The back side gets dirty.

Print example	Causes	Check procedures/corrective measures
	Dirty secondary transfer roller.	Clean the secondary transfer roller.
	Dirty paper conveying path.	Clean the paper conveying path.
	Dirty heat roller and press roller.	Clean the heat roller and press roller.


(5) Image is too light.

Print example	Causes		Check procedures/corrective measures
	Defective developing bias output.	Defective developing unit.	Replace the developing unit for the color that causes an error (see page 1-5-19).
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
	Defective drum unit.		Decrease the surface potential by performing the main charger adjustment (see page 1-3-87). When the problem is not cleared, replace the drum unit (see page 1-5-21).
	Defective transfer bias output.	Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine (see page 1-5-27).
	Defective color calibration.		Perform the color calibration (Refer to operation guide).
	Insufficient toner.		If the display shows the message requesting toner replenishment, replace the container.
	Insufficient agitation of toner container.		Shake the toner container vertically approximately 10 times.
Paper damp.		Check the paper storage conditions, replace the paper.	

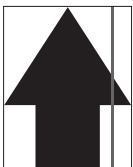
(6) The background is colored.

Print example	Causes		Check procedures/corrective measures
	Defective color calibration.		Perform the color calibration (Refer to operation guide).
	Defective developing bias output.	Defective developing unit.	Replace the developing unit for the color that causes an error (see page 1-5-19).
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).
	Defective drum surface charging.	Defective drum unit.	Replace the drum unit (see page 1-5-21).
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-27).

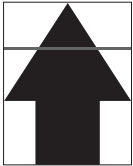
(7) White streaks are printed vertically.

Print example	Causes	Check procedures/corrective measures
	Foreign object in one of the developing units.	Replace the developing unit for the color that causes an error (see page 1-5-19).
	Adhesion of soiling to transfer belt.	Clean the transfer belt. Replace the intermediate transfer unit if it is extremely dirty (see page 1-5-22).
	Adhesion of soiling to transfer roller.	Clean the transfer roller. Replace the transfer roller if it is extremely dirty (see page 1-5-25).
	Dirty LSU dust shield glass.	Perform the LSU dust shield glass cleaning.


(8) Black streaks are printed vertically.

Print example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty slit glass.	Clean the slit glass.
	Dirty or flawed drum.	Perform the drum surface refreshing (see page 1-3-86). Flawed drum. Replace the drum unit (see page 1-5-21).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-21).
	Worn primary transfer belt.	Replace the intermediate transfer unit (see page 1-5-22).
	Defective transfer roller.	Replace the transfer roller (see page 1-5-25).

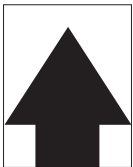
(9) Streaks are printed horizontally.

Print example	Causes	Check procedures/corrective measures
	Dirty or flawed drum.	Perform the drum surface refreshing (see page 1-3-86). Flawed drum. Replace the drum unit (see page 1-5-21).
	Dirty developing section.	Clean any part contaminated with toner in the developing section.
	Poor contact of grounding terminal of drum unit.	Check the installation of the drum unit. If it operates incorrectly, replace it (see page 1-5-21).

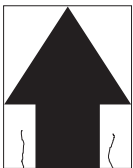
(10) Spots are printed.

Print example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty or flawed drum.	Perform the drum surface refreshing (see page 1-3-86). Flawed drum. Replace the drum unit (see page 1-5-21).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-21).
	Flawed developing roller.	Replace the developing unit (see page 1-5-19).
	Dirty heat roller and press roller.	Clean the heat roller and press roller.

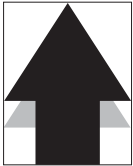
(11) The leading edge of image begins to print too early or too late.

Print example	Causes	Check procedures/corrective measures
	Paper feed clutch or registration clutch operating incorrectly.	Check the installation of the clutch. If it operates incorrectly, replace it.


(12) Paper is wrinkled.

Print example	Causes	Check procedures/corrective measures
	Paper curled.	Check the paper storage conditions.
	Paper damp.	Check the paper storage conditions.

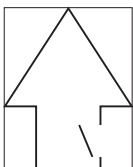
(13) Offset occurs.

Print example	Causes	Check procedures/corrective measures
	Defective drum surface charging.	Perform the drum surface refreshing (see page 1-3-86). When the problem is not cleared, increase the surface potential by performing the main charger adjustment (see page 1-3-87).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-21).
	Defective transfer belt cleaning.	Replace the intermediate transfer unit (see page 1-5-22).
	Defective fuser unit.	Replace the fuser unit (see page 1-5-26).
	Wrong types of paper.	Check if the paper meets specifications. Replace paper.

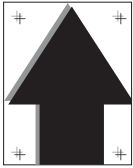
(14) Part of image is missing.

Print example	Causes	Check procedures/corrective measures
	Paper damp.	Check the paper storage conditions.
	Paper creased.	Replace the paper.
	Drum condensation.	Perform the drum surface refreshing (see page 1-3-86).
	Dirty or flawed drum.	Perform the drum surface refreshing (see page 1-3-86). Flawed drum. Replace the drum unit (see page 1-5-21).
	Dirty transfer belt.	Clean the transfer belt. Replace the intermediate transfer unit if it is extremely dirty (see page 1-5-22).
	Dirty transfer roller.	Clean the transfer roller. Replace the transfer roller if it is extremely dirty (see page 1-5-25).

(15) Fusing is loose.

Print example	Causes	Check procedures/corrective measures
	Wrong types of paper.	Check if the paper meets specifications, replace paper.
	Flawed heat roller or press roller.	Replace the fuser unit (see page 1-5-26).

(16) Colors are printed offset to each other.

Print example	Causes	Check procedures/corrective measures
	Defective color calibration.	Perform the color calibration (refer to operation guide).
	Slip the mirror position of laser scanner unit.	Perform the normal color registration. When the problem is not cleared, perform the detail color registration adjustment (refer to operation guide).

1-4-4 Electric problems

If the part causing the problem was not supplied, use the unit including the part for replacement. Troubleshooting to each failure must be in the order of the numbered symptoms.

Problem	Causes	Check procedures/corrective measures
(1) The machine does not operate when the main power switch is turned on.	1. No electricity at the power outlet.	Measure the input voltage.
	2. The power cord is not plugged in properly.	Check the contact between the power plug and the outlet.
	3. The top tray is not closed completely.	Check the top tray.
	4. Broken power cord.	Check for continuity. If none, replace the cord.
	5. Defective main power switch.	Check for continuity across the contacts. If none, replace the power source PWB (see page 1-5-29).
	6. Defective interlock switch.	Check for continuity across the contacts of interlock switch. If none, replace the power source PWB (see page 1-5-29).
	7. Defective power source PWB.	Replace the power source PWB (see page 1-5-29).
(2) Duplex motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Duplex motor and engine PWB (YC37)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the duplex motor.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(3) Right fan motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Right fan motor and main PWB (YC42)
	2. Defective motor.	Replace the right fan motor.
	3. Defective PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
(4) Left fan motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Left fan motor and engine PWB (YC29)
	2. Defective motor.	Replace the left fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Problem	Causes	Check procedures/corrective measures
(5) Controller fan motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Controller fan motor and main PWB (YC41)
	2. Defective motor.	Replace the controller fan motor.
	3. Defective PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
(6) Fuser fan motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser fan motor and engine PWB (YC40)
	2. Defective motor.	Replace the fuser fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(7) Container fan motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Container fan motor and engine PWB (YC28)
	2. Defective motor.	Replace the container fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(8) ISU motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. ISU motor and main PWB (YC36)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the ISU motor.
	4. Defective PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
(9) Paper feed clutch does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Paper feed clutch and engine PWB (YC3)
	2. Defective clutch.	Replace the paper feed clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(10) MP feed clutch does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. MP feed clutch and engine PWB (YC3)
	2. Defective clutch.	Replace the MP feed clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Problem	Causes	Check procedures/corrective measures
(11) Registration clutch does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Registration clutch and engine PWB (YC3)
	2. Defective clutch.	Replace the registration clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(12) Middle clutch does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Middle clutch and engine PWB (YC3)
	2. Defective clutch.	Replace the middle clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(13) MP solenoid does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. MP solenoid and engine PWB (YC4)
	2. Defective solenoid.	Replace the MP solenoid.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(14) The message requesting paper to be loaded is shown when paper is present on the cassette.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Cassette PWB (YC1) and engine PWB (YC21)
	2. Deformed actuator of the paper sensor.	Check visually and replace if necessary.
	3. Defective paper sensor.	Replace the cassette PWB.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(15) The message requesting paper to be loaded is shown when paper is present on the MP tray.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. MP paper sensor and engine PWB (YC16)
	2. Deformed actuator of the MP paper sensor.	Check visually and replace if necessary.
	3. Defective MP paper sensor.	Replace the MP paper sensor.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).
(16) The size of paper on the cassette is not displayed correctly.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Cassette size switch and engine PWB (YC17)
	2. Defective cassette size switch.	Replace the cassette size switch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-27).

Problem	Causes	Check procedures/corrective measures
(17) A paper jam in the paper feed, paper conveying or eject section is indicated when the main power switch is turned on.	1. A piece of paper torn from paper is caught around registration sensor, MP paper conveying sensor or eject sensor.	Check visually and remove it, if any.
	2. Defective registration sensor.	Replace the registration sensor.
	3. Defective MP paper conveying sensor.	Replace the MP paper conveying sensor.
	4. Defective eject sensor.	Replace the eject PWB.
(18) A message indicating cover open is displayed when the top tray or rear cover is closed.	1. Deformed actuator of the interlock switch.	Check visually and replace if necessary.
	2. Defective interlock switch.	Replace the interlock switch.
(19) DP paper feed motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP paper feed motor and DP drive PWB (YC3) DP drive PWB (YC1) and main PWB (YC32)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DP paper feed motor.
	4. Defective PWB.	Replace the DP drive PWB or main PWB and check for correct operation (see page 1-5-87, 1-5-30).
(20) DP paper feed clutch does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP paper feed clutch and DP drive PWB (YC6) DP drive PWB (YC8) and main PWB (YC32)
	2. Defective clutch.	Replace the DP paper feed clutch.
	3. Defective PWB.	Replace the DP drive PWB or main PWB and check for correct operation (see page 1-5-87, 1-5-30).
(21) DP pressure solenoid does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP pressure solenoid and DP drive PWB (YC4) DP drive PWB (YC8) and main PWB (YC32)
	2. Defective solenoid.	Replace the DP pressure solenoid.
	3. Defective PWB.	Replace the DP drive PWB or main PWB and check for correct operation (see page 1-5-87, 1-5-30).

Problem	Causes	Check procedures/corrective measures
(22) DP switchback solenoid does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP switchback solenoid and DP drive PWB (YC5) DP drive PWB (YC8) and main PWB (YC32)
	2. Defective solenoid.	Replace the DP switchback solenoid.
	3. Defective PWB.	Replace the DP drive PWB or main PWB and check for correct operation (see page 1-5-87, 1-5-30).
(23) An original jams when the main power switch is turned on.	1. A piece of paper torn from an original is caught around the DP timing sensor.	Check visually and remove it, if any.
	2. Defective DP timing sensor.	Replace the DP timing sensor.
(24) A message indicating cover open is displayed when the DP top cover is closed.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP open/close sensor and DP drive PWB (YC2) DP drive PWB (YC8) and main PWB (YC32)
	2. Defective DP open/close sensor.	Replace the DP open/close sensor.

1-4-5 Mechanical problems

If the part causing the problem was not supplied, use the unit including the part for replacement.

Problem	Causes/check procedures	Corrective measures
(1) No primary paper feed.	Check if the surfaces of the following rollers are dirty with paper powder. Pickup roller Paper feed roller MP paper feed roller	Clean with isopropyl alcohol.
	Check if the following rollers is deformed. Pickup roller Paper feed roller MP paper feed roller	Check visually and replace any deformed (see page 1-5-15, 1-5-17).
	Defective paper feed clutch installation.	Check visually and remedy if necessary.
(2) No secondary paper feed.	Check if the surfaces of the following rollers are dirty with paper powder. Front registration roller Rear registration roller	Clean with isopropyl alcohol.
	Defective registration clutch installation.	Check visually and remedy if necessary.
(3) Skewed paper feed.	Paper width guide in a cassette installed incorrectly.	Check the paper width guide visually and remedy or replace if necessary.
(4) Multiple sheets of paper are fed.	Check if the paper is excessively curled.	Change the paper.
	Paper is loaded incorrectly.	Load the paper correctly.
	Check if the retard roller is worn.	Replace the retard roller if it is worn (see page 1-5-13).
(5) Paper jams.	Check if the paper is excessively curled.	Change the paper.
	Check if the contact between the front and rear registration rollers is correct.	Check visually and remedy if necessary.
	Check if the heat roller or press roller is extremely dirty or deformed.	Check visually and replace the fuser unit (see page 1-5-26).
(6) Abnormal noise is heard.	Check if the rollers, pulleys and gears operate smoothly.	Grease the bushes and gears.
	Check if the following clutches are installed correctly. Paper feed clutch MP feed clutch Registration clutch Middle clutch	Check visually and remedy if necessary.
	Check if the following fan motors are installed correctly. Left fan motor Right fan motor Controller fan motor Fuser fan motor Container fan motor	Check visually and remedy if necessary.

Problem	Causes/check procedures	Corrective measures
(7) No primary original feed.	Check if the surfaces of the following pulleys are dirty with paper powder. DP forwarding pulley DP feed pulley	Clean with isopropyl alcohol.
	Check if the following pulleys is deformed. DP forwarding pulley DP feed pulley	Check visually and replace any deformed (see page 1-5-82).
(8) Multiple sheets of original are fed.	Original is not correctly set.	Set the original correctly.
	Check if the DP separation pad is worn.	Replace the DP separation pad if it is worn (see page 1-5-86).
(9) Originals jam.	Originals outside the specifications are used.	Use only originals conforming to the specifications.
	Check if the surfaces of the following pulleys are dirty with paper powder. DP forwarding pulley DP feed pulley	Clean with isopropyl alcohol.
	Check if the contact between the conveying roller and conveying pulley is correct.	Check visually and remedy if necessary.
	Check if the contact between the eject roller and eject pulley is correct.	Check visually and remedy if necessary.
	Check if the contact between the switchback roller and switchback pulley is correct.	Check visually and remedy if necessary.

1-4-6 Send error code

This section describes the scanning errors and descriptions, preventive actions, as well as corrective actions. Error codes not described here could fall within software errors.

If such an error is encountered, turn power off then on, and advise the service representative.

(1) Scan to SMB error codes

Code	Contents	Check procedures/corrective measures
1101	Host destined does not exist on the network.	<ol style="list-style-type: none"> 1. Confirm destined host. 2. Confirm device's network parameters. 3. Confirm the network parameters the device is connected.
1102	Login to the host has failed.	<ol style="list-style-type: none"> 1. Confirm user name and password. 2. Confirm the network parameters the device is connected. 3. Check the host if the folder is properly shared.
1103	Destined host, folder, and/or file names are invalid.	<ol style="list-style-type: none"> 1. Check illegal characters are not contained within these names. 2. Check the name of the folder and files conform with the naming syntax. 3. Confirm destined host and folder.
1105	SMB protocol is not enabled.	<ol style="list-style-type: none"> 1. Confirm device's SMB protocols.
2101	Login to the host has failed.	<ol style="list-style-type: none"> 1. Confirm destined host. 2. Confirm that the LAN cable is properly connected to the device. 3. Check the SMB port number. 4. Confirm device's network parameters. 5. Confirm the network parameters the device is connected.
2201	Writing scanned data has failed.	<ol style="list-style-type: none"> 1. Check the scanning file name. 2. Confirm device's network parameters. 3. Confirm the network parameters the device is connected.

(2) Scan to FTP error codes

Code	Contents	Check procedures/corrective measures
1101	FTP server does not exist on the network.	<ol style="list-style-type: none"> 1. Check the FTP server name. 2. Confirm device's network parameters. 3. Confirm the network parameters the device is connected.
1102	Login to the FTP server has failed.	<ol style="list-style-type: none"> 1. Confirm user name and password. 2. Check the FTP server name.
1103	Destined folder is invalid.	<ol style="list-style-type: none"> 1. Check illegal characters are not contained within these names. 2. Check the FTP server name.
1105	FTP protocol is not enabled.	<ol style="list-style-type: none"> 1. Confirm device's FTP protocols.
1131	Initializing TLS has failed.	<ol style="list-style-type: none"> 1. Confirm device's security parameters.
1132	TLS negotiation has failed.	<ol style="list-style-type: none"> 1. Confirm device's security parameters. 2. Check the FTP server name.
2101	Access to the FTP server has failed.	<ol style="list-style-type: none"> 1. Check the FTP server name. 2. Confirm that the LAN cable is properly connected to the device. 3. Check the FTP port number. 4. Confirm device's network parameters. 5. Confirm the network parameters the device is connected. 6. Check the FTP server name.
2102	Access to the FTP server has failed. (Connection timeout)	<ol style="list-style-type: none"> 1. Check the FTP server name. 2. Check the FTP port number. 3. Confirm device's network parameters. 4. Confirm the network parameters the device is connected. 5. Check the FTP server name.
2201	Connection with the FTP server has failed.	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected. 3. Confirm destined folder. 4. Check the FTP server name.
2202	Connection with the FTP server has failed. (Timeout)	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected.
2231	Connection with the FTP server has failed. (FTPS communication)	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected.
3101	FTP server responded with an error.	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected. 3. Check the FTP server.

(3) Scan to E-mail error codes

Code	Contents	Check procedures/corrective measures
1101	SMTP/POP3 server does not exist on the network.	<ol style="list-style-type: none"> 1. Check the SMTP/POP3 server name. 2. Confirm device's network parameters. 3. Confirm the network parameters the device is connected.
1102	Login to the SMTP/POP3 server has failed.	<ol style="list-style-type: none"> 1. Confirm user name and password. 2. Check the SMTP/POP3 server.
1104	The domain the destined address belongs to is prohibited by scanning restriction.	<ol style="list-style-type: none"> 1. Confirm device's SMTP parameters.
1105	SMTP protocol is not enabled.	<ol style="list-style-type: none"> 1. Confirm device's SMTP protocols.
1106	Sender's address is not specified.	<ol style="list-style-type: none"> 1. Confirm device's SMTP protocols.
2101	Connection to the SMTP/POP3 server has failed.	<ol style="list-style-type: none"> 1. Check the SMTP/POP3 server name. 2. Confirm that the LAN cable is properly connected to the device. 3. Check the SMTP/POP3 port number. 4. Confirm device's network parameters. 5. Confirm the network parameters the device is connected. 6. Check the SMTP/POP3 server.
2102	Connection to the SMTP/POP3 server has failed. (Connection timeout)	<ol style="list-style-type: none"> 1. Check the SMTP/POP3 server name. 2. Check the SMTP/POP3 port number. 3. Confirm device's network parameters. 4. Confirm the network parameters the device is connected. 5. Check the SMTP/POP3 server.
2201	Connection to the SMTP/POP3 server has failed.	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected.
2202	Connection to the SMTP/POP3 server has failed. (Timeout)	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected.
2204	The size of scanning exceeded its limit.	<ol style="list-style-type: none"> 1. Confirm device's network parameters.
3101	SMTP/POP3 server responded with an error.	<ol style="list-style-type: none"> 1. Confirm device's network parameters. 2. Confirm the network parameters the device is connected. 3. Check the SMTP/POP3 server.
3201	No SMTP authentication is found.	<ol style="list-style-type: none"> 1. Check the SMTP server. The device supports SMTP authentication services including CRAM-MD5, DIGEST-MD5, PLAIN and LOGIN.

1-4-7 Error codes

(1) Error code

Error codes are listed on the communication reports, activity report, etc. The codes consist of an error code indication U followed by a 5-digit number. (Error codes for V34 communication errors start with an E indication, followed by five digits.)

The upper three of the five digits indicate general classification of the error and its cause, while the lower two indicate the detailed classification. Items for which detailed classification is not necessary have 00 as the last two digits.

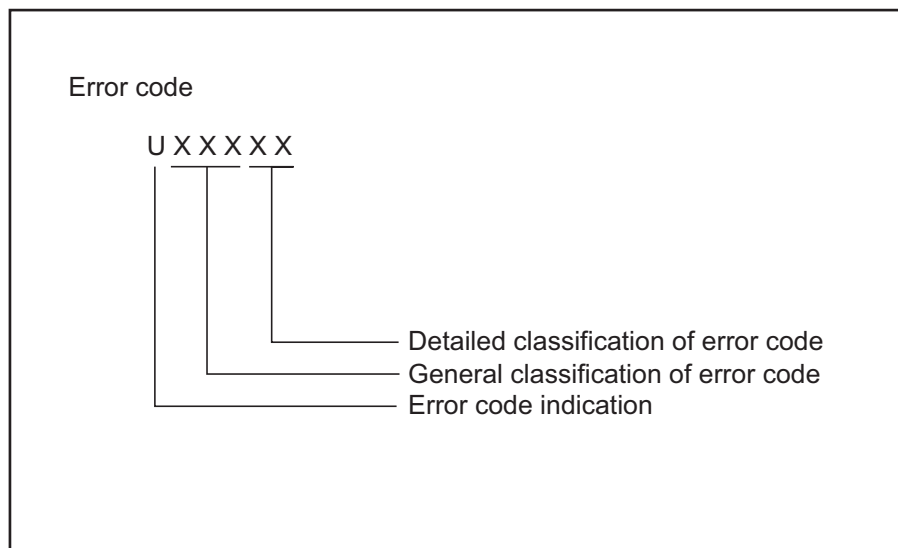


Figure 1-4-5

(2) Table of general classification

Error code	Description
U00000	No response or busy after the set number of redials.
U00100	Transmission was interrupted by a press of the stop/clear key.
U00200	Reception was interrupted by a press of the stop/clear key.
U00300	Recording paper on the destination unit has run out during transmission.
U004XX	A connection was made but interrupted during handshake with the receiver unit (refer to 1-4-48 U004XX error code table).
U006XX	Communication was interrupted because of a machine problem (refer to 1-4-48 U006XX error code table).
U00700	Communication was interrupted because of a problem in the destination unit.
U008XX	A page transmission error occurred in G3 mode (refer to 1-4-48 U008XX error code table).
U009XX	A page reception error occurred in G3 mode (refer to 1-4-48 U009XX error code table).
U010XX	Transmission in G3 mode was interrupted by a signal error (refer to 1-4-49 U010XX error code table).
U011XX	Reception in G3 mode was interrupted by a signal error (refer to 1-4-50 U011XX error code table).
U01400	An invalid one-touch key was specified during communication.
U01500	A communication error occurred when calling in V.8 mode.
U01600	A communication error occurred when called in V.8 mode.
U017XX	A communication error occurred before starting T.30 protocol during transmission in V.34 mode (refer to 1-4-51 U017XX error code table).
U018XX	A communication error occurred before starting T.30 protocol during reception in V.34 mode (refer to 1-4-51 U018XX error code table).
U03000	No document was present in the destination unit when polling reception started.
U03200	In interoffice subaddress-based bulletin board reception, data was not stored in the box specified by the destination unit.
U03300	In polling reception from a unit of our make, operation was interrupted due to a mismatch in permit ID or telephone number. Or, in interoffice subaddress-based bulletin board reception, operation was interrupted due to a mismatch in permit ID or telephone number.
U03400	Polling reception was interrupted because of a mismatch in individual numbers (destination unit is either of our make or by another manufacturer).
U03500	In interoffice subaddress-based bulletin board reception, the specified Subaddress confidential box number was not registered in the destination unit.
U03600	An interoffice subaddress-based bulletin board reception was interrupted because of a mismatch in the specified subaddress confidential box number.
U03700	Interoffice subaddress-based bulletin board reception failed because the destination unit had no subaddress-based bulletin board transmission capability, or data was not stored in any subaddress confidential box in the destination unit.
U04000	In interoffice subaddress-based transmission mode, the specified subaddress box number was not registered in the destination unit.

Error code	Description
U04100	Subaddress-based transmission failed because the destination unit had no subaddress-based reception capability.
U04200	In encrypted transmission, the specified encryption box was not registered in the destination unit.
U04300	Encrypted transmission failed because the destination unit had no encrypted communication capability.
U04400	Encrypted transmission was interrupted because encryption keys did not agree.
U04500	Encrypted reception was interrupted because of a mismatch in encryption keys.
U05100	Password check transmission or restricted transmission was interrupted because the permit ID's did not agree with.
U05200	Password check reception or restricted reception was interrupted because the permit ID's did not match, the rejected FAX number's did match, or the destination receiver did not return its phone number.
U05300	The password check reception or the restricted reception was interrupted because the permitted numbers did not match, the rejected numbers did match, or the machine in question did not acknowledge its phone number.
U14000	Memory overflowed during confidential reception. Or, in subaddress-based confidential reception, memory overflowed.
U14100	In interoffice subaddress-based transmission, memory overflowed in the destination unit.
U19000	Memory overflowed during memory reception.
U19100	Memory overflowed in the destination unit during transmission.
U19300	Transmission failed because an error occurred during JBIG encoding.

(2-1) U004XX error code table: Interrupted phase B

Error code	Description
U00430	Polling request was received but interrupted because of a mismatch in permit number. Or, subaddress-based bulletin board transmission request was received but interrupted because of a mismatch in permit ID in the transmitting unit.
U00431	An subaddress-based bulletin board transmission was interrupted because the specified subaddress confidential box was not registered.
U00432	An subaddress-based bulletin board transmission was interrupted because of a mismatch in Subaddress confidential box numbers.
U00433	Subaddress-based bulletin board transmission request was received but data was not present in the subaddress confidential box.
U00440	Subaddress-based confidential reception was interrupted because the specified subaddress box was not registered.
U00450	The destination transmitter disconnected because the permit ID's did not agree with while the destination transmitter is in password-check transmission or restricted transmission.
U00460	Encrypted reception was interrupted because the specified encryption box number was not registered.
U00462	Encrypted reception was interrupted because the encryption key for the specified encryption box was not registered.

(2-2) U006XX error code table: Problems with the unit

Error code	Description
U00601	Document jam or the document length exceeds the maximum.
U00613	Image writing section problem
U00656	Data was not transmitted to a modem error.
U00690	System error.

(2-3) U008XX error code table: Page transmission error

Error code	Description
U00800	A page transmission error occurred because of reception of a RTN or PIN signal.
U00811	A page transmission error reoccurred after retry of transmission in the ECM mode.

(2-4) U009XX error code table: Page reception error

Error code	Description
U00900	An RTN or PIN signal was transmitted because of a page reception error.
U00910	A page reception error remained after retry of transmission in the ECM mode.

(2-5) U010XX error code table: G3 transmission

Error code	Description
U01000	An FTT signal was received for a set number of times after TCF signal transmission at 2400 bps. Or, an RTN signal was received in response to a Q signal (excluding EOP) after transmission at 2400 bps.
U01001	Function of the unit differs from that indicated by a DIS signal.
U01016	An MCF signal was received but no DIS signal was received after transmission of an EOM signal, and T1 timeout was detected.
U01019	No relevant signal was received after transmission of a CNC signal, and the preset number of command retransfers was exceeded (between units of our make).
U01020	No relevant signal was received after transmission of a CTC signal, and the preset number of command retransfers was exceeded (ECM).
U01021	No relevant signal was received after transmission of an EOR.Q signal, and the preset number of command retransfers was exceeded (ECM).
U01022	No relevant signal was received after transmission of an RR signal, and the preset number of command retransfers was exceeded (ECM).
U01028	T5 time-out was detected during ECM transmission (ECM).
U01052	A DCN signal was received after transmission of an RR signal (ECM).
U01080	A PIP signal was received after transmission of a PPS.NULL signal.
U01092	During transmission in V.34 mode, communication was interrupted because of an impossible combination of the symbol speed and communication speed.
U01093	A DCN or other inappropriate signal was received during phase B of transmission.
U01094	The preset number of command retransfers for DCS/NSS signals was exceeded during phase B of transmission.
U01095	No relevant signal was received after transmission of a PPS (Q) signal during phase D of transmission, and the preset number of command transfers was exceeded.
U01096	A DCN signal or invalid command was received during phase D of transmission.
U01097	The preset number of command retransfers was exceeded after transmission of an RR signal or no response.

(2-6) U011XX error code table: G3 reception

Error code	Description
U01100	Function of the unit differs from that indicated by a DCS signal.
U01101	Function of the unit (excl. communication mode select) differs from that indicated by an NSS signal.
U01102	A DTC (NSC) signal was received when no transmission data was in the unit.
U01110	No response after transmission of a DIS signal.
U01111	No response after transmission of a DTC (NSC) signal.
U01113	No response after transmission of an FTT signal.
U01125	No response after transmission of a CNS signal (between units of our make).
U01129	No response after transmission of an SPA signal (short protocol).
U01141	A DCN signal was received after transmission of a DTC signal.
U01143	A DCN signal was received after transmission of an FTT signal.
U01155	A DCN signal was received after transmission of an SPA signal (short protocol).
U01160	During message reception, transmission time exceeded the maximum transmission time per line.
U01162	Reception was aborted due to a modem malfunction during message reception.
U01191	Communication was interrupted because an error occurred during an image data reception sequence in the V.34 mode.
U01193	There was no response, or a DCN signal or invalid command was received, during phase C/D of reception.
U01194	A DCN signal was received during phase B of reception.
U01195	No message was received during phase C of reception.
U01196	Error line control was exceeded and a decoding error occurred for the message being received.

(2-7) U017XX error code table: V.34 transmission

Error code	Description
U01700	A communication error occurred in phase 2 (line probing).
U01720	A communication error occurred in phase 4 (modem parameter exchange).
U01721	Operation was interrupted due to the absence of a common communication speed between units.

U01700: A communication error that occurs at the transmitting unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/A/Abar (B/Bbar, for polling transmission)/INFOh was not detected.

U01720: A communication error that occurs at the transmitting unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.

U01721: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange; 1) a DCN signal was received from the destination unit, and the line was cut; or 2) a DIS (NSF, CSI) signal was received from the destination unit and, in response to the signal, the unit transmitted a DCN signal, and the line was cut.

(2-8) U018XX error code table: V.34 reception

Error code	Description
U01800	A communication error occurred in phase 2 (line probing).
U01810	A communication error occurred in phase 3 (primary channel equivalent device training).
U01820	A communication error occurred in phase 4 (modem parameter exchange).
U01821	Operation was interrupted due to the absence of a common communication speed between units.

U01800: A communication error that occurs at the receiver unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/B/Bbar (A/Abar, for polling reception)/probing tone was not detected.

U01810: A communication error that occurs at the receiver unit in phase 3 (primary channel equivalent device training). For example, S/Sbar/PP/TRN was not detected.

U01820: A communication error that occurs at the receiver unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.

U01821: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange, a DCN signal was transmitted to the destination unit and the line was cut.

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1-5-1 Precautions for assembly and disassembly

(1) Precautions

Before starting disassembly, press the Power key on the operation panel to off. Make sure that the Power lamp is off before turning off the main power switch. And then unplug the power cable from the wall outlet.

When the fax kit is installed, be sure to disconnect the modular code before starting disassembly.

When handling PWBs (printed wiring boards), do not touch parts with bare hands.

The PWBs are susceptible to static charge.

Do not touch any PWB containing ICs with bare hands or any object prone to static charge.

When removing the hook of the connector, be sure to release the hook.

Take care not to get the cables caught.

To reassemble the parts, use the original screws. If the types and the sizes of screws are not known, refer to the PARTS LIST.

(2) Drum

Note the following when handling or storing the drum.

When removing the drum unit, never expose the drum surface to strong direct light.

Keep the drum at an ambient temperature between -20°C/-4°F and 40°C/104°F and at a relative humidity not higher than 85% RH. Avoid abrupt changes in temperature and humidity.

Avoid exposure to any substance which is harmful to or may affect the quality of the drum.

Do not touch the drum surface with any object. Should it be touched by hands or stained with oil, clean it.

(3) Toner

Store the toner container in a cool, dark place.

Avoid direct light and high humidity.

(4) How to tell a genuine Kyocera Mita toner container

As a means of brand protection, the Kyocera Mita toner container utilizes an optical security technology to enable visual validation. A validation viewer is required to accomplish this.

Hold the validation viewer over the left side part of the brand protection seal on the toner container. Through each window of the validation viewer, the left side part of the seal should be seen as follows:

A black-colored band when seen through the left side window (●)

A shiny or gold-colored band when seen through the right side window (☀)

The above will reveal that the toner container is a genuine Kyocera Mita branded toner container, otherwise, it is a counterfeit.

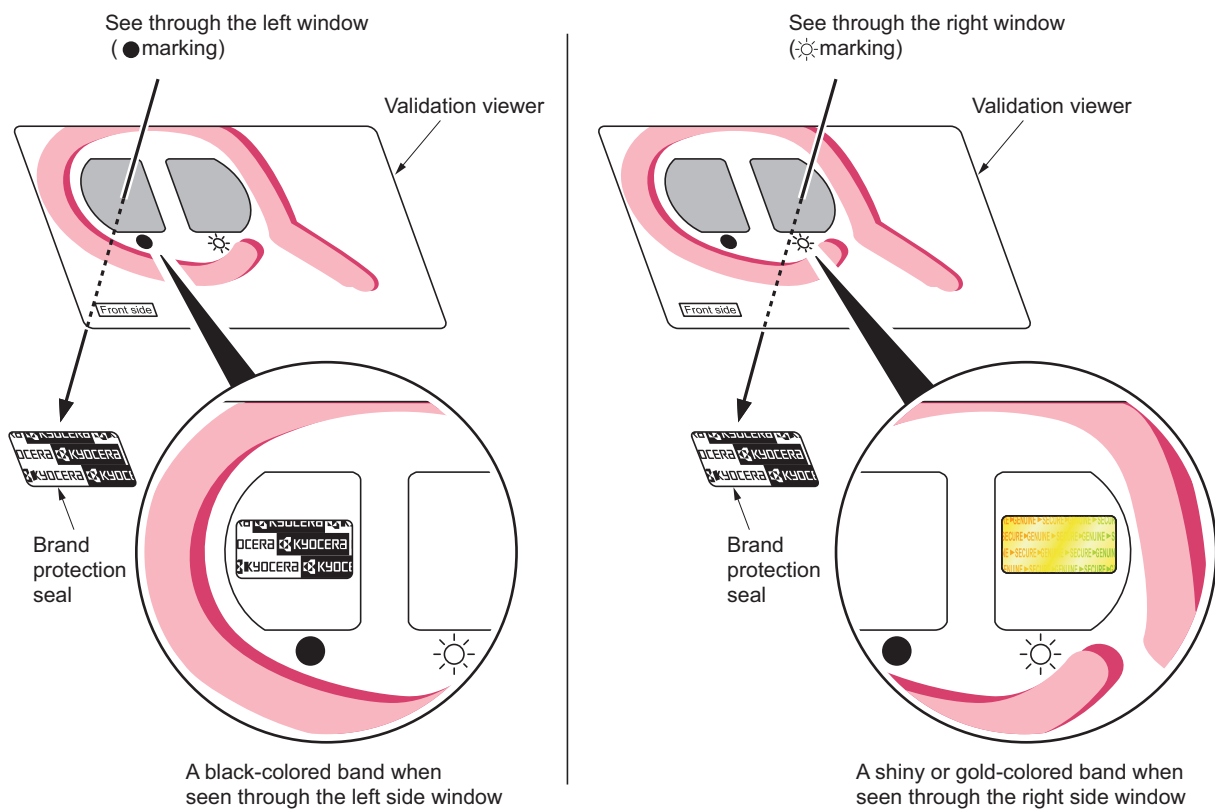


Figure 1-5-1

The brand protection seal has an incision as shown below to prohibit reuse.

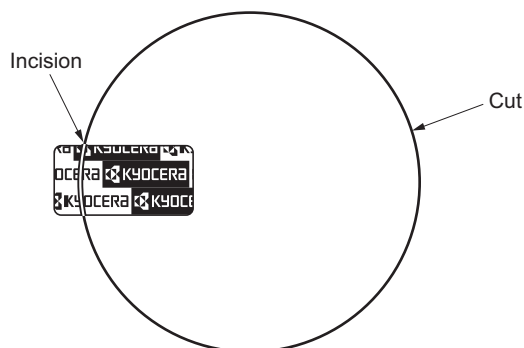


Figure 1-5-2

1-5-2 Outer covers

(1) Detaching and refitting the rear upper cover, right upper cover, left upper cover and front cover

Procedure

1. Open the paper conveying unit.
2. Release the hook and then remove the IF cover.

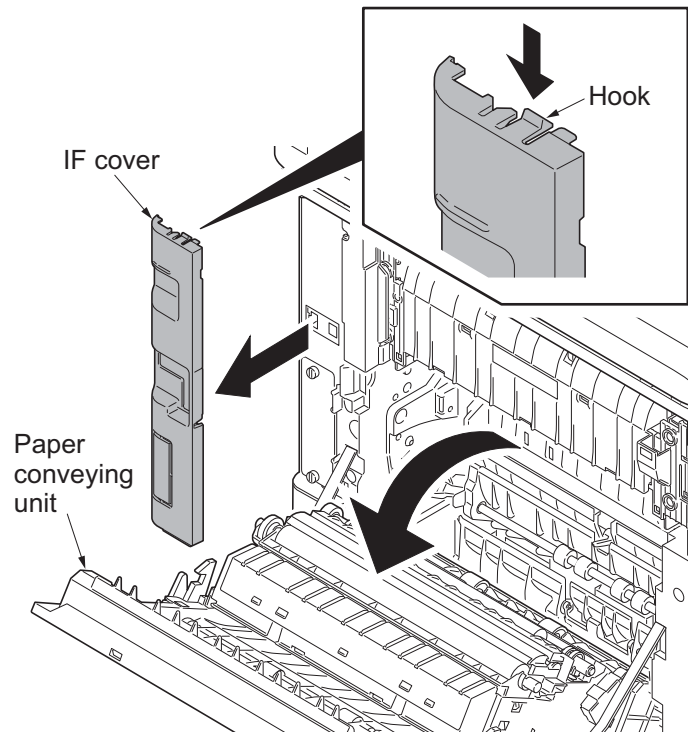


Figure 1-5-3

3. Remove two screws and then remove the rear upper cover.

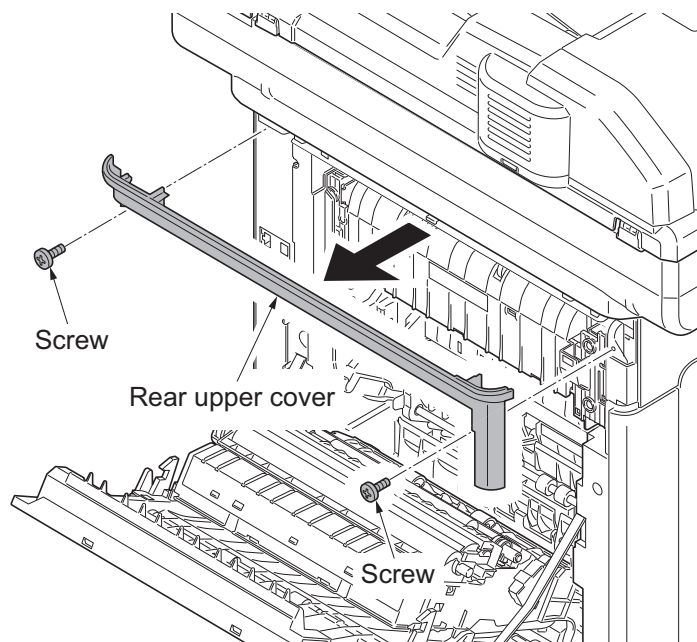


Figure 1-5-4

4. Pull the top tray lever and open the top tray.
5. Release two hooks. Slide the right upper cover backward and then remove it.

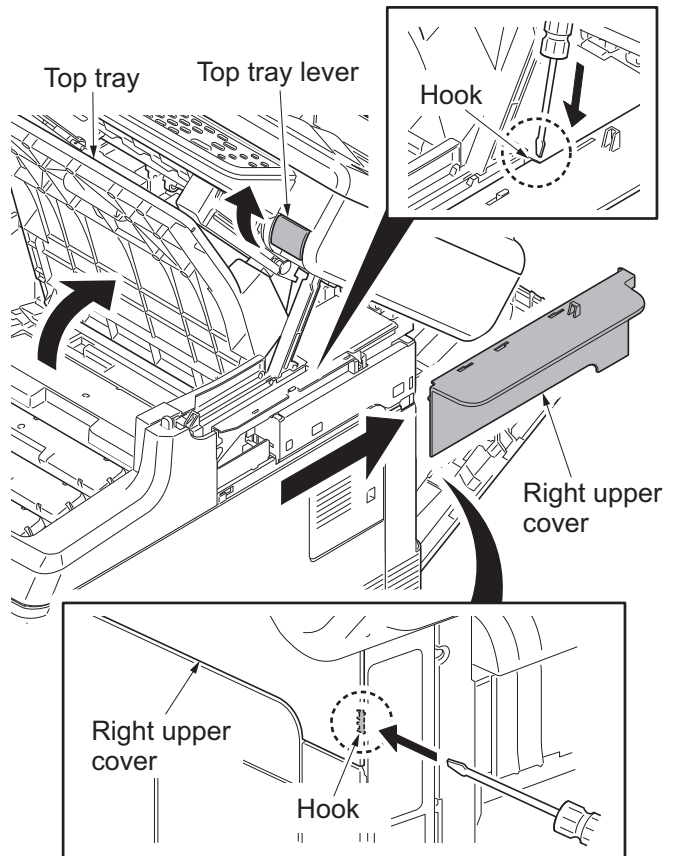


Figure 1-5-5

6. Release the hook. Slide the left upper cover backward and then remove it.

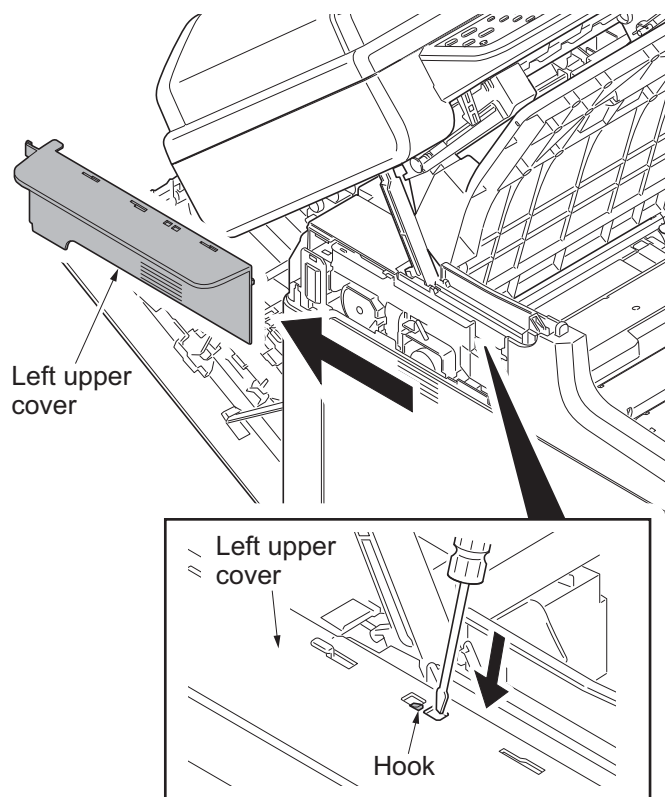


Figure 1-5-6

7. Release five hooks (hook A → B) and then remove the front cover.

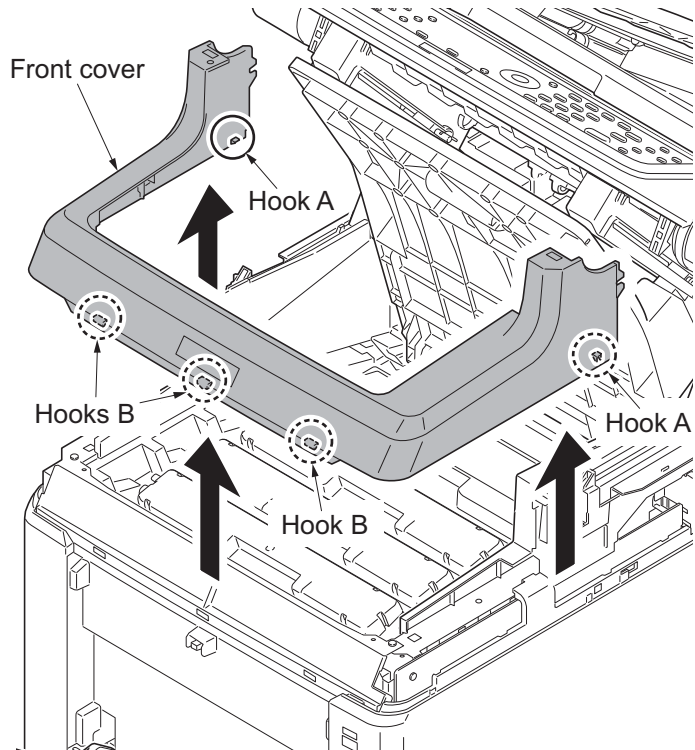


Figure 1-5-7

(2) Detaching and refitting the right rear cover, right cover and right lower cover

Procedure

1. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
2. Slide the power source cover backward and then remove it.

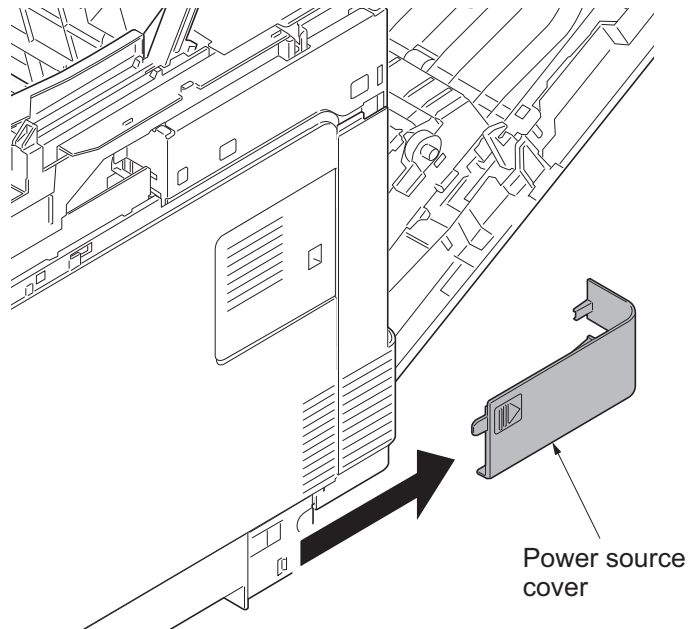


Figure 1-5-8

3. Remove the screw.
4. Release four hooks. Slide the right rear cover backward and then remove it.

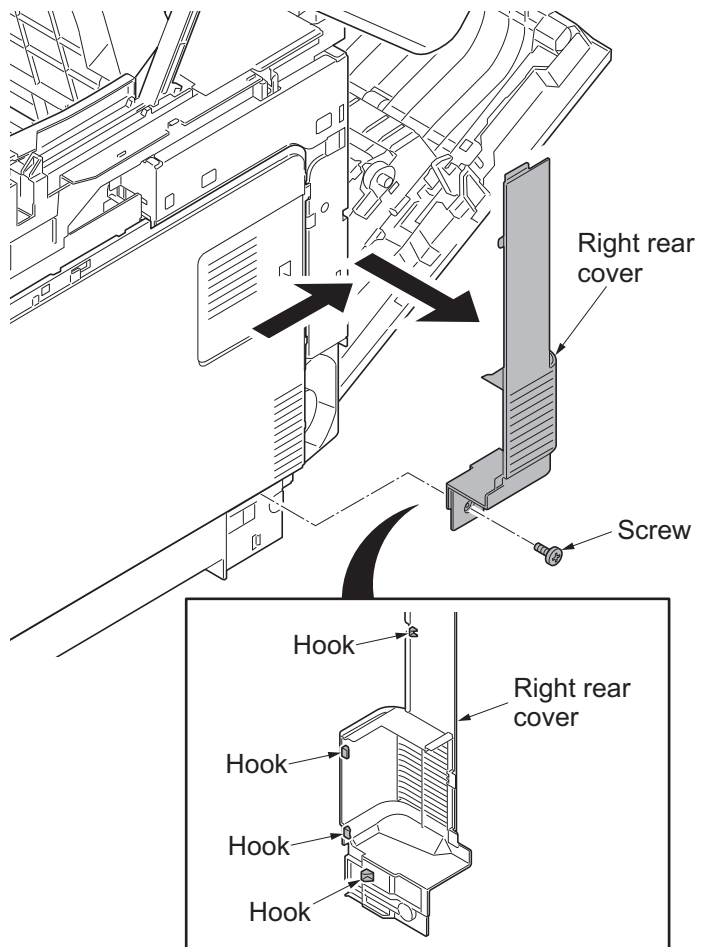


Figure 1-5-9

5. Open the memory cover and then remove it.

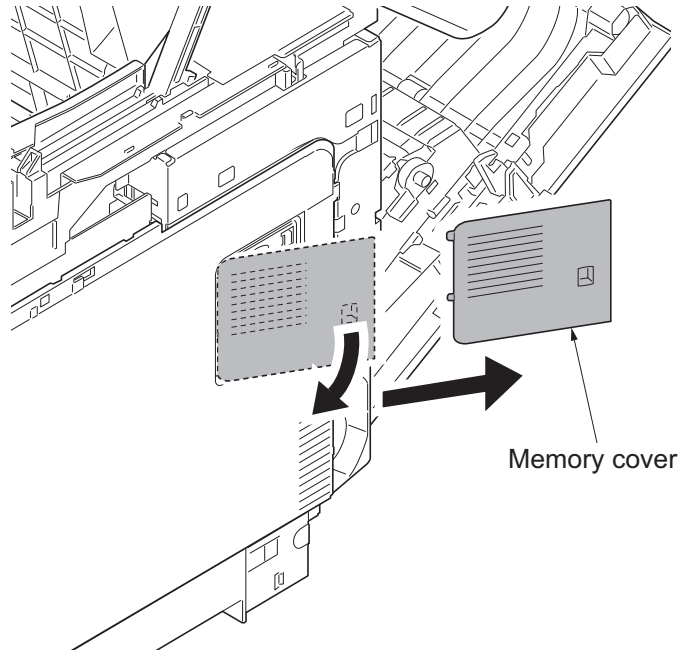


Figure 1-5-10

6. Open the waste toner cover.
7. Push the lock release button and then remove the waste toner box.

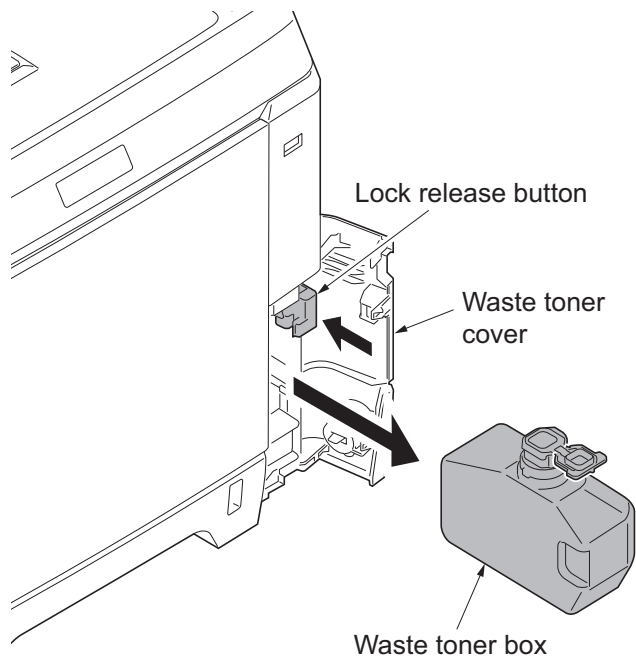


Figure 1-5-11

8. Release four hooks (hook A → B → C). Slide the right cover forward and then remove it.
9. Remove the waste toner cover.

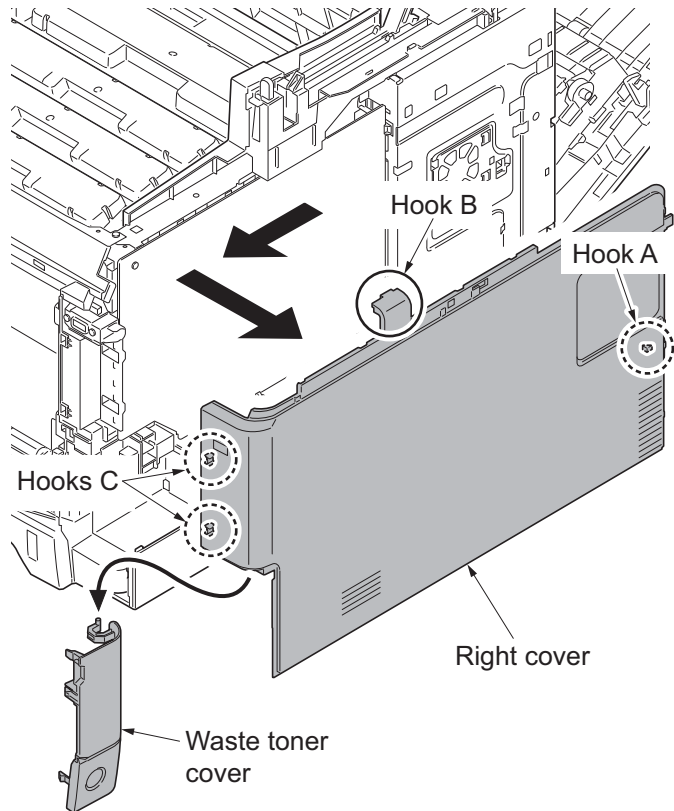


Figure 1-5-12

10. Release the hook. Slide the right lower cover forward and then remove it.

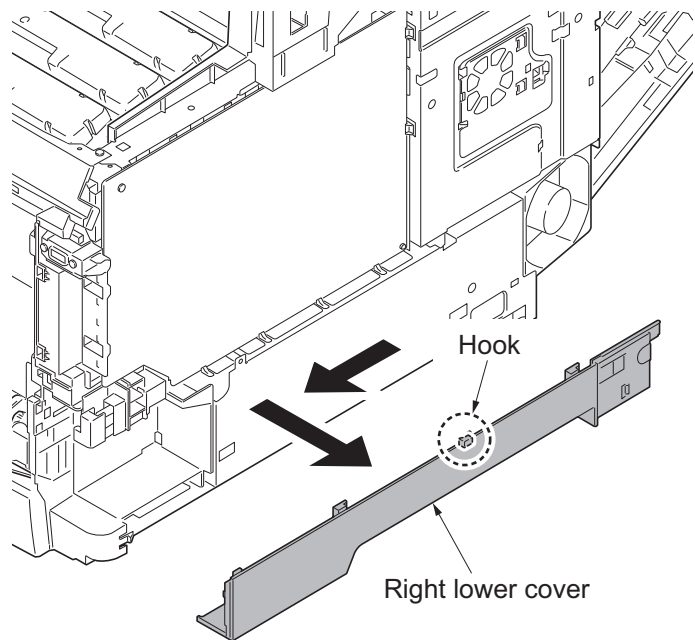


Figure 1-5-13

(3) Detaching and refitting the left rear cover, left cover and left lower cover

Procedure

1. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
2. Release the hook. Slide the left rear cover upward and then remove it.

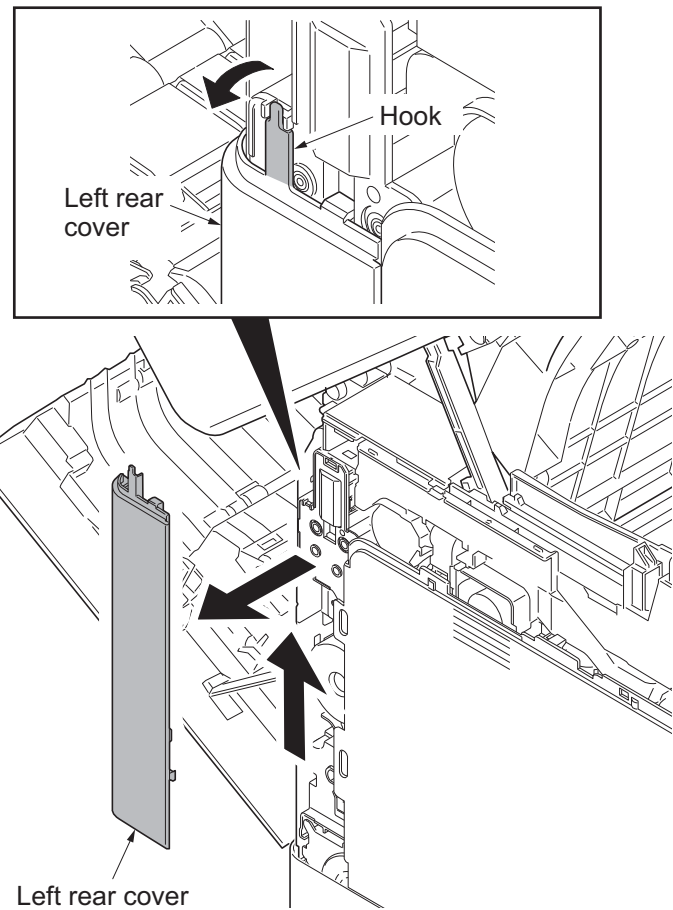


Figure 1-5-14

3. Release four hooks (hook A → B) and then remove the left cover.

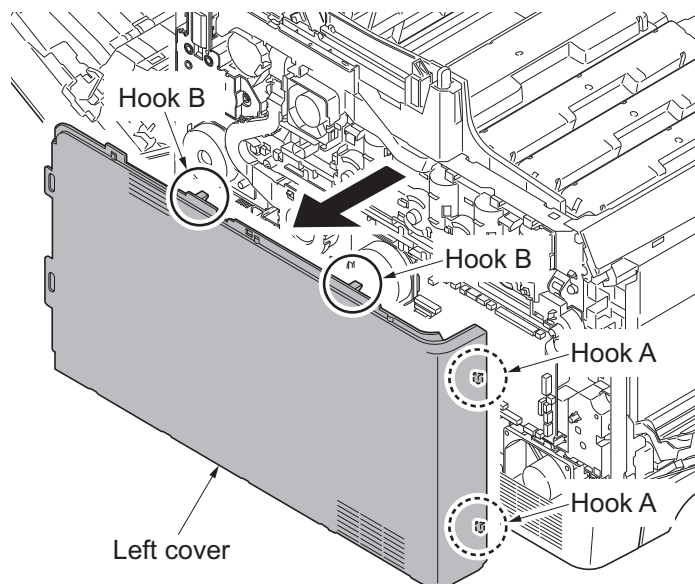


Figure 1-5-15

- 4. Remove the screw.
- 5. Release three hooks (hook A → B → C) and then remove the left lower cover.

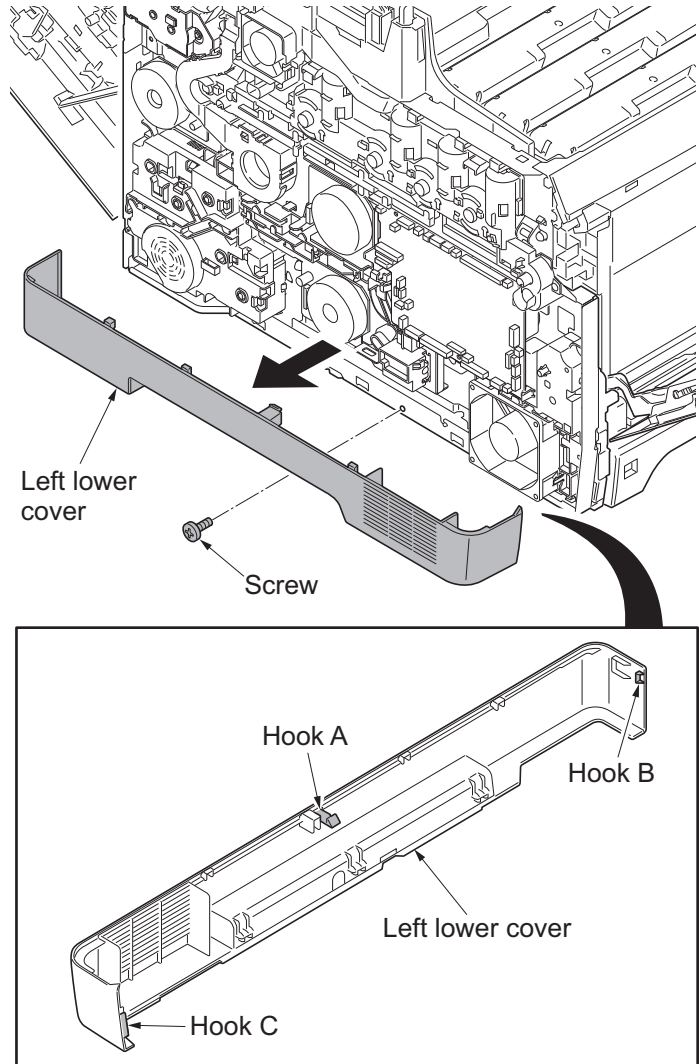


Figure 1-5-16

(4) Detaching and refitting the inner cover

Procedure

1. Remove the cassette.

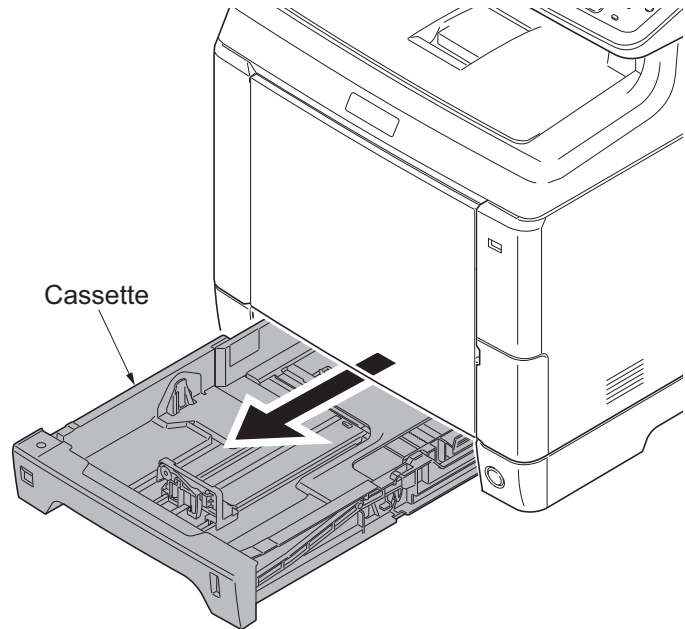


Figure 1-5-17

2. Remove the MP tray cover.
(see page 1-5-17)
3. Remove the MP tray.

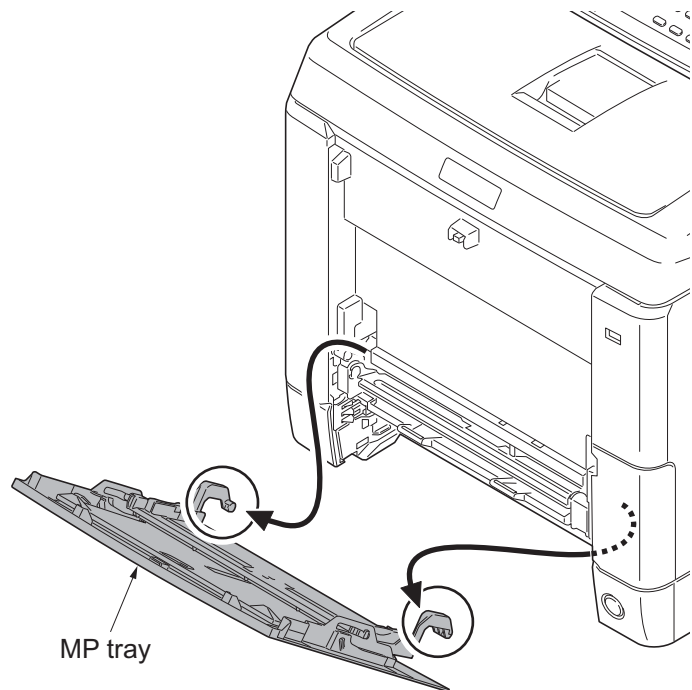


Figure 1-5-18

4. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
5. Remove the right rear cover and right cover (see page 1-5-6).
6. Remove the left rear cover and left cover (see page 1-5-9).
7. Release three hooks and then remove the switch holder.
8. Release four hooks and then remove the inner cover.

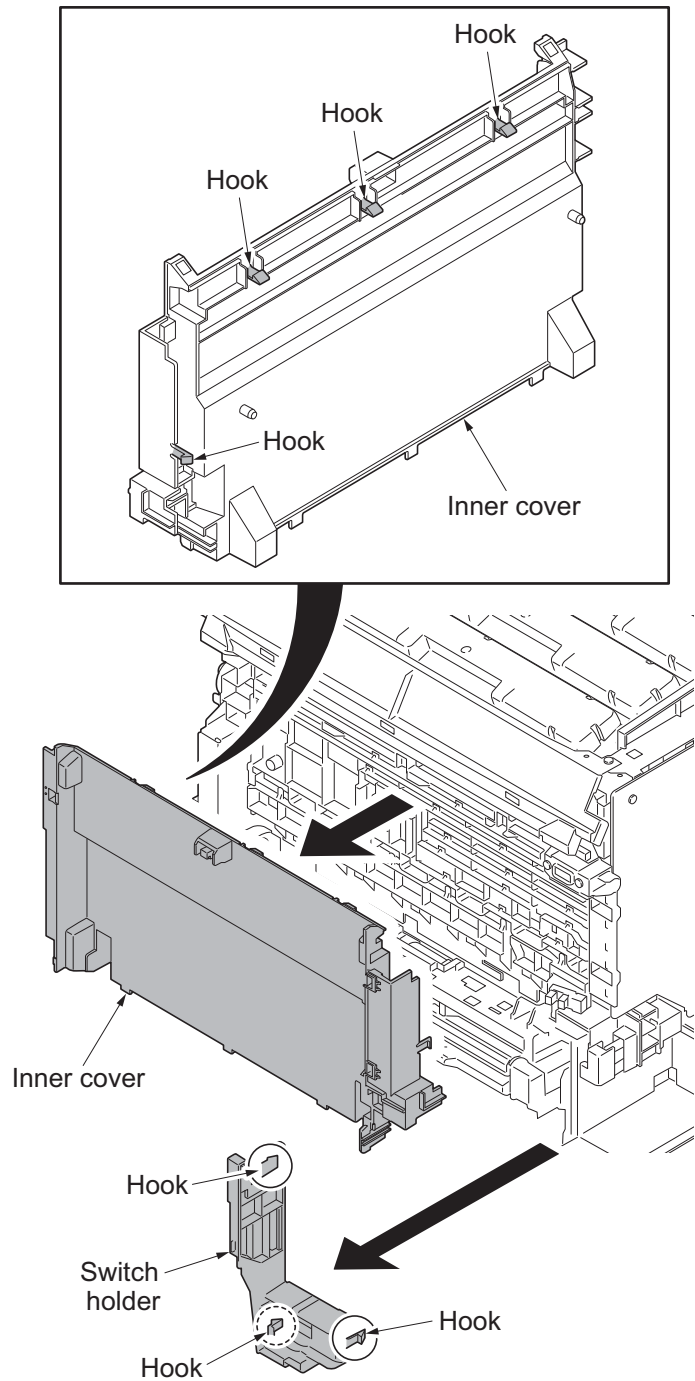


Figure 1-5-19

1-5-3 Paper feed section

(1) Detaching and refitting the retard roller unit

Procedure

1. Open the paper conveying unit.
2. Pull the middle roller unit forward to the hook.
3. While pressing the right and left hooks outwards, unlatch the shaft from the rail and remove the middle roller unit.

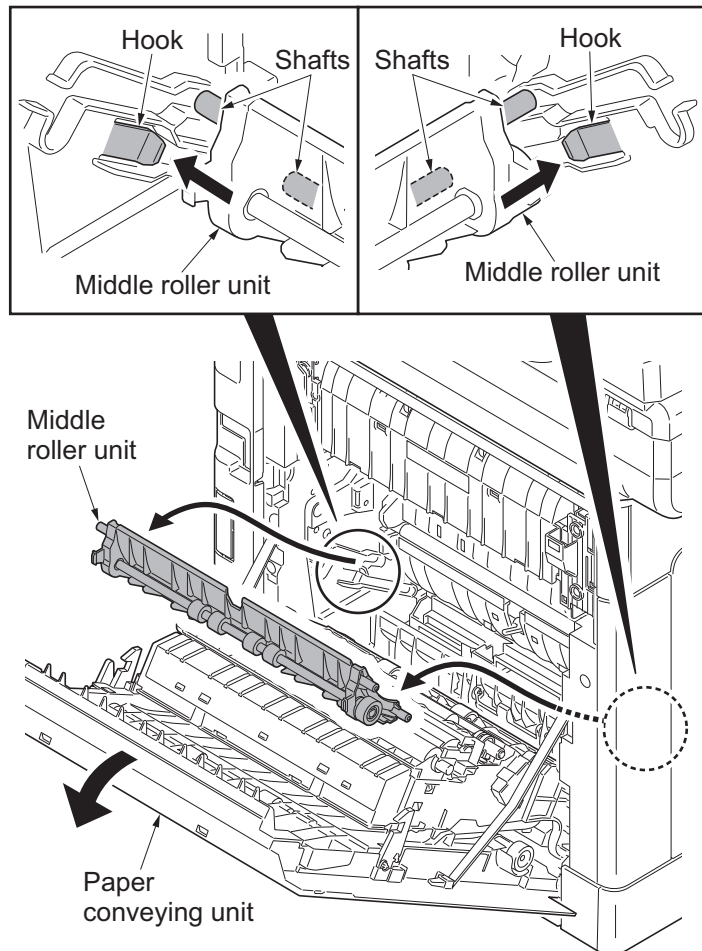
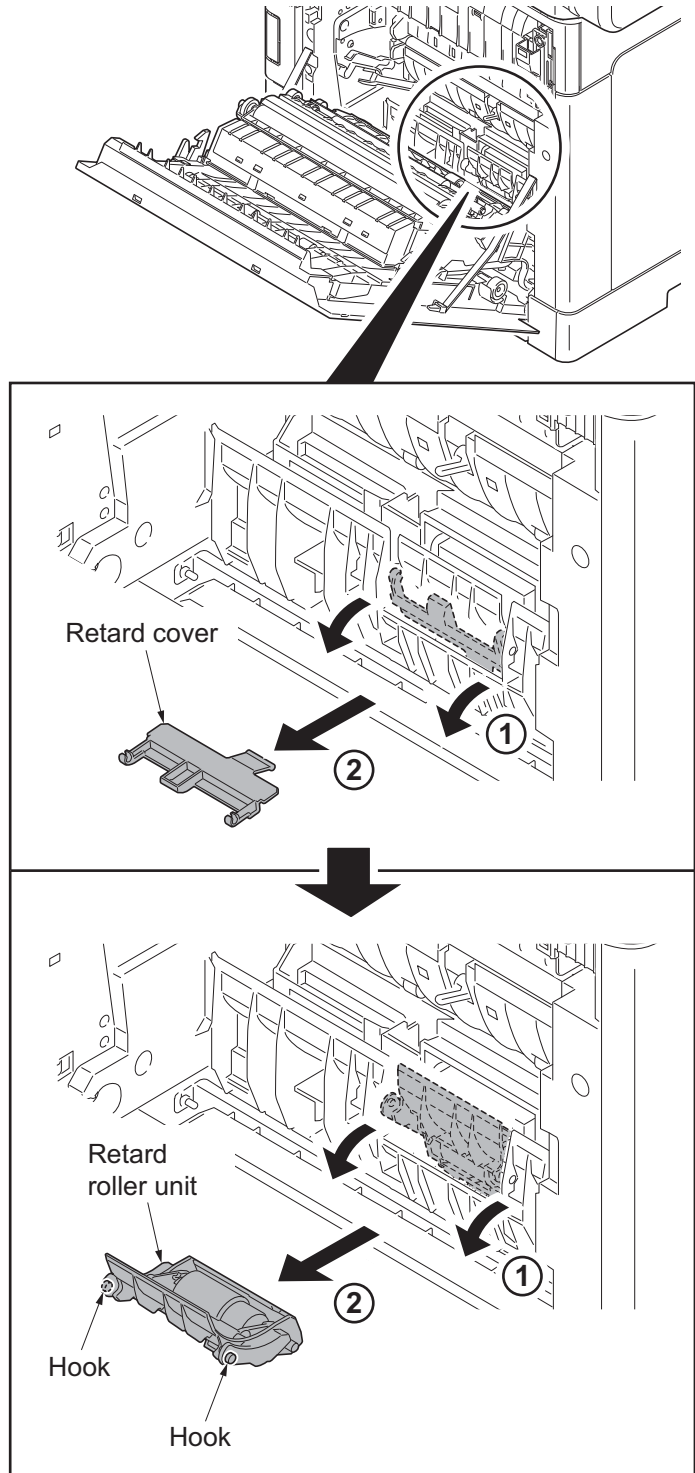


Figure 1-5-20

4. Pull the retard cover down and remove.
5. Release two hooks and then remove the retard roller unit.
6. Check or replace the retard roller unit and refit all the removed parts.

**Figure 1-5-21**

(2) Detaching and refitting the paper feed roller unit

Procedure

1. Remove the retard roller unit (see page 1-5-13).
2. Turn forward the lever of the feed pin to release the lock.
3. Slide the feed pin.

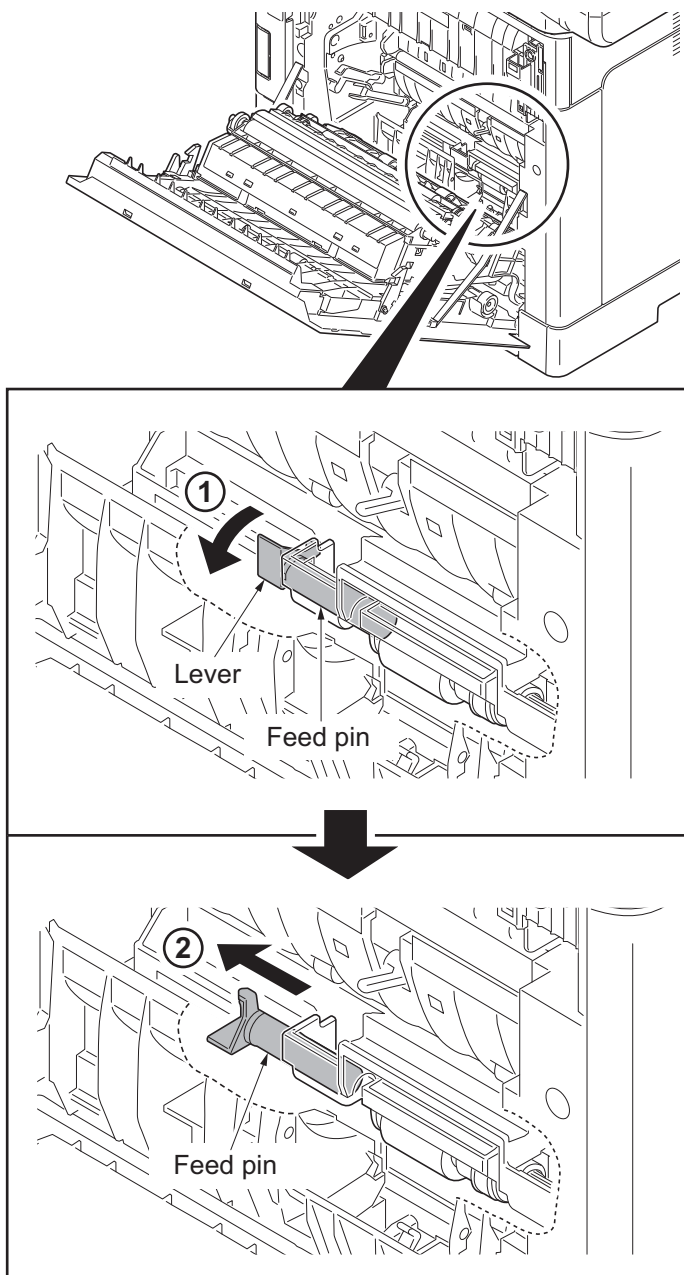


Figure 1-5-22

4. Remove the paper feed roller unit.
5. Check or replace the paper feed roller unit and refit all the removed parts.

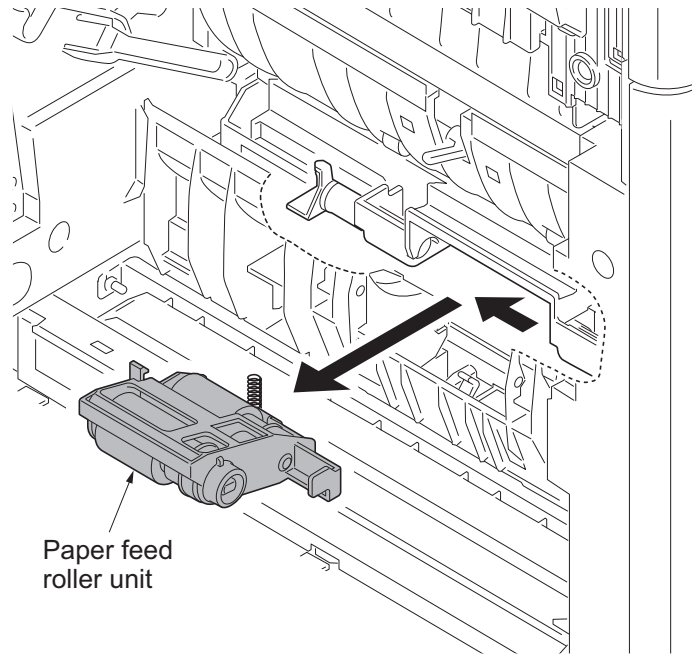


Figure 1-5-23

(3) Detaching and refitting the MP paper feed roller

Procedure

1. Remove the cassette.
2. Remove the guide sections of the MP tray cover from the MP tray.
3. Raise the MP tray cover upward. Release two hooks and then remove the MP tray cover.

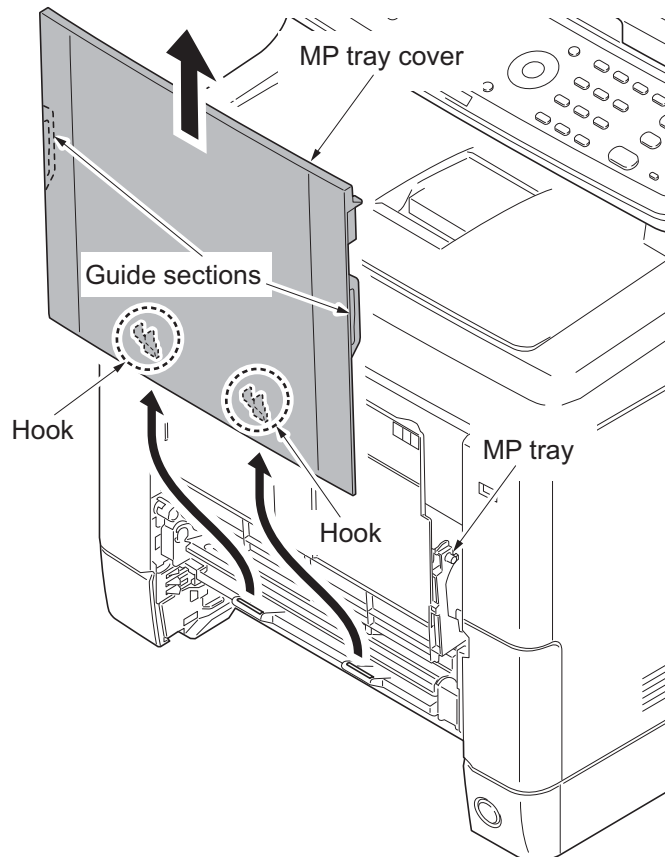


Figure 1-5-24

4. Open the conveying lower cover.

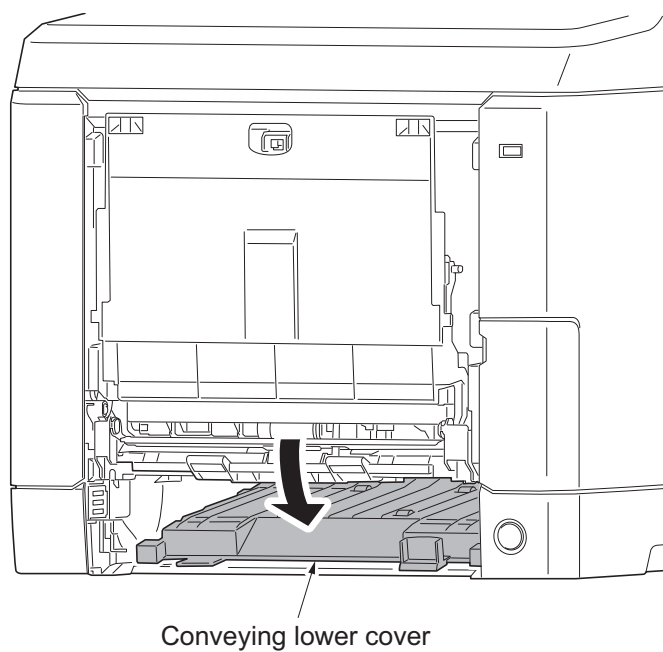


Figure 1-5-25

- Remove two screws and then remove the MP paper feed lower unit.

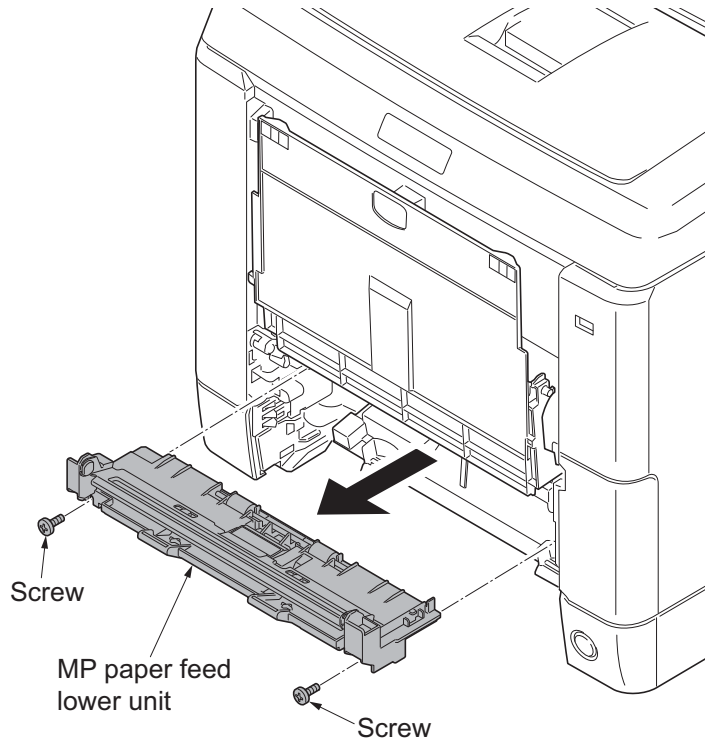


Figure 1-5-26

- Pull the hook forward and then slide the MP feed shaft.
- Remove the MP paper feed roller.
- Check or replace the Mp paper feed roller and refit all the removed parts.

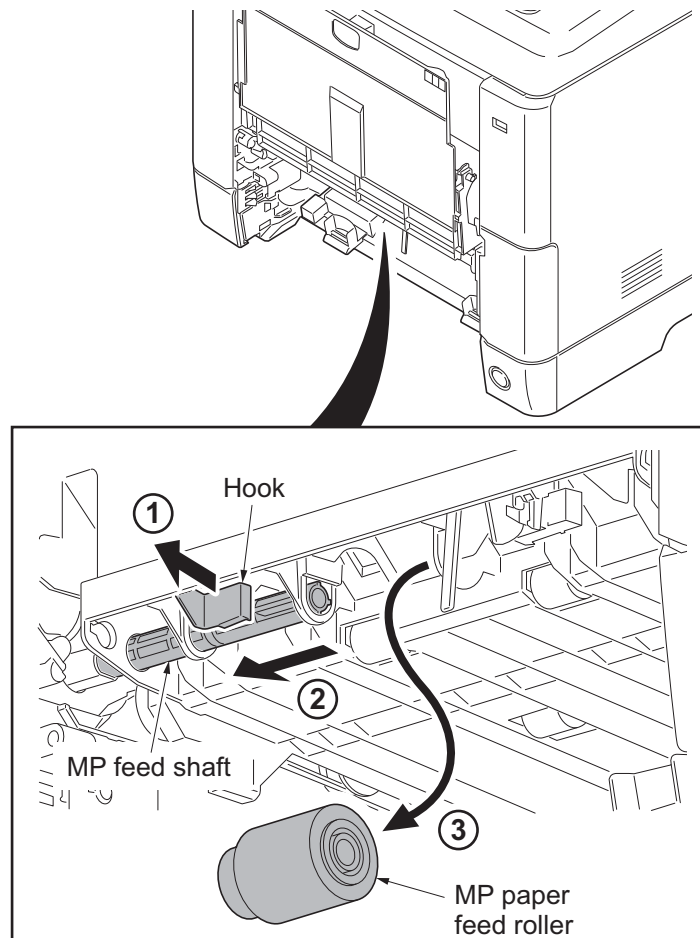


Figure 1-5-27

1-5-4 Developing section

(1) Detaching and refitting the developing unit

Procedure

1. Remove the intermediate transfer unit (see page 1-5-22).
2. Remove drum units (K, M, C, Y).
3. Pinch the lever of developing unit.
4. Remove developing units (K, M, C, Y).

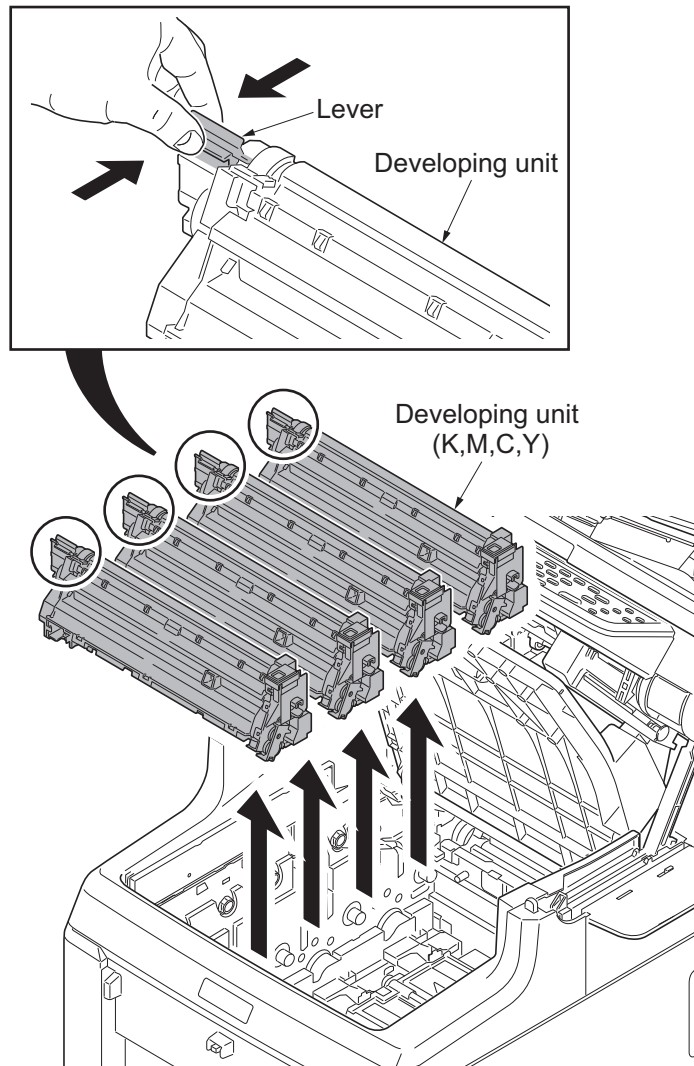


Figure 1-5-28

5. Check or replace the developing unit and refit all the removed parts.

NOTE:

- *: Remove the cap before installing the new developing unit.
- *: When reinstalling the developing unit, press it down until the lever of developing unit is engaged with the notch.
- *: If it is difficult to engage the lever, press the unit down while rotating the gear to engage it.

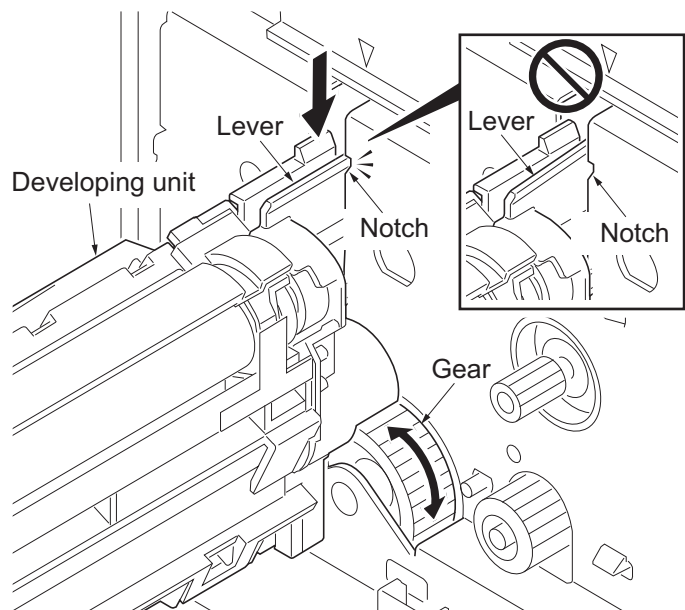
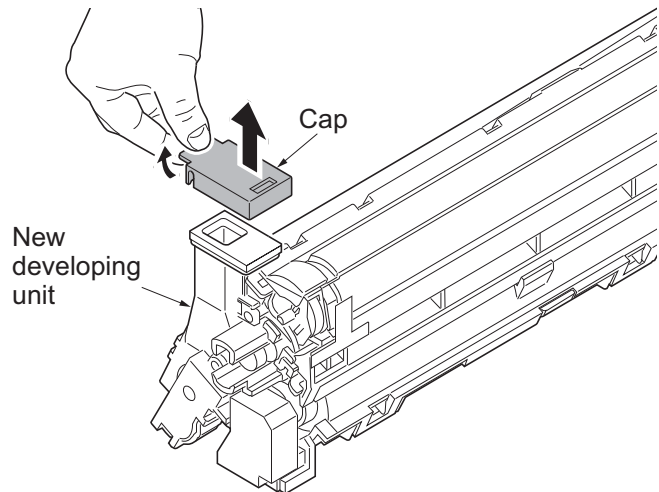


Figure 1-5-29

1-5-5 Drum section

(1) Detaching and refitting the drum unit

Procedure

1. Remove the intermediate transfer unit (see page 1-5-22).
2. Remove drum units (K, M, C, Y).
3. Check or replace the drum unit and refit all the removed parts.

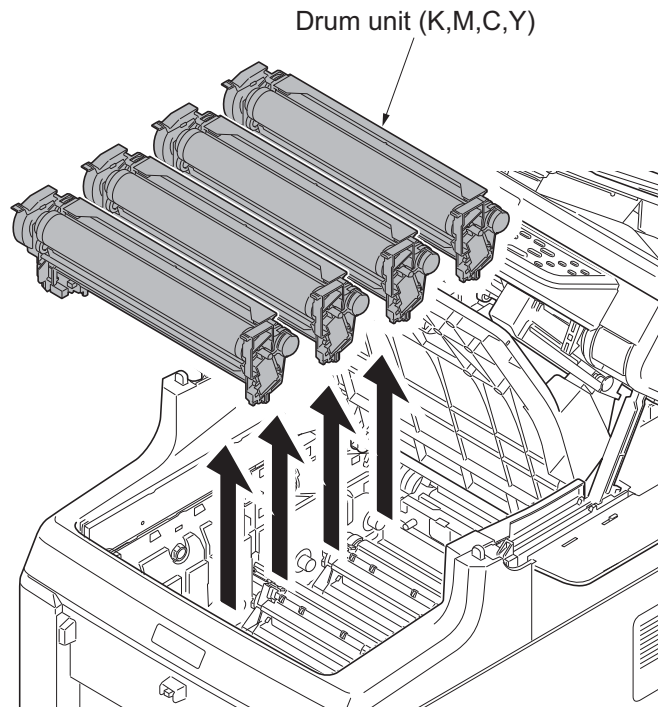


Figure 1-5-30

1-5-6 Transfer/Separation section

(1) Detaching and refitting the intermediate transfer unit

Procedure

1. Open the top tray and the paper conveying unit.
2. Remove toner containers (K, M, C, Y).

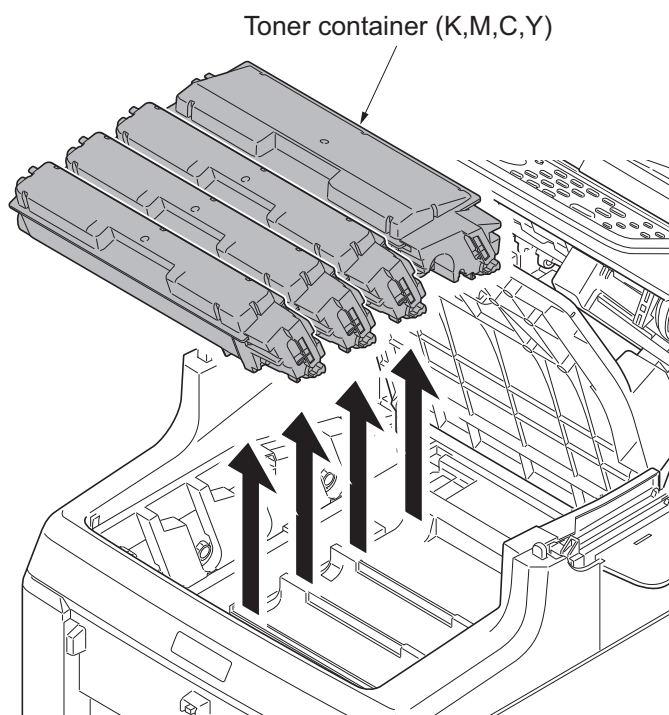


Figure 1-5-31

3. Slide the container guide forward and then remove it.

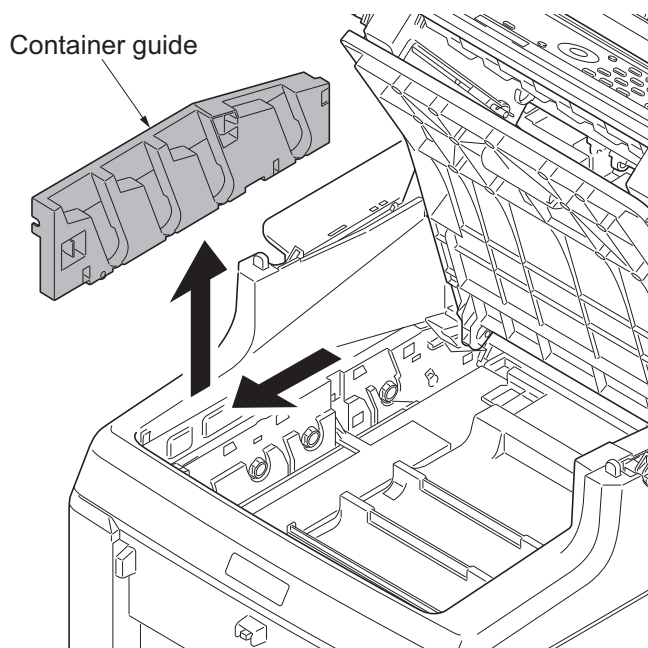


Figure 1-5-32

4. Open the RFID holder.

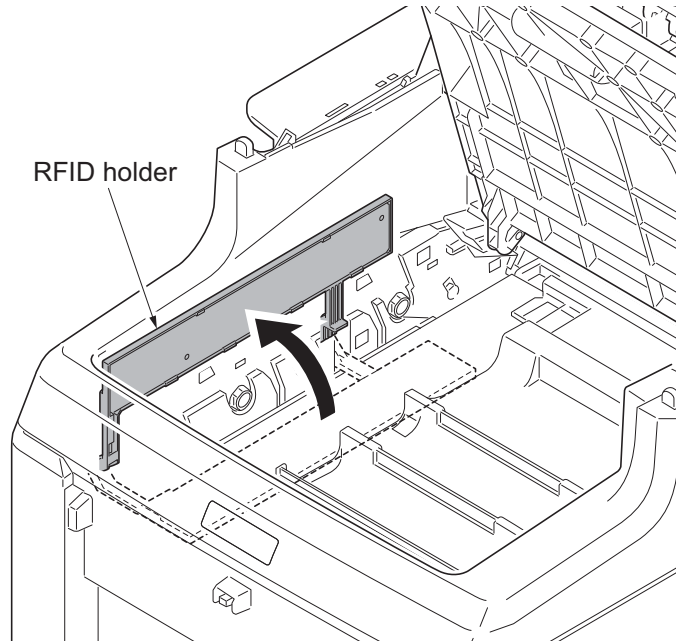


Figure 1-5-33

- 5. Slide the shutter forward and seal the toner inlet.
- 6. Remove the screw.

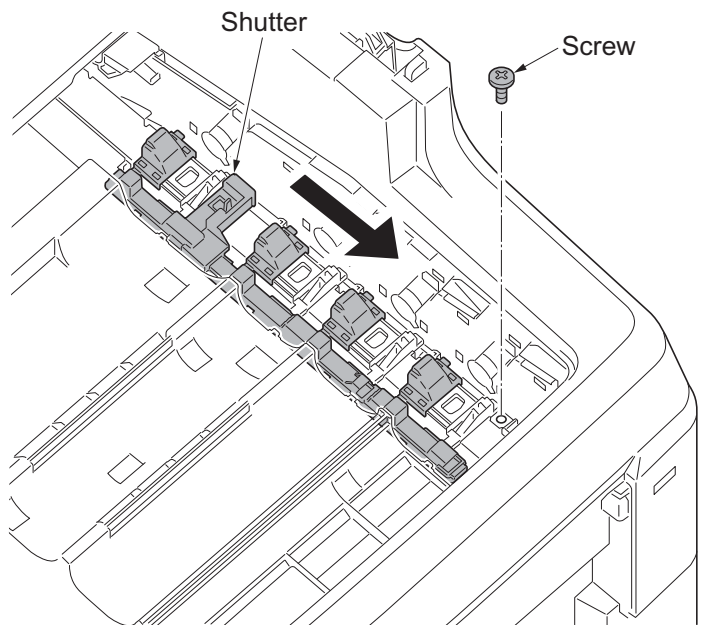


Figure 1-5-34

7. Remove the intermediate transfer unit.
8. Check or replace the intermediate transfer unit and refit all the removed parts.

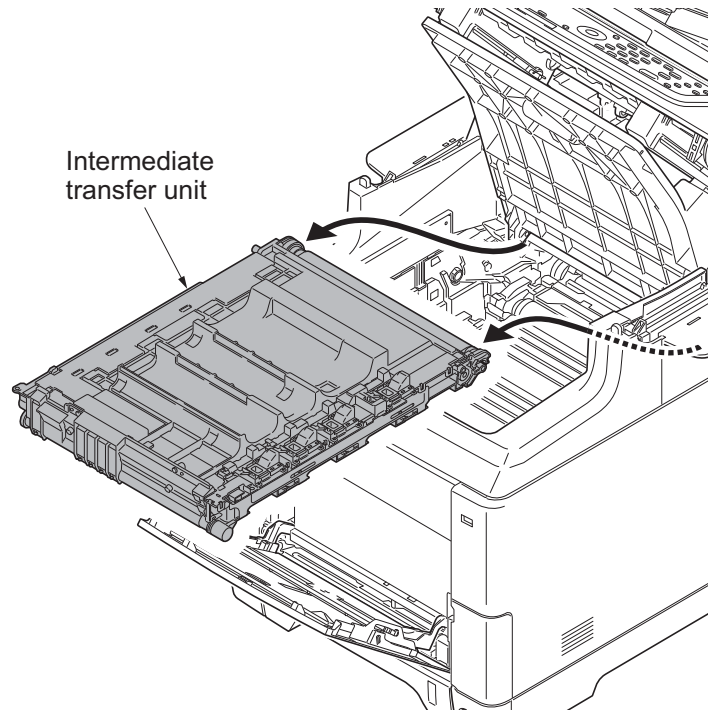


Figure 1-5-35

(2) Detaching and refitting the transfer roller unit

Procedure

1. Open the paper conveying unit.
2. Release two hooks and then remove the transfer roller unit.
3. Check or replace the transfer roller unit and refit all the removed parts.

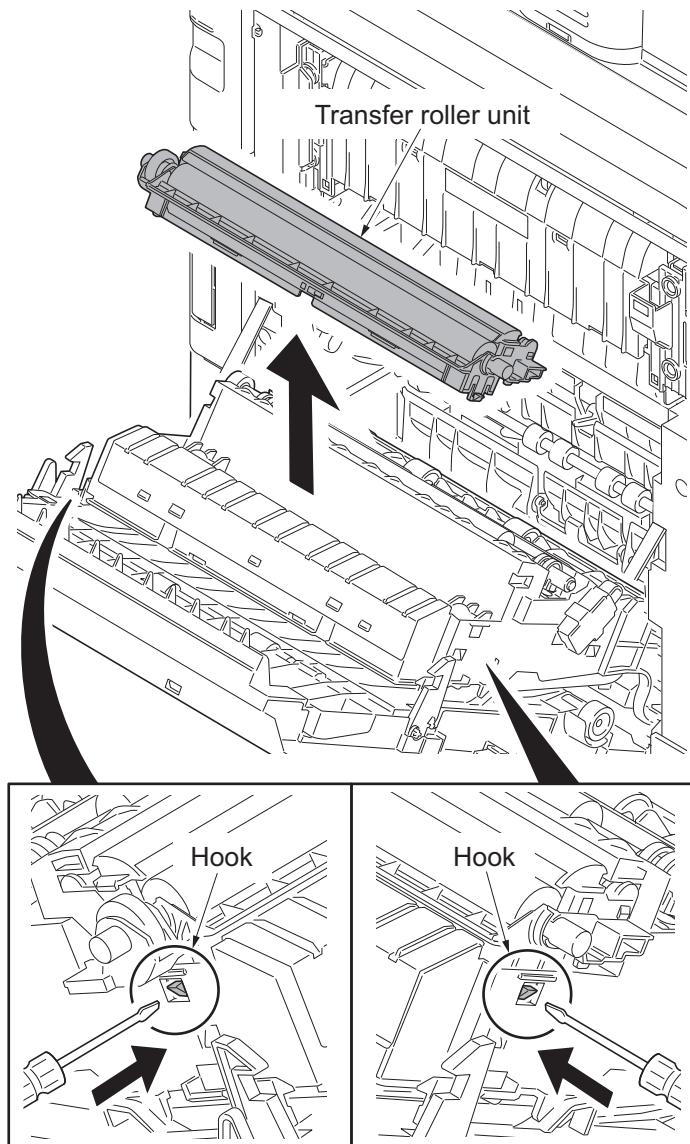


Figure 1-5-36

1-5-7 Fuser section

(1) Detaching and refitting the fuser unit

Procedure

1. Open the paper conveying unit.
2. Remove the IF cover (see page 1-5-3).
3. Remove the screw and then fuser wire cover.

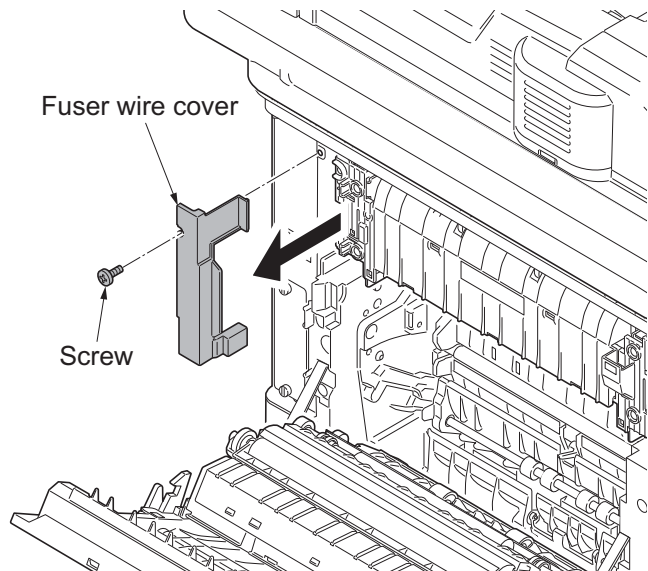


Figure 1-5-37

4. Remove three connectors.
 5. Remove two screws and then remove the fuser unit.
 6. Check or replace the fuser unit and refit all the removed parts.
- *: Take care not to get the cables caught.

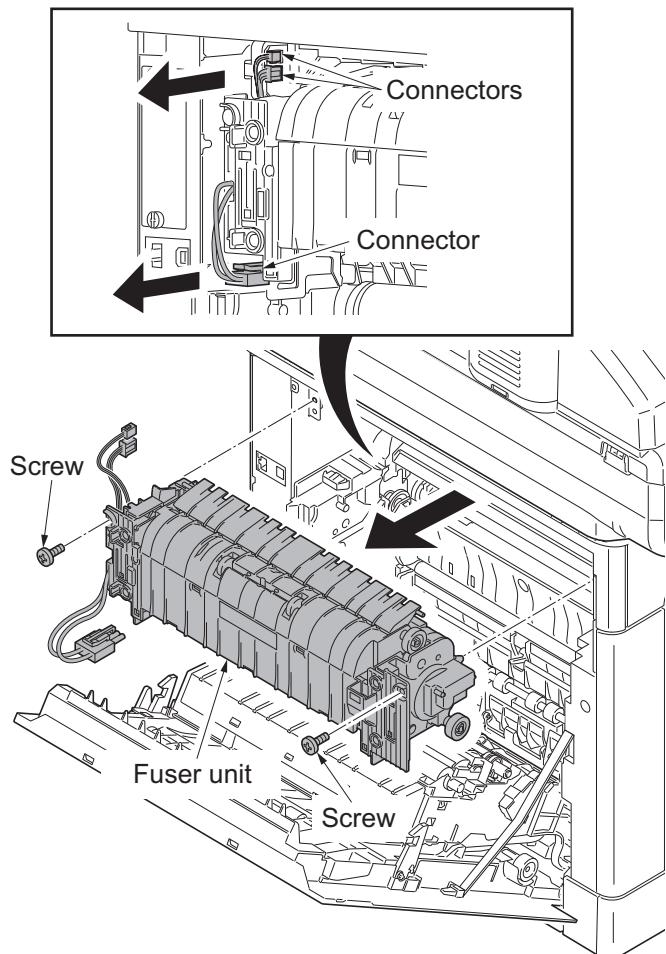


Figure 1-5-38

1-5-8 PWBs

(1) Detaching and refitting the engine PWB

Procedure

1. Remove the left cover (see page 1-5-9).
2. Remove all connectors from the engine PWB.

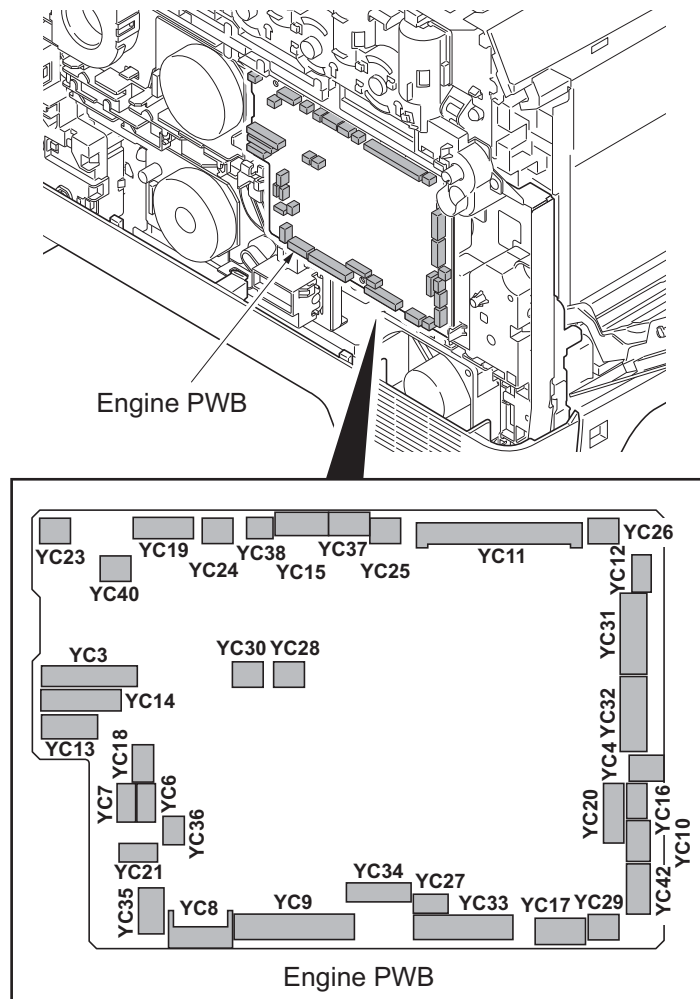


Figure 1-5-39

3. Remove three screws and then remove the engine PWB.
 4. Check or replace the engine PWB and refit all the removed parts.
- *: To replace the engine PWB, remove the EEPROM (U1) from the old engine PWB and mount it to the new engine PWB.

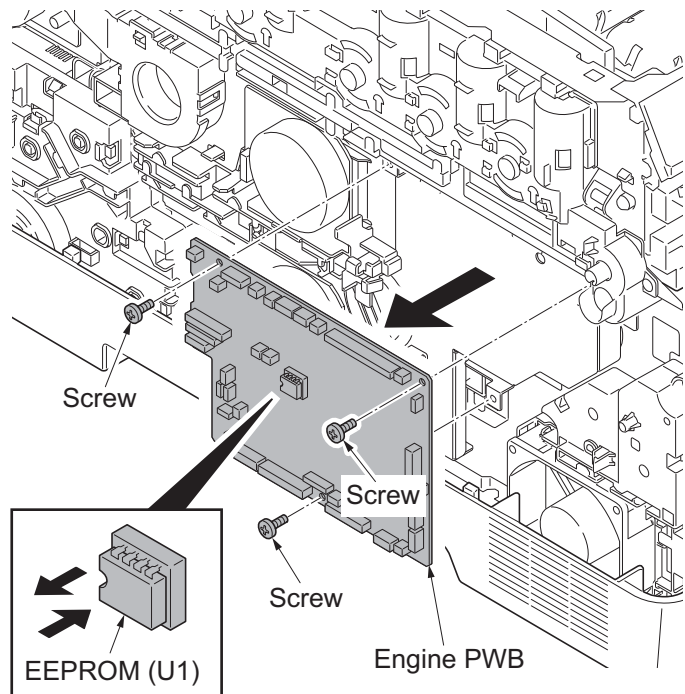


Figure 1-5-40

(2) Detaching and refitting the power source PWB

Procedure

1. Remove the right rear cover, right cover and right lower cover (see page 1-5-6).
2. Remove four screws and then remove the power source shield.
Screws A and B are unidentical, therefore, do not mix up.

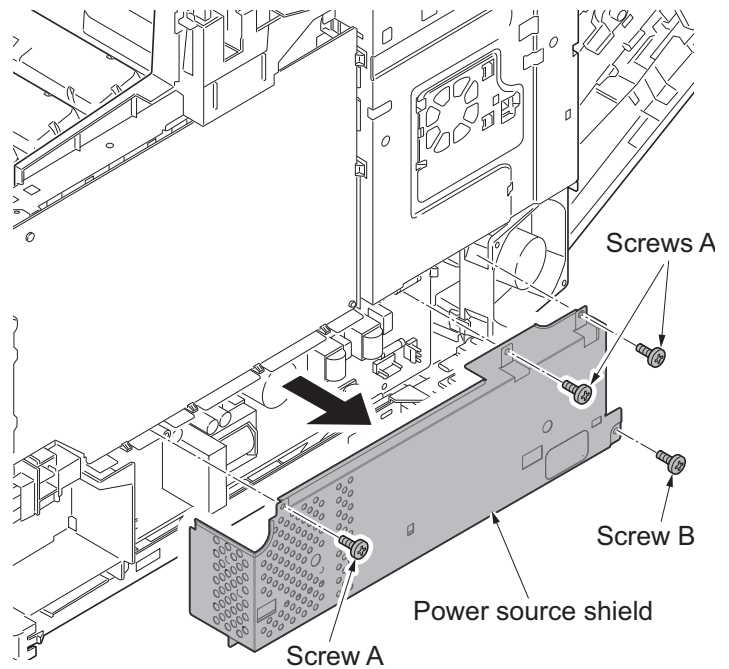


Figure 1-5-41

3. Remove all connectors from power source PWB.
4. Remove two screws.
5. Release three hooks and then remove the power source PWB.
6. Check or replace the power source PWB and refit all the removed parts.

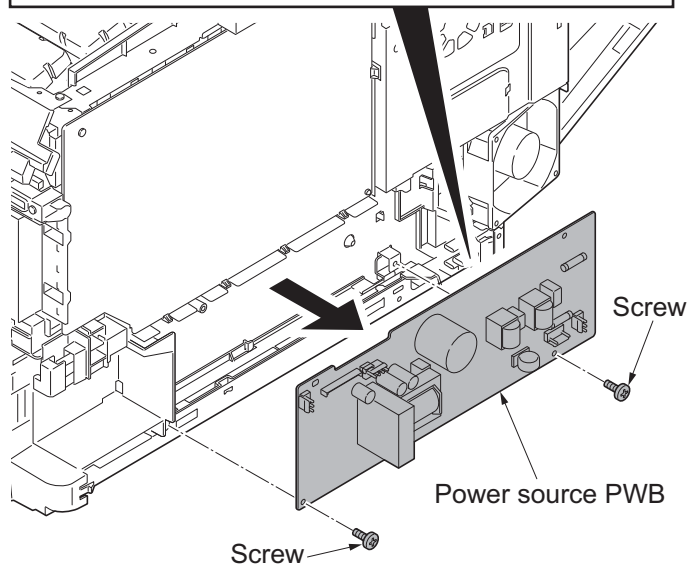
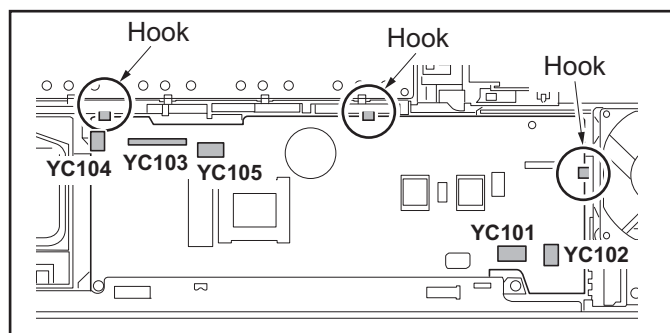


Figure 1-5-42

(3) Detaching and refitting the main PWB

Procedure

1. Remove the FAX control PWB, if installed (see page 1-5-36).
2. Remove the right rear cover, right cover and right lower cover (see page 1-5-6).
3. Remove four screws and then remove the power source shield.
Screws A and B are unidentical, therefore, do not mix up.

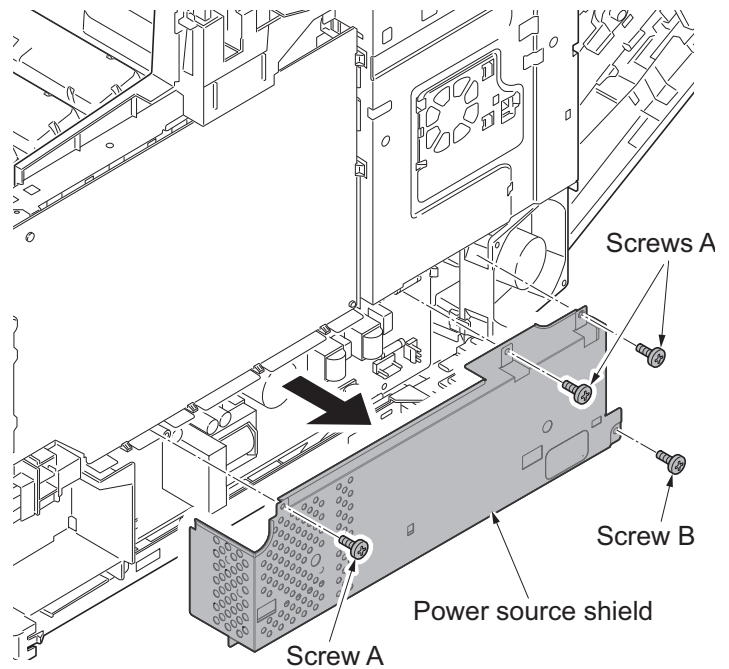


Figure 1-5-43

4. Open the fan bracket.
5. Slide the fan plate. Release four hooks and then remove the fan plate.

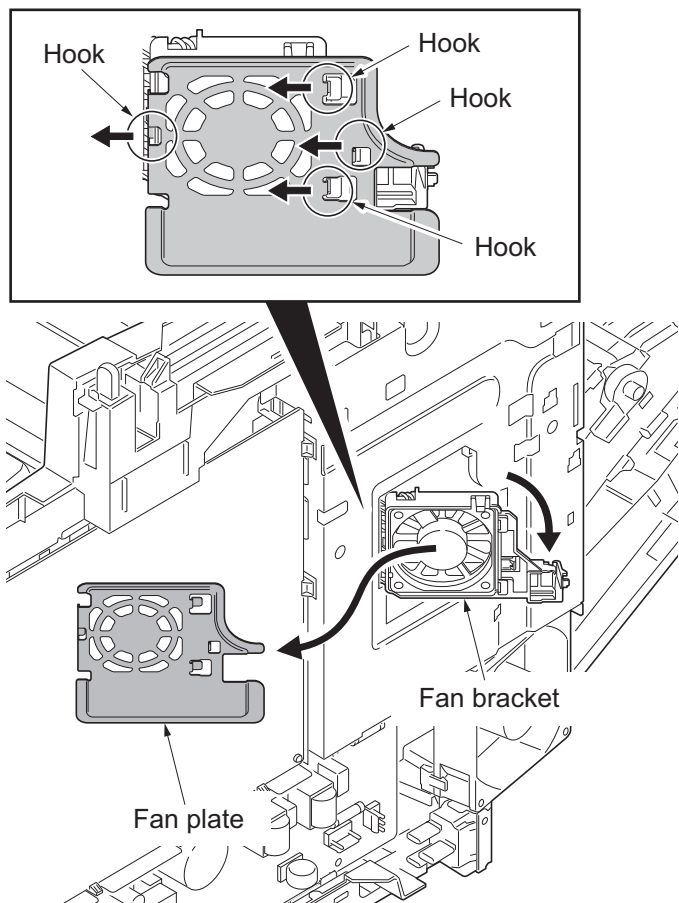


Figure 1-5-44

6. Remove the screw and then remove the fuser wire cover.

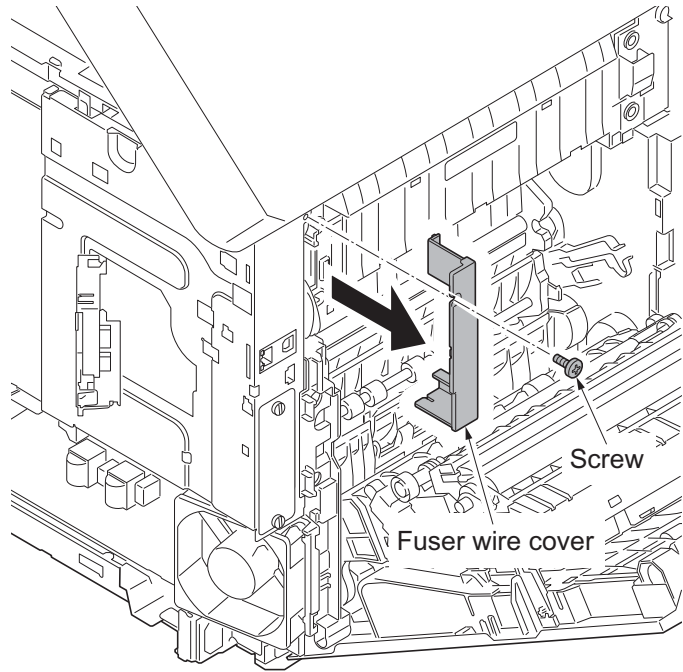


Figure 1-5-45

7. Remove five screws and then remove the controller shield.

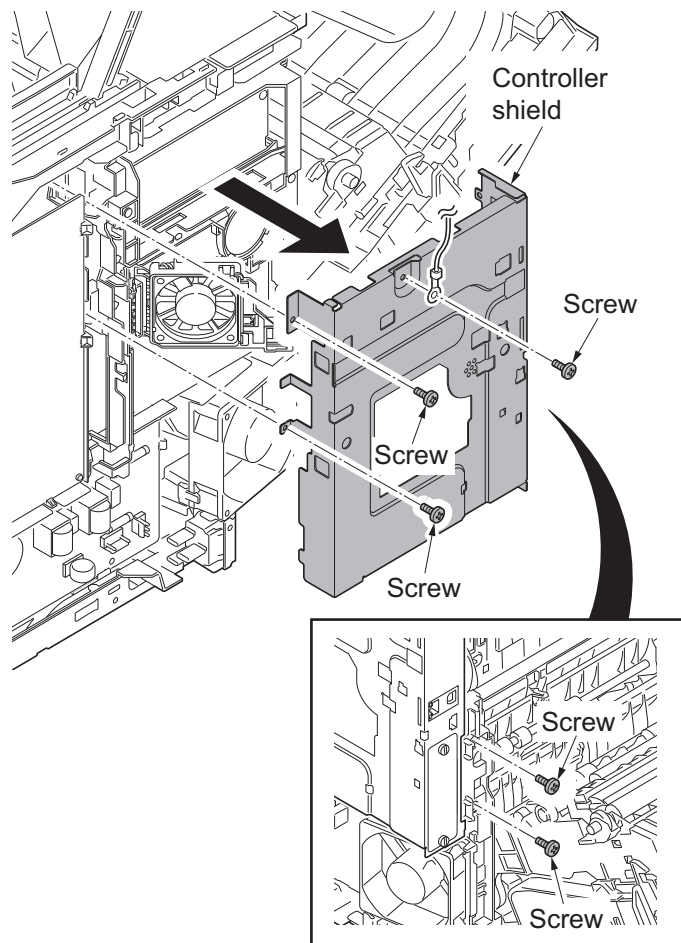


Figure 1-5-46

8. Remove the connector (YC41) of the controller fan motor.
9. Open the fan bracket and then remove it.

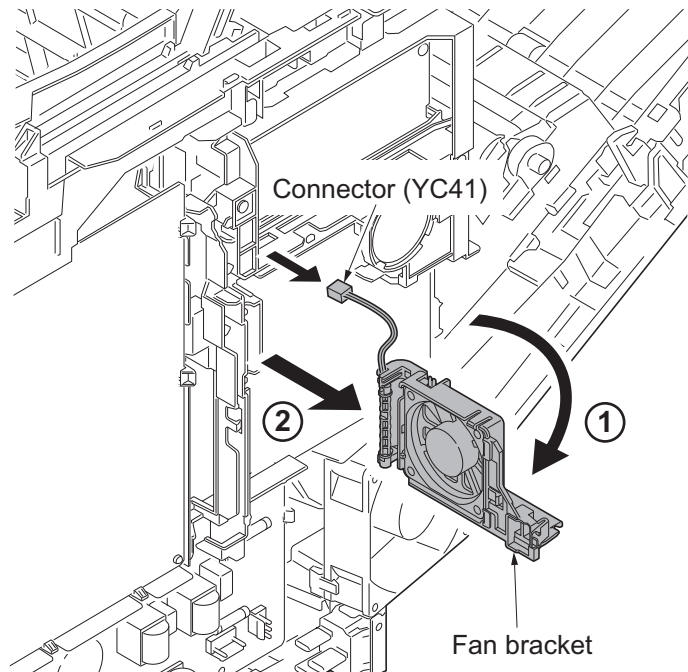


Figure 1-5-47

10. Remove seven connectors (YC15, YC37, YC41, YC40, YC38, YC39 and YC42) from the main PWB.

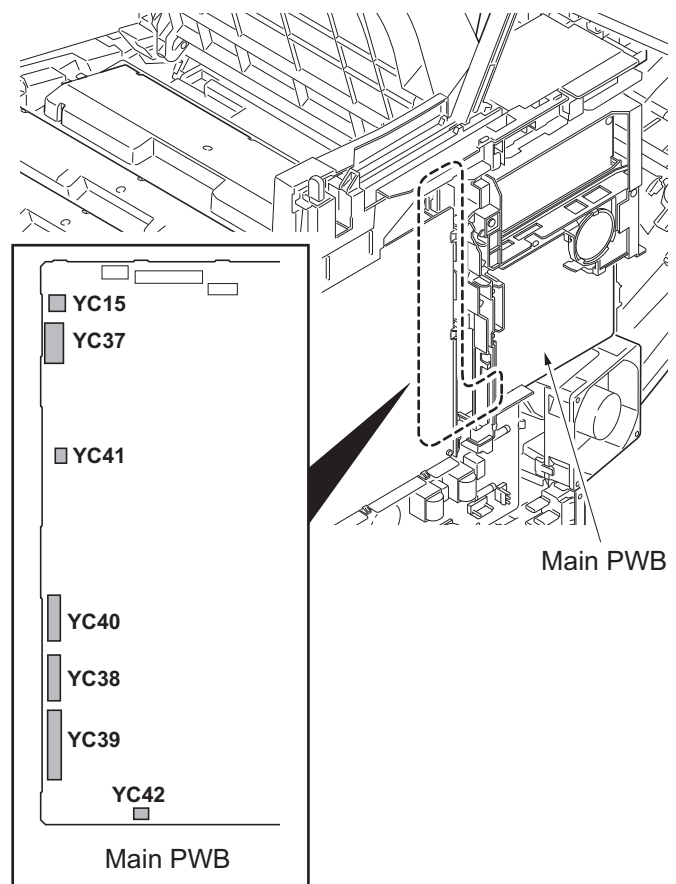


Figure 1-5-48

11. Remove two screws.
12. Release three hooks and then remove the wire holder.

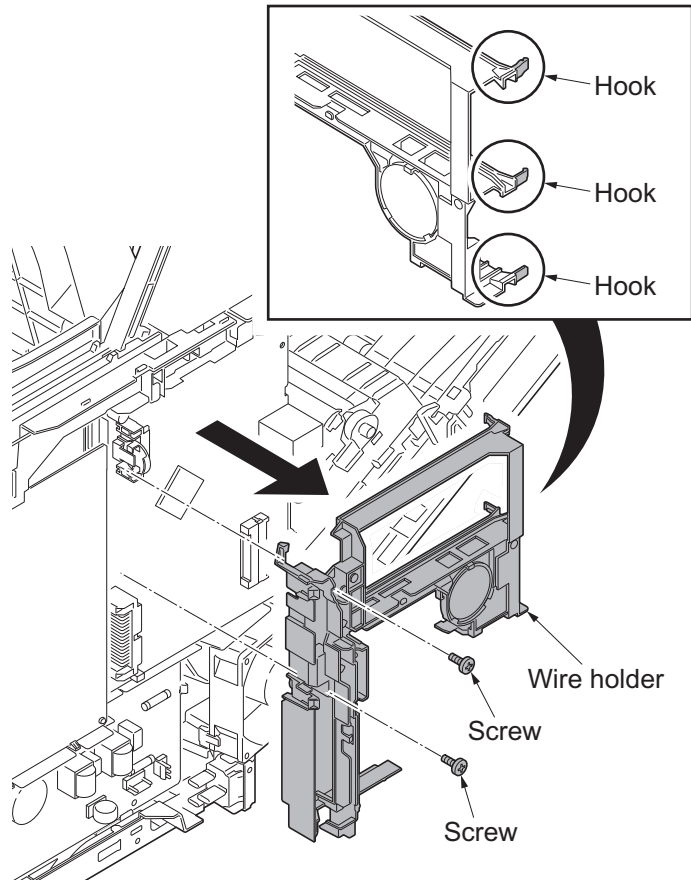


Figure 1-5-49

13. Remove three connectors (YC36, YC32, YC12) and two FFCs (YC8, YC43) from the main PWB.

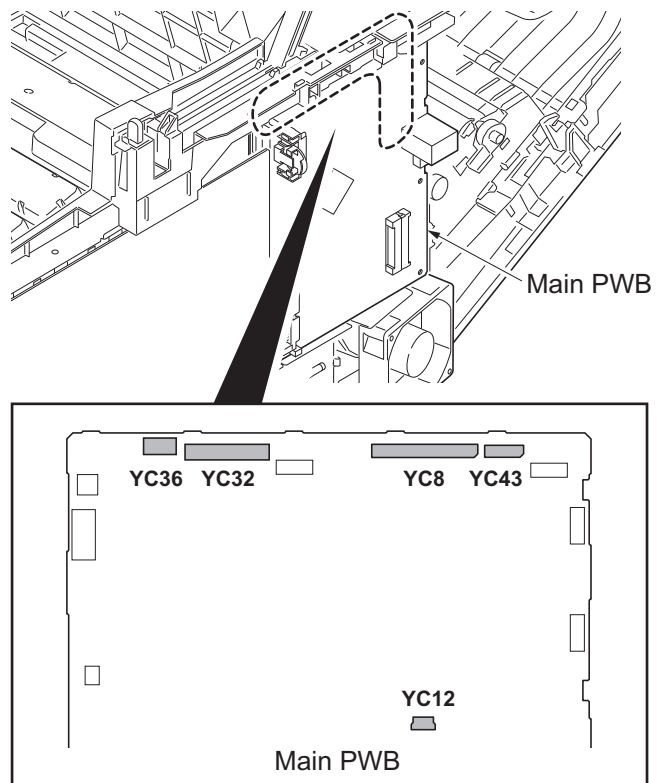


Figure 1-5-50

14. Remove five screws and then remove the main PWB.
15. Check or replace the main PWB and refit all the removed parts.

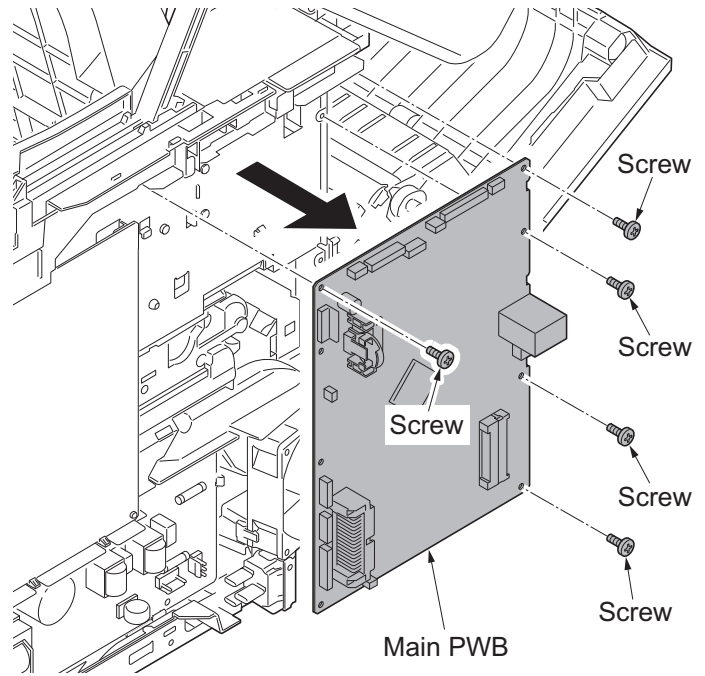


Figure 1-5-51

(4) Detaching and refitting the high voltage PWB

Procedure

1. Remove the right rear cover and right cover (see page 1-5-6).
2. Remove the FFC from the high voltage PWB.

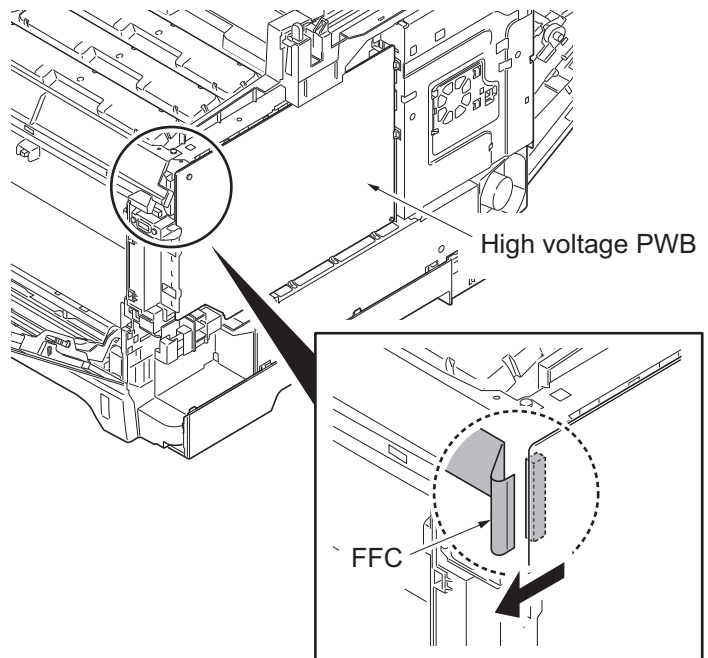


Figure 1-5-52

3. Remove the screw.
4. Release eight hooks and then remove the high voltage PWB.
5. Check or replace the high voltage PWB and refit all the removed parts.

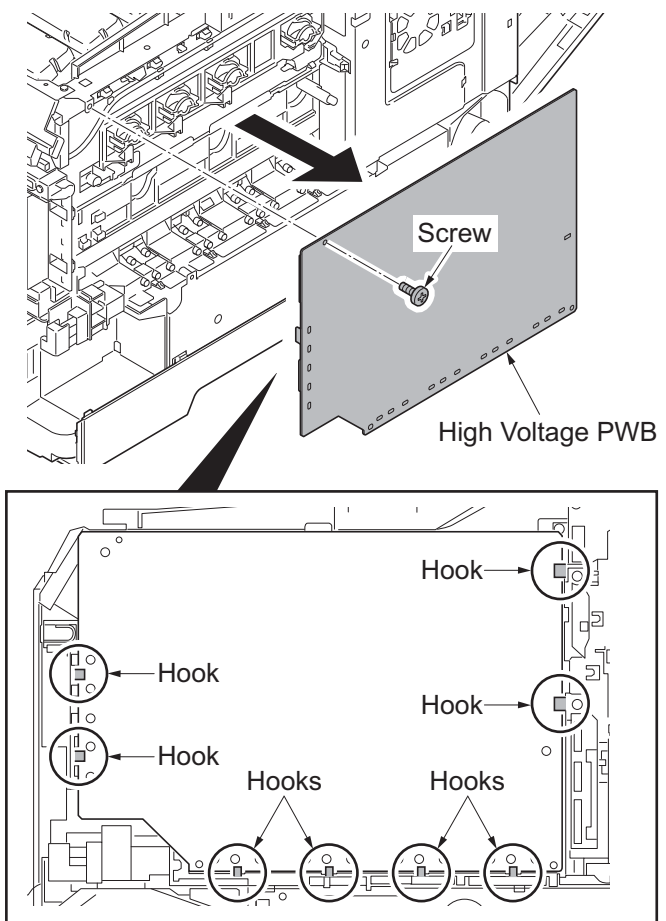
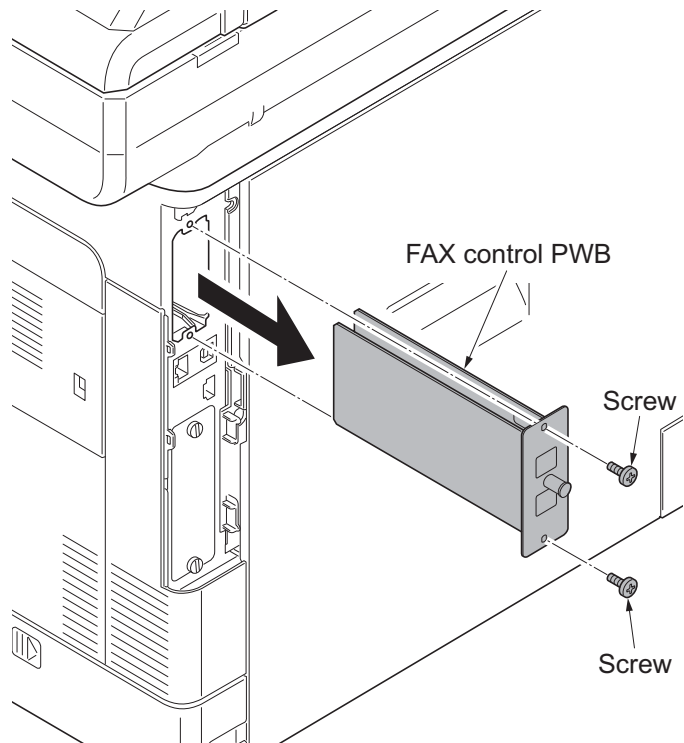


Figure 1-5-53

(5) Detaching and refitting the FAX control PWB (4 in 1 model (with FAX) only)**Procedure**

1. Remove the IF cover (see page 1-5-3).
2. Remove two screws and then remove the FAX control PWB.
3. Check or replace the FAX control PWB and refit all the removed parts.

**Figure 1-5-54**

1-5-9 Drive section

(1) Detaching and refitting the MP feed drive unit

Procedure

1. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
2. Remove the right rear cover and right cover (see page 1-5-6).
3. Remove the left rear cover, left cover and left lower cover (see page 1-5-9).
4. Remove the inner cover (see page 1-5-11).
5. Remove the engine PWB (see page 1-5-27).
6. Release three hooks and then remove the left fan motor.

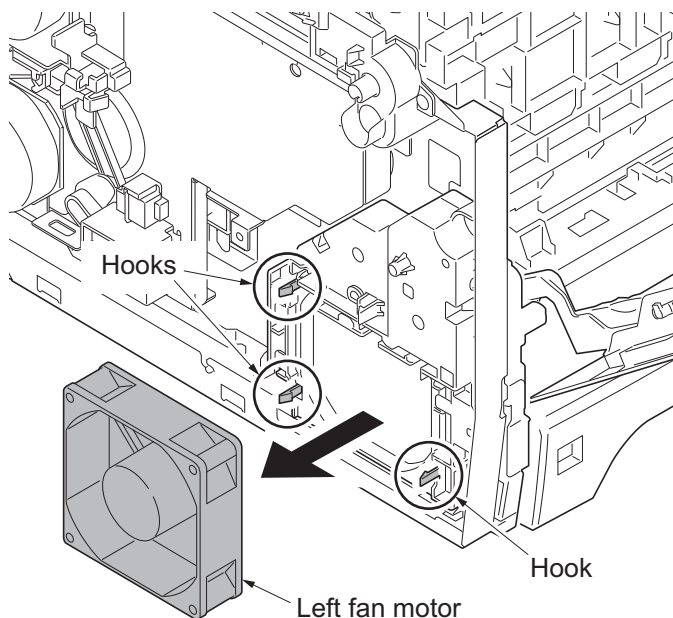


Figure 1-5-55

7. Turn the cam inside the device to the position indicated.
8. Remove three screws and then remove MP feed drive unit.
9. Check or replace the MP feed drive unit and refit all the removed parts.

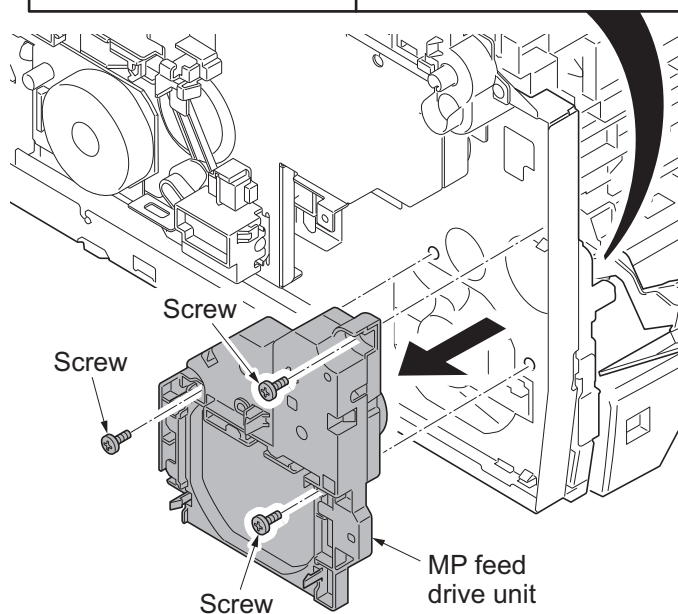
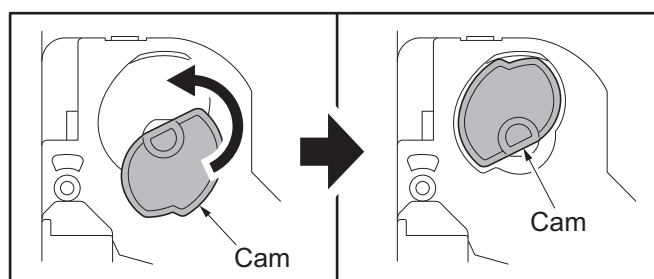


Figure 1-5-56

(2) Detaching and refitting the drum/developing drive unit

Procedure

1. Remove drum units (K, M, C, Y) and developing units (K, M, C, Y) (see page 1-5-21, 19).
2. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
3. Remove the left rear cover, left cover and left lower cover (see page 1-5-9).
4. Remove the engine PWB (see page 1-5-27).
5. Remove the screw and release the hook, and then remove the developing fan unit.

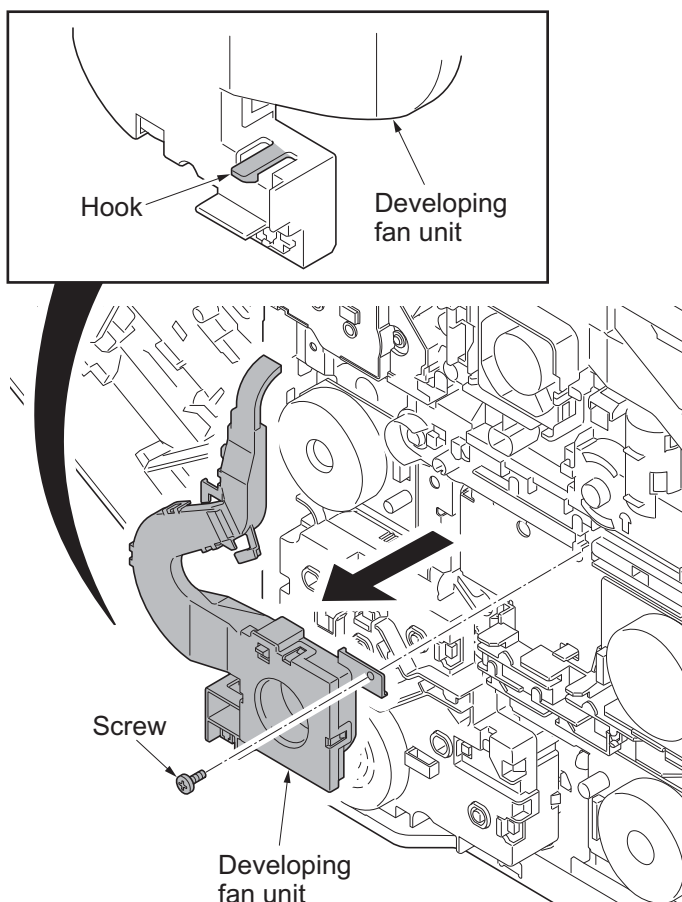


Figure 1-5-57

6. Remove the screw and then remove the ID guide.

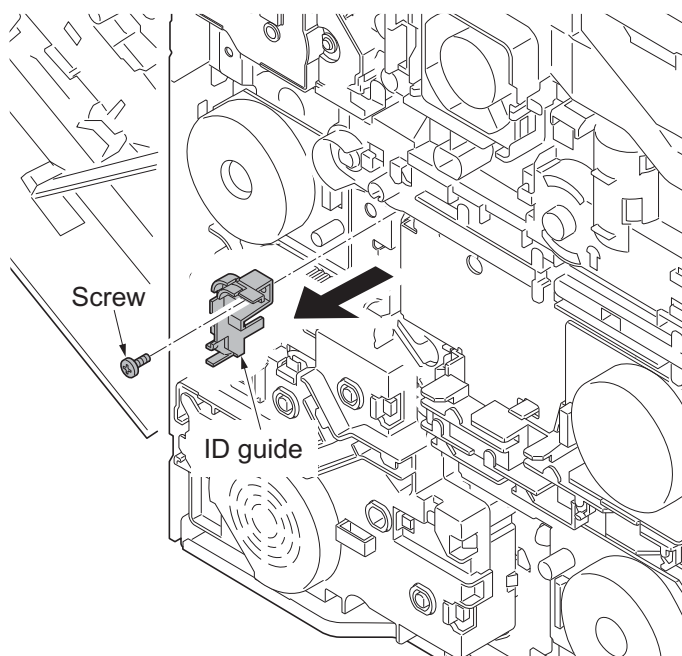


Figure 1-5-58

7. Remove five screws and then remove drum/developing drive unit.
8. Check or replace the drum/developing drive unit and refit all the removed parts.

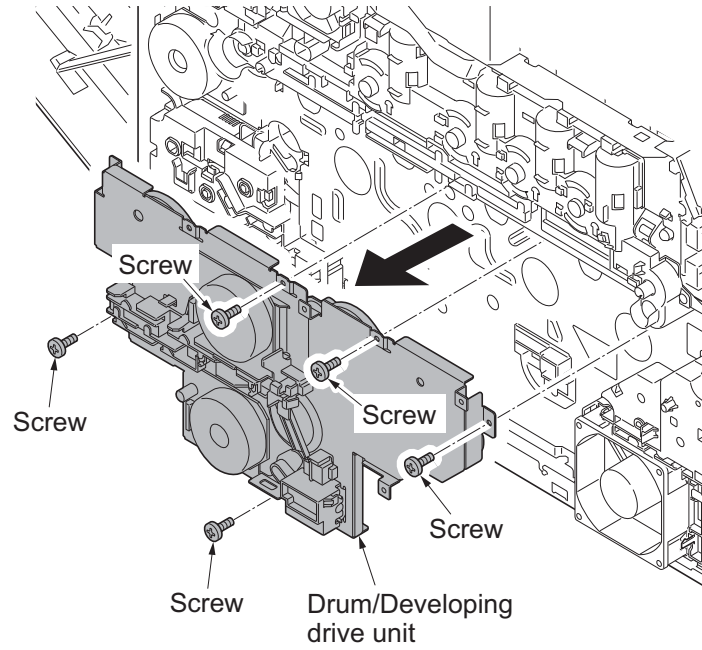


Figure 1-5-59

(3) Detaching and refitting the paper feed drive unit

Procedure

1. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
2. Remove the left rear cover, left cover and left lower cover (see page 1-5-9).
3. Remove connector (YC3) from engine PWB.

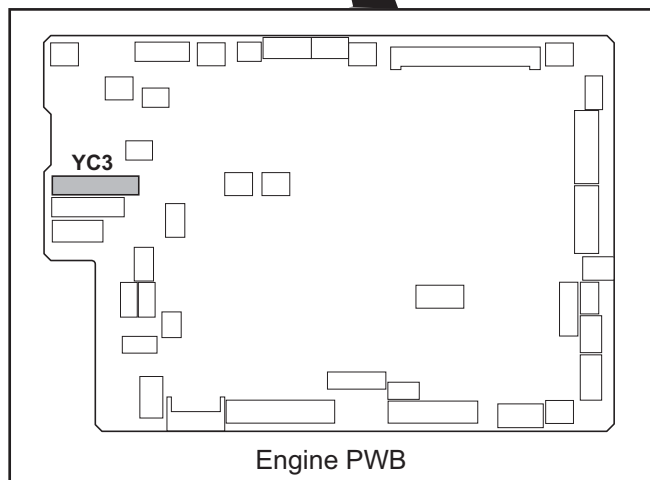
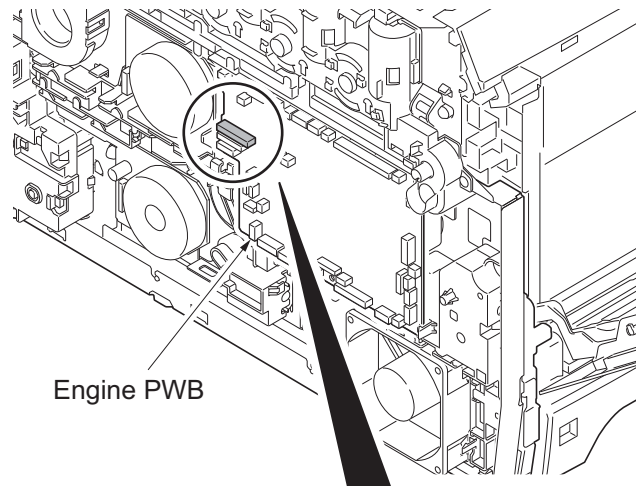


Figure 1-5-60

4. Remove four screws and then remove the paper feed drive unit.
5. Check or replace the paper feed drive unit and refit all the removed parts.

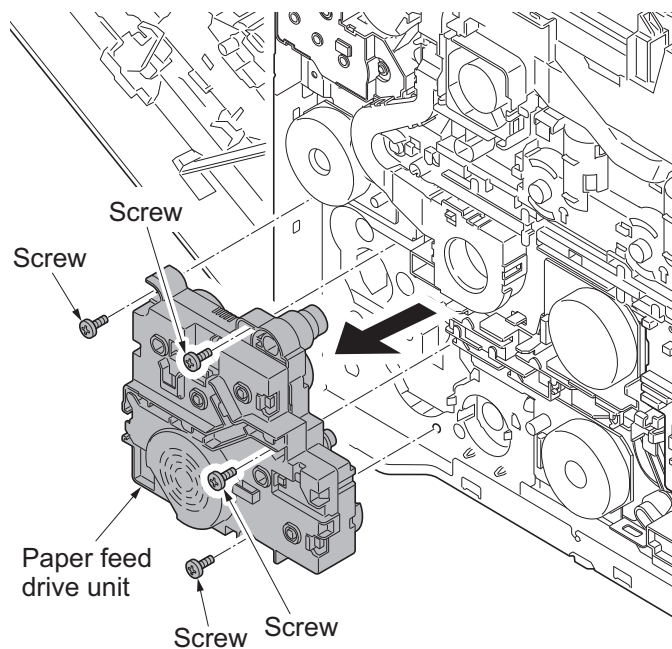


Figure 1-5-61

(4) Detaching and refitting the fuser pressure drive unit

Procedure

1. Remove the fuser unit (see page 1-5-26).
2. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
3. Remove the left rear cover and left cover (see page 1-5-9).
4. Remove connector (YC38) from engine PWB.

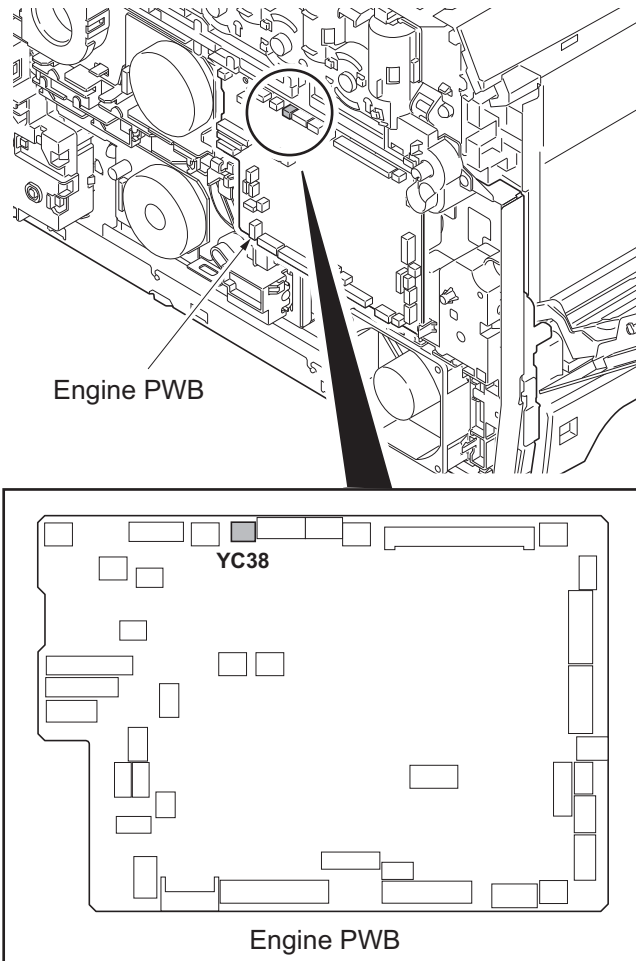
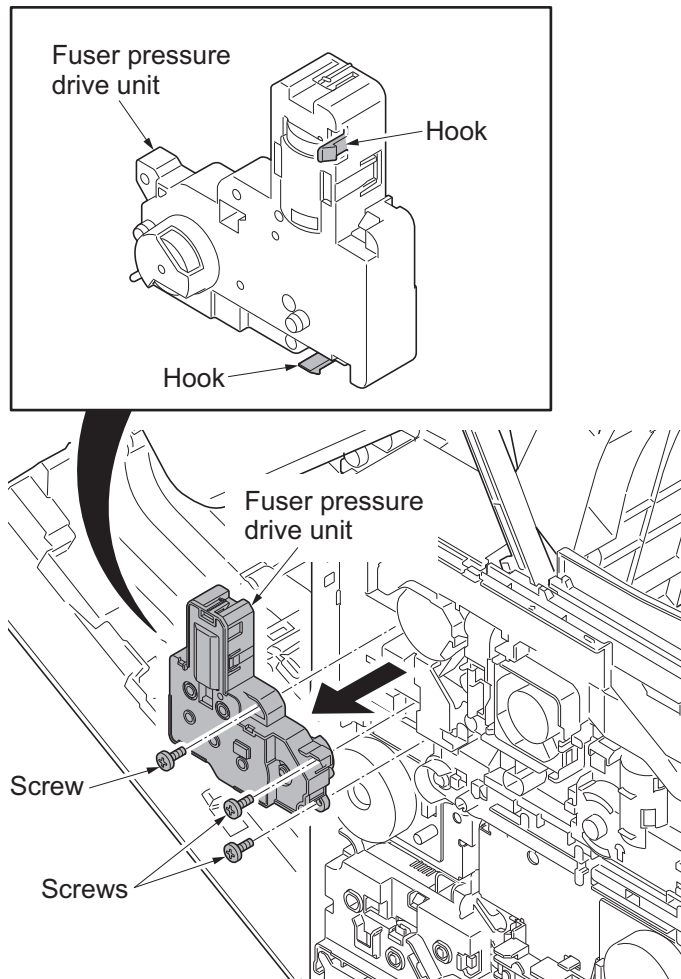


Figure 1-5-62

5. Remove the developing fan unit (see page 1-5-38).
6. Remove three screws.
7. Release two hooks remove the fuser pressure drive unit.
8. Check or replace the fuser pressure drive unit and refit all the removed parts.

**Figure 1-5-63**

(5) Detaching and refitting the middle transfer drive unit

Procedure

1. Remove the intermediate transfer unit (see page 1-5-22).
2. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
3. Remove the left rear cover and left cover (see page 1-5-9).
4. Remove the fuser pressure drive unit (see page 1-5-41).
5. Remove connector (YC15) from engine PWB.

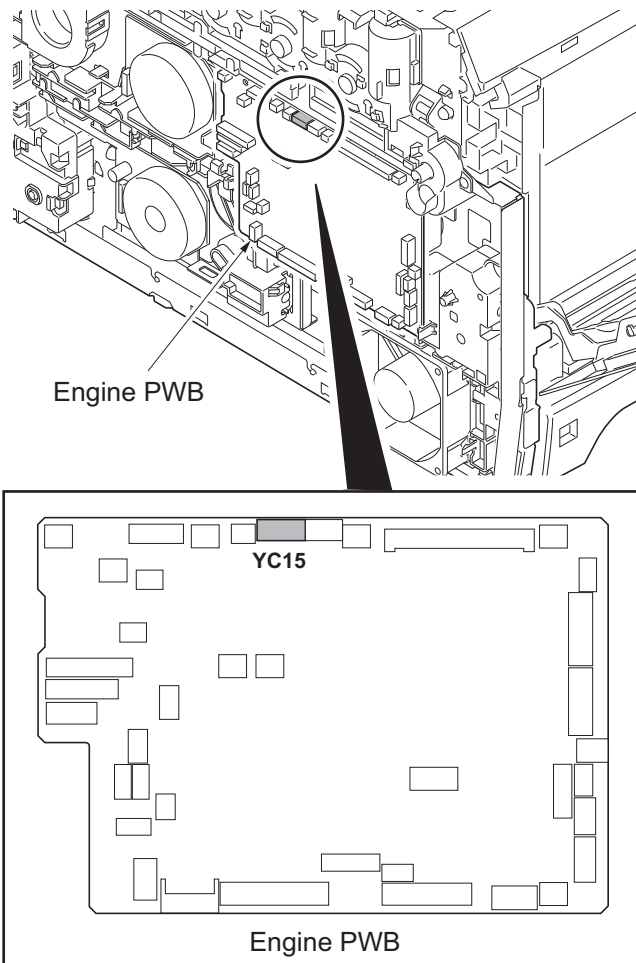


Figure 1-5-64

6. Remove the screw and then remove the ID guide.

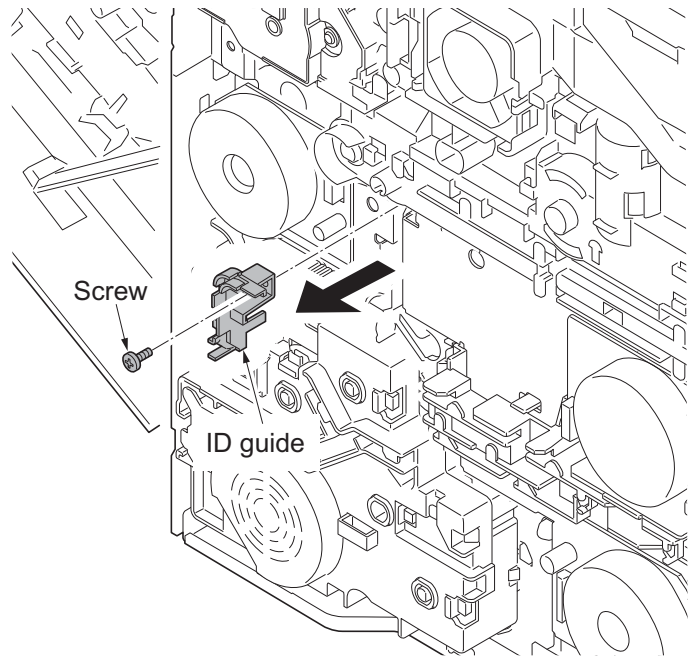


Figure 1-5-65

7. Remove three screws and then remove the middle transfer drive unit.
8. Check or replace the middle transfer drive unit and refit all the removed parts.

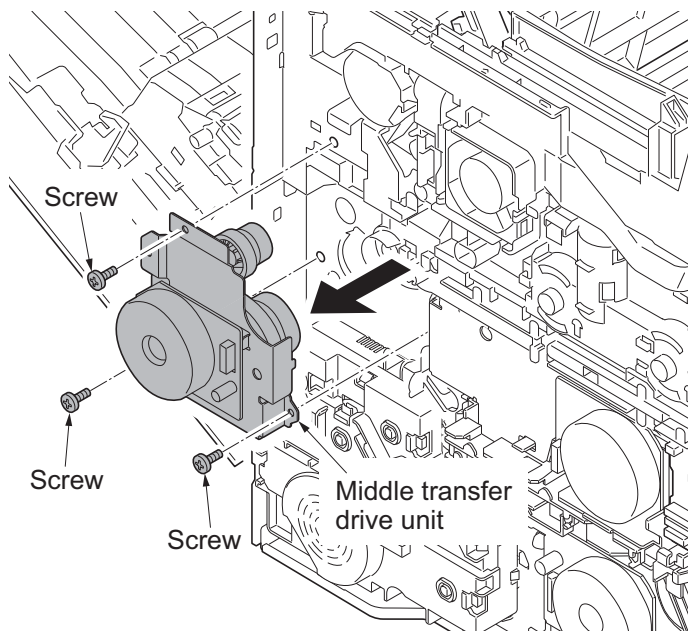


Figure 1-5-66

1-5-10 Optical section

(1) Detaching and refitting the laser scanner unit

Procedure

1. Remove the intermediate transfer unit (see page 1-5-22).
2. Remove drum units (K, M, C, Y) and developing units (K, M, C, Y) (see page 1-5-21, 19).
3. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
4. Remove the left rear cover and left cover (see page 1-5-9).
5. Remove two connectors (YC32, YC32) from engine PWB.

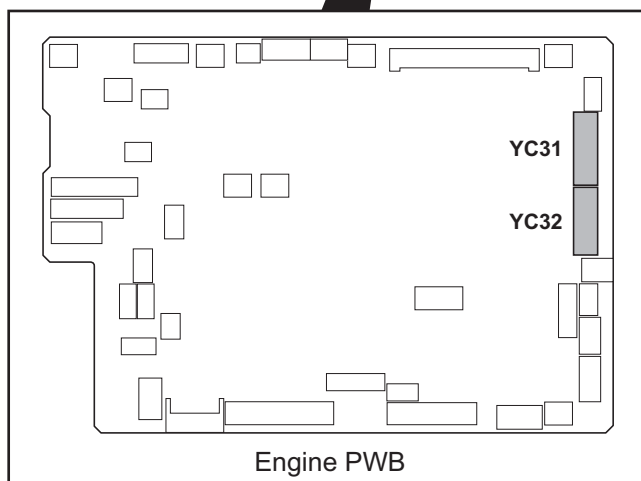
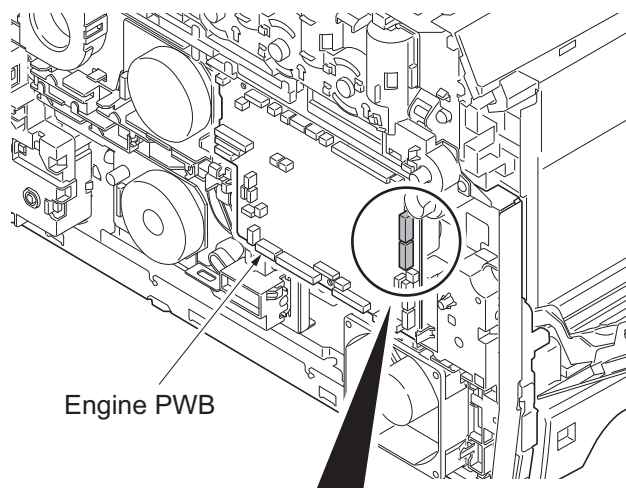


Figure 1-5-67

6. Draw two connectors (YC31, YC32) into the machine inside.

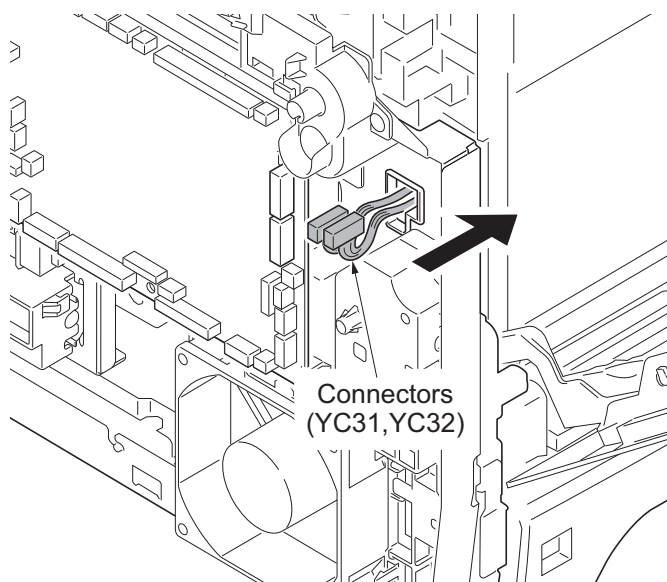


Figure 1-5-68

7. Remove the right rear cover, right cover and right lower cover (see page 1-5-6).
8. Remove the controller shield (see page 1-5-30).
9. Remove two connectors (YC38, YC40) from main PWB.

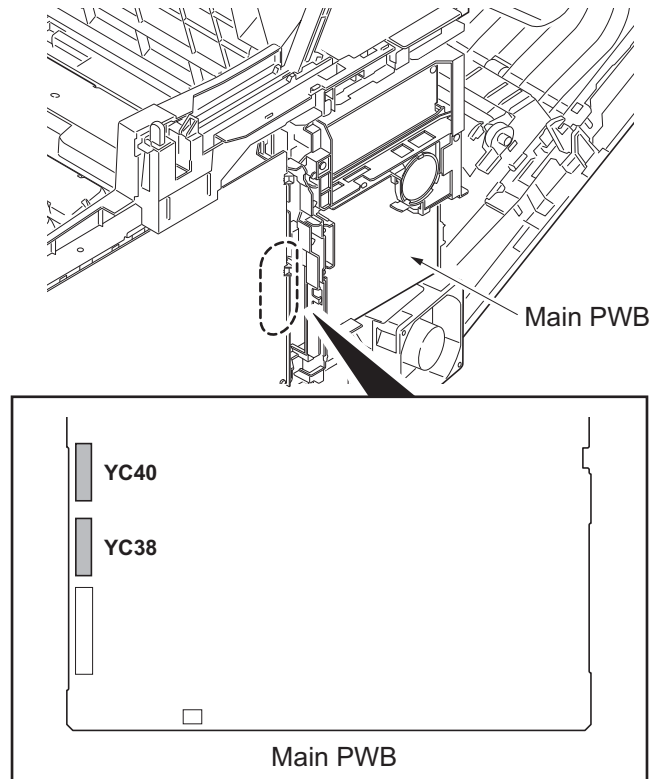


Figure 1-5-69

10. Draw two connectors (YC38, YC40) into the machine inside.

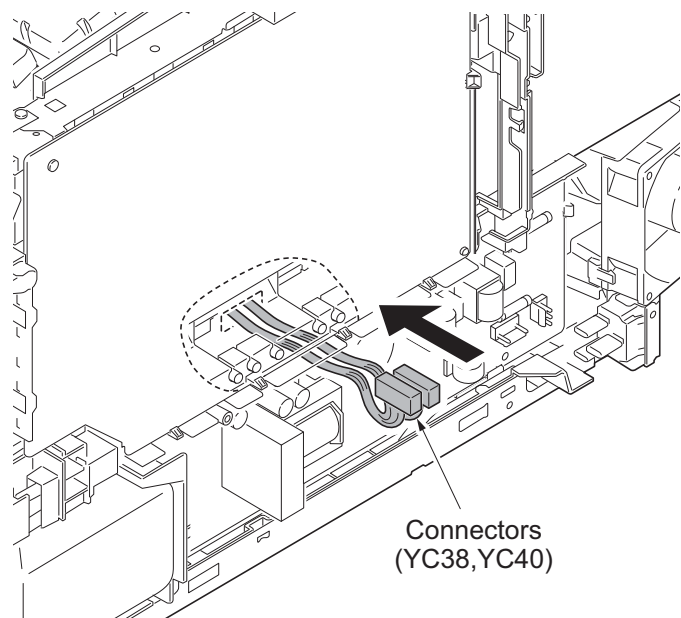


Figure 1-5-70

11. Remove each three screws and then remove laser scanner unit (KM, CY).
12. Check or replace the laser scanner unit and refit all the removed parts.

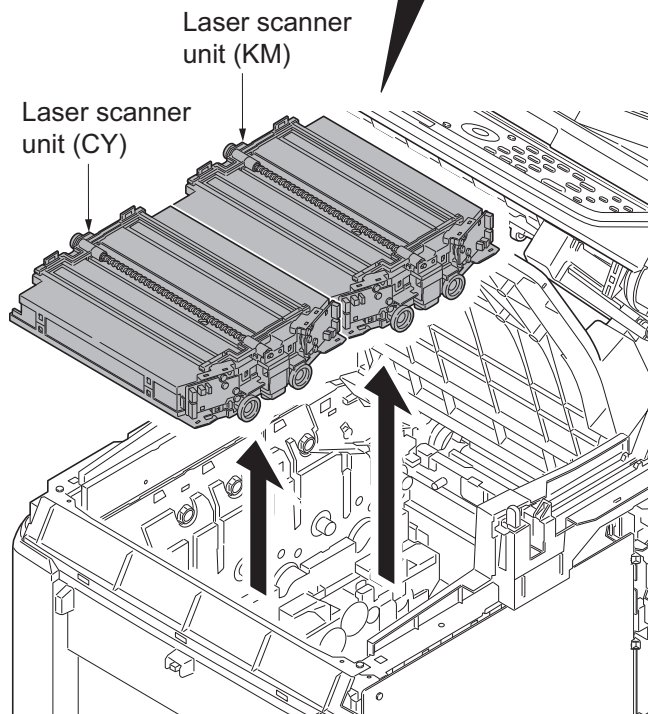
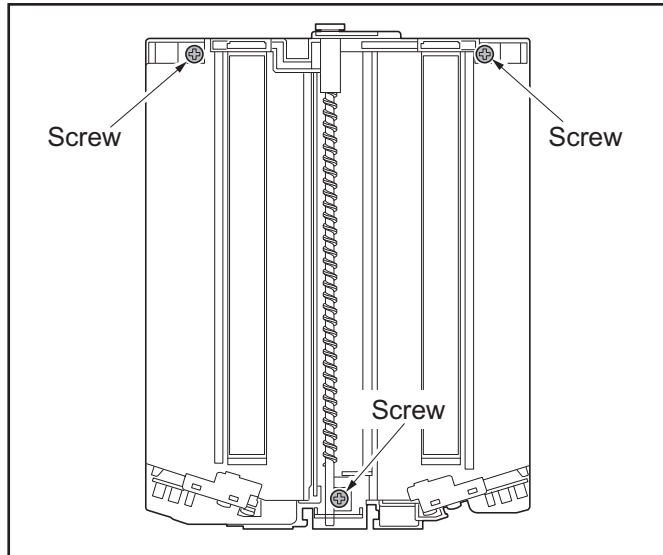


Figure 1-5-71

(2) Detaching and refitting the scanner unit

Procedure

1. Remove the document processor (see page 1-5-78).
2. Remove the connector (YC36) and two FFCs (YC8, YC43) from main PWB.
3. Open the scanner unit.

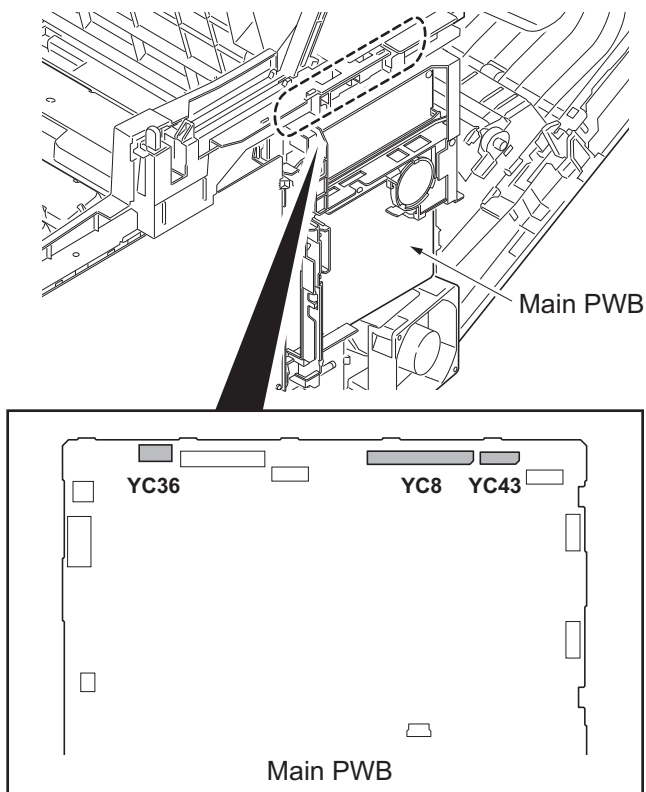


Figure 1-5-72

4. Remove the motor wire, CCD wire and LCD wire from the wire holder.

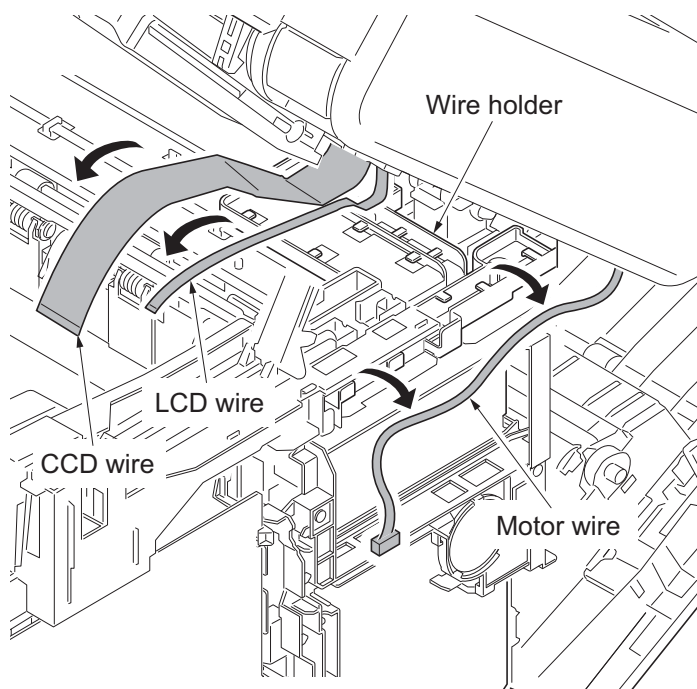


Figure 1-5-73

5. Release each four hooks and then remove left and right rails.

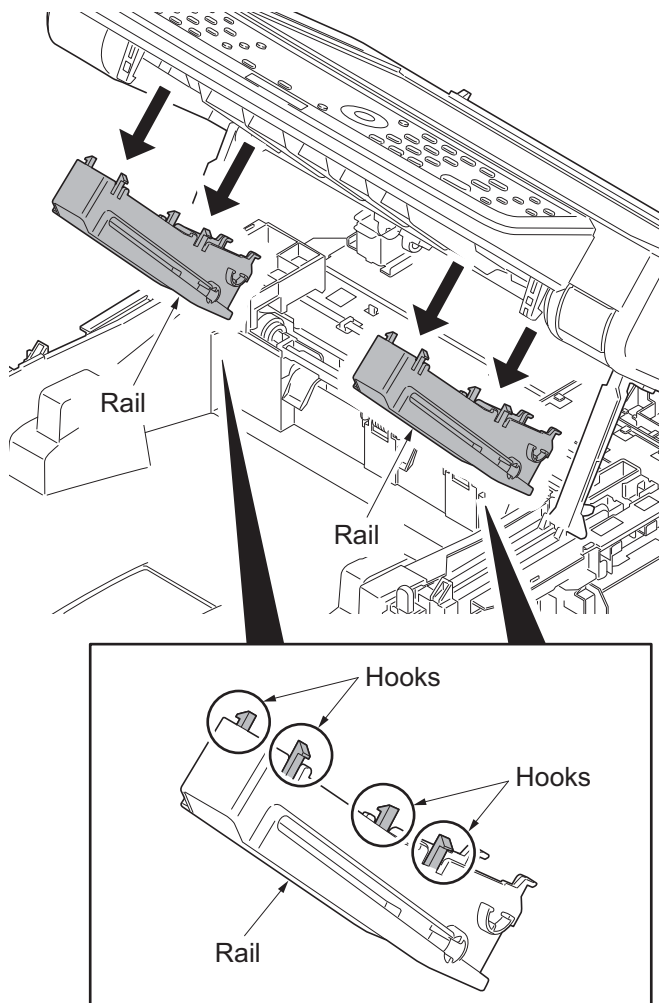


Figure 1-5-74

6. Remove two springs from left and right rails.

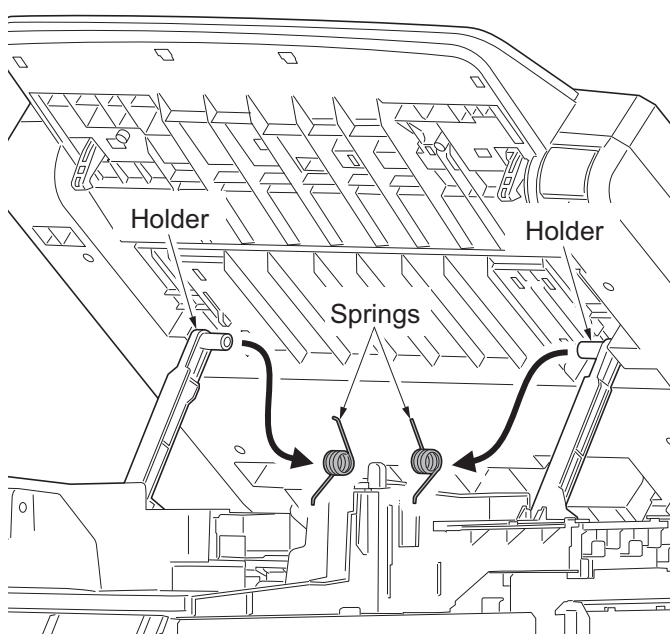


Figure 1-5-75

7. Remove left and right rails from the scanner unit.

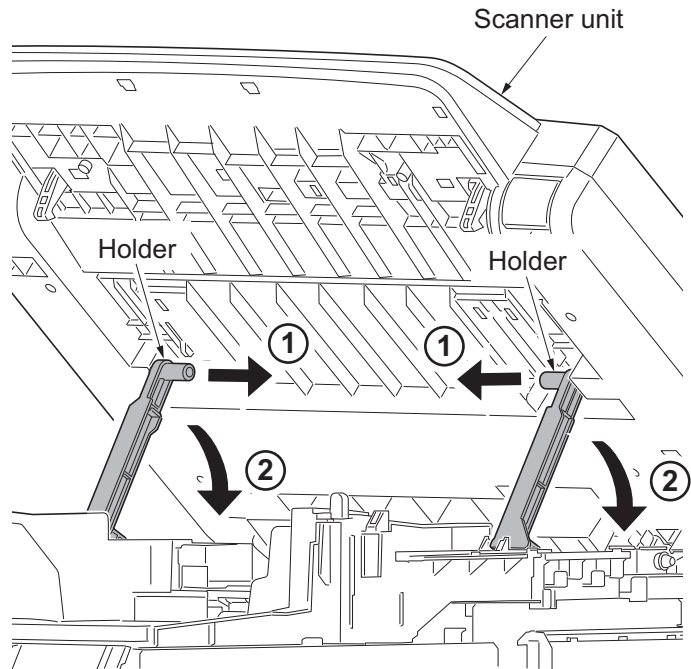


Figure 1-5-76

8. Remove left and right washers and springs and then pull pins out.

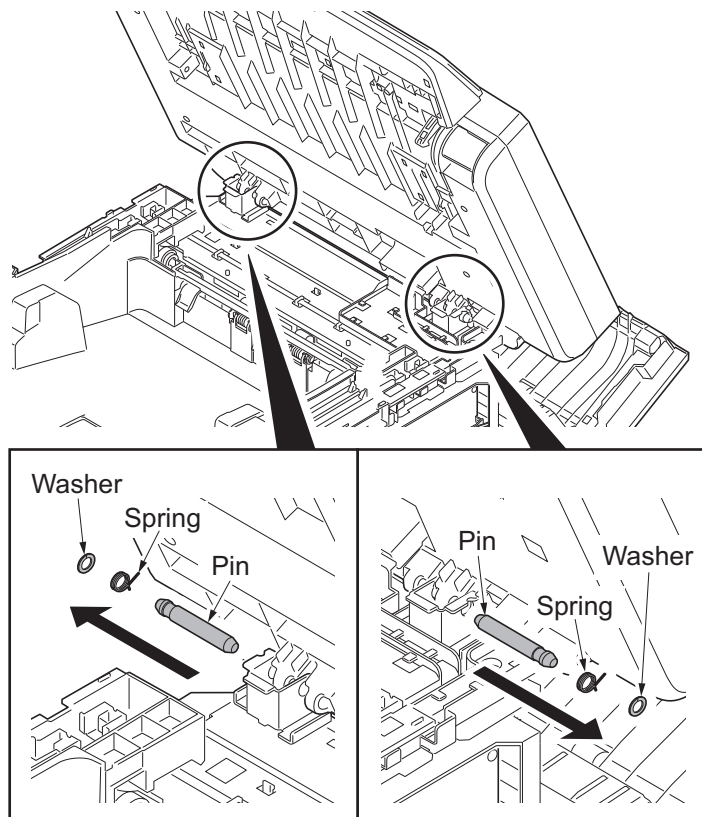


Figure 1-5-77

9. Remove the scanner unit.

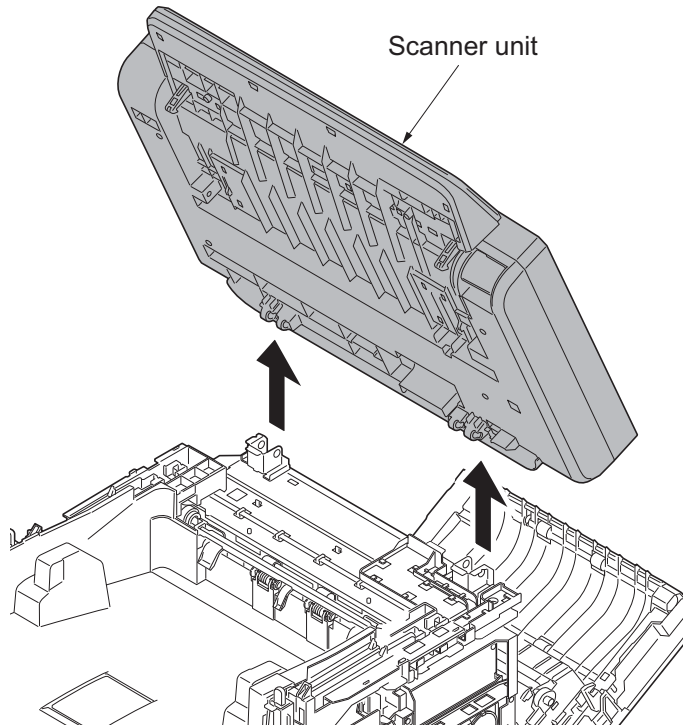


Figure 1-5-78

(3) Detaching and refitting the image scanner unit

Procedure

(Detach the covers)

1. Open the paper conveying unit.
2. Release the hook and then remove the IF cover.

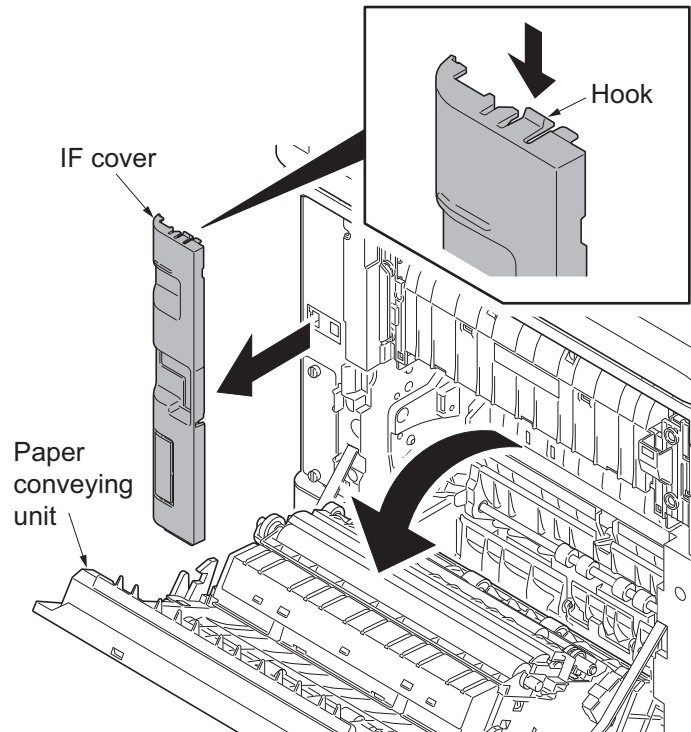


Figure 1-5-79

3. Remove two screws and then remove the rear upper cover.

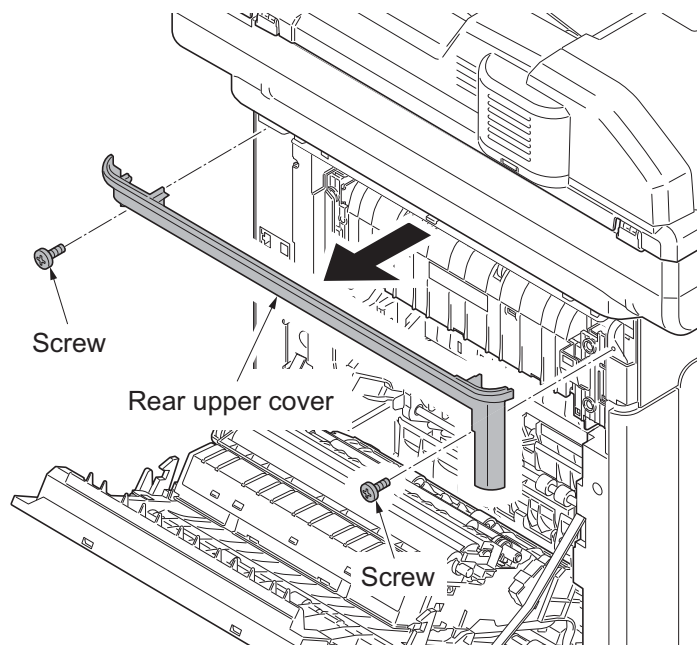


Figure 1-5-80

4. Pull the inner tray lever and open the inner tray.
5. Release two hooks. Slide the right upper cover backward and then remove it.

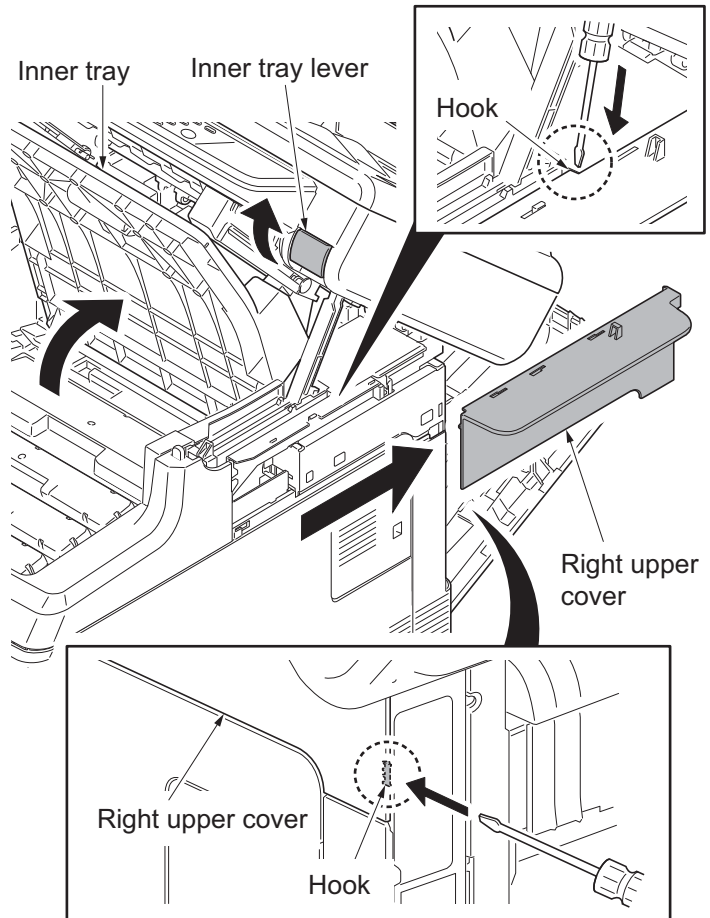


Figure 1-5-81

6. Release the hook. Slide the left upper cover backward and then remove it.

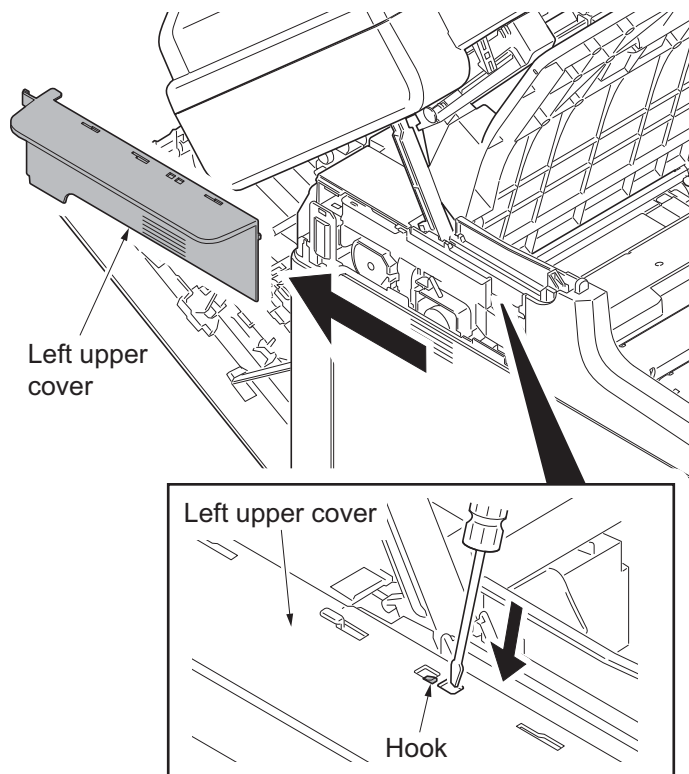


Figure 1-5-82

7. Release five hooks (hook A → B) and then remove the front cover.

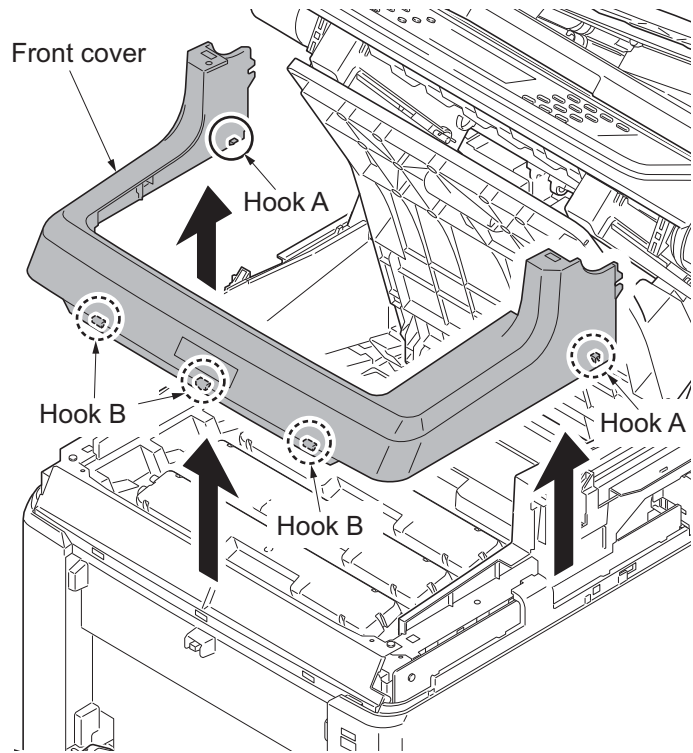


Figure 1-5-83

8. Slide the power source cover backward and then remove it.

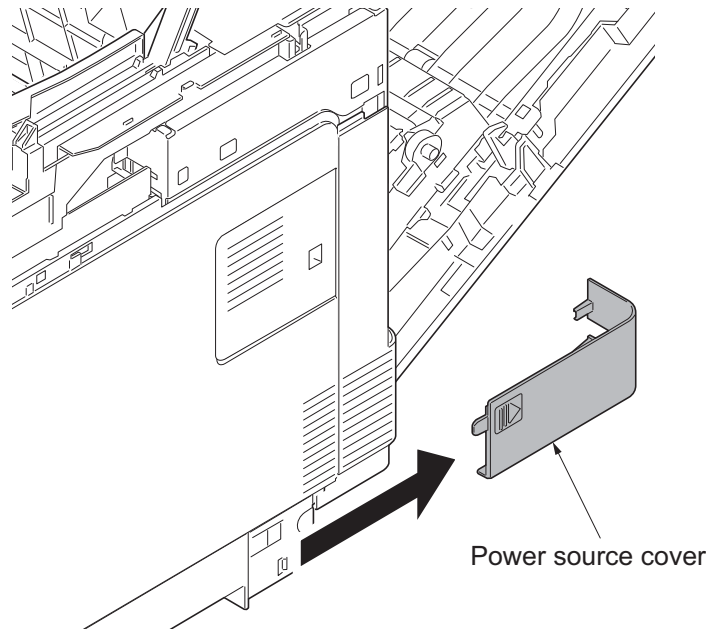


Figure 1-5-84

9. Remove the screw.
10. Release four hooks. Slide the right rear cover backward and then remove it.

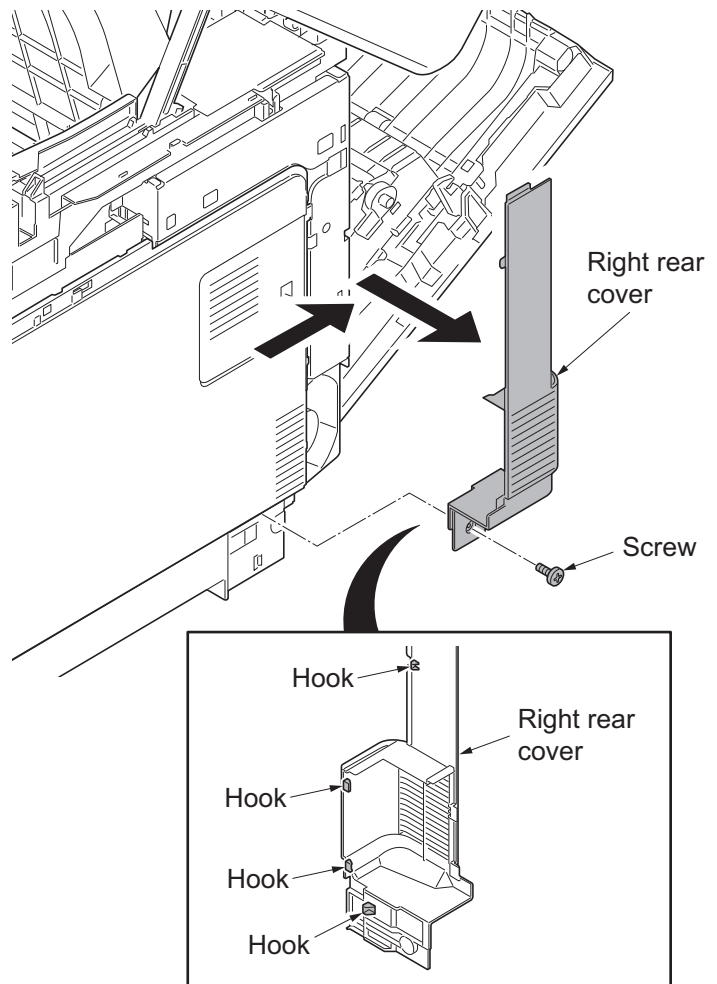


Figure 1-5-85

11. Open the memory cover and then remove it.

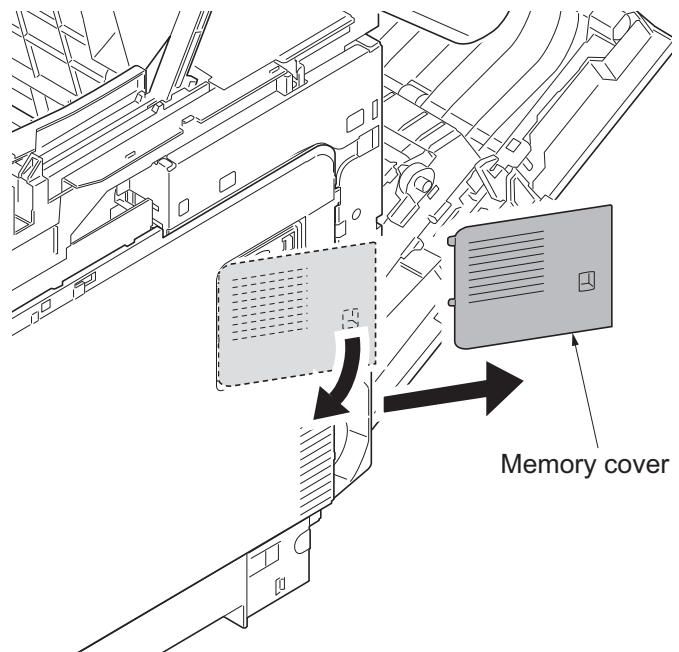


Figure 1-5-86

12. Open the waste toner cover.
13. Push the lock release button and then remove the waste toner box.
(Close the cap of the waste toner box.)

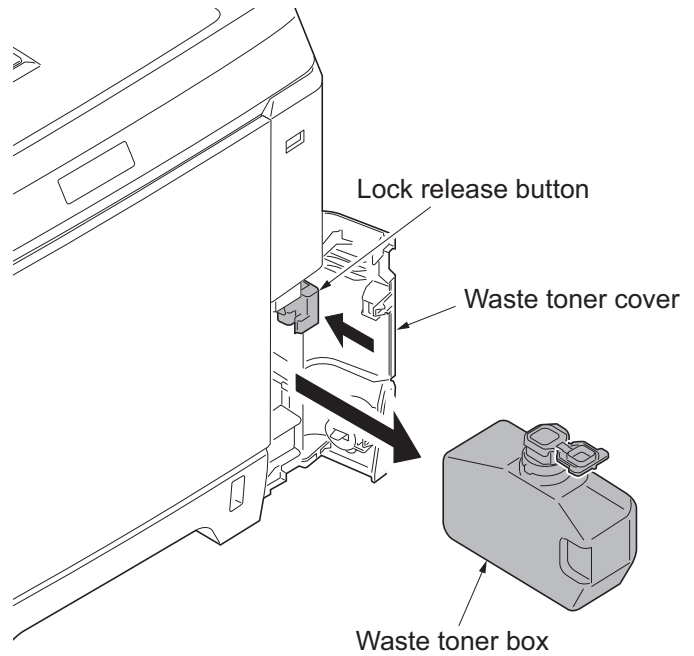


Figure 1-5-87

14. Open the MP tray.
15. Release four hooks (hook A → B → C).
Slide the right cover forward and then remove it.
16. Remove the waste toner cover.

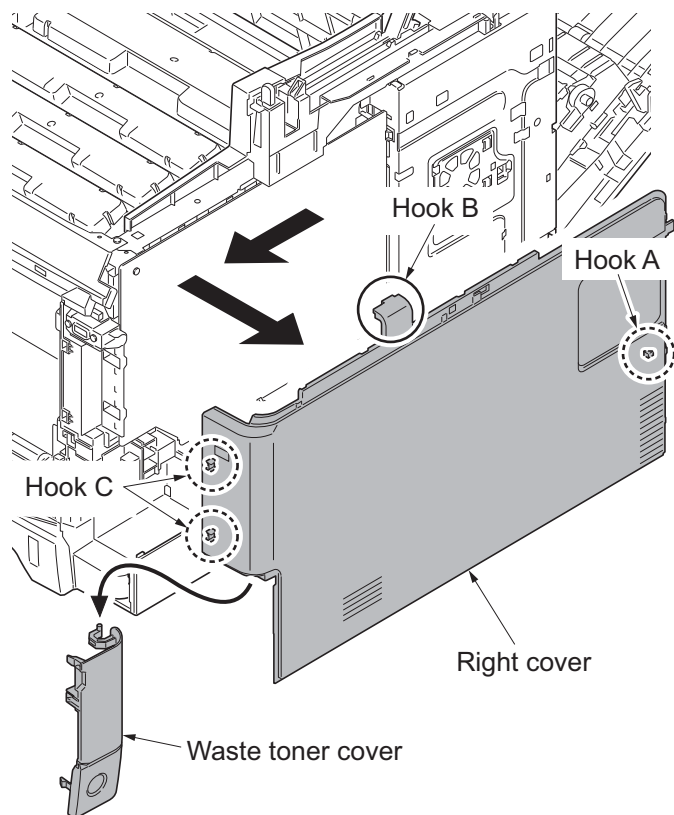


Figure 1-5-88

17. Release the hook. Slide the right lower cover forward and then remove it.

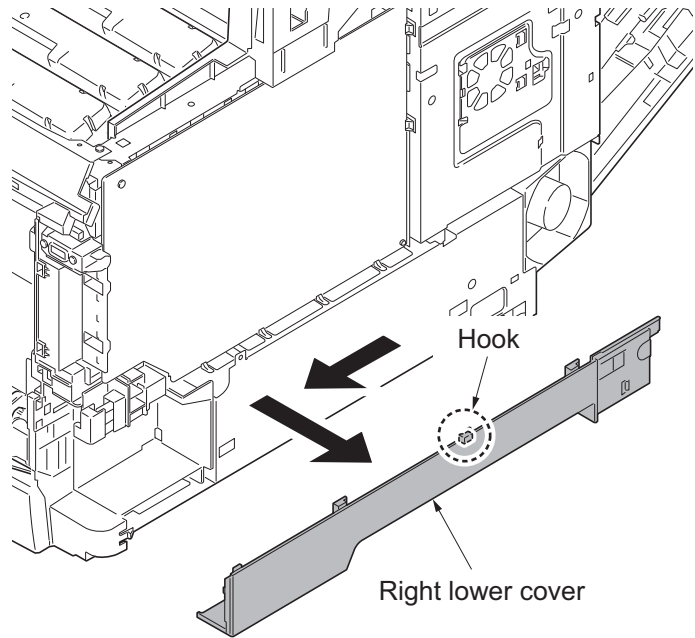


Figure 1-5-89

(Fully open the Document Processor and the scanner unit.)

18. Remove the left and right pins by pushing the pins out from inside while opening the top tray till the half way of the opening angle. (After this procedure, the top tray goes down and only the scanner unit opens.)

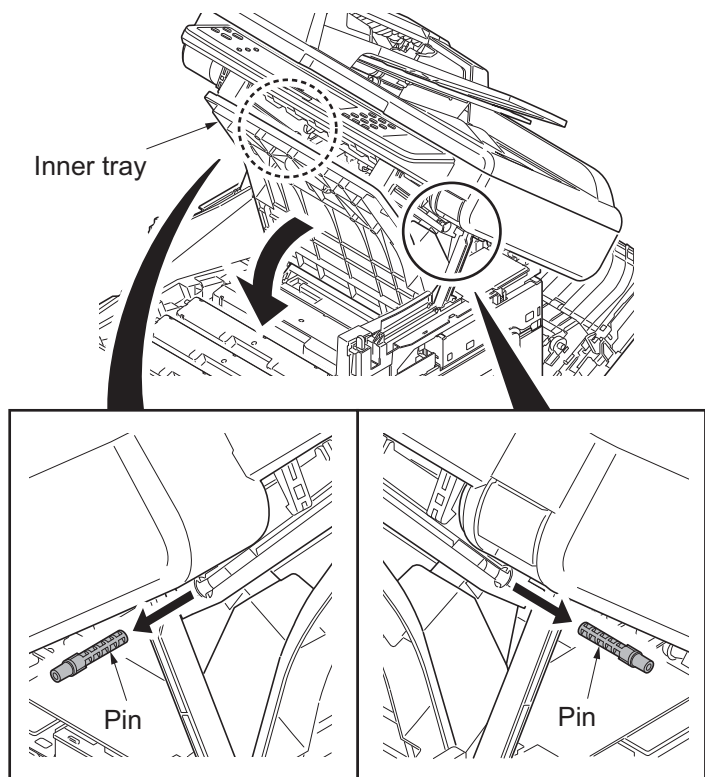


Figure 1-5-90

19. Release each four hooks and remove the left and right rails.

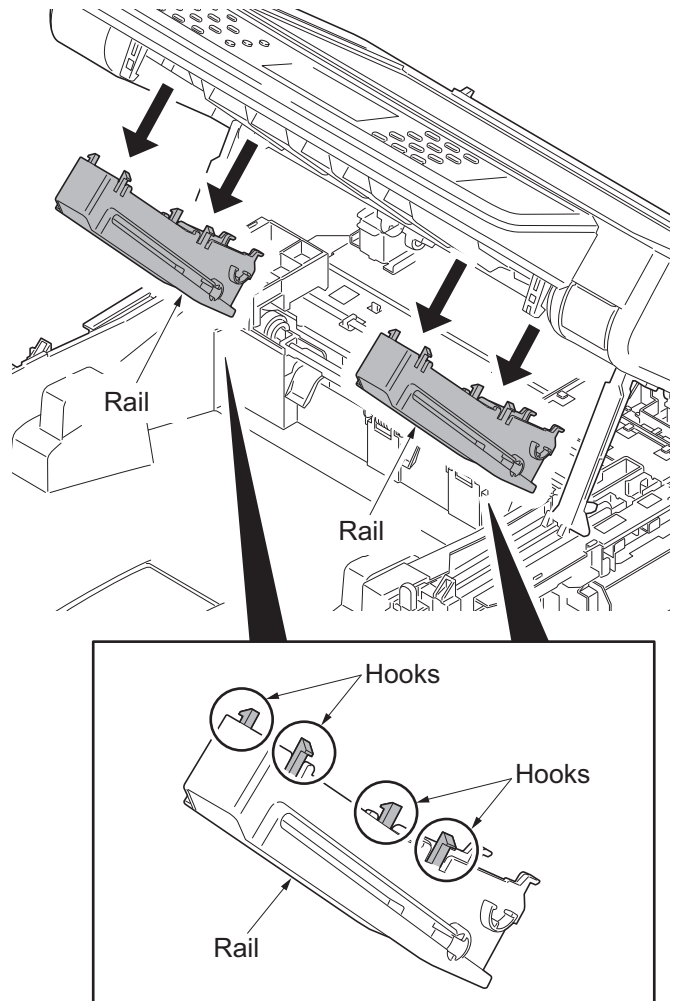


Figure 1-5-91

20. Remove two springs from the left and right holders.

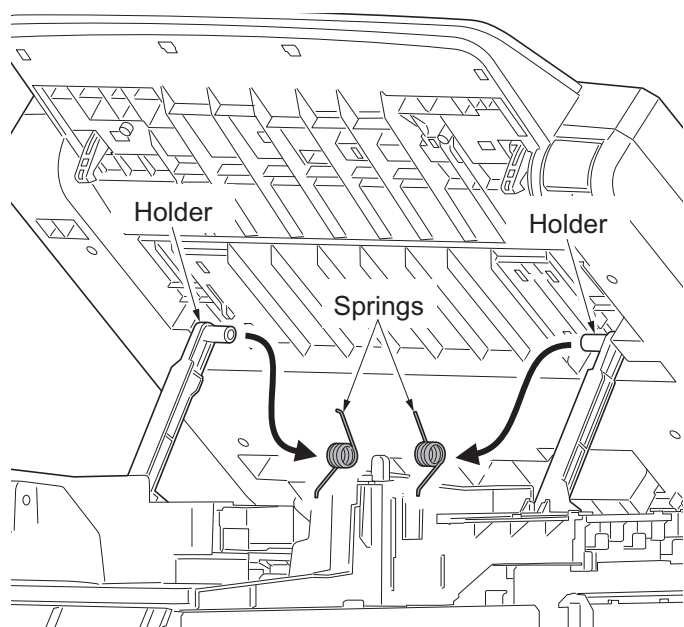
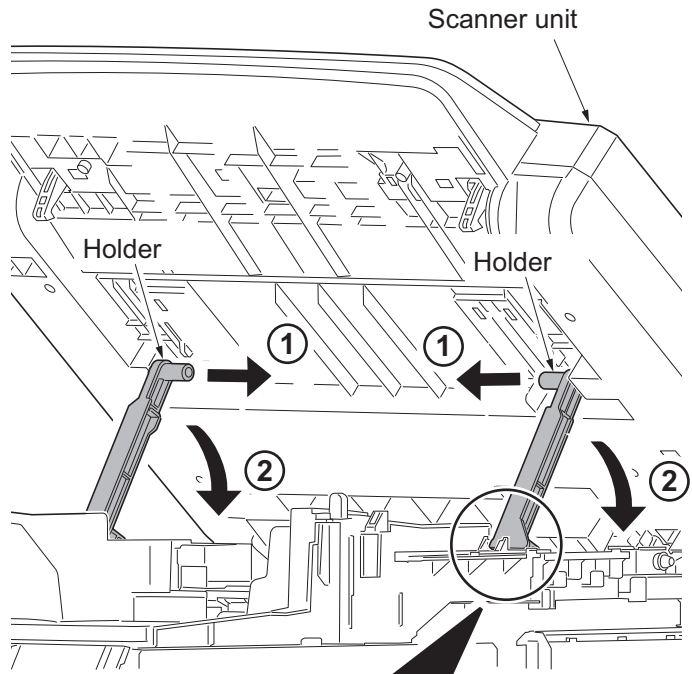


Figure 1-5-92

21. Remove left and right holders from the scanner unit.



*: When reattaching the holders in the scanner unit, assemble the parts so that the holders are in front of the triangle ribs of the ISU frame.
(If the holders are behind the triangle ribs, the scanner unit cannot be closed.)

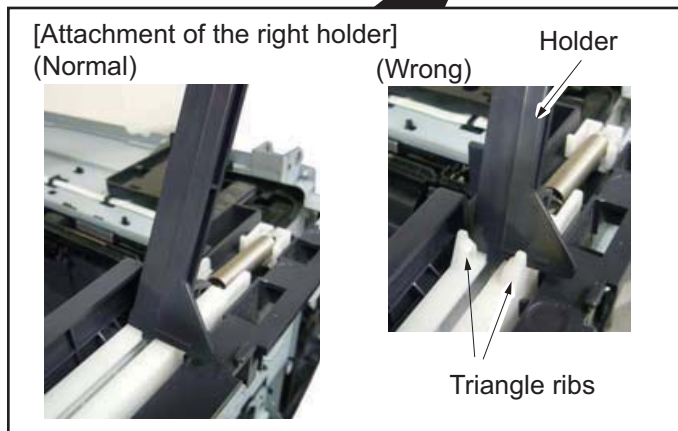


Figure 1-5-93

22. Release four hooks and remove the upper middle cover.

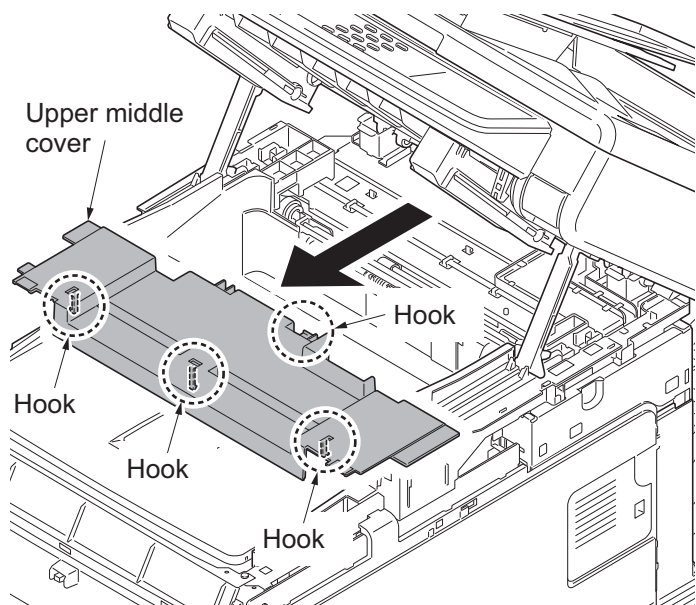


Figure 1-5-94

(Detach the high voltage PWB (HVU PWB).)

23. Remove the screw.
24. Release four hooks of the upside of the PWB circled in the figure and slant the upside of the high voltage PWB like opening it, and then remove the FFC.
25. After surely slanting the high voltage PWB till ninety degree, pull it out toward the machine right side.

*: If trying to pull out the PWB on the way of slanting till ninety degree, the hooks securing the PWB's low side may damage. (The hooks are circled at the figure.)

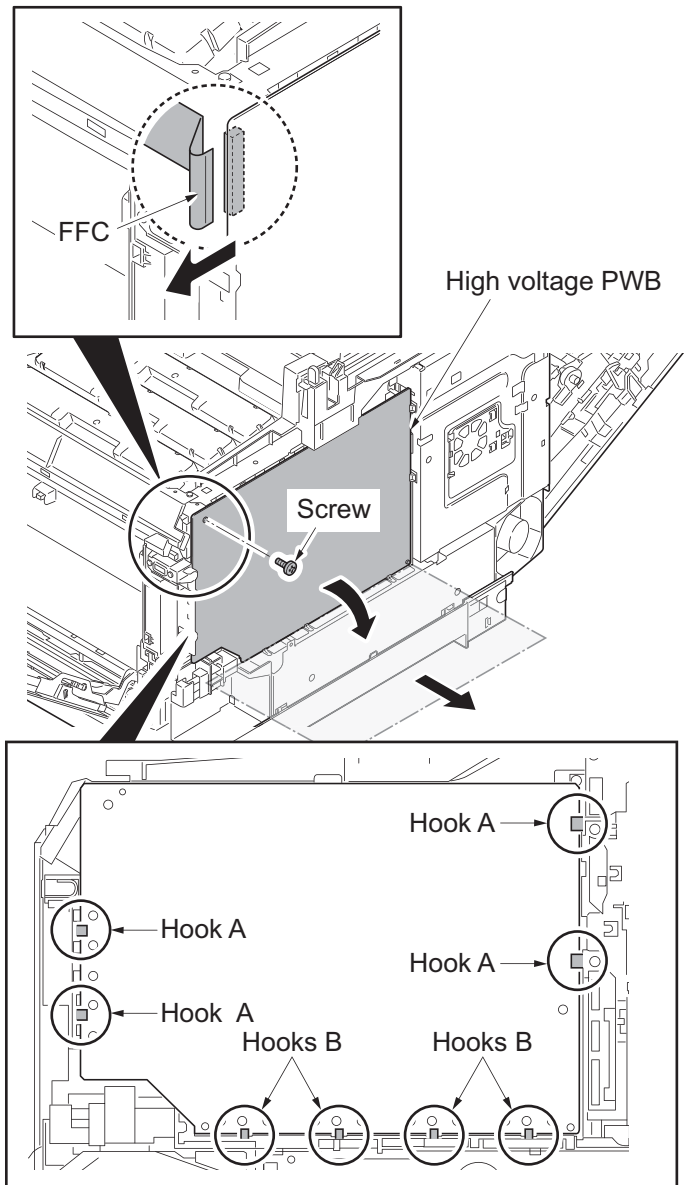
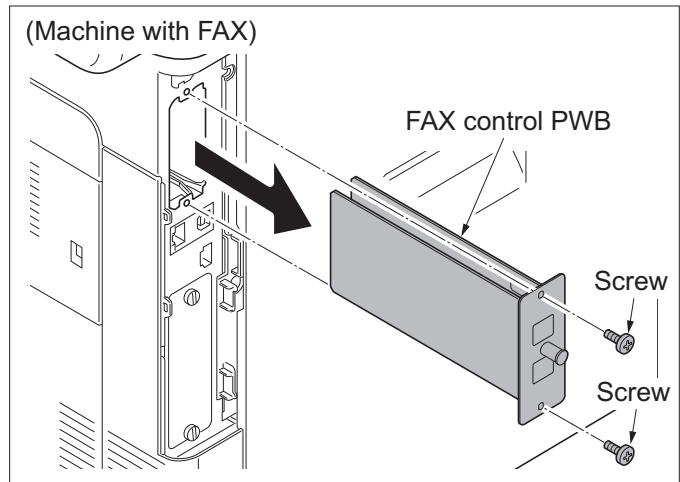


Figure 1-5-95

(Disconnect the connectors on the main PWB.)

[For the machine with FAX]

26. Remove two screws and then remove the FAX control PWB.



[For the machine with the hard disk or the network interface card]

27. Remove two pins and then pull out the hard disk or the network interface card.

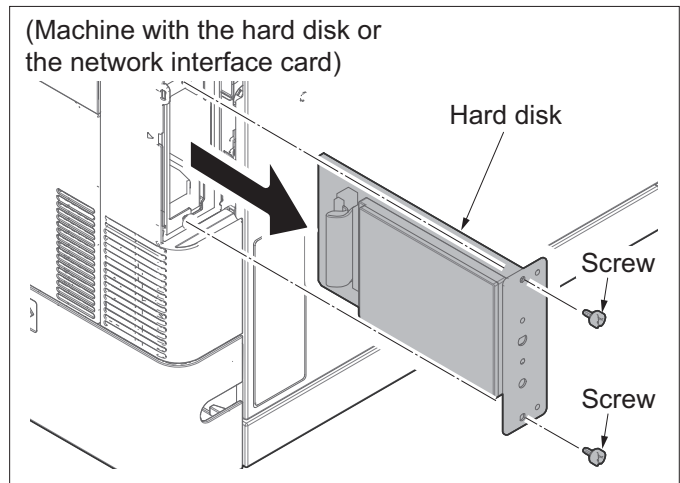


Figure 1-5-96

28. Remove four screws and then remove the power source shield.

*: Screws A and B are unidentical, Thus, do not mix up.

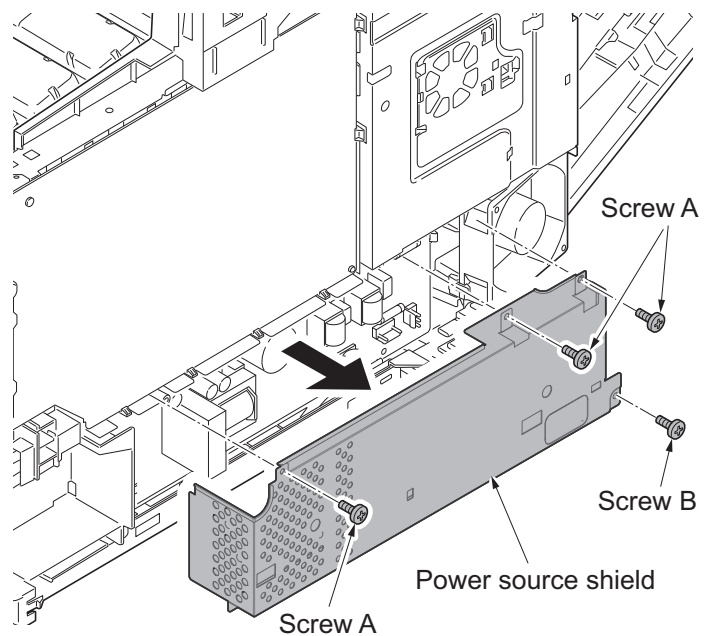


Figure 1-5-97

29. Pick up the hook A and then open the fan bracket.
30. Release the hook B and slide the fan plate to release the remaining three hooks, and then remove it.

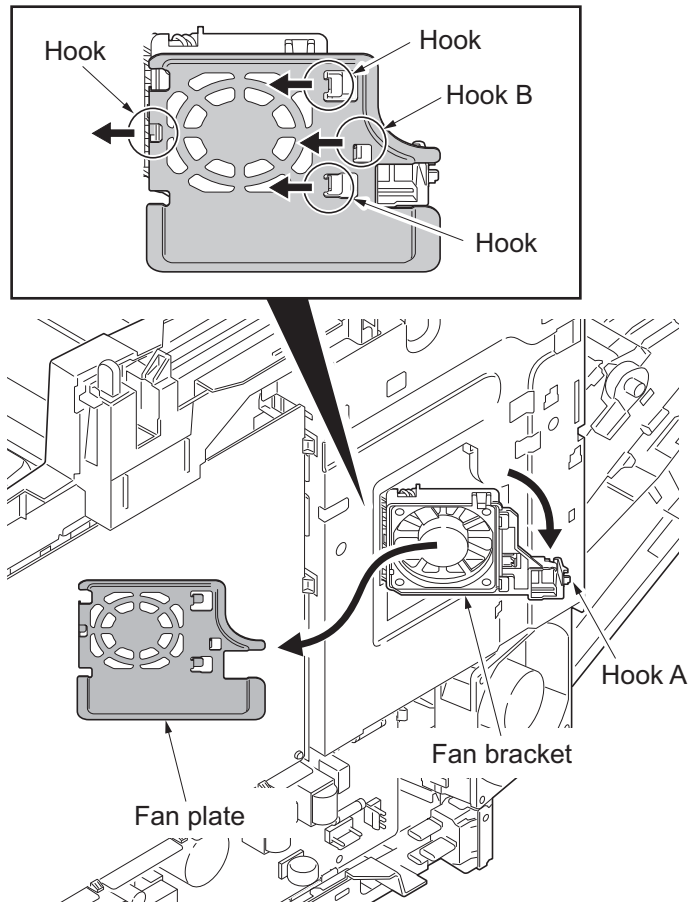


Figure 1-5-98

31. Remove the screw and remove the fuser wire cover.
32. Remove the cap.

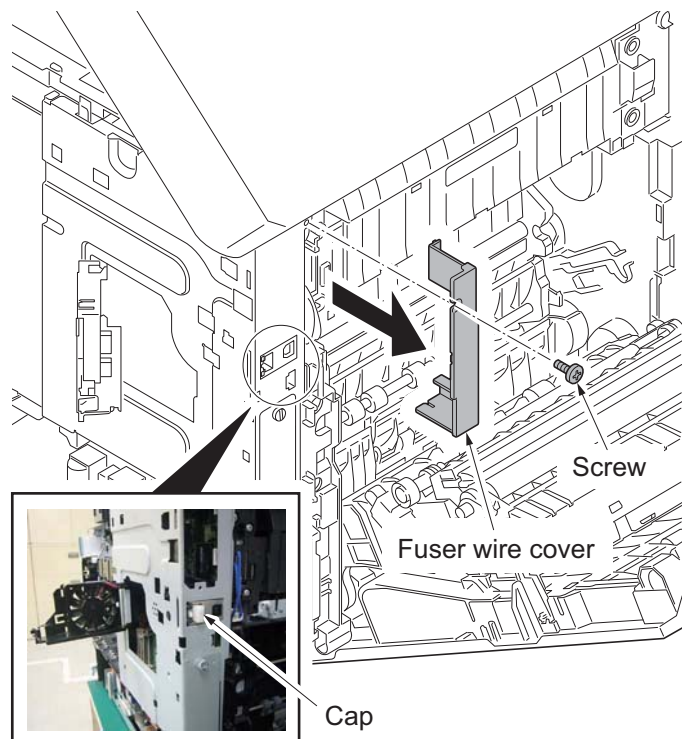


Figure 1-5-99

33. Remove five screws and the controller shield.

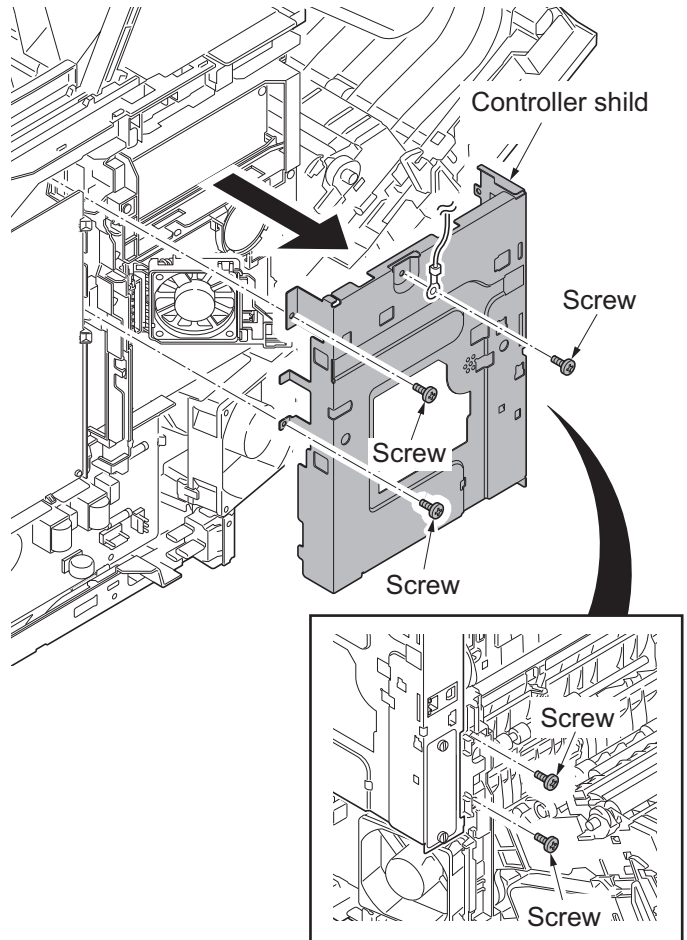


Figure 1-5-100

34. Disconnect the connector (YC41) of the controller fan motor.
35. Open the fan bracket and remove it.

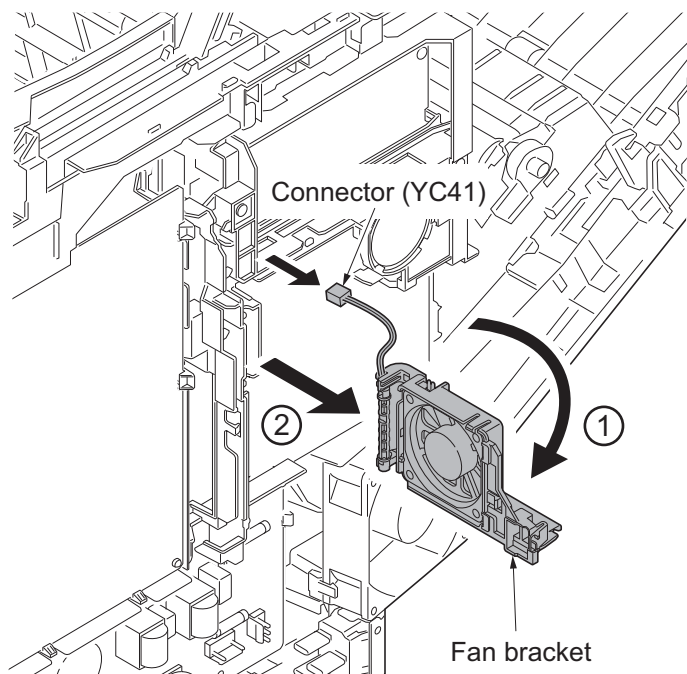


Figure 1-5-101

36. Disconnect the connectors (YC15, YC37, YC40, YC38, YC39, YC42) from the main PWB.
 37. Loosen four screws fixing the machine rear side of the main PWB.
- *: Be sure to retighten the screws after reattaching the wire holder.

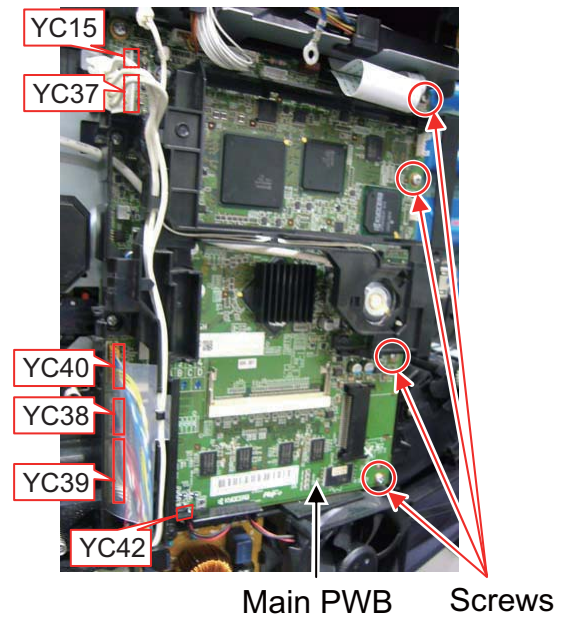


Figure 1-5-102

38. Remove the wires from the wire holder.
39. Remove two screws.
40. Release three hooks and then remove the wire holder.

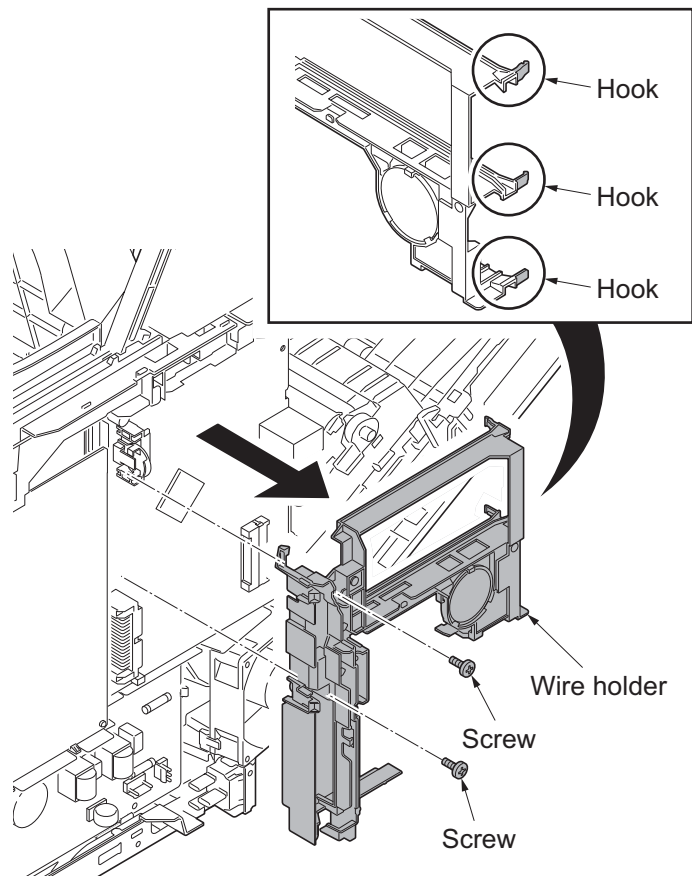


Figure 1-5-103

41. Disconnect the FFC wire at the connector YC8 on the main PWB.

*: Reconnect the connectors on the main PWB before reattaching the wire holder detached at Step 40.

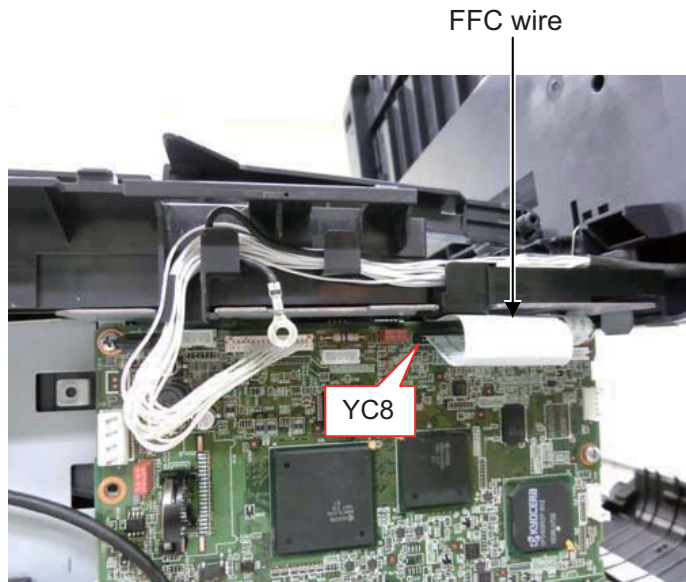


Figure 1-5-104

42. Remove the wire holder and the ferrite core.

(Upper side of the main PWB)

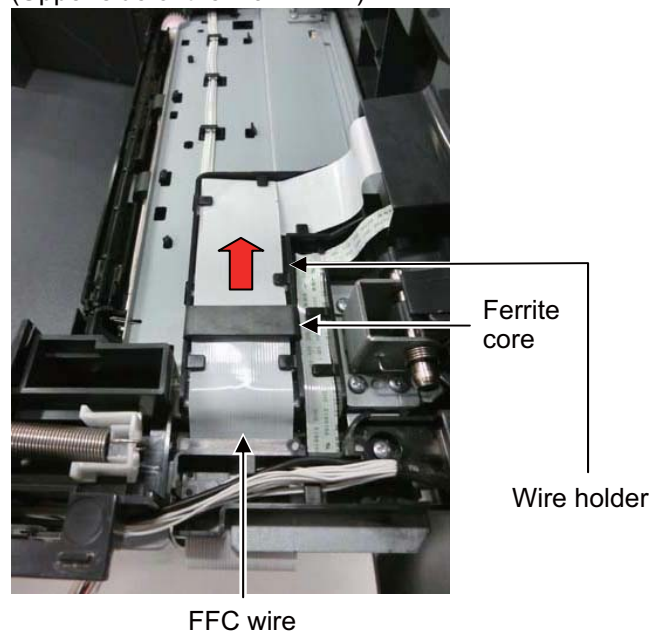


Figure 1-5-105

43. Reattach the left and right holders in a reverse manner of removal at Step 20, 21.
Close the Document Processor and the scanner unit.

(Remove the ISU cover.)

- 44. Open the DP top cover and remove the screw fixing the DP rear cover.

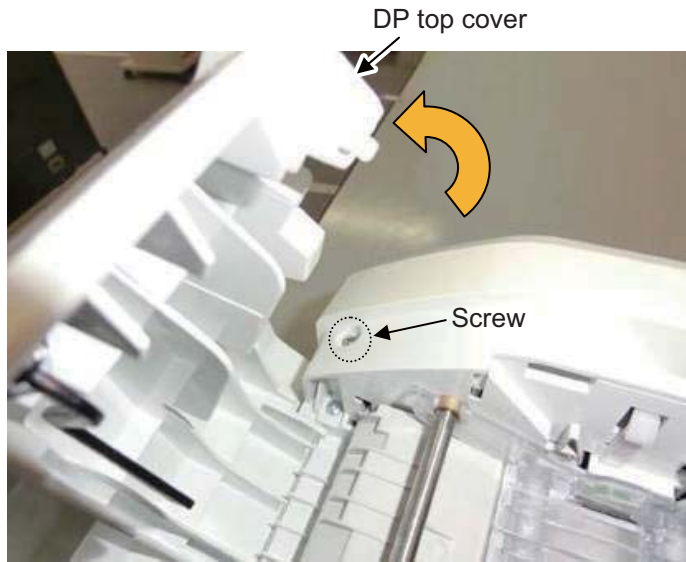


Figure 1-5-106

- 45. Open the Document Processor and release two hooks fixing the original tray. And close the Document Processor.

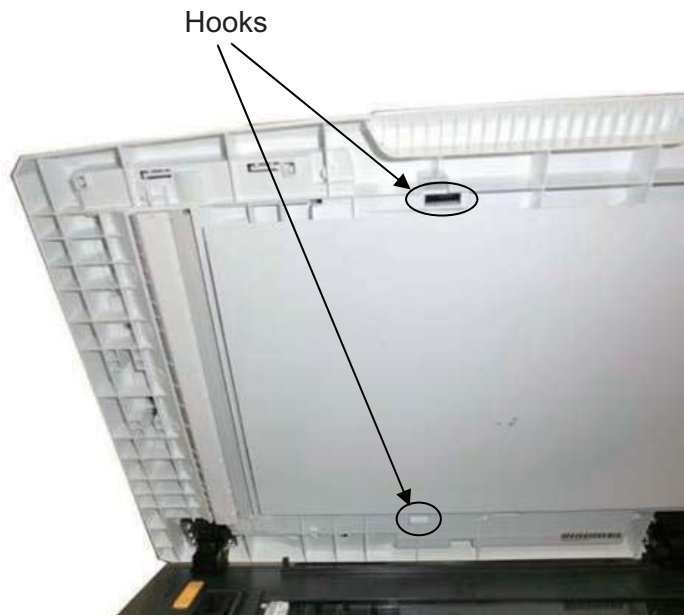


Figure 1-5-107

46. Slide the cursors to the center of the original tray and lift up the original tray.

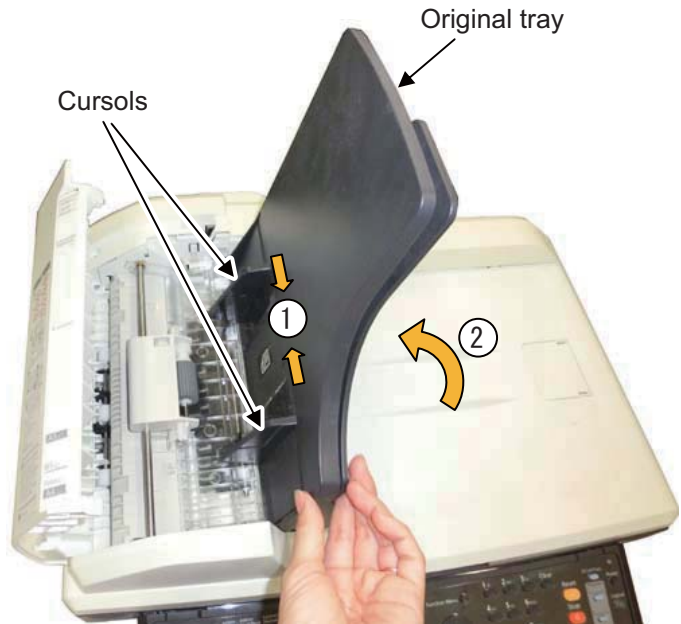


Figure 1-5-108

47. Release three hooks in the machine rear side of the DP rear cover. (in the order of hook A → B → C)
Release the hook D and E at the machine front side while rotating the DP rear cover in the arrow's direction and then remove it.

*: Release the hook A, B and C while pressing the upper part of the hook to prevent the hook from breaking.

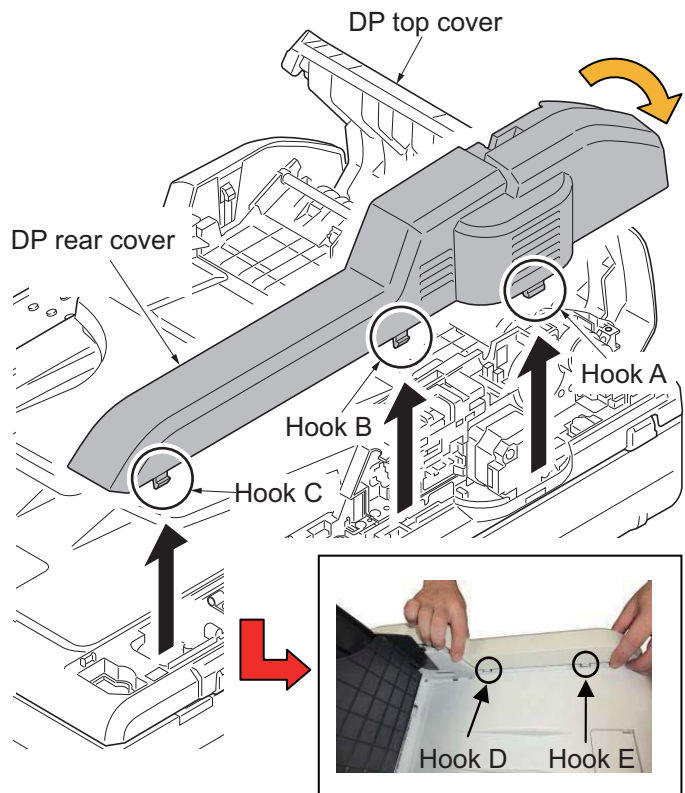


Figure 1-5-109

48. Remove two screws and disconnect two connectors from the DP drive PWB.

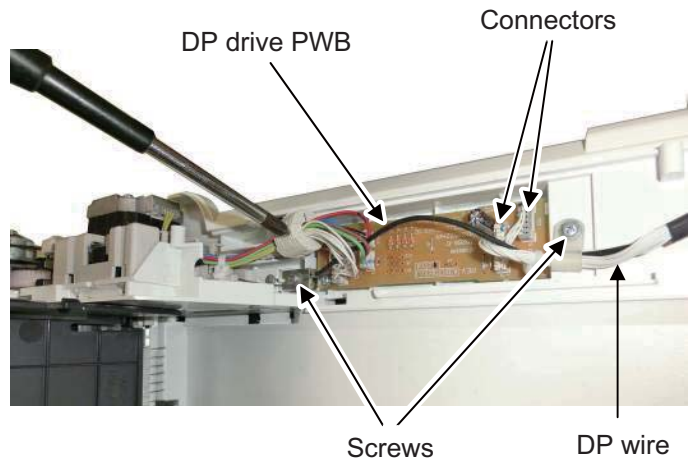


Figure 1-5-110

49. Press the DP lock lever through the hole at the bottom right side of the scanner unit by inserting a screwdriver, etc., and open the Document Processor.

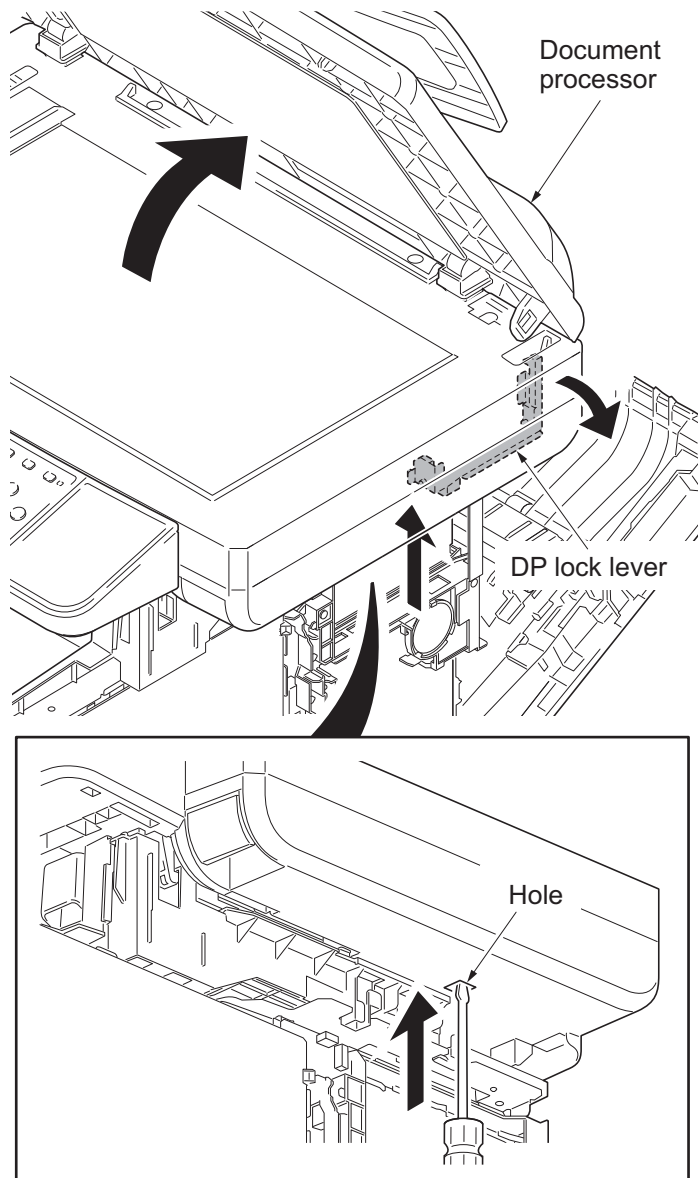


Figure 1-5-111

50. Remove the wire cover.



Figure 1-5-112

51. Detach the Document Processor.

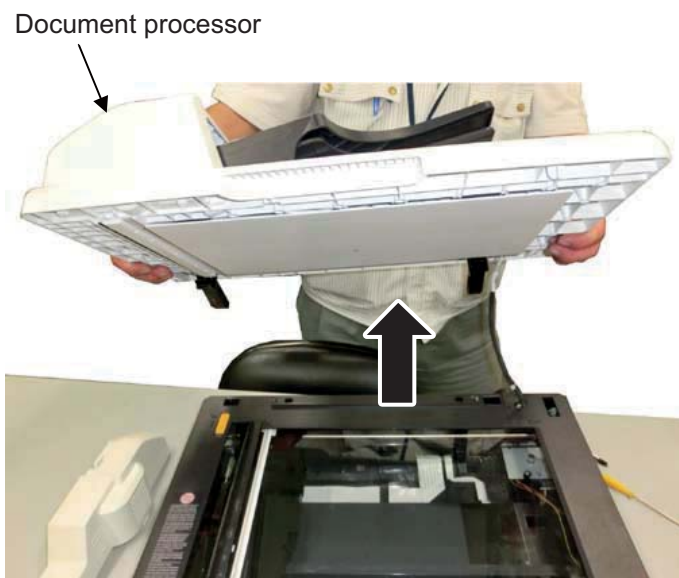
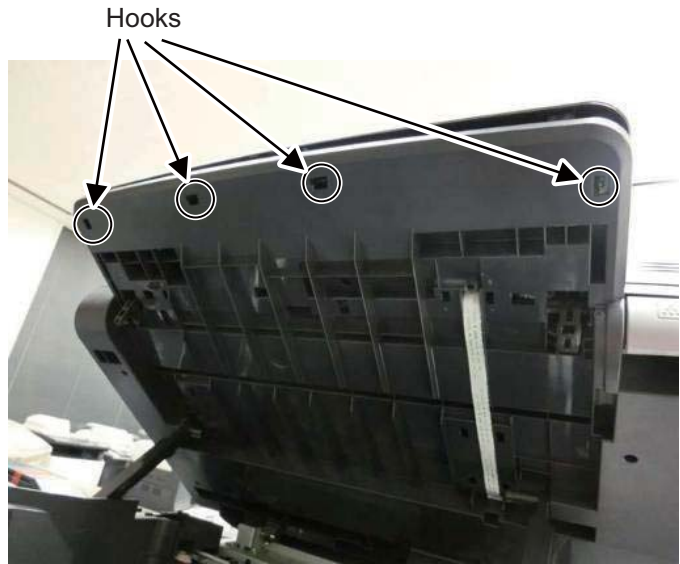


Figure 1-5-113

52. Open the scanner unit and release four hooks, and then forward slide the operation cover.



Operation cover

Figure 1-5-114

53. Remove two screws at the machine rear side and release three hooks under the operation cover.

Remove the ISU cover while pushing the DP lock lever to the right using a flat-blade screw driver.

*: Do not touch the inner side of the contact glass removed with the ISU cover. (Dirt adhered triggers the abnormal image.)

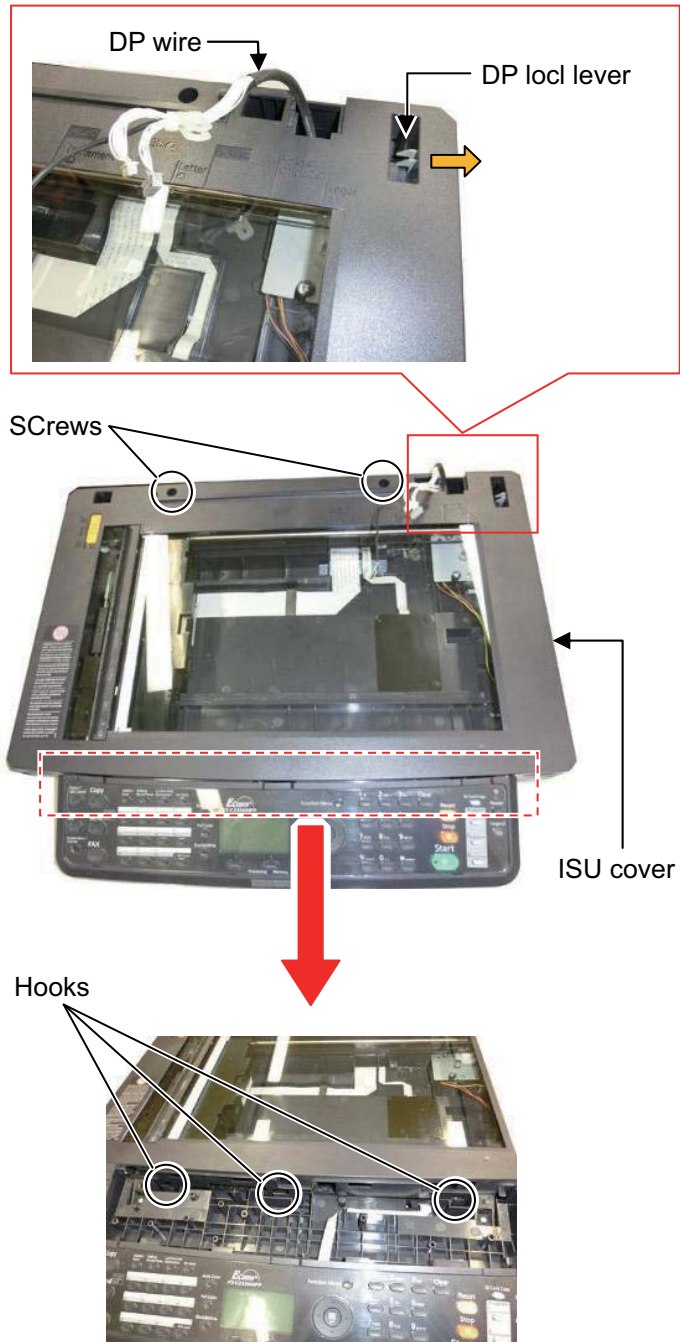


Figure 1-5-115

(Detaching the ISU)

54. Lift up the machine right end of the shaft to come off from the locking hole of the scanner frame, and then pull out the shaft in the machine right direction.
- *: Confirm the end of the ground spring surely fits the groove F of the shaft when reattaching.

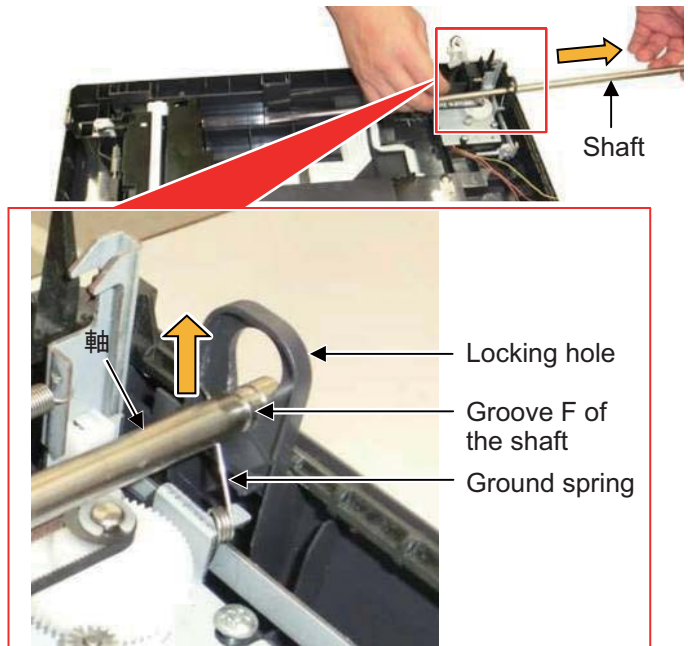


Figure 1-5-116

55. Slightly lift up the ISU and remove the ISU drive belt from the groove locking the ISU drive belt.

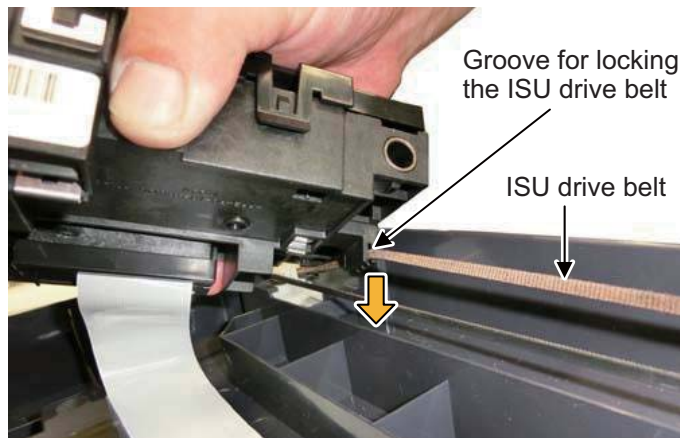


Figure 1-5-117

56. Remove the FFC wire connecting to the ISU from the wire alignment part in the scanner unit.
Take off the bending part of the FFC wire from the two double-sided tapes on the wire alignment part.
Detach the ISU.
Then, peel off the double-sided tapes and clean the affixing part to remove the adhesive.

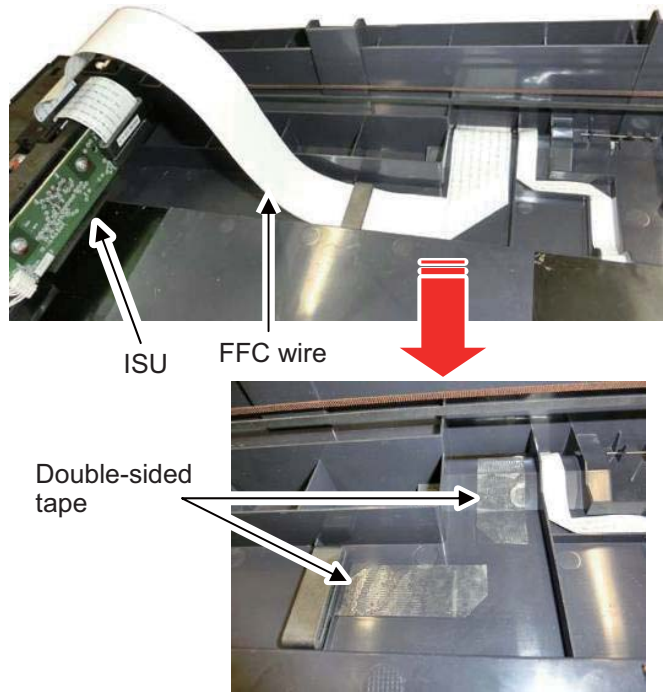
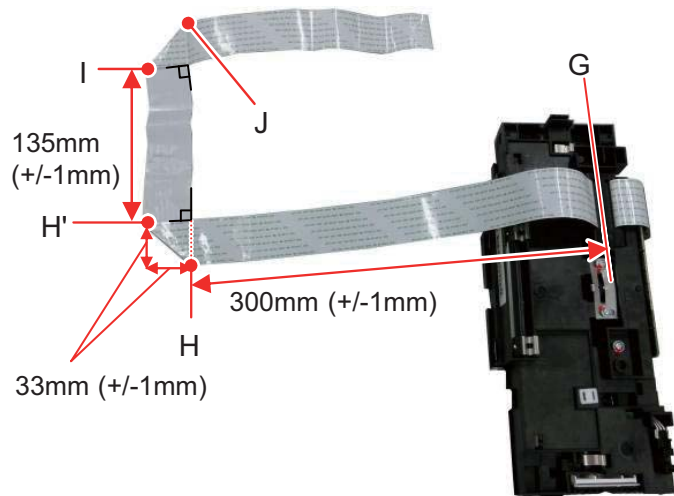


Figure 1-5-118

(Attaching the new ISU)

57. Fold the FFC wire of the new ISU with the alignment to the right.

- (1) Fold the FFC wire in 90 degrees at 300mm from Alignment **G** at the edge of the holder passing the FFC wire to make Alignment **H**.
(Or, fold it in 90 degrees on the line connecting the Alignment **H** and Alignment **H'** at 33mm from **H**.)
- (2) Fold it in 90 degrees at Alignment **I** at 135mm from the Alignment **H'** to make Alignment **J**.



- (3) Fold the FFC wire in 180 degrees at the Alignment **J**.
(The reference length from the Alignment **J** to the wire's edge is about 195mm.)
- (4) Unfold the FFC wire to easily pass the FFC wire through the ferrite core at the next step.

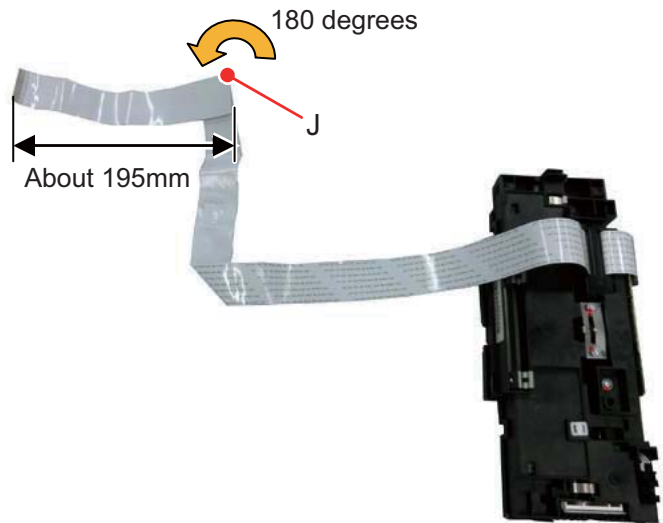


Figure 1-5-119

58. Pass the ISU's FFC wire through the ferrite core affixed on the scanner frame and then pass its edge through the aperture in the center of the scanner frame.

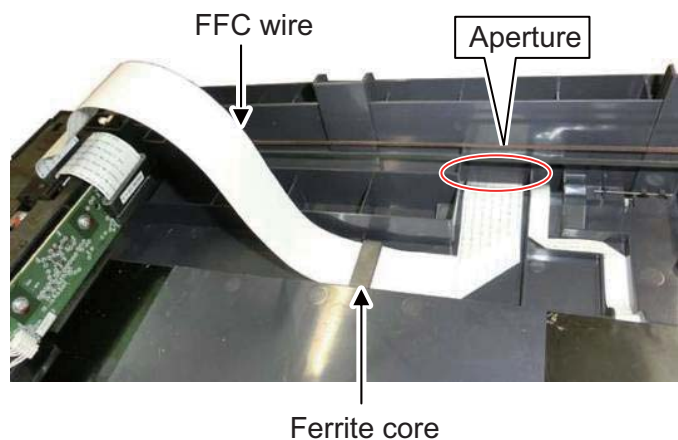


Figure 1-5-120

59. Fit the ISU drive belt to the groove at the ISU bottom side.
 Confirm the teeth of the ISU drive belt face the machine front side before fitting as above.
 After fitting, confirm the ISU drive belt and the ISU are connected by horizontally shifting the ISU (in the red arrow's direction in the figure).

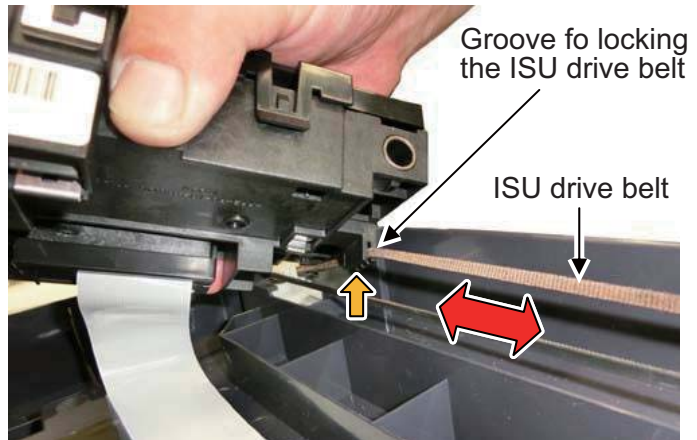
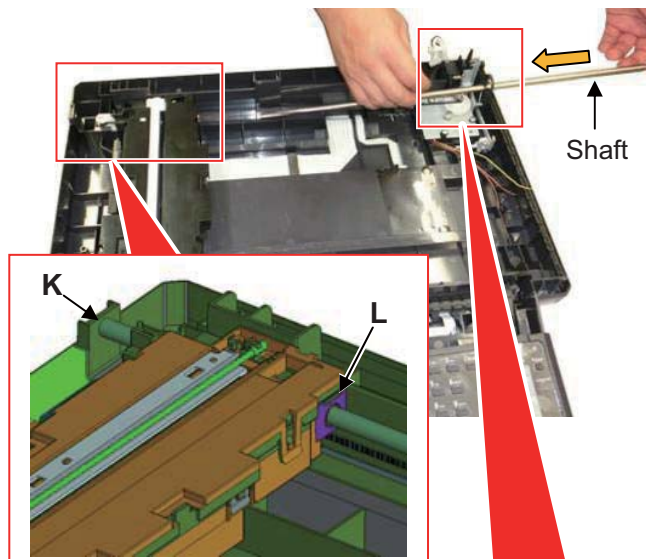


Figure 1-5-121

60. Pass the shaft removed at Step 54 through the holes (K, L) of the scanner frame's machine left side and the ISU's machine rear side, and then fit the groove of the shaft to the locking hole of the scanner frame's machine right side.



*: After that, confirm the edge of the ground spring is fitted to the groove (F) of the shaft.

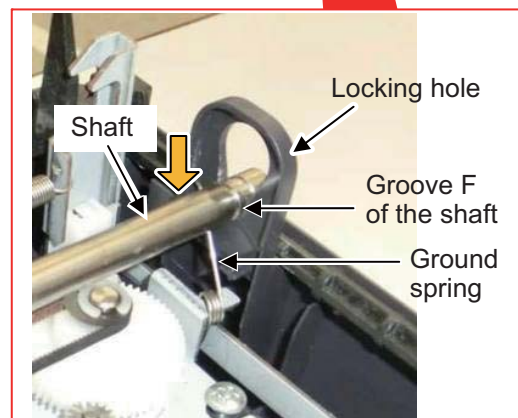
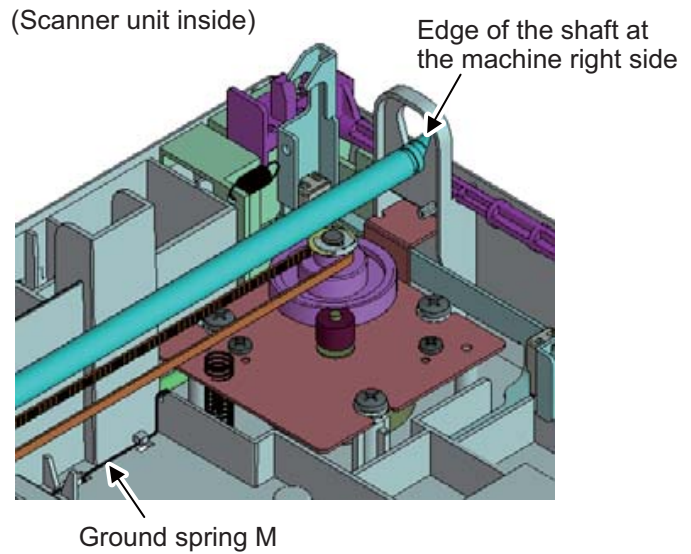
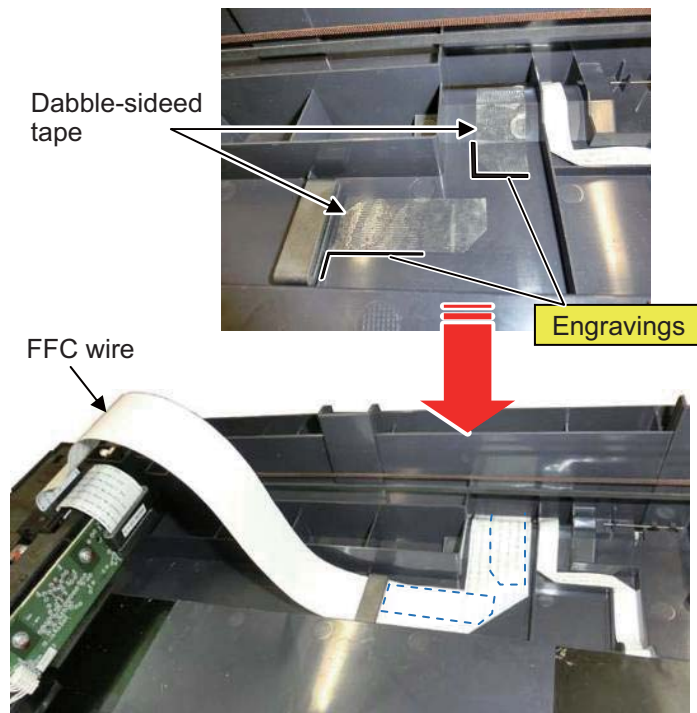


Figure 1-5-122

61. Confirm the conductivity between the ground spring M and the machine right side's edge of the shaft.
(Electric resistance: 10Ω or less)



62. Affix two double-sided tapes bundled in the ISU for service while aligning their edges to the engravings on the scanner frame.
63. Affix the ISU side's folding part of the FFC wire to the double-sided tapes.



64. Refit the ISU cover and the operation cover in the reverse procedures of removal.

Figure 1-5-123

(Align the FFC wire at the main PWB side.)

65. Remove the left and right holders of the scanner unit at Step 20, 21 and fully open the scanner unit.

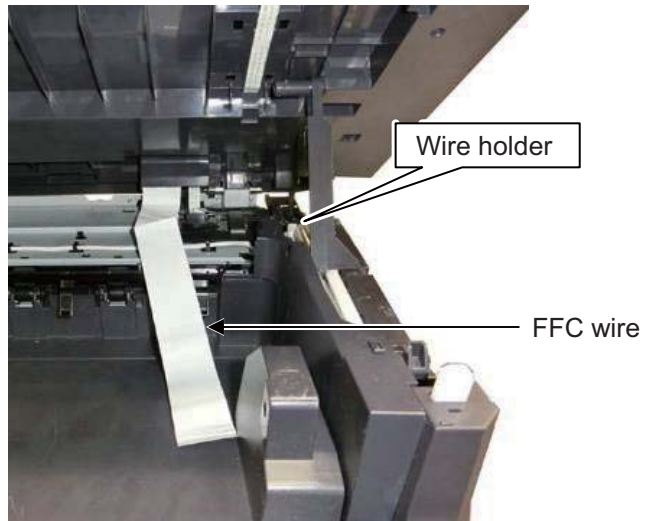


Figure 1-5-124

66. Align the FFC wire like the figure to the right.
(Seven alignment ribs and one ferrite core)

(Wire holder viewed from the machine right side)

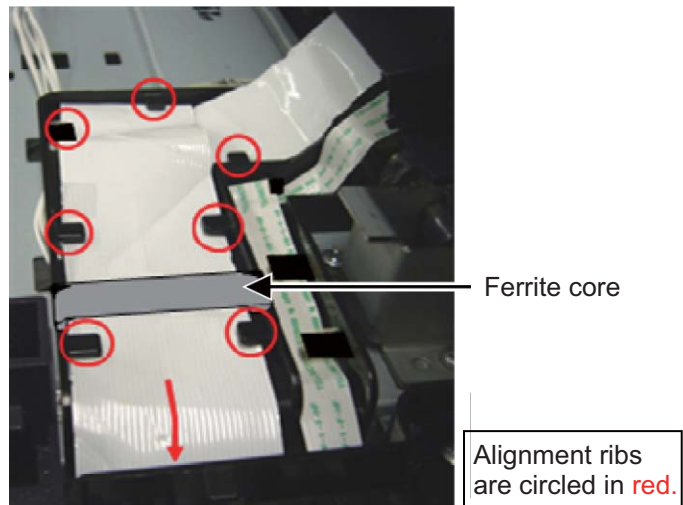


Figure 1-5-125

67. Insert the end of the FFC wire into the connector YC8 on the main PWB.

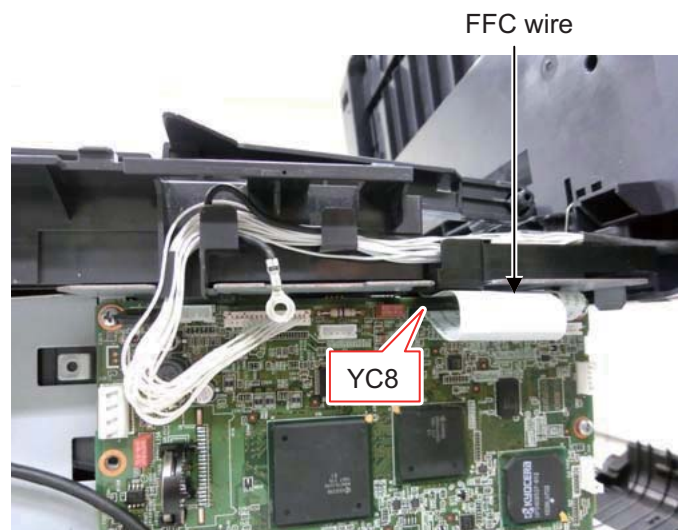


Figure 1-5-126

68. Refit all the parts and the unit detached in the reverse manner of the above procedures.

1-5-11 Document processor

(1) Detaching and refitting the document processor

Procedure

1. Remove the rear upper cover, right upper cover, left upper cover and front cover (see page 1-5-3).
2. Remove left and right pins and then close the top tray.

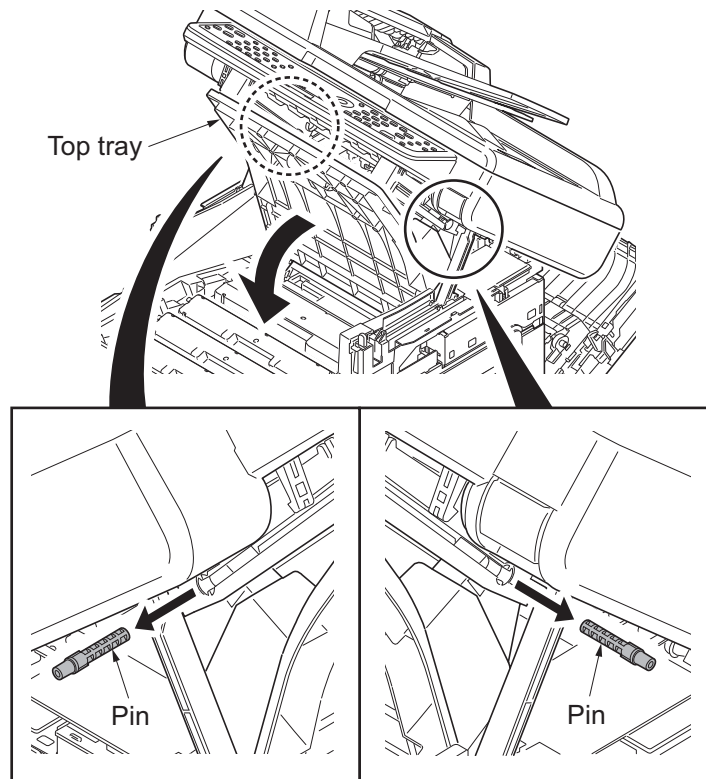


Figure 1-5-127

3. Release four hooks and then remove the upper middle cover.

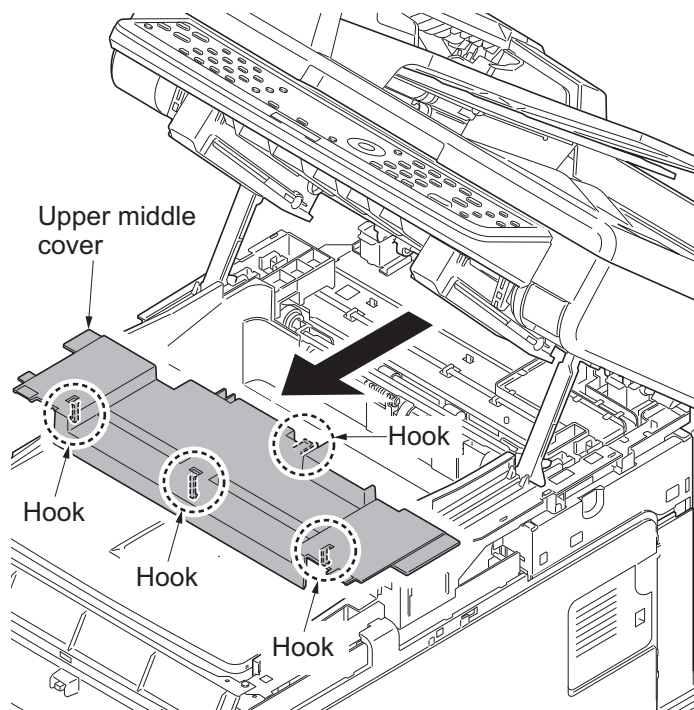


Figure 1-5-128

4. Remove the right rear cover, right cover and right lower cover (see page 1-5-6).
5. Remove the controller shield (see page 1-5-30).
6. Remove connector (YC32) from main PWB.

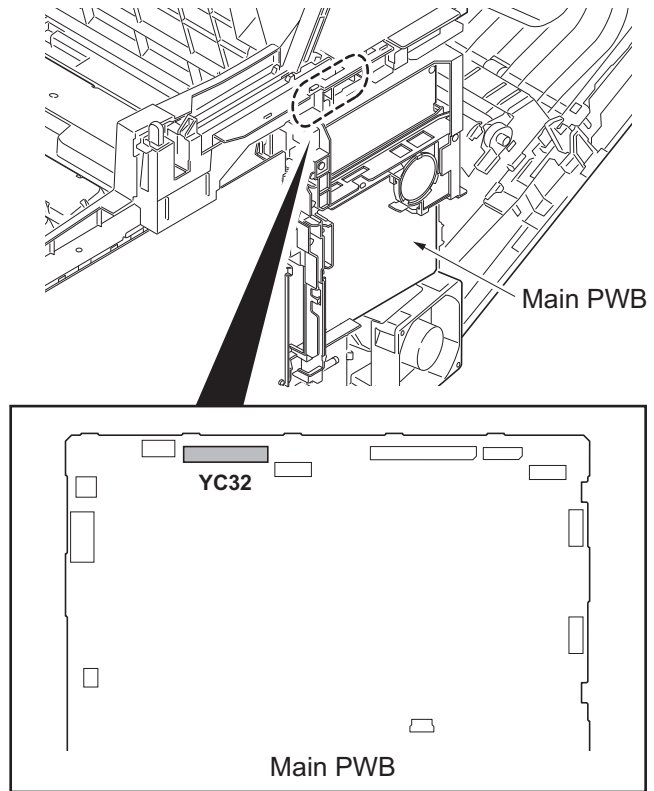


Figure 1-5-129

7. Cut the band and then remove the it.
8. Remove the DP wire and ground wire from wire holder.
9. Close the scanner unit.

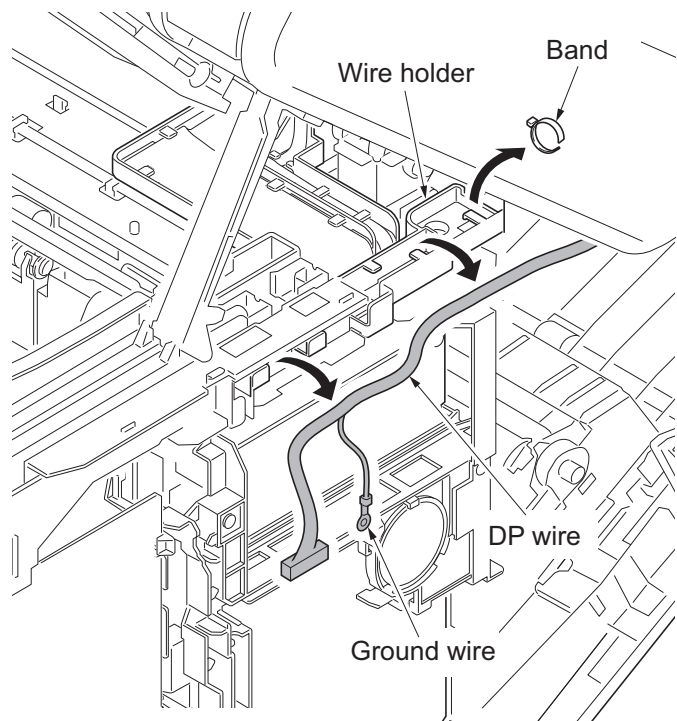


Figure 1-5-130

10. Press the DP lock lever through the hole at the bottom right side of the scanner unit, and open the document processor.

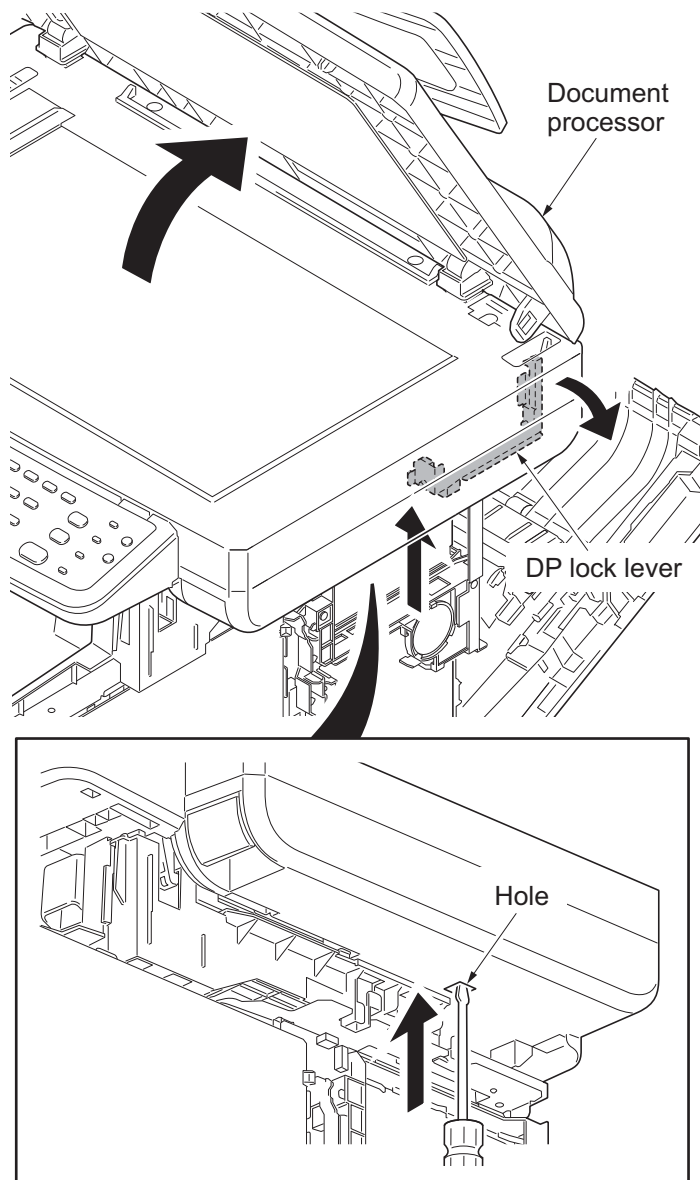


Figure 1-5-131

11. Remove the wire cover.

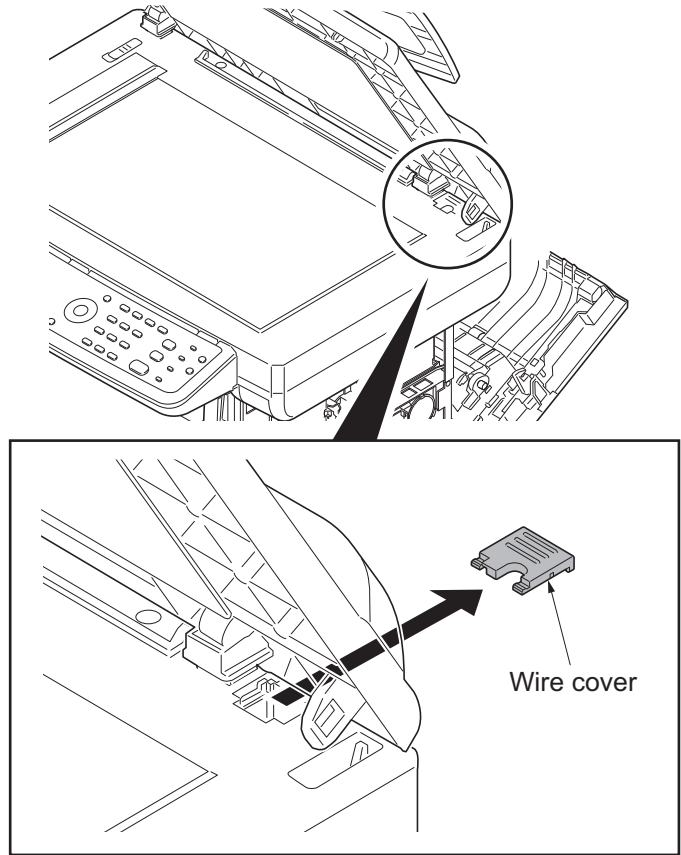


Figure 1-5-132

12. Remove the document processor.

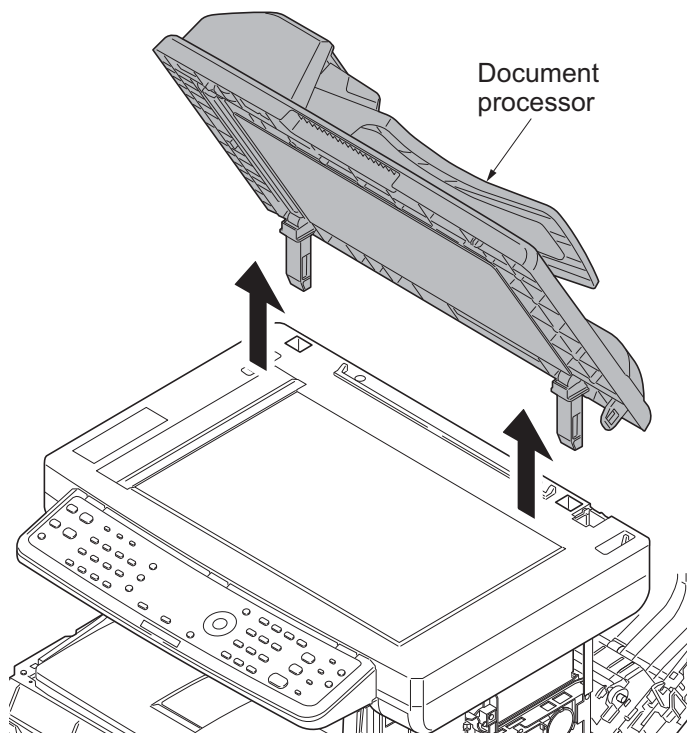


Figure 1-5-133

(2) Detaching and refitting the DP paper feed pulley unit

Procedure

1. Open the DP top cover.
2. Remove the screw.
3. Release three hooks and then remove the DP rear cover.

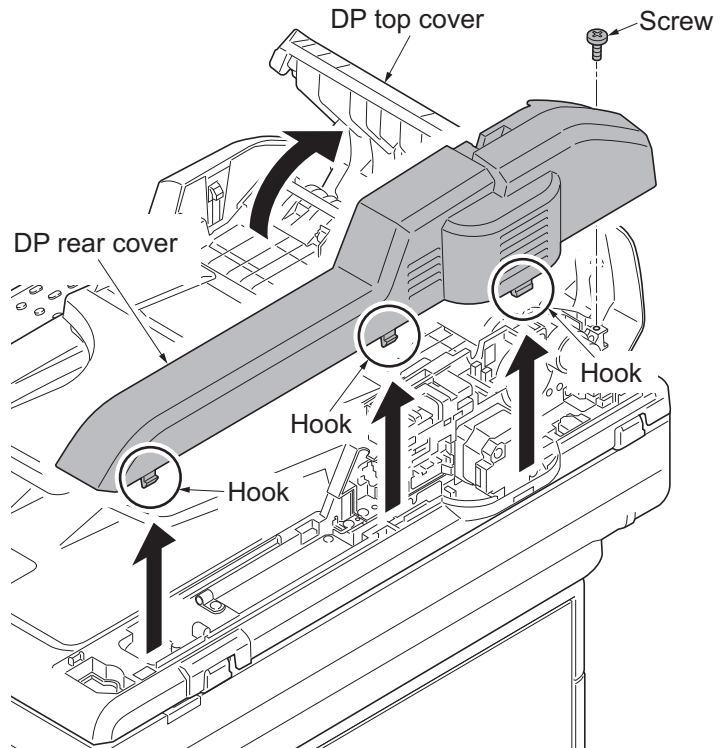


Figure 1-5-134

4. Release two hooks and then remove the DP front cover.

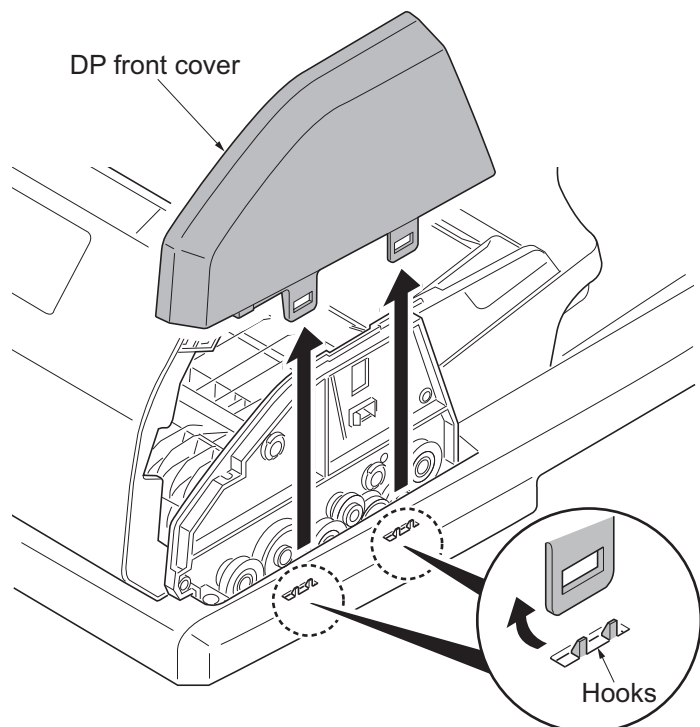


Figure 1-5-135

5. Remove the stop ring and bush.

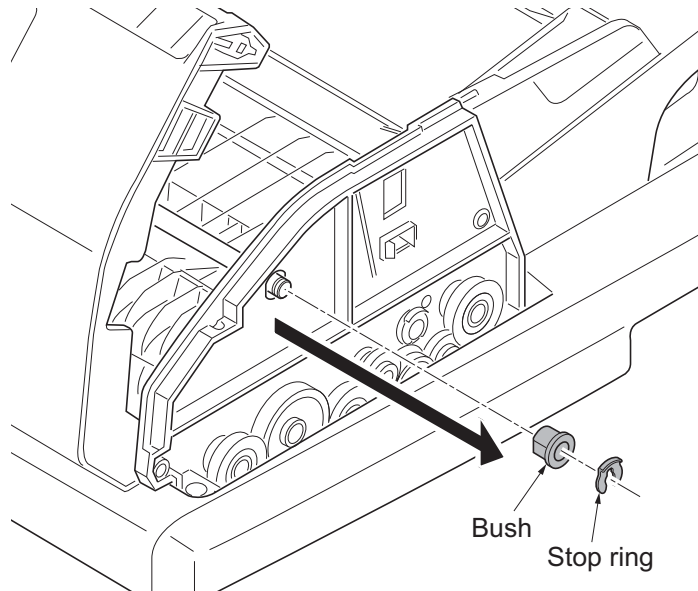


Figure 1-5-136

6. Remove the stop ring A and then remove the DP paper feed clutch from the PF shaft.
7. Remove the stop ring B and then remove the PF collar, spring, spring collar, pin and bush from the PF shaft.

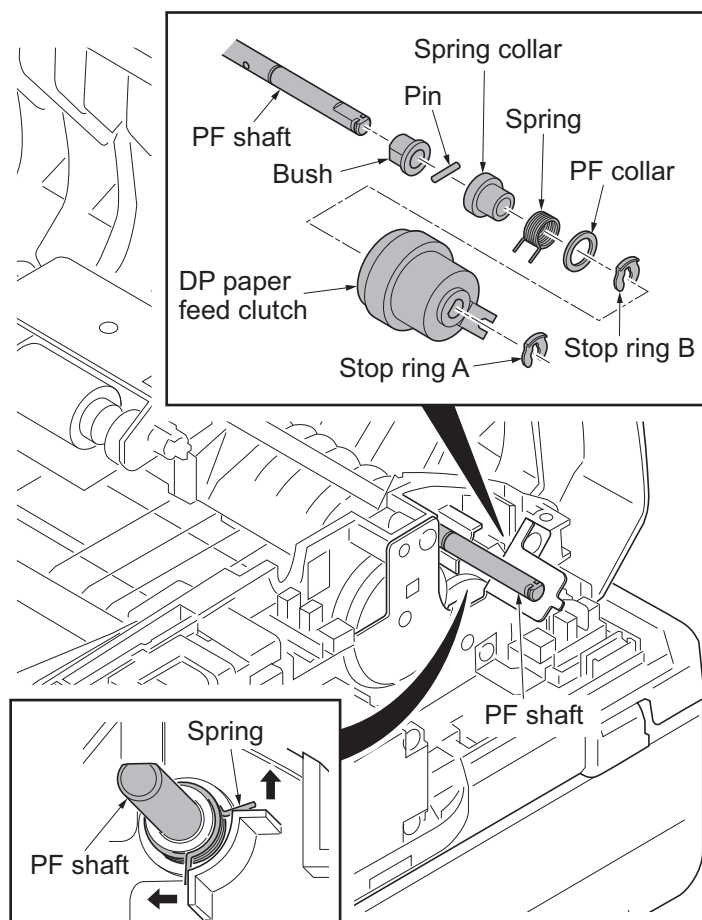


Figure 1-5-137

8. Remove the DP forwarding pulley unit.

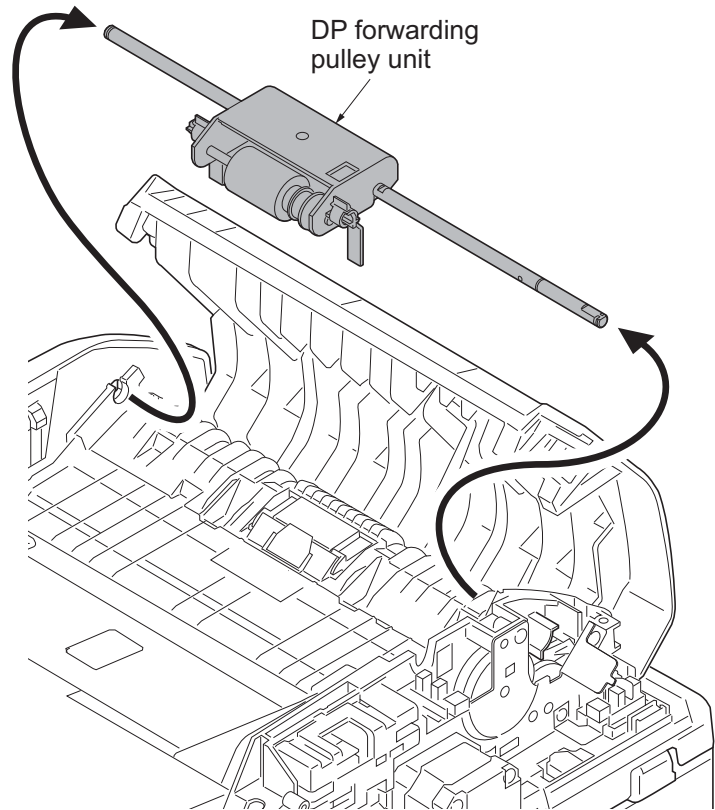


Figure 1-5-138

9. Remove the stop ring A.
10. Remove the DP feed pulley unit from the LF holder.
11. Remove the stop ring B.
12. Remove the PF collar, spring, spring collar and pin from the PF shaft.
13. Remove the DP feed pulley, one-way clutch, PF pulley gear and pin from the PF shaft.

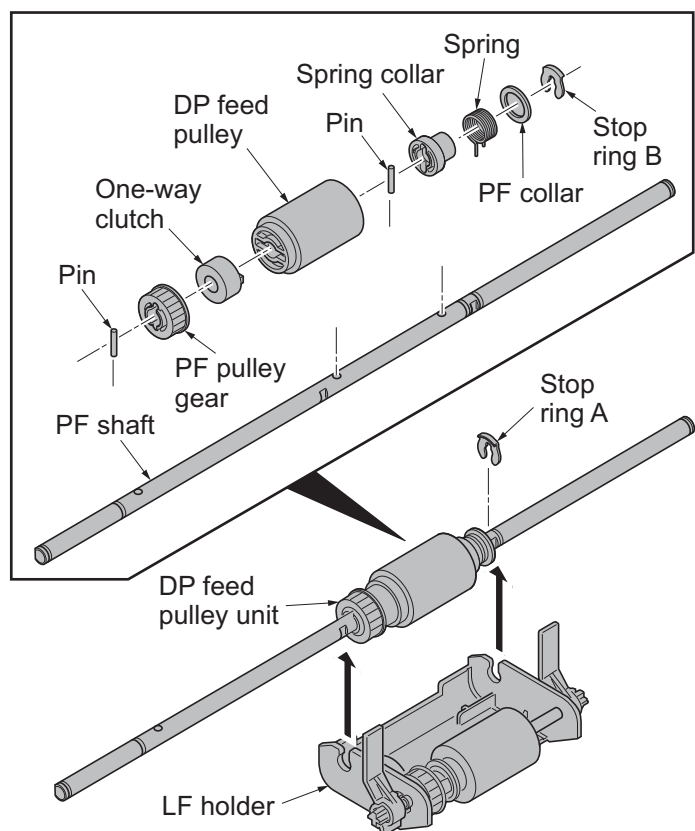


Figure 1-5-139

14. Remove the PF stopper from the LF holder.
15. Remove the stop ring.
16. Pull out the LF shaft and then remove the LF gear 18, joint gear and DP forwarding pulley.
17. Check or replace the DP feed pulley and DP forwarding pulley, and refit all the removed parts.

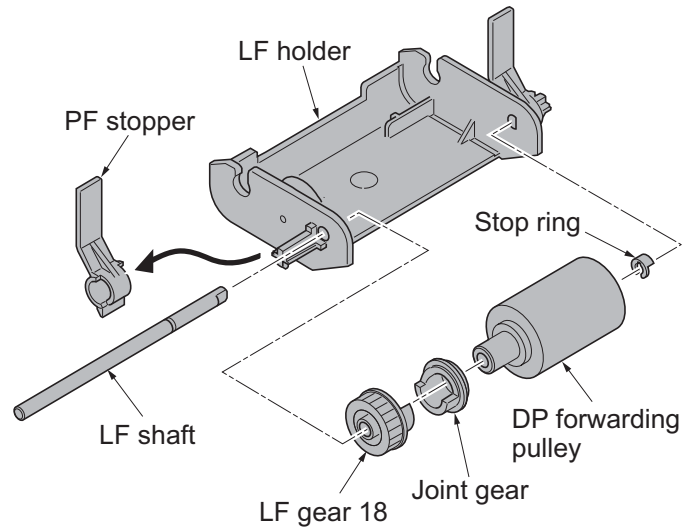


Figure 1-5-140

(3) Detaching and refitting the DP separation pad

Procedure

1. Remove the DP paper feed pulley unit (see page 1-5-82).
2. Remove the DP separation pad.
3. Check or replace the DP separation pad and refit all the removed parts.

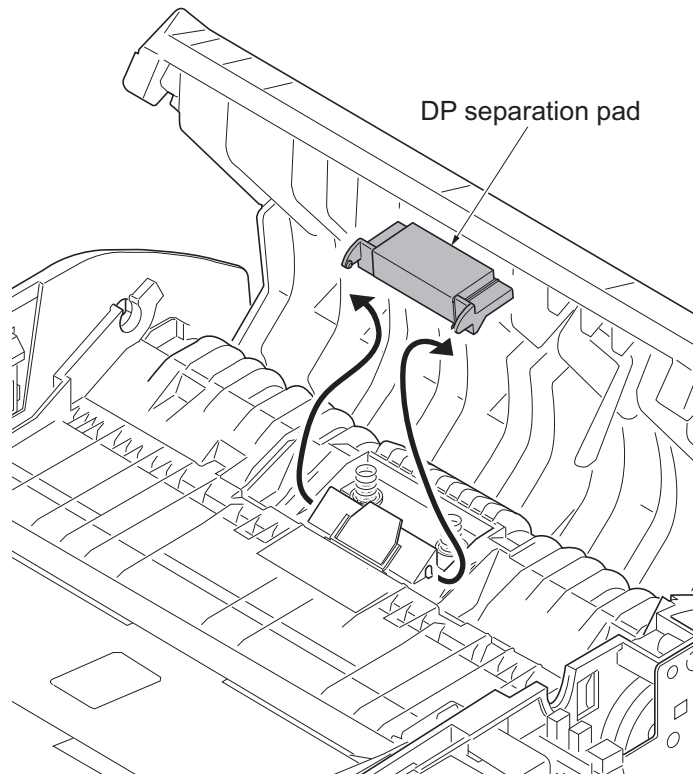


Figure 1-5-141

(4) Detaching and refitting the DP drive PWB

Procedure

1. Remove the DP rear cover (see page 1-5-82).
2. Remove all connectors from DP drive PWB.
3. Remove the screw and then remove the DP drive PWB.
4. Check or replace the DP drive PWB and refit all the removed parts.

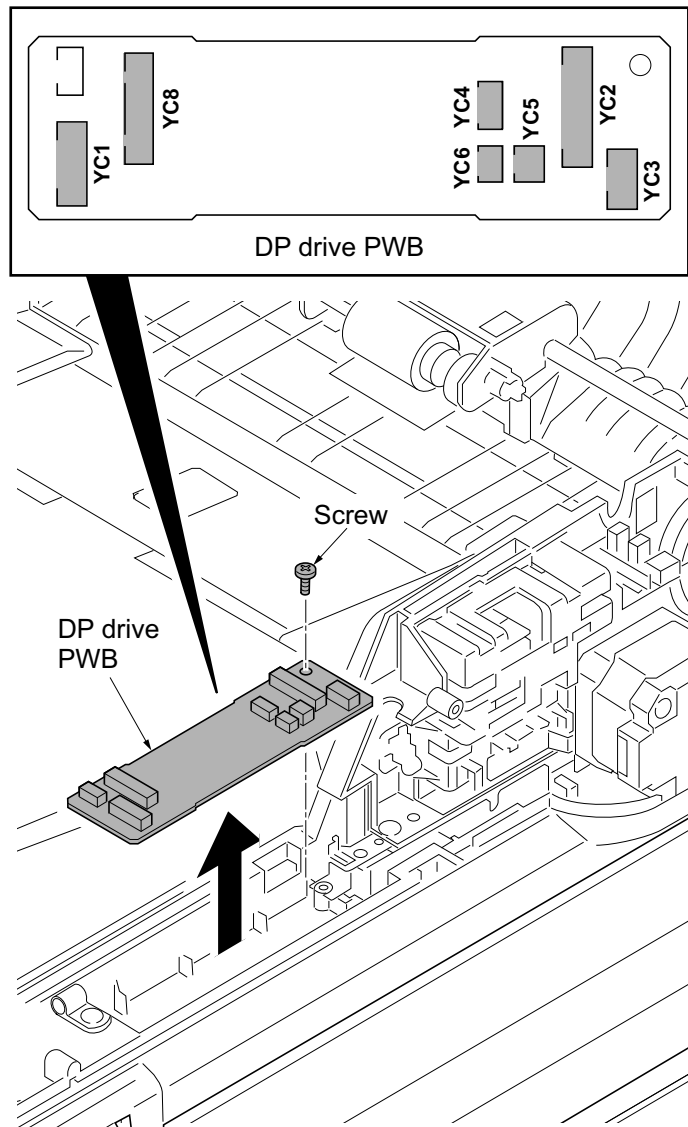


Figure 1-5-142

1-5-12 Others

(1) Detaching and refitting the paper conveying unit

Procedure

1. Open the rear cover.
2. Remove left and right straps.

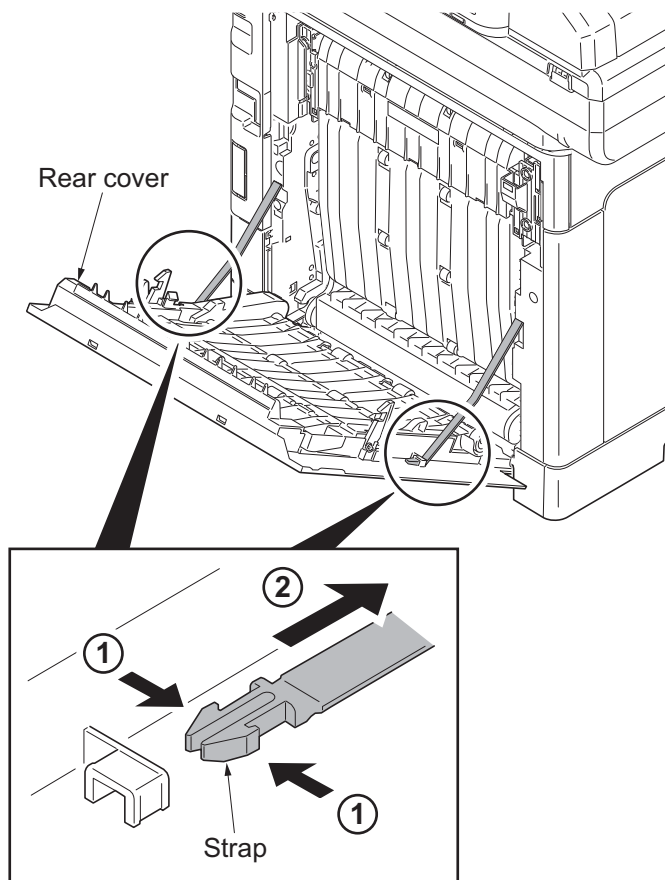


Figure 1-5-143

3. Remove the rear cover unit.

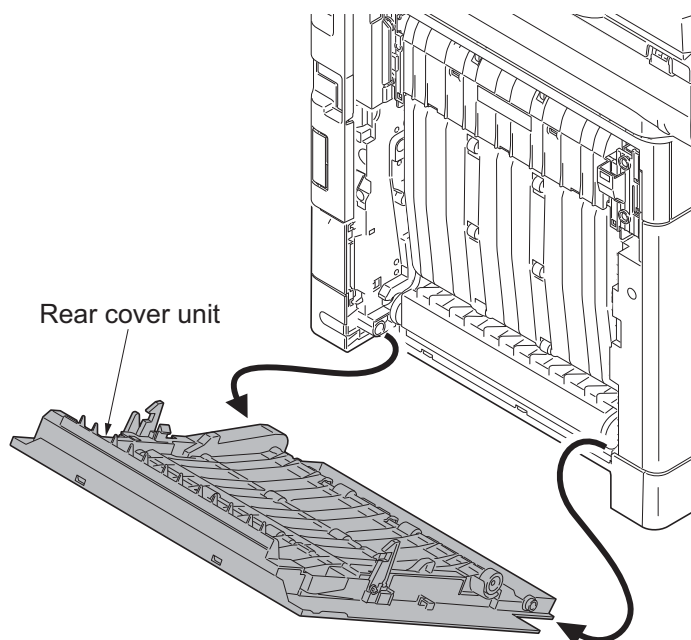


Figure 1-5-144

4. Remove the paper conveying unit.

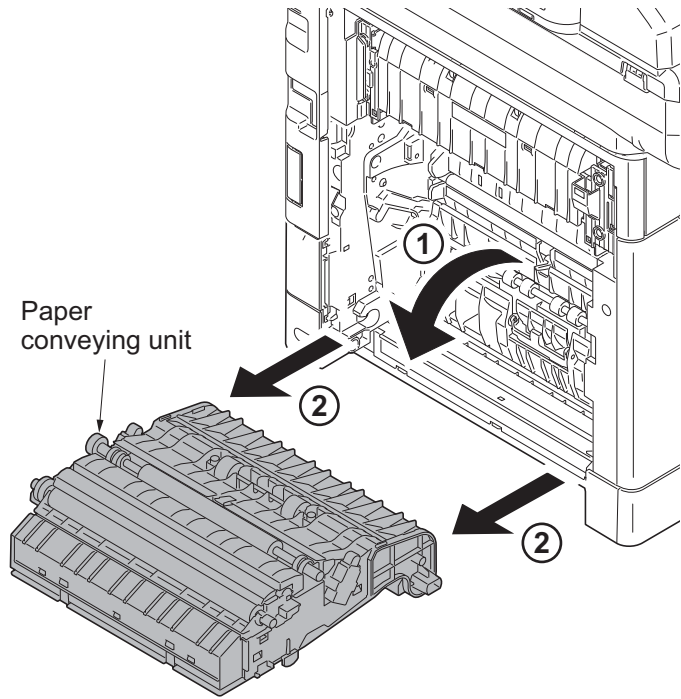


Figure 1-5-145

(2) Detaching and refitting the operation panel

Procedure

1. Release four hooks and then remove the operation panel.
2. Remove the FFC from connector.
3. Check or replace the operation panel and refit all the removed parts.

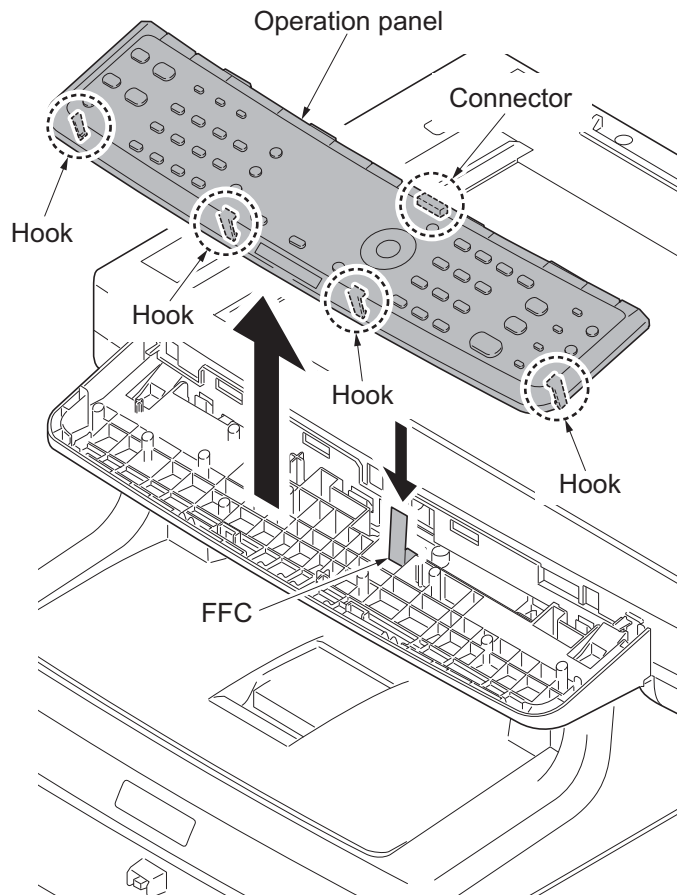


Figure 1-5-146

(3) Detaching and refitting the power source inlet

Procedure

1. Remove the power source PWB (see page 1-5-29).
2. Remove the connector and release the hook and then remove the right fan motor.

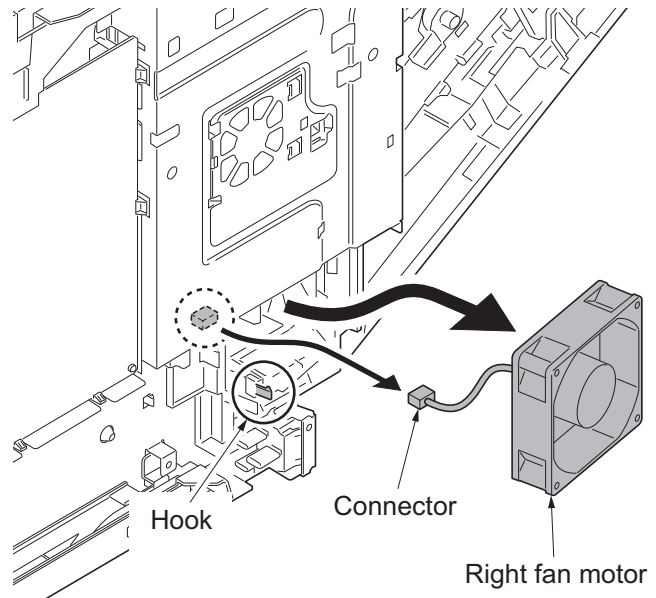


Figure 1-5-147

3. Remove the screw of the grounding wire.

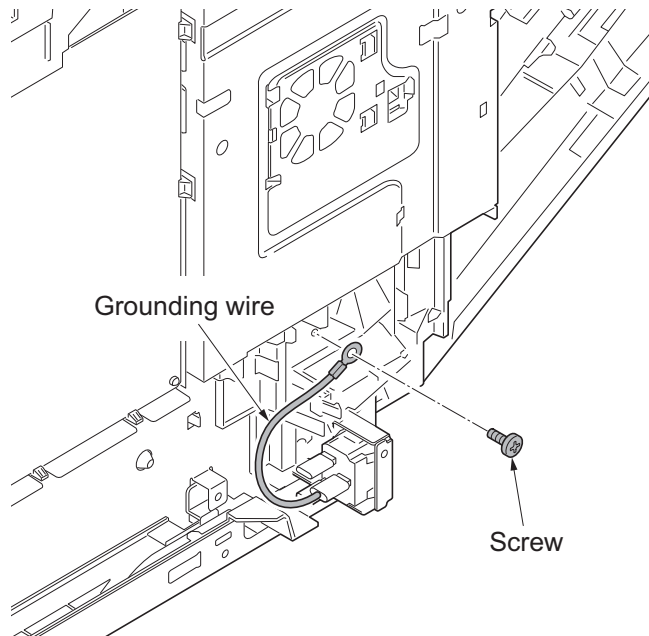


Figure 1-5-148

4. Remove the screw and two terminals and then remove the power source inlet.

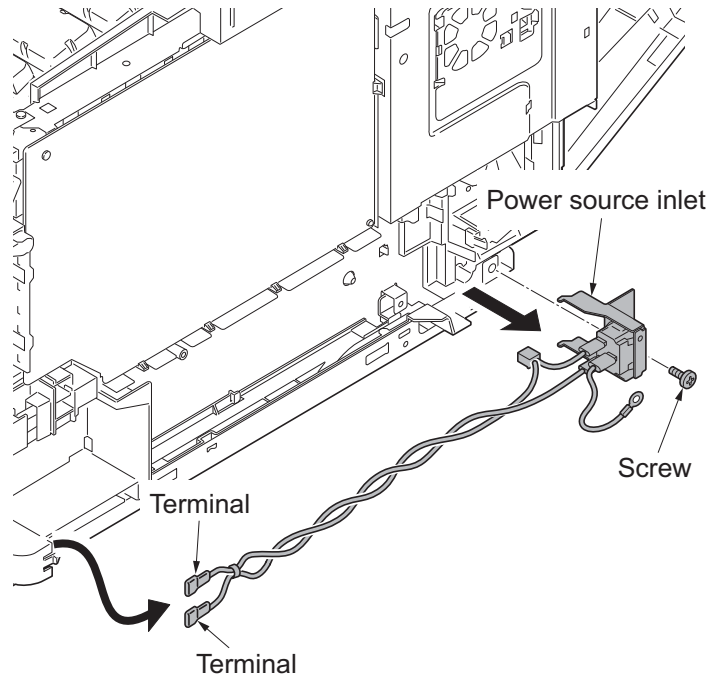


Figure 1-5-149

5. Check or replace the power source inlet and refit all the removed parts.
 *: Before mounting the AC inlet on the main unit, twist the wires 5 to 7 turns.

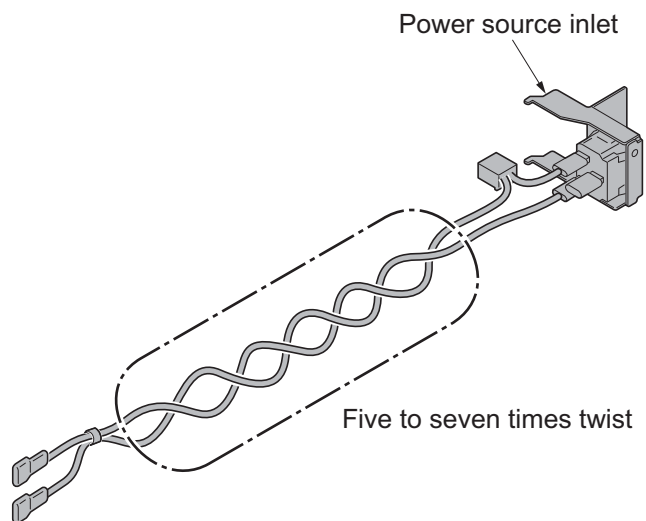


Figure 1-5-150

(4) Direction of installing the principal fan motors

When detaching or refitting the fan motors, be careful of the airflow direction (intake or exhaust).

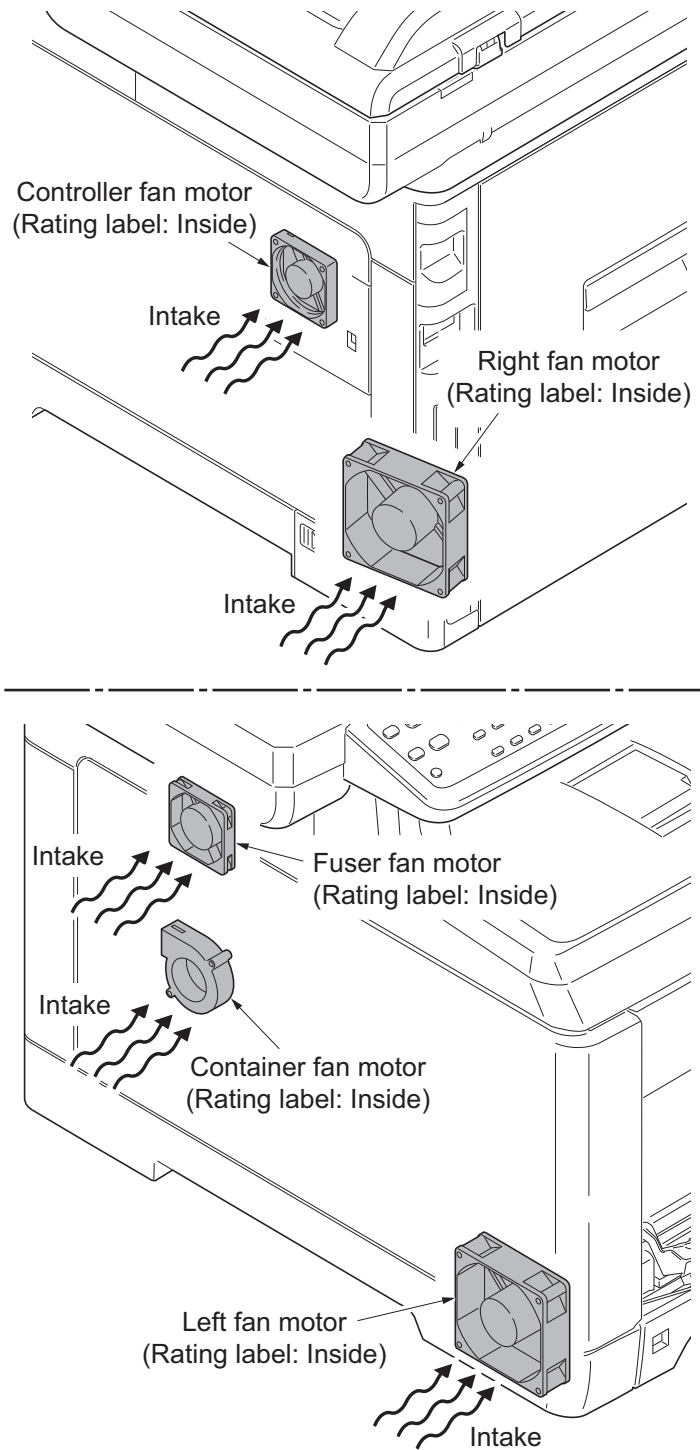


Figure 1-5-151

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1-6-1 Upgrading the firmware

Follow the procedure below to upgrade the firmware of main PWB (main controller and scanner), engine PWB, FAX control PWB*, optional language, optional paper feeder and color table.

Preparation

Extract the file that has the download firmware and put them in the USB Memory.

Procedure

1. Turn ON the main power switch and confirm if the screen shows "Ready to copy" then, turn OFF the main power switch.
2. Insert USB memory that has the firmware in the USB memory slot.
3. Turn ON the main power switch.
4. About 40 seconds later, "FW-Update" will be displayed and blinking the memory indicator (this shows to start the download).
5. Display the software that now upgrading.

"FW-Update [CTRL]"
 "FW-Update [ENGN]"
 "FW-Update [PF1]"
 "FW-Update [PF2]"
 "FW-Update [SCAN]"
 "FW-Update [FAX]" *
 "FW-Update [OPT]"
 "FW-Update [CLT]"

Caution:

Never turn off the power switch or remove the USB flash device during upgrading.

6. Display the completion of the upgrade (Memory indicator is ON condition).
7. ROM version is confirmed by the content of the display.
8. Turn OFF the main power switch and remove the USB memory.

*: 4 in 1 model (with FAX) only.

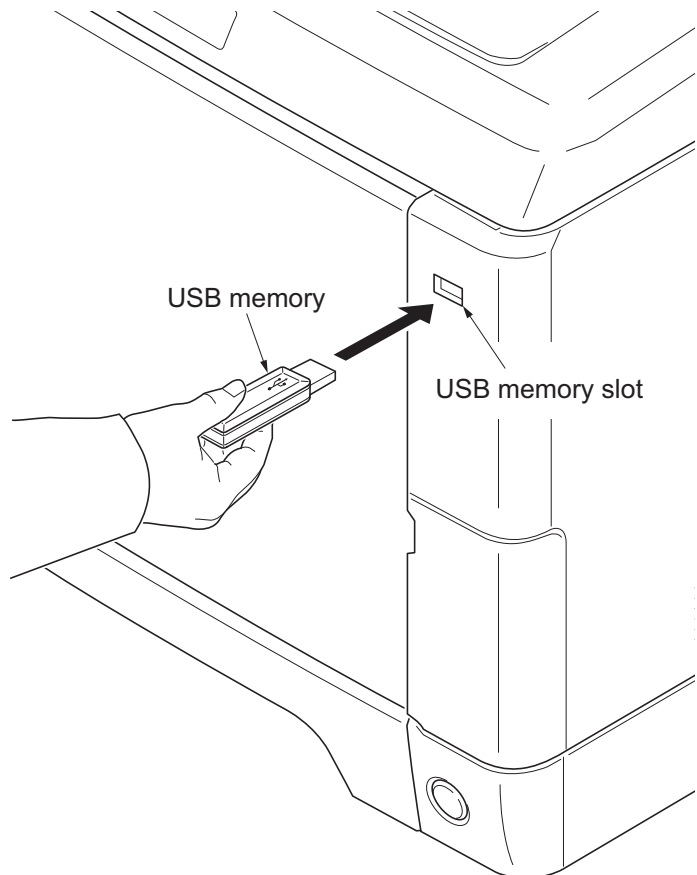


Figure 1-6-1

Emergency-UPDATE

If the device is accidentally switched off and upgrading was incomplete, upgrade becomes impossible from a USB flash device.

In that case, retry upgrading after recovering the software by following the procedure below.

Preparation

The memory card must be formatted in FAT or FAT32 in advance.

Extract the main firmware to download from the file.

Rename the file which was extracted from the archive. [DL_CTRL.2KX] to [KM_EMRG.2KX]

Copy the all extracted files to the root of the memory card.

Procedure

1. Turn the main power switch off.
2. Install the memory card which contains the firmware onto the main PWB.
3. Turn the main power switch on.
4. Rewriting of the PWB software will start for restoration.
The memory and attention indicators will be blinking.
5. Only the Memory indicator will be blinking when rewriting is successful.
* : Only the Attention indicator will be blinking when rewriting is failed.
6. Turn the main power switch off.
7. Wait for several seconds and then remove the memory card from the main PWB.
8. Extract the firmware to download from the archive and copy to the root of the USB flash device.

NOTE: Deletes the "ES_SKIP.on" file
When it is contained directly under the USB memory.

9. Insert the USB flash device in which the firmware was copied into the slot on the machine.
10. Perform steps 3 to 8 on the previous page.
11. Turn the main power switch on.
12. Perform maintenance item U000 (Print a maintenance report) to check that the version of ROM U019 has been upgraded.

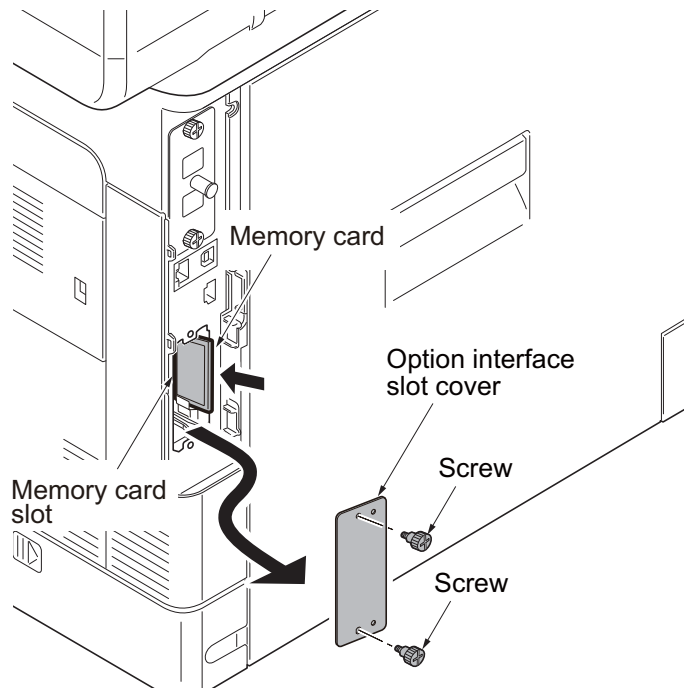


Figure 1-6-2

1-6-2 Remarks on engine PWB replacement

When replacing the engine PWB, remove the EEPROM (U1) from the engine PWB that has been removed and then reattach it to the new engine PWB.

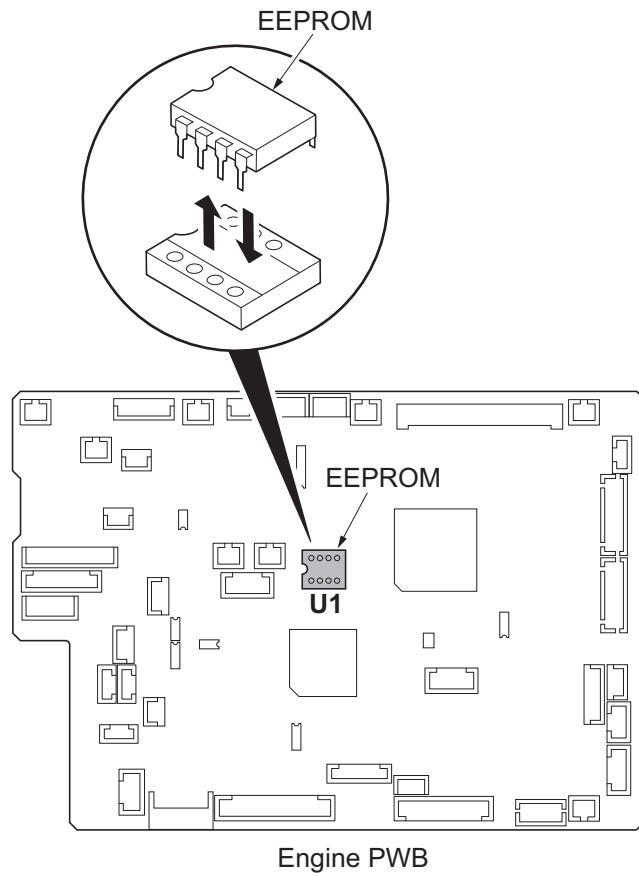


Figure 1-6-3

2-1-1 Paper feed/conveying section

Paper feed/conveying section consists of the paper feed unit that feeds paper from the cassette and the MP tray paper feed unit that feeds paper from the MP tray, and the paper conveying section that conveys the fed paper to the transfer/separation section.

(1) Cassette paper feed section

The cassette can contain 250 sheets. The sheet from the cassette is pulled out by rotation of the pickup roller and sent to the paper conveying section by rotation of the paper feed roller. Also the retard roller prevents multiple feeding of paper.

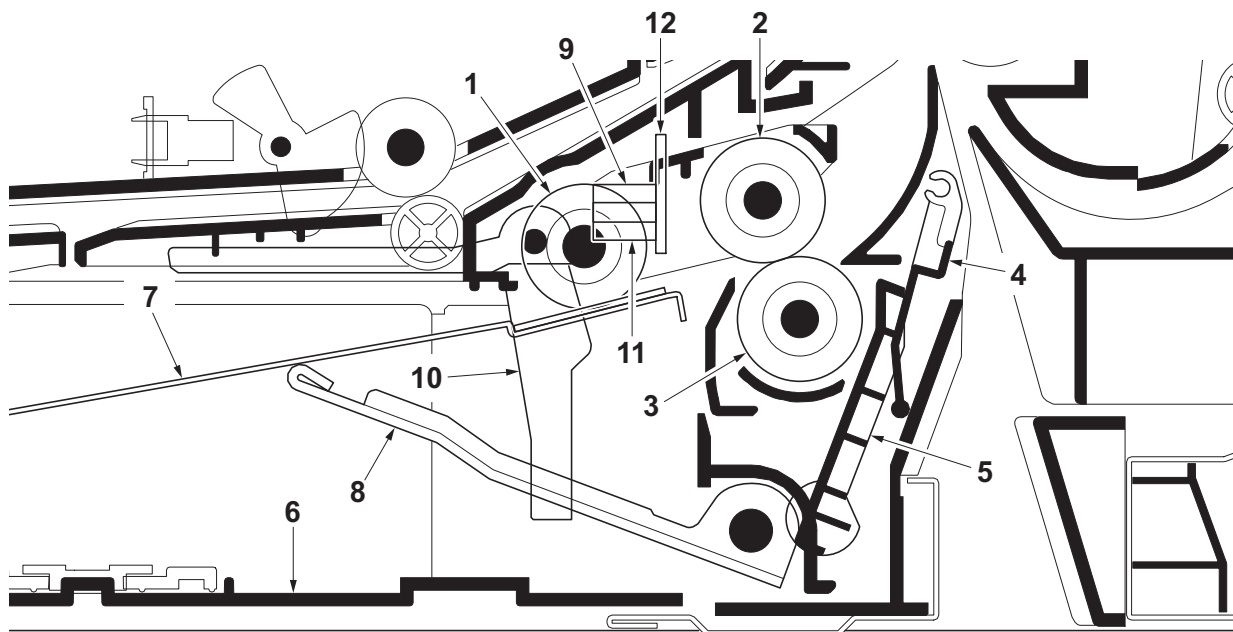


Figure 2-1-1 Cassette paper feed section

- | | |
|----------------------|-----------------------------|
| 1. Pickup roller | 7. Bottom plate |
| 2. Paper feed roller | 8. Lift work plate |
| 3. Retard roller | 9. Paper sensor (PS) |
| 4. Retard cover | 10. Actuator (paper sensor) |
| 5. Retard lever | 11. Lift sensor (LS) |
| 6. Cassette base | 12. Cassette PWB (CPWB) |

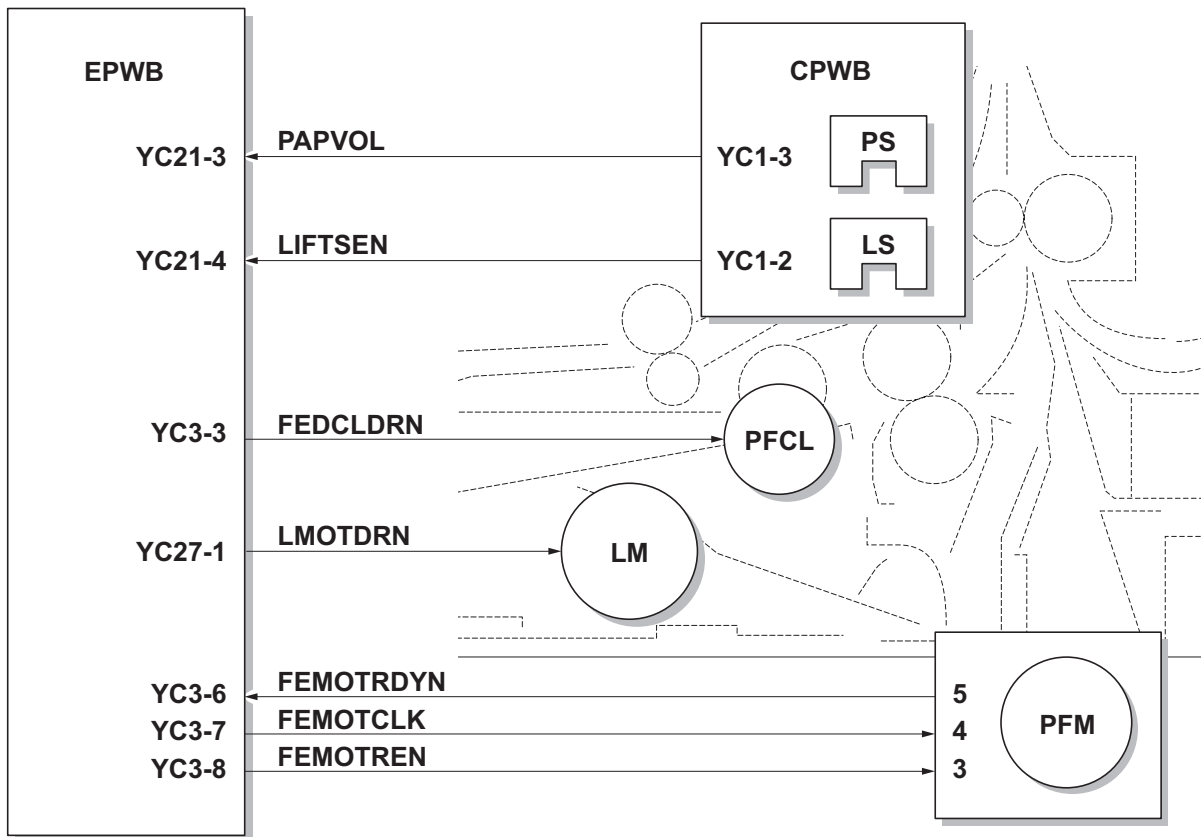


Figure 2-1-2 Cassette paper feed section block diagram

(2) MP tray paper feed section

The MP tray can contain 50 sheets. Feeding from the MP tray is performed by the rotation of the MP paper feed roller. Also, function of the MPF separation pad prevents paper from multiple feeding.

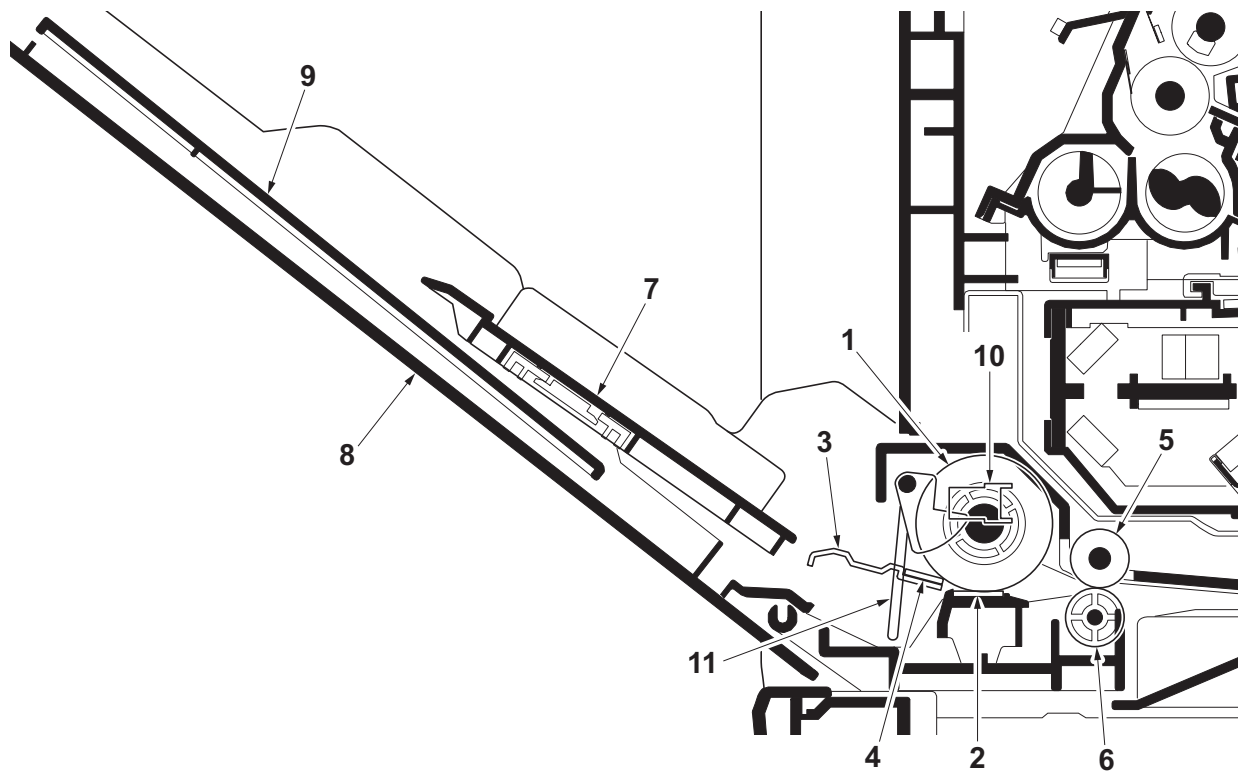


Figure 2-1-3 MP tray paper feed section

- | | |
|-------------------------|--------------------------------|
| 1. MP paper feed roller | 7. MPF base |
| 2. MPF separation pad | 8. MPF cover |
| 3. MPF bottom plate | 9. MPF tray |
| 4. Friction pad | 10. MP paper sensor (MPPS) |
| 5. MPF feed roller | 11. Actuator (MP paper sensor) |
| 6. Feed pulley | |

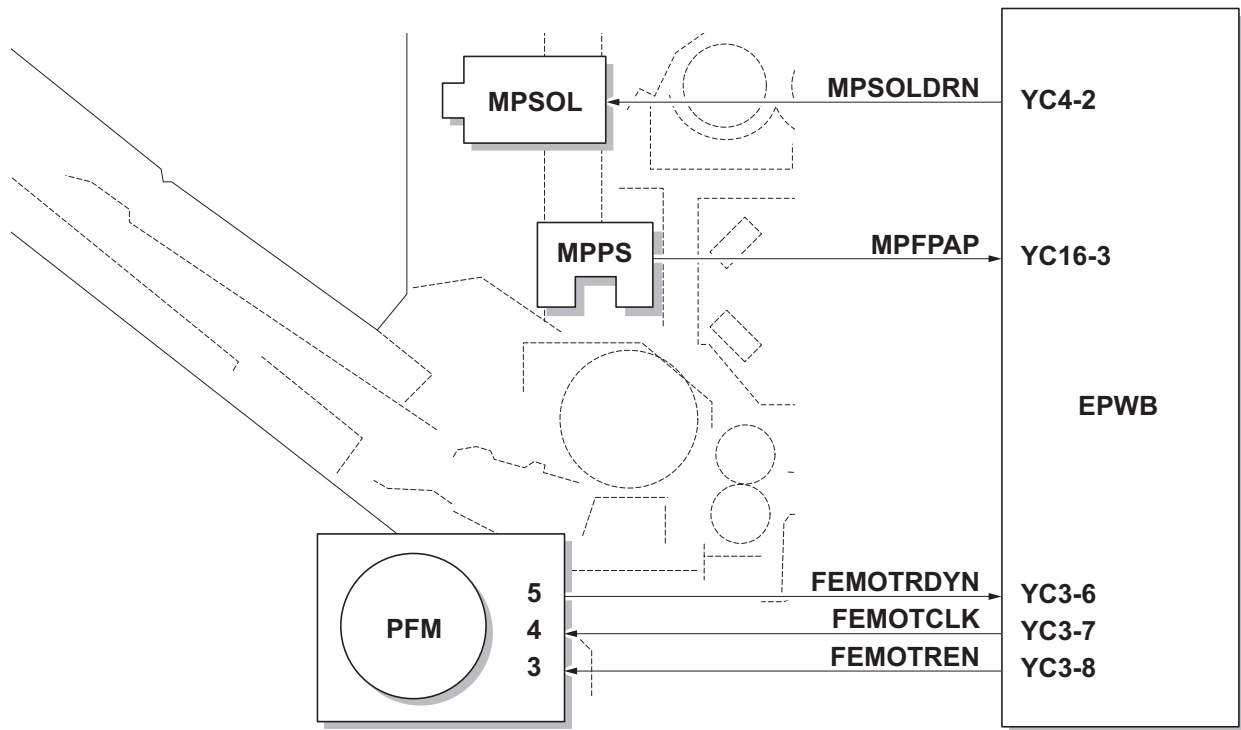


Figure 2-1-4 MP tray paper feed section block diagram

(3) Paper conveying section

The paper conveying section conveys paper to the transfer/separation section as paper feeding from the cassette or MP tray, or as paper refeeding for duplex printing. Paper by feeding is conveyed by the middle roller to the position where the registration sensor (RS) is turned on, and then sent to the transfer/separation section by the front registration roller and rear registration roller.

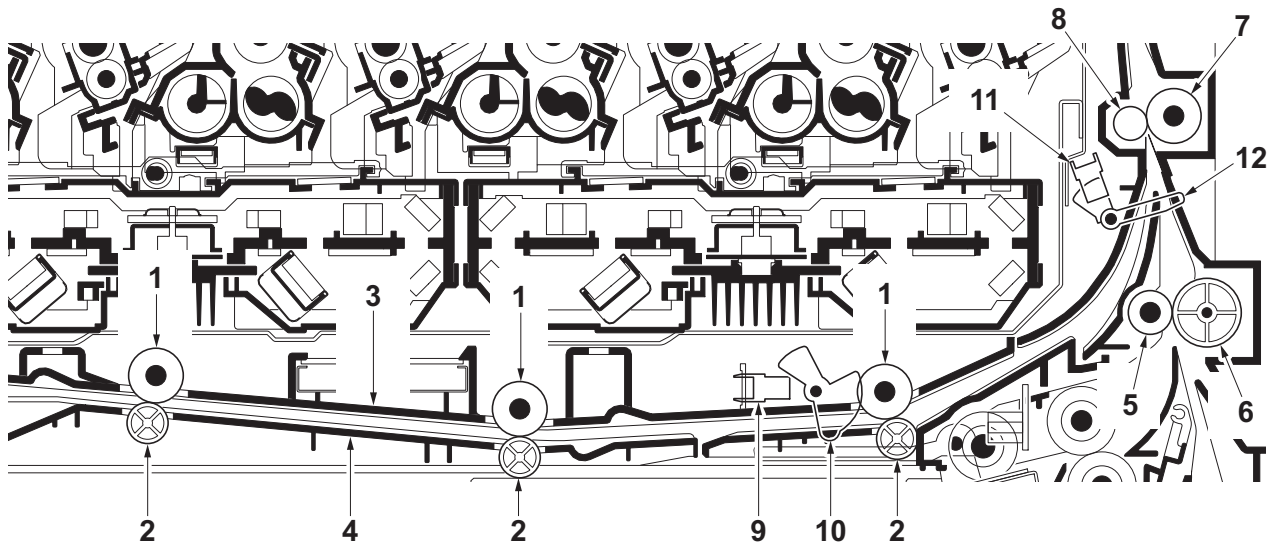


Figure 2-1-5 Paper conveying section

- | | |
|------------------------------|--|
| 1. MPF feed rollers | 8. Rear registration roller |
| 2. Feed pulleys | 9. MP paper conveying sensor (MPPCS) |
| 3. MPF feed upper guide | 10. Actuator (MP paper conveying sensor) |
| 4. MPF feed lower guide | 11. Registration sensor (RS) |
| 5. Middle roller | 12. Actuator (registration sensor) |
| 6. Middle pulley | |
| 7. Front registration roller | |

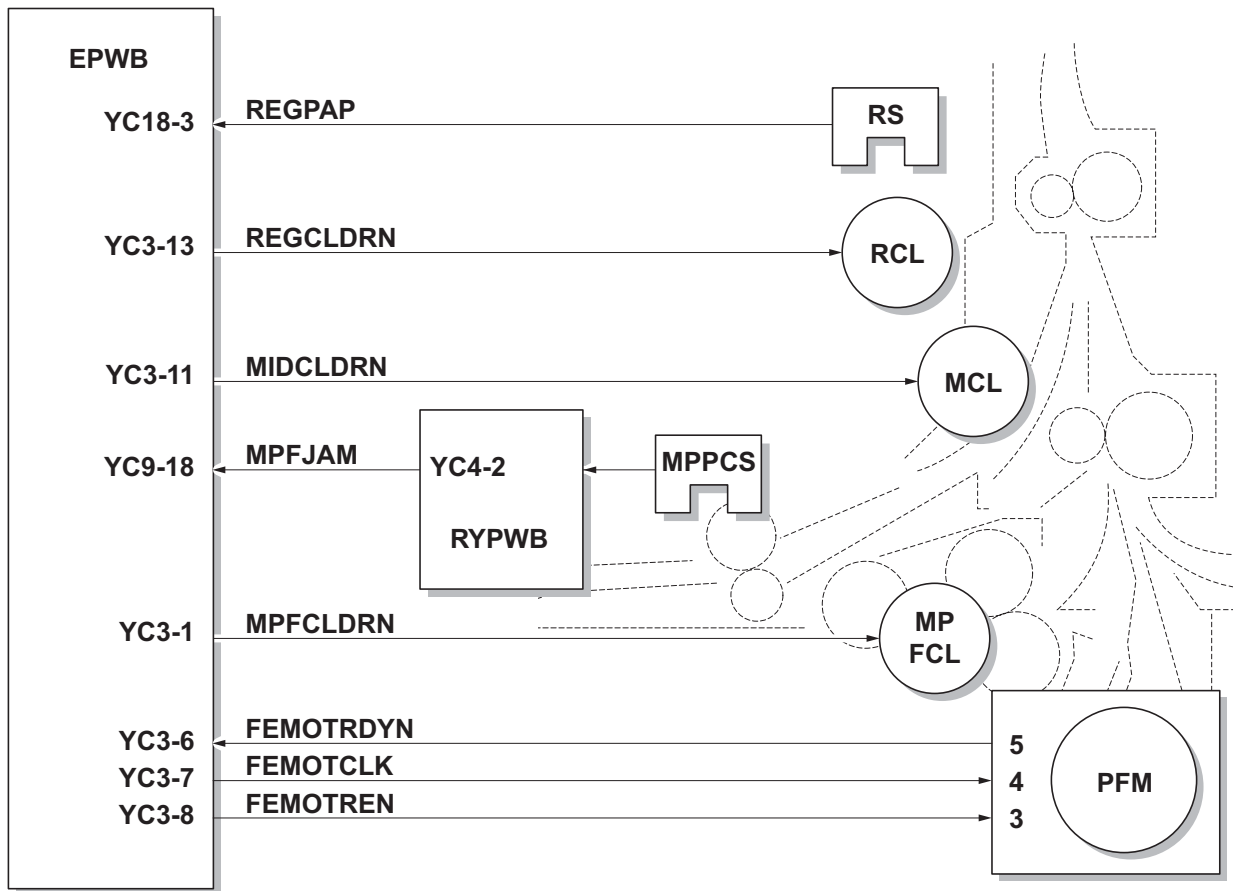


Figure 2-1-6 Paper conveying section block diagram

2-1-2 Drum section

The drum section consists of the drum, the charger roller unit, and the cleaning unit, and the drum surface is uniformly charged in preparation for formation of residual image by laser beam.

After transfer is complete, toner remaining on the drum surface is chipped off with the cleaning blade and is collected to the waste toner box with the drum screw. The cleaning lamp (CL) consists of LEDs and removes residual charge on the drum before main charging.

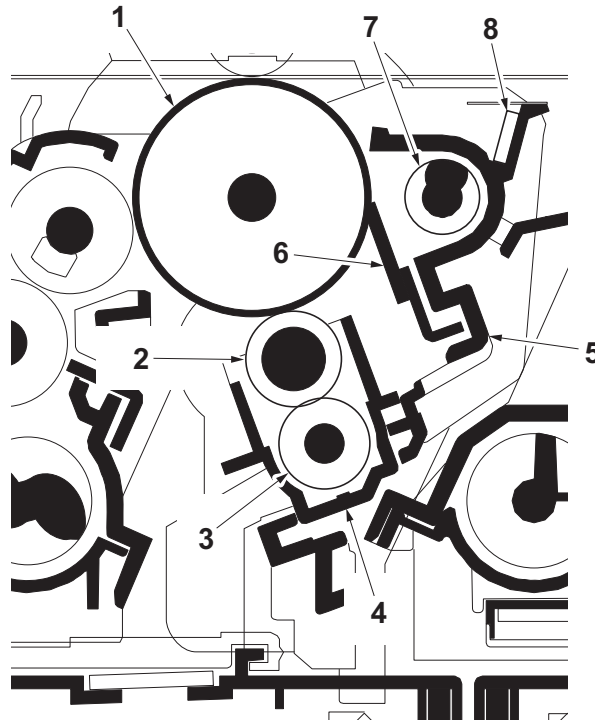


Figure 2-1-7 Drum section

- | | |
|----------------------------|-----------------------|
| 1. Drum | 5. Drum frame |
| 2. Charger roller | 6. Cleaning blade |
| 3. Charger cleaning roller | 7. Drum screw |
| 4. Charger case | 8. Cleaning lamp (CL) |

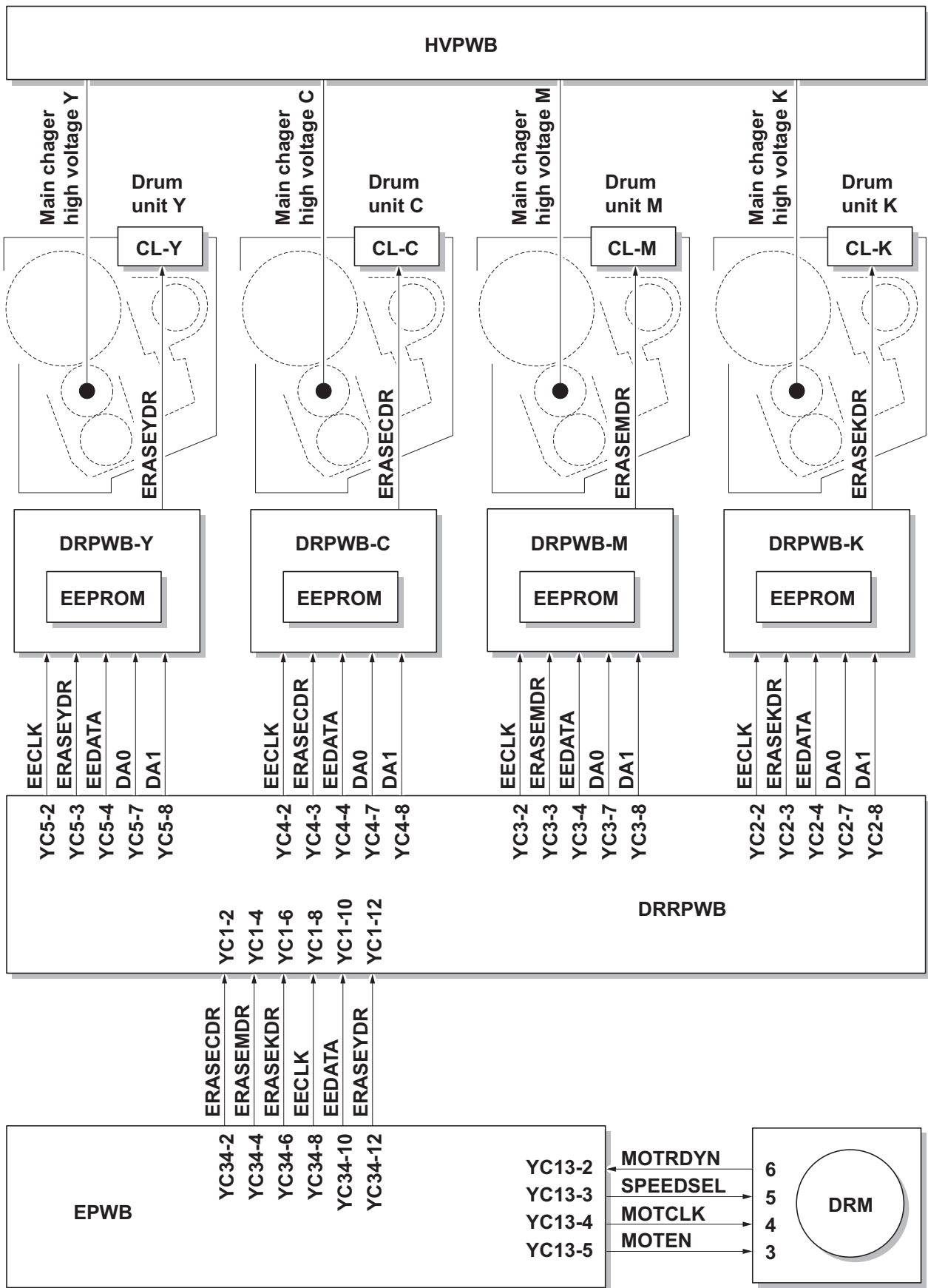


Figure 2-1-8 Drum section block diagram

2-1-3 Developing section

The developing unit consists of the sleeve roller that forms the magnetic brush, the magnet roller, the developing blade and the developing screws that agitate the toner. Also, the toner sensor (TS) checks whether or not toner remains in the developing unit.

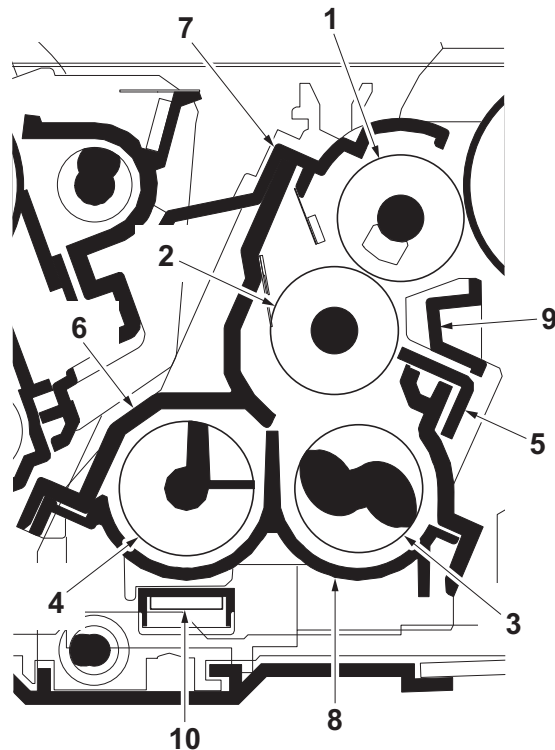


Figure 2-1-9 Developing section

- | | |
|-----------------------|--------------------------|
| 1. Sleeve roller | 6. Developer case |
| 2. Magnet roller | 7. Upper developer cover |
| 3. Developing screw A | 8. Developer base |
| 4. Developing screw B | 9. Sleeve cover |
| 5. Developing blade | 10. Toner sensor (TS) |

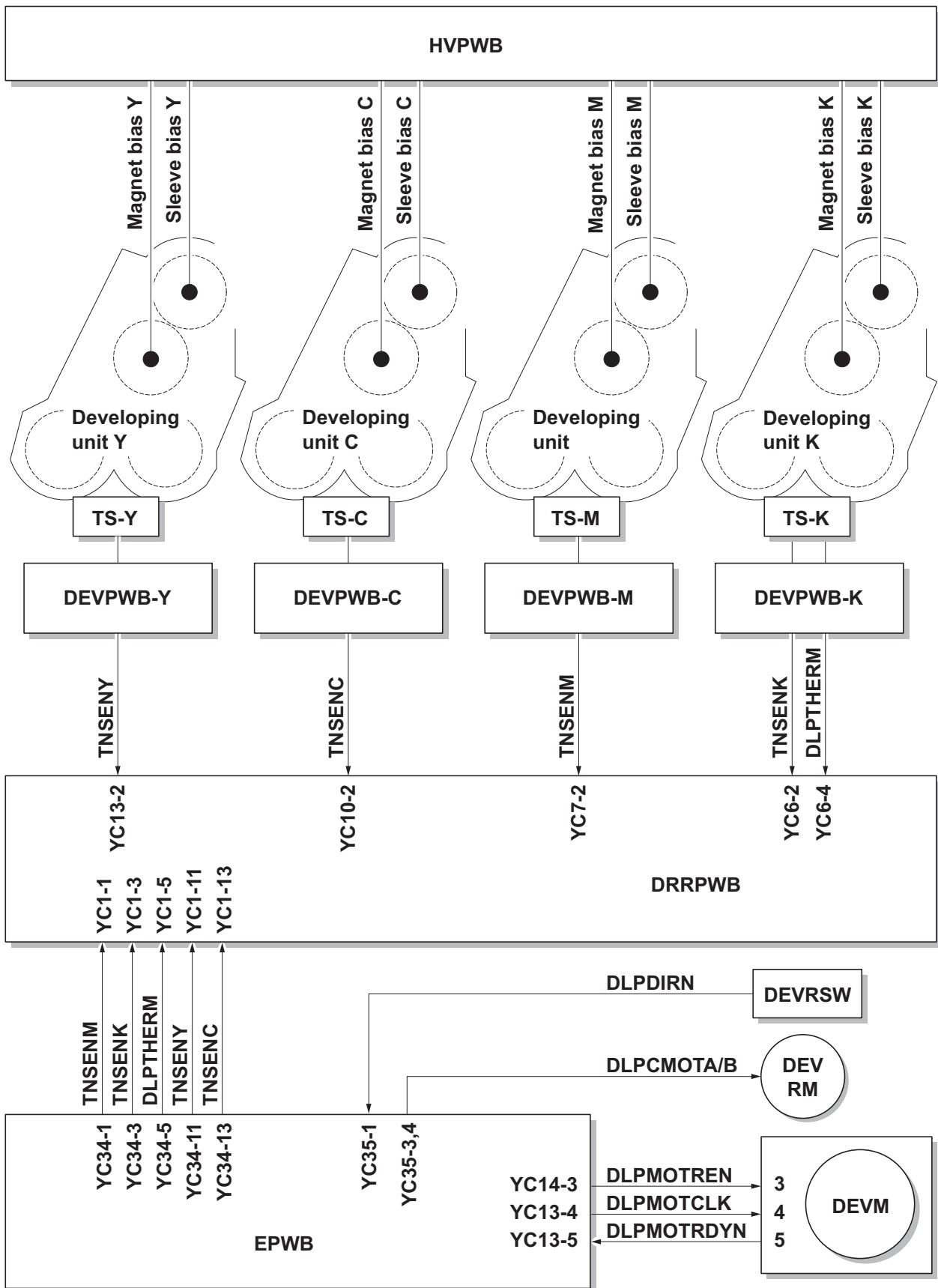


Figure 2-1-10 Developing section block diagram

2-1-4 Optical section

The optical section consists of the image scanner section for scanning and the laser scanner section for printing.

(1) Image scanner section

The original image is illuminated by the exposure lamp (EL) and scanned by the CCD image sensor in the CCD PWB (CCDPWB) via the five mirrors and ISU lens, the reflected light being converted to an electrical signal.

If a document processor is used, the image scanner unit stops at the position of the DP contact glass and scans sequentially one row of the image on the original in synchronization with the moving timing of the original in the sub scan direction by driving the DP.

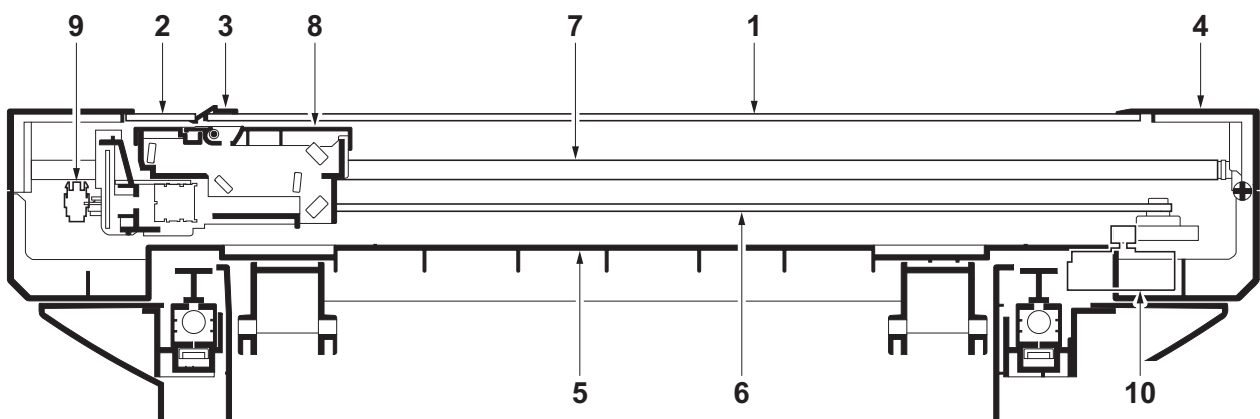


Figure 2-1-11 Scanner unit

- | | |
|----------------------------------|-------------------------------|
| 1. Contact glass | 6. ISU belt |
| 2. DP contact glass | 7. ISU shaft |
| 3. Original size indicator plate | 8. Image scanner unit (ISU) |
| 4. ISU top frame | 9. Home position sensor (HPS) |
| 5. ISU bottom frame | 10. ISU motor (ISUM) |

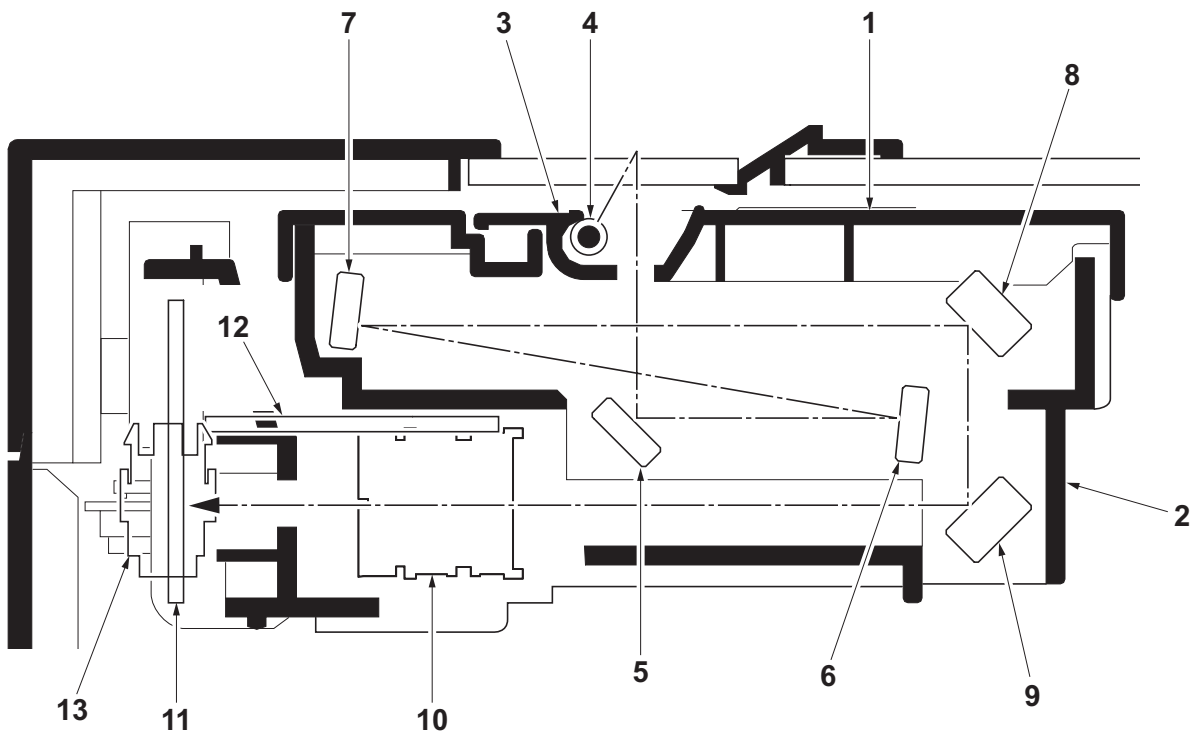


Figure 2-1-12 Image scanner unit (ISU)

- | | |
|-----------------------|--------------------------------|
| 1. Lamp mount | 8. Mirror D |
| 2. ISU housing | 9. Mirror E |
| 3. ISU reflector | 10. ISU lens |
| 4. Exposure lamp (EL) | 11. CCD PWB (CCDPWB) |
| 5. Mirror A | 12. Inverter PWB (INPWB) |
| 6. Mirror B | 13. Home position sensor (HPS) |
| 7. Mirror C | |

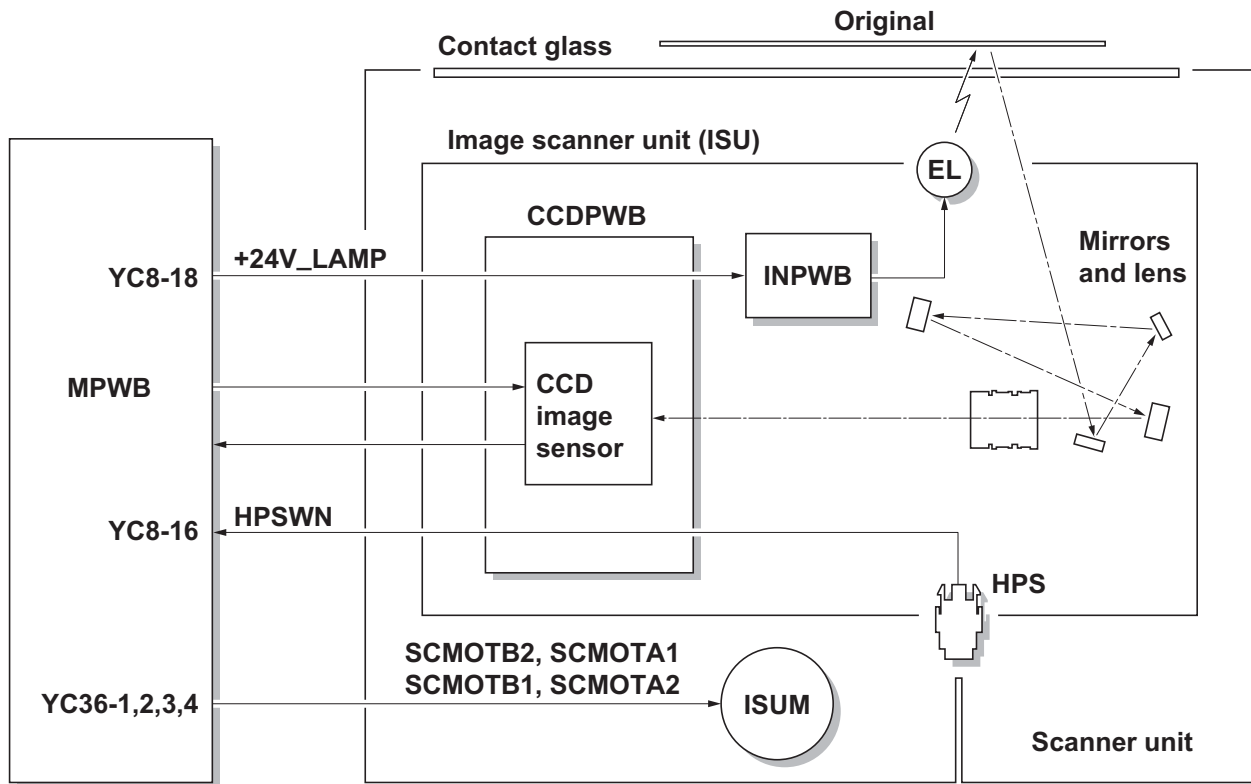


Figure 2-1-13 Scanner unit block diagram

(2) Laser scanner section

The charged surface of the drum is then scanned by the laser beam from the laser scanner unit. The laser beam is dispersed as the polygon motor (PM) revolves to reflect the laser beam over the drum. Various lenses and mirror are housed in the laser scanner unit, adjust the diameter of the laser beam, and focalize it at the drum surface. Also the LSU cleaning motor (LSUCM) is activated to conduct automatically cleaning of the LSU dust shield glass.

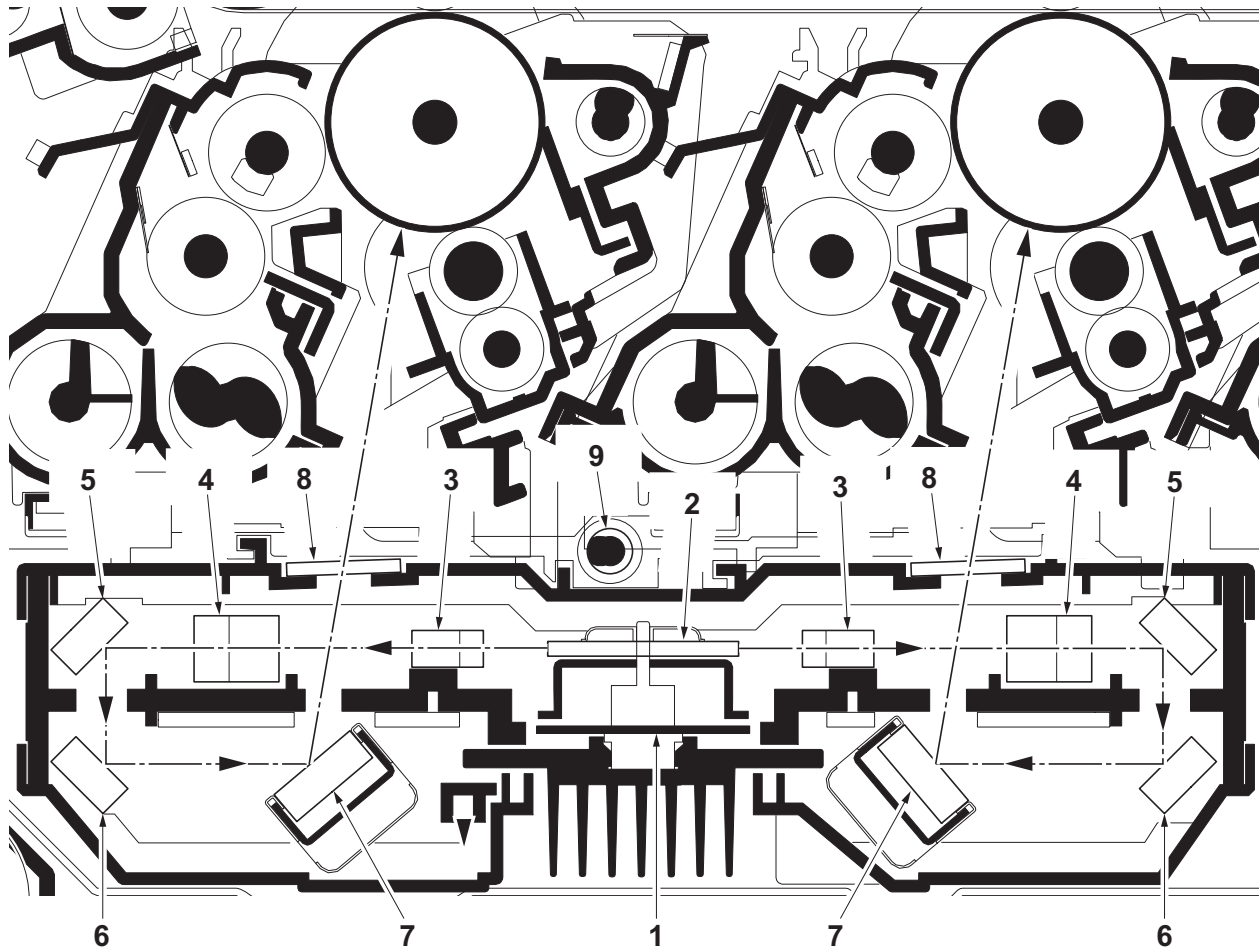


Figure 2-1-14 Laser scanner unit (LSU)

- | | |
|-----------------------|--------------------------|
| 1. Polygon motor (PM) | 6. Mirror B |
| 2. Polygon mirror | 7. Mirror C |
| 3. f- θ lens A | 8. LSU dust shield glass |
| 4. f- θ lens B | 9. LSU spiral |
| 5. Mirror A | |

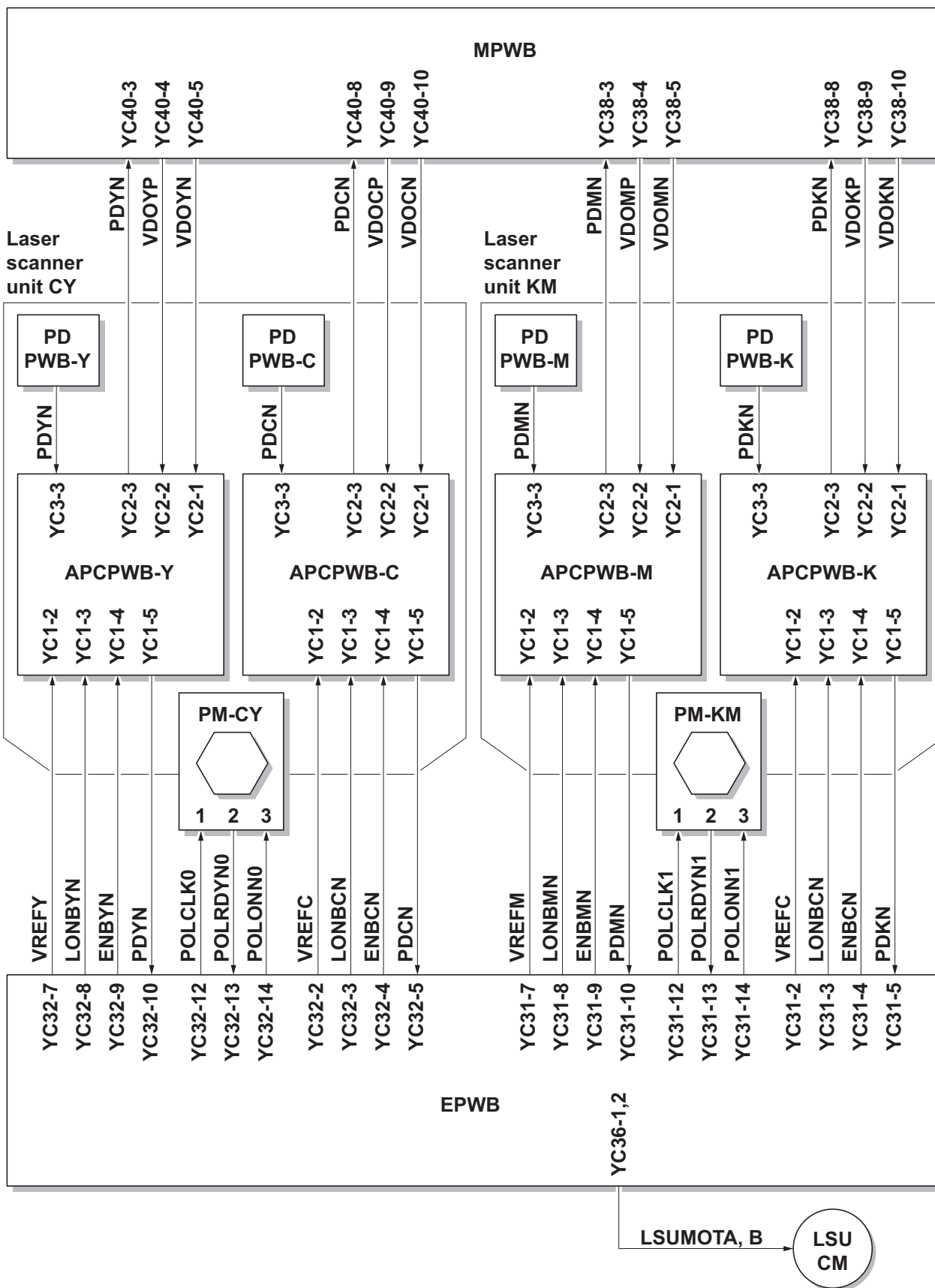


Figure 2-1-15 Laser scanner unit block diagram

2-1-5 Transfer/Separation section

The transfer/separation section consists of the intermediate transfer unit section and the secondary transfer roller section.

(1) Intermediate transfer unit section

The intermediate transfer unit section consists of the transfer cleaning unit, the transfer belt, and the four primary transfer rollers for respective color drums, and forms a full-color toner image by superimposing and transferring single-color toner images formed on each drum onto the transfer belt. Also with the ID sensors (IDS) mounted on the machine frame, the toner density on the transfer belt is measured.

The transfer cleaning unit collects toner remaining on the transfer belt after secondary transfer and forwards it as waste toner to the waste toner box.

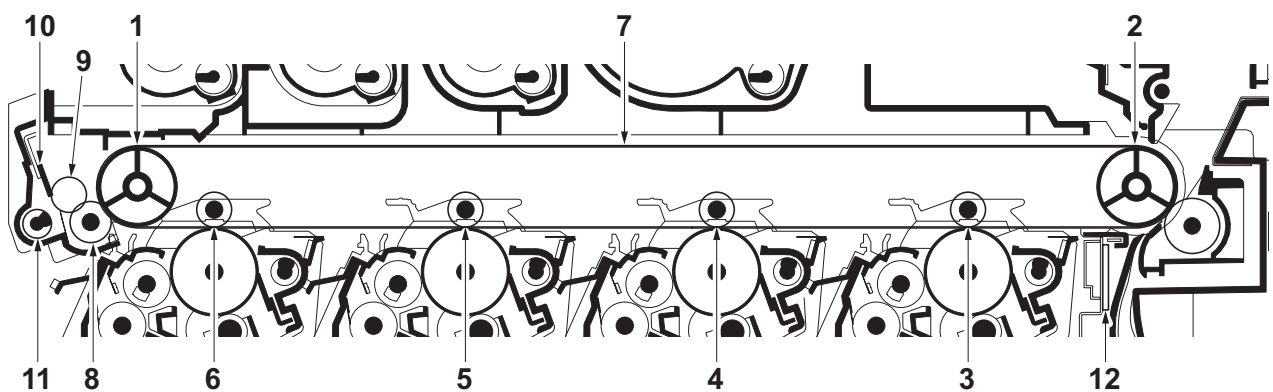


Figure 2-1-16 Intermediate transfer unit section

- | | |
|------------------------------|-----------------------|
| 1. Tension roller | 7. Transfer belt |
| 2. Drive roller | 8. Cleaning fur brush |
| 3. Primary transfer roller K | 9. Cleaning roller |
| 4. Primary transfer roller M | 10. Cleaning blade |
| 5. Primary transfer roller C | 11. Cleaning screw |
| 6. Primary transfer roller Y | 12. ID sensors (IDS) |

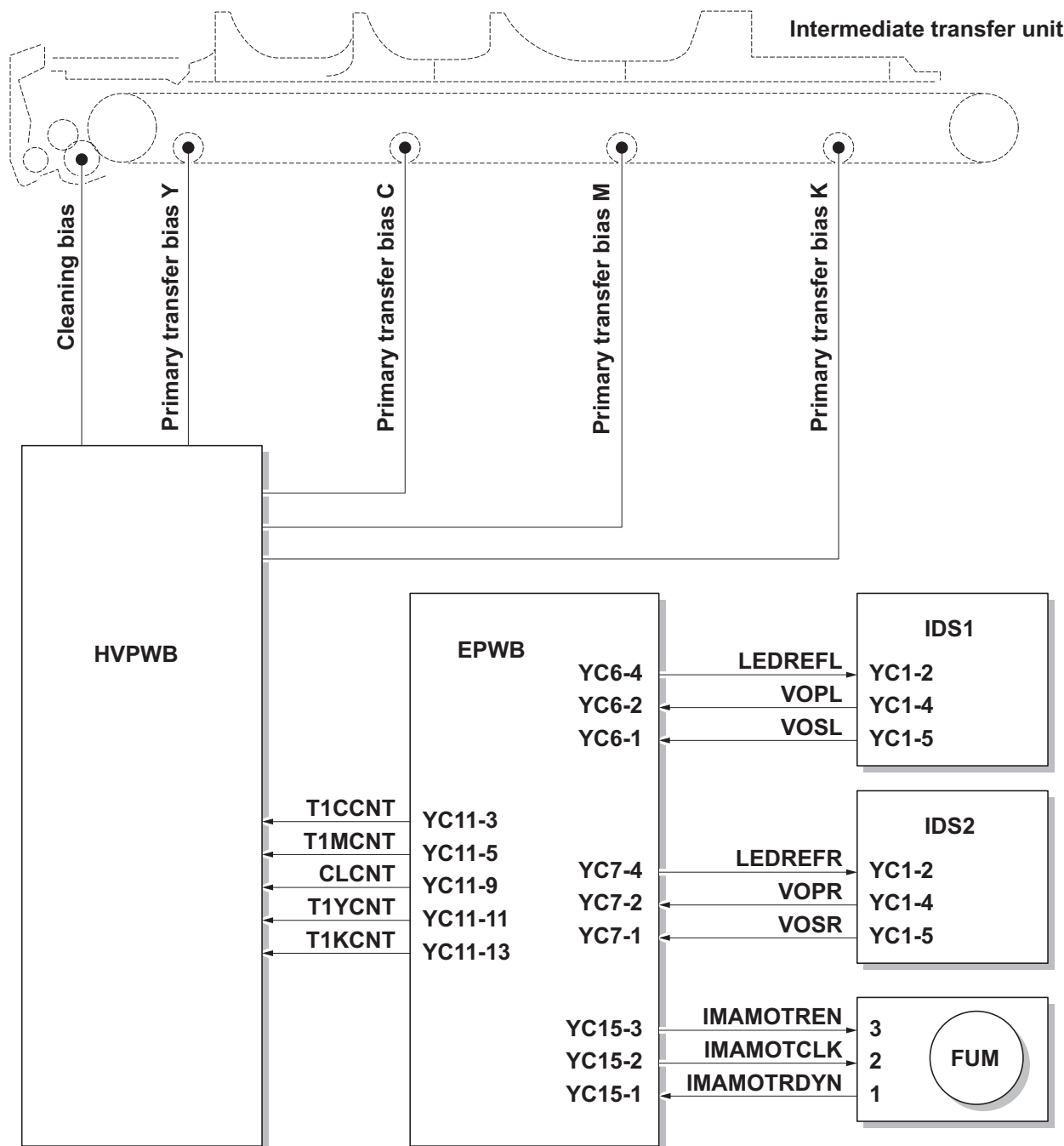


Figure 2-1-17 Intermediate transfer unit section block diagram

(2) Secondary transfer roller section

The secondary transfer roller section consists of the secondary transfer roller mounted to the paper conveying unit and the separation brush. To the secondary transfer roller, DC bias is applied from the high voltage PWB (HVPWB). The toner image formed on the transfer belt is transferred to the paper by the potential difference and the paper is separated by curvature separation.

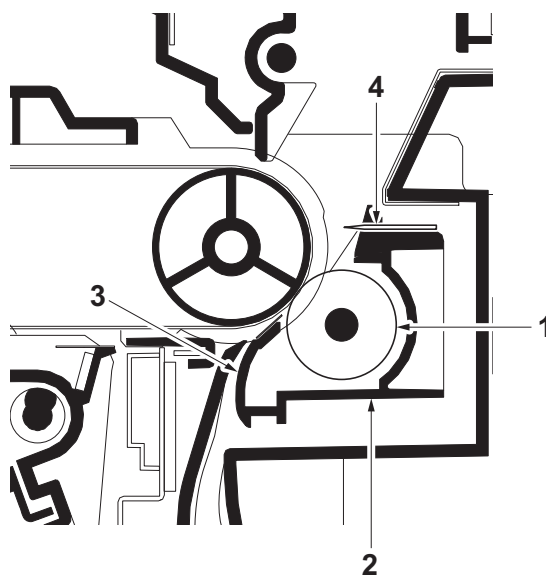


Figure 2-1-18 Secondary transfer roller section

- 1. Secondary transfer roller
- 2. Brush holder
- 3. Paper chute guide
- 4. Separation brush

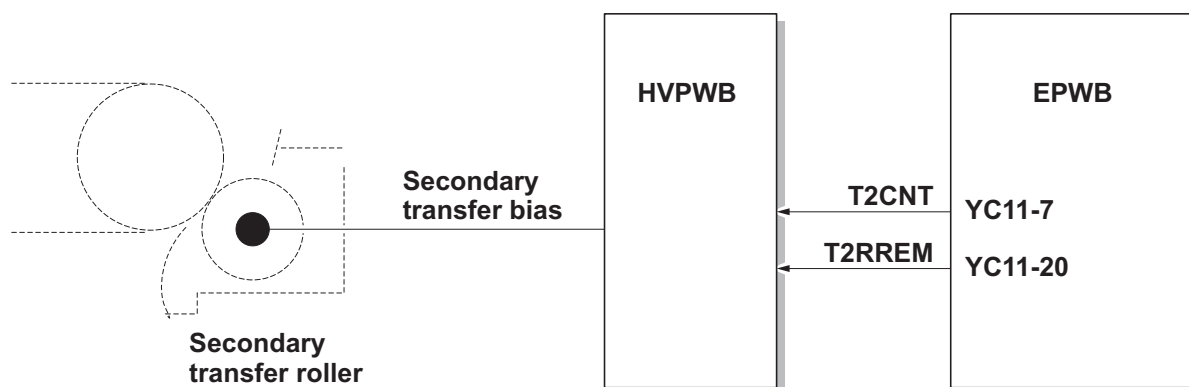


Figure 2-1-19 Secondary transfer roller section block diagram

2-1-6 Fuser section

The paper sent from the transfer/separation section is interleaved between the heat roller and the press roller. The heat roller is heated by the fuser heater (FH), and the toner is fused by heat and pressure and fixed onto the paper because the press roller is pressed by the fuser press spring. The surface temperature of heat roller is detected by the fuser thermistor (FTH) and controlled by the engine PWB (EPWB). If the fuser section shows extremely high temperature, the power line will be shut off and the fuser heater (FH) is forced to turn off.

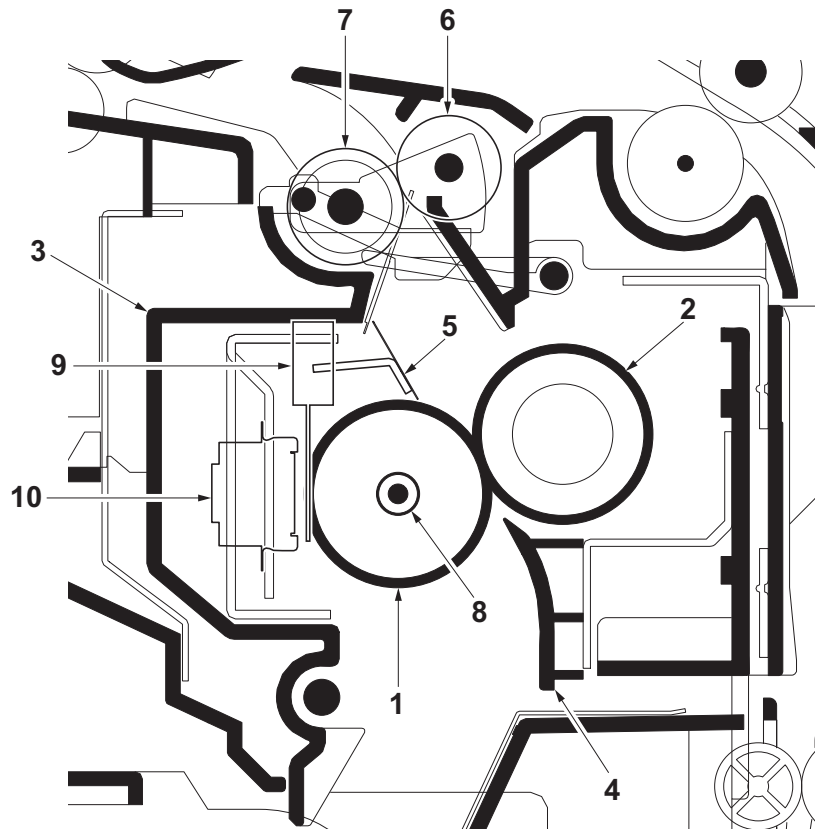


Figure 2-1-20 Fuser section

- | | |
|----------------------|----------------------------|
| 1. Heat roller | 6. Eject roller |
| 2. Press roller | 7. Eject pulley |
| 3. Upper fuser frame | 8. Fuser heater (FH) |
| 4. Fuser paper guide | 9. Fuser thermistor (FTH) |
| 5. Separators | 10. Fuser thermostat (FTS) |

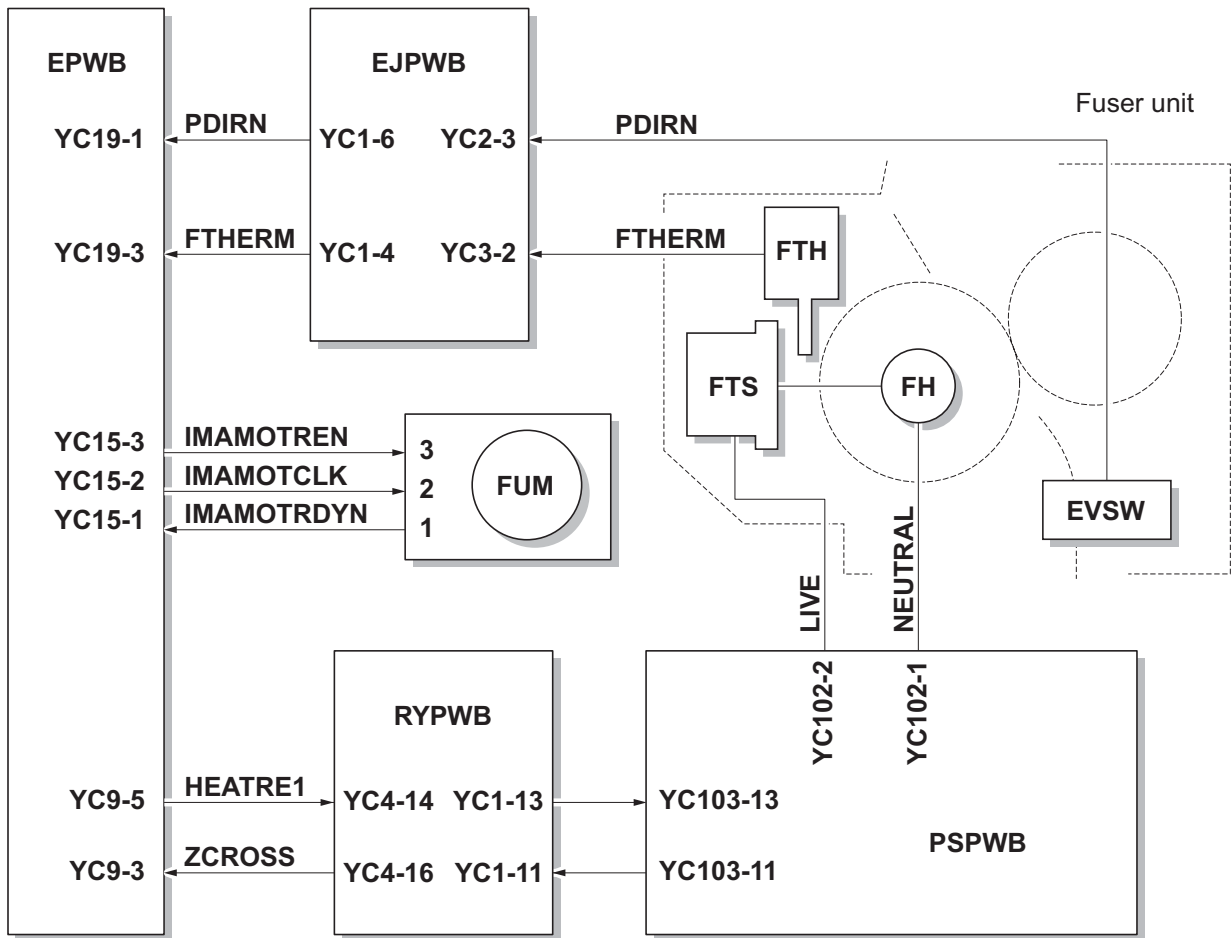


Figure 2-1-21 Fuser section block diagram

2-1-7 Eject/Feedshift section

The paper eject/feedshift section consists of the conveying path which sends the paper that has passed the fuser section to the top tray or the duplex conveying section.

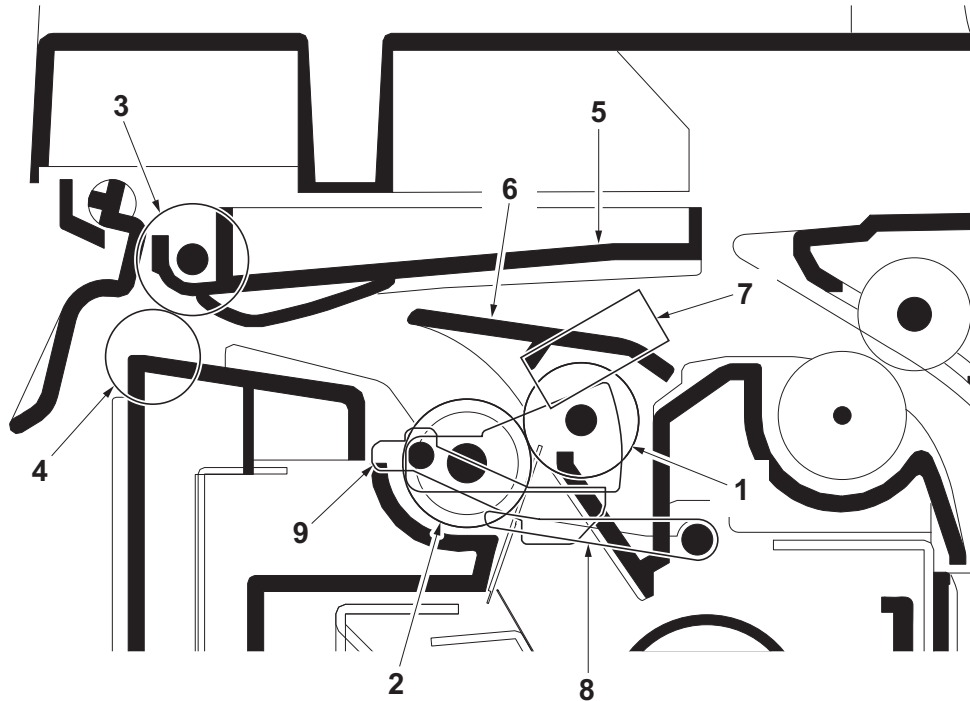


Figure 2-1-22 Eject/Feed shift section

- | | |
|----------------------|----------------------------|
| 1. Eject roller | 6. Change guide |
| 2. Eject pulley | 7. Eject sensor (ES) |
| 3. Eject roller | 8. Actuator (eject sensor) |
| 4. Eject pulley | 9. Actuator (eject sensor) |
| 5. Upper eject guide | |

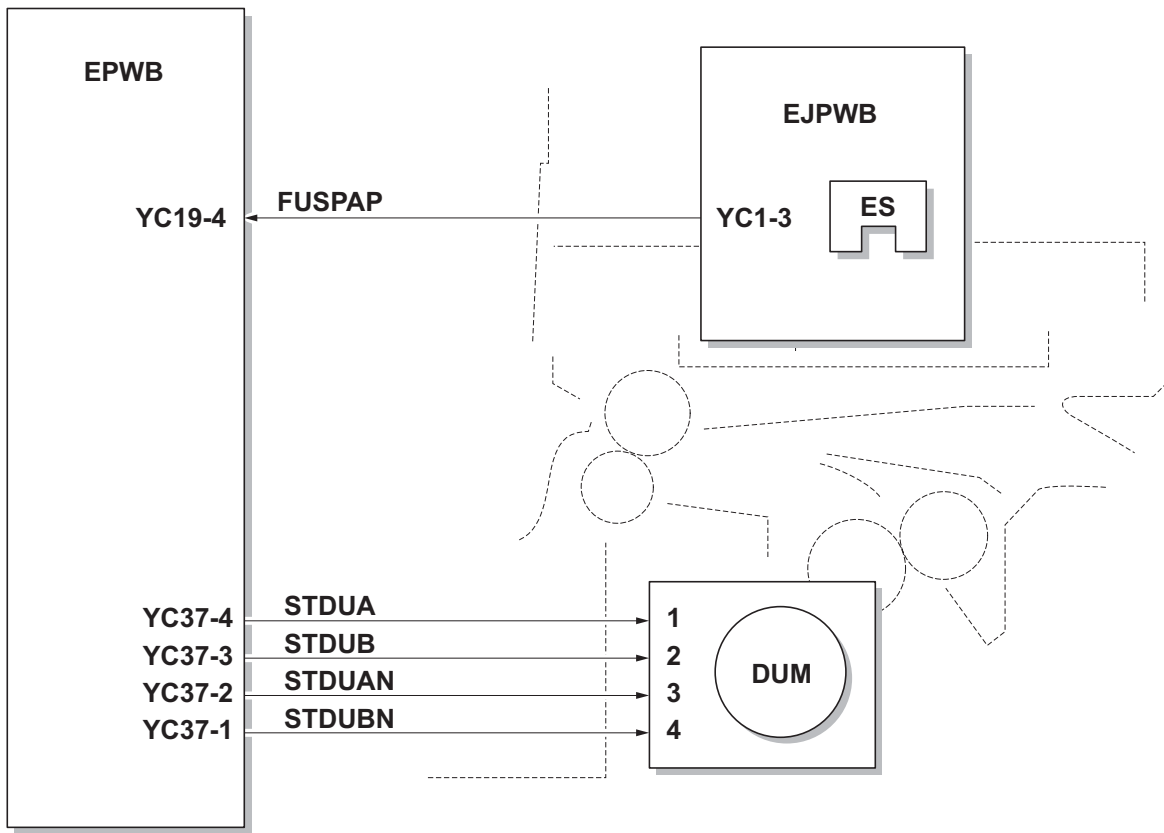


Figure 2-1-23 Eject/Feed shift section block diagram

2-1-8 Duplex conveying section

The duplex conveying section consists of conveying path which sends the paper sent from the eject/feedshift section to the paper feed/conveying section when duplex printing.

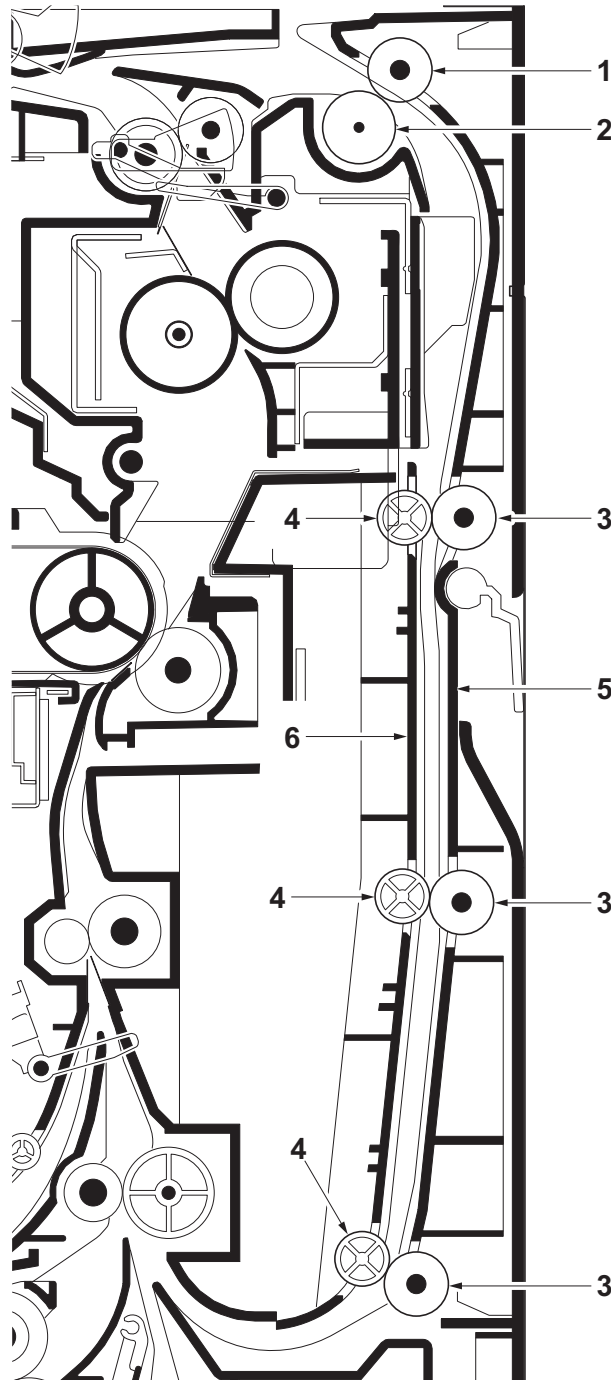


Figure 2-1-24 Duplex conveying section

- | | |
|---------------------|----------------------|
| 1. Duplex roller L | 4. Duplex pulleys |
| 2. Eject pulley | 5. Duplex frame |
| 3. Duplex rollers S | 6. Duplex feed guide |

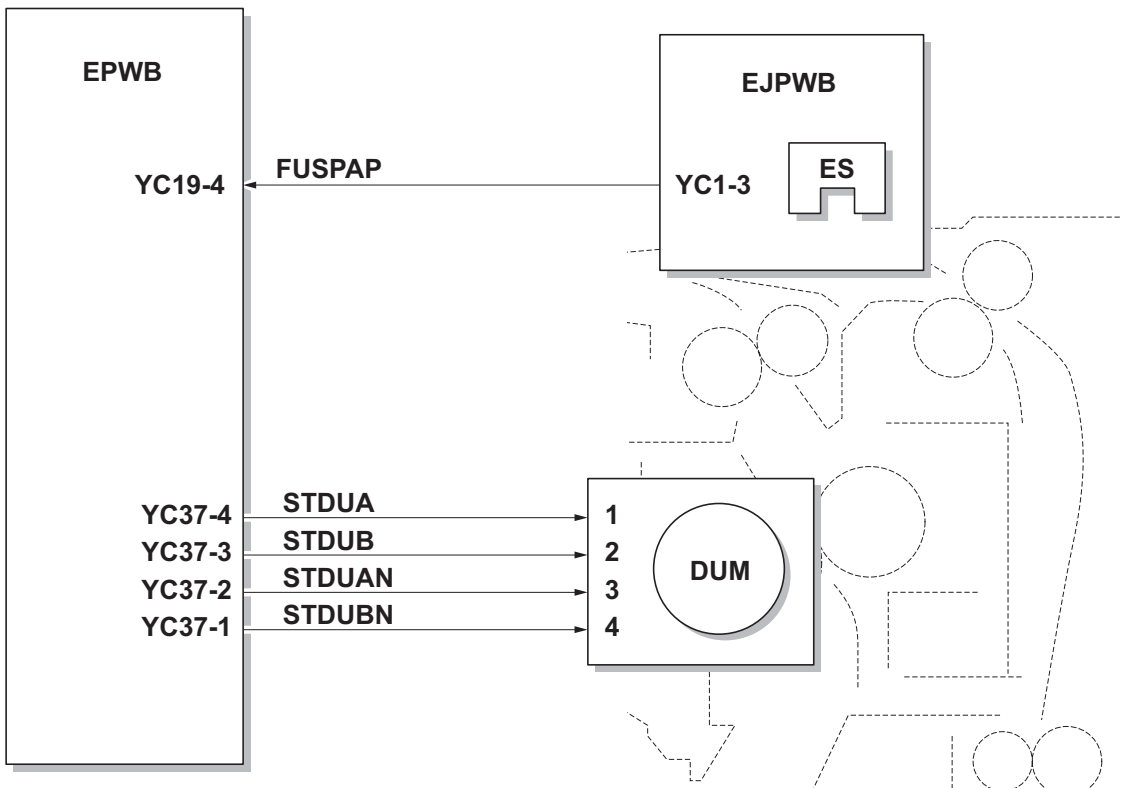


Figure 2-1-25 Duplex conveying section block diagram

2-1-9 Document processor

(1) Original feed section

The original feed section consists of the parts shown in figure. An original placed on the original table is conveyed to the original conveying section. Original is fed by the rotation of the DP forwarding pulley and DP feed pulley.

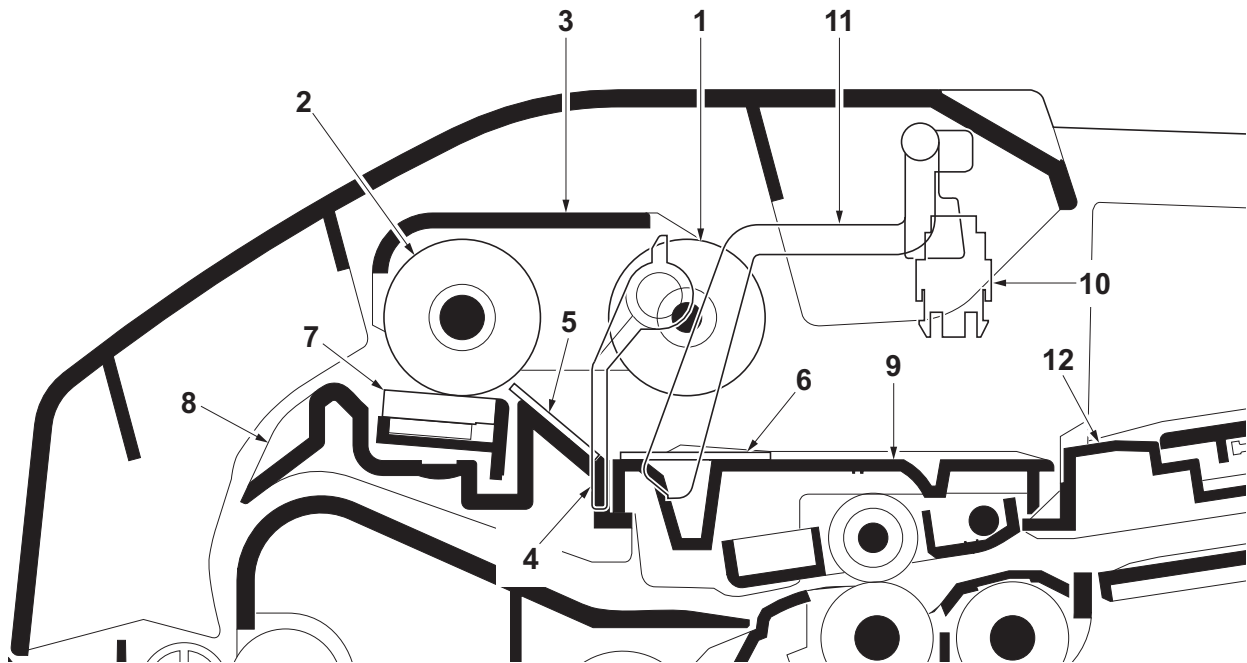


Figure 2-1-26 Original feed section

- | | |
|-------------------------|-----------------------------------|
| 1. DP forwarding pulley | 7. DP separation pad |
| 2. DP feed pulley | 8. Upper guide |
| 3. LF holder | 9. Switchback guide |
| 4. PF stopper | 10. DP original sensor (DPOS) |
| 5. Front separation pad | 11. Actuator (DP original sensor) |
| 6. LF friction plate | 12. Original table |

1

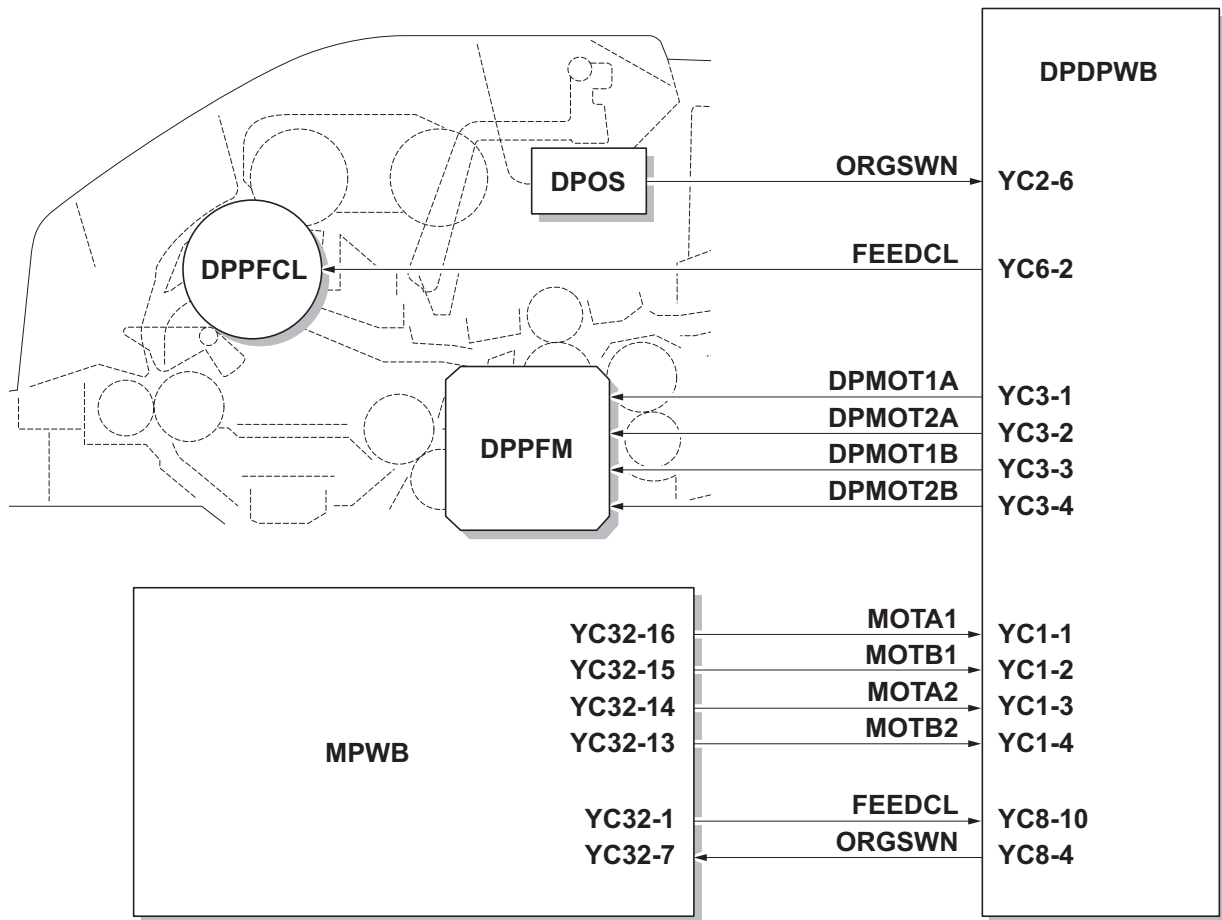


Figure 2-1-27 Original feed section block diagram

(2) Original conveying section

The original conveying section consists of the parts shown in figure. A conveyed original is scanned by the optical section (CCD) of main machine when it passes through the DP contact glass of main machine.

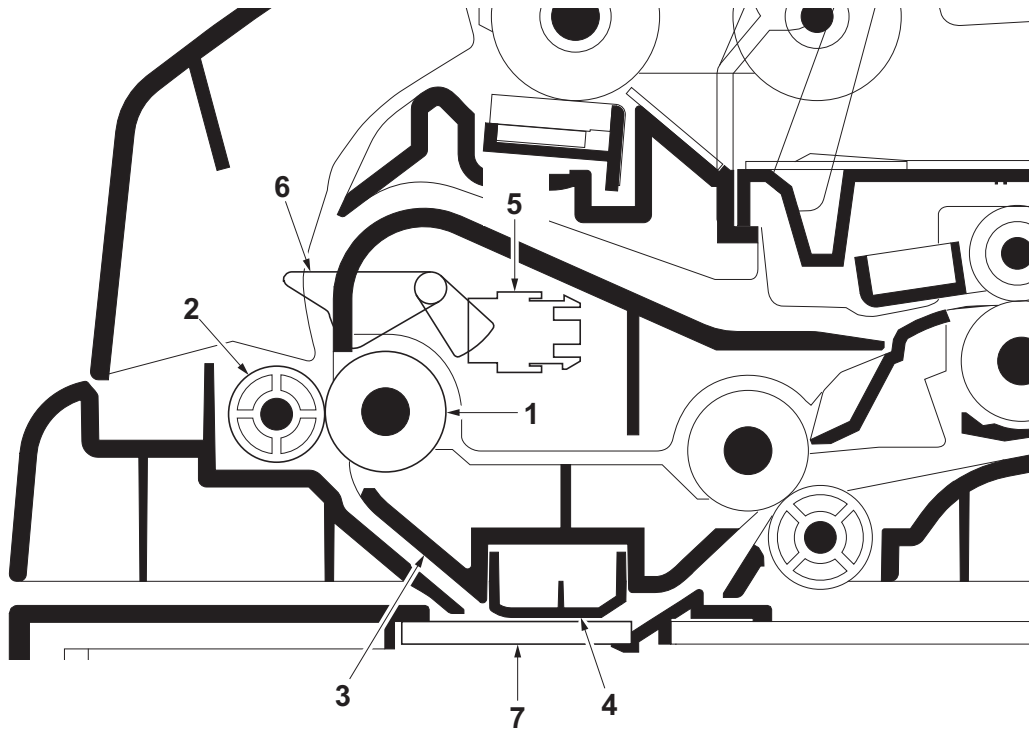


Figure 2-1-28 Original conveying section

- | | |
|-----------------------|--------------------------------|
| 1. Conveying roller A | 5. DP timing sensor (DPTS) |
| 2. Conveying pulley | 6. Actuator (DP timing sensor) |
| 3. Conveying bottom | 7. DP contact glass |
| 4. Reading guide | |

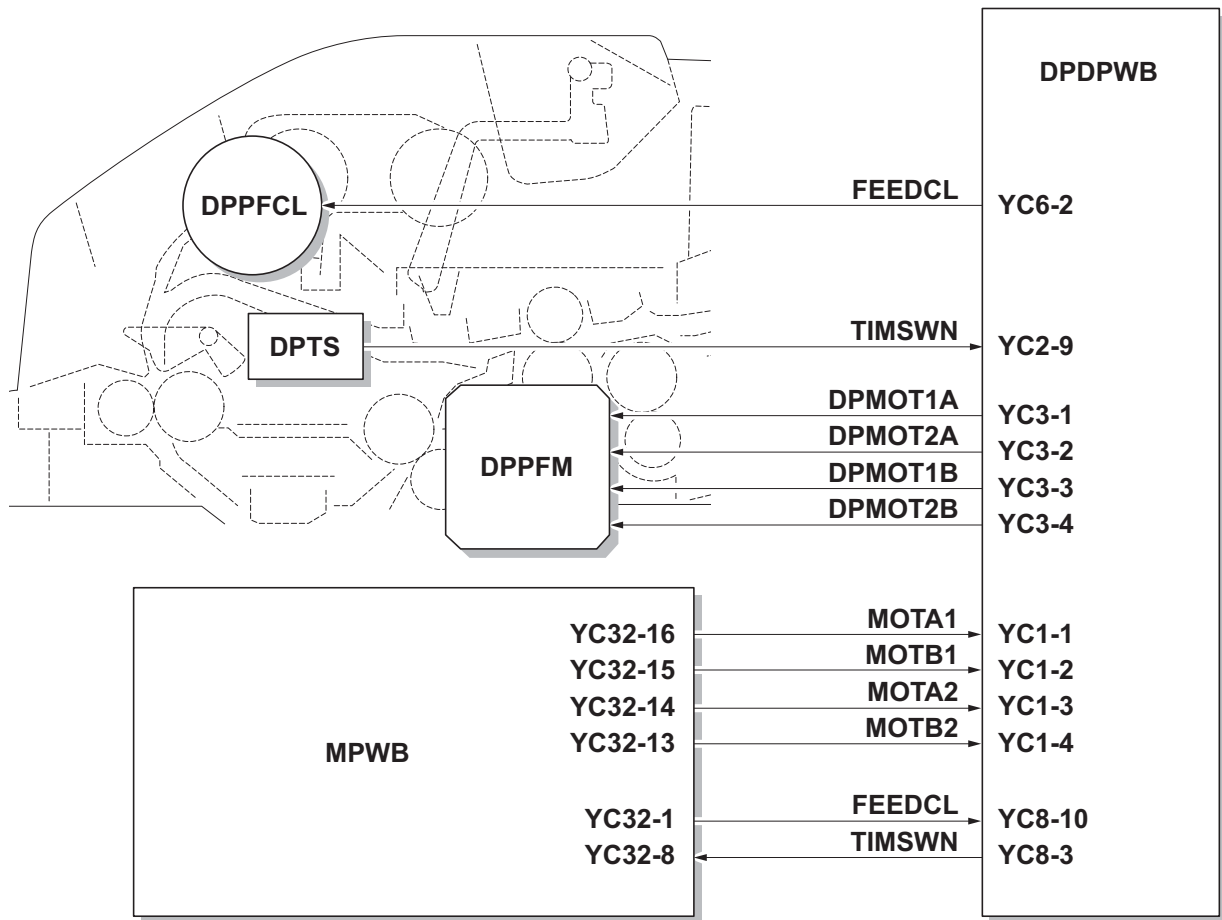


Figure 2-1-29 Original conveying section block diagram

(3) Original switchback/eject sections

The original switchback/eject sections consists of the parts shown in figure. An original of which scanning is complete is ejected to the original eject table by the eject roller. In the case of duplex switchback scanning, an original is conveyed temporarily to the switchback tray and conveyed again to the original conveying section by the switchback roller.

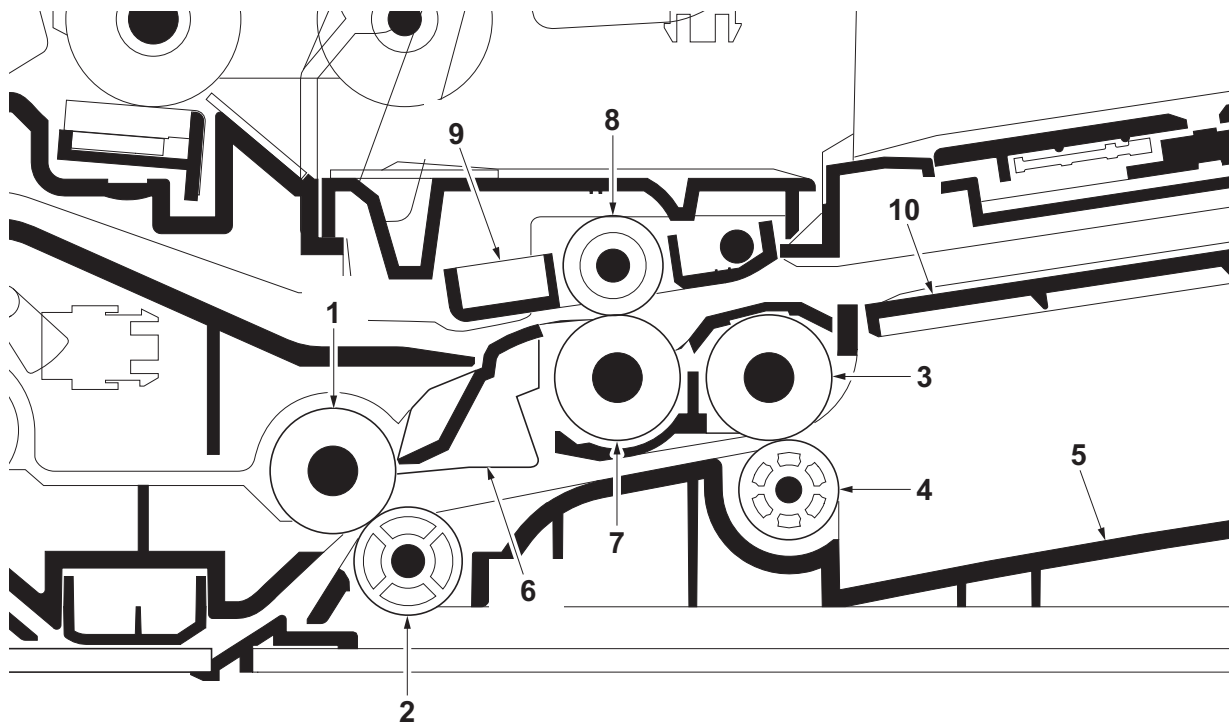


Figure 2-1-30 Original switchback/eject sections

- | | |
|-------------------------|----------------------------|
| 1. Conveying roller B | 6. Switchback guide |
| 2. Conveying pulley | 7. Switchback roller |
| 3. Eject roller | 8. Switchback pulley |
| 4. Eject pulley | 9. Switchback pulley mount |
| 5. Original eject table | 10. Switchback tray |

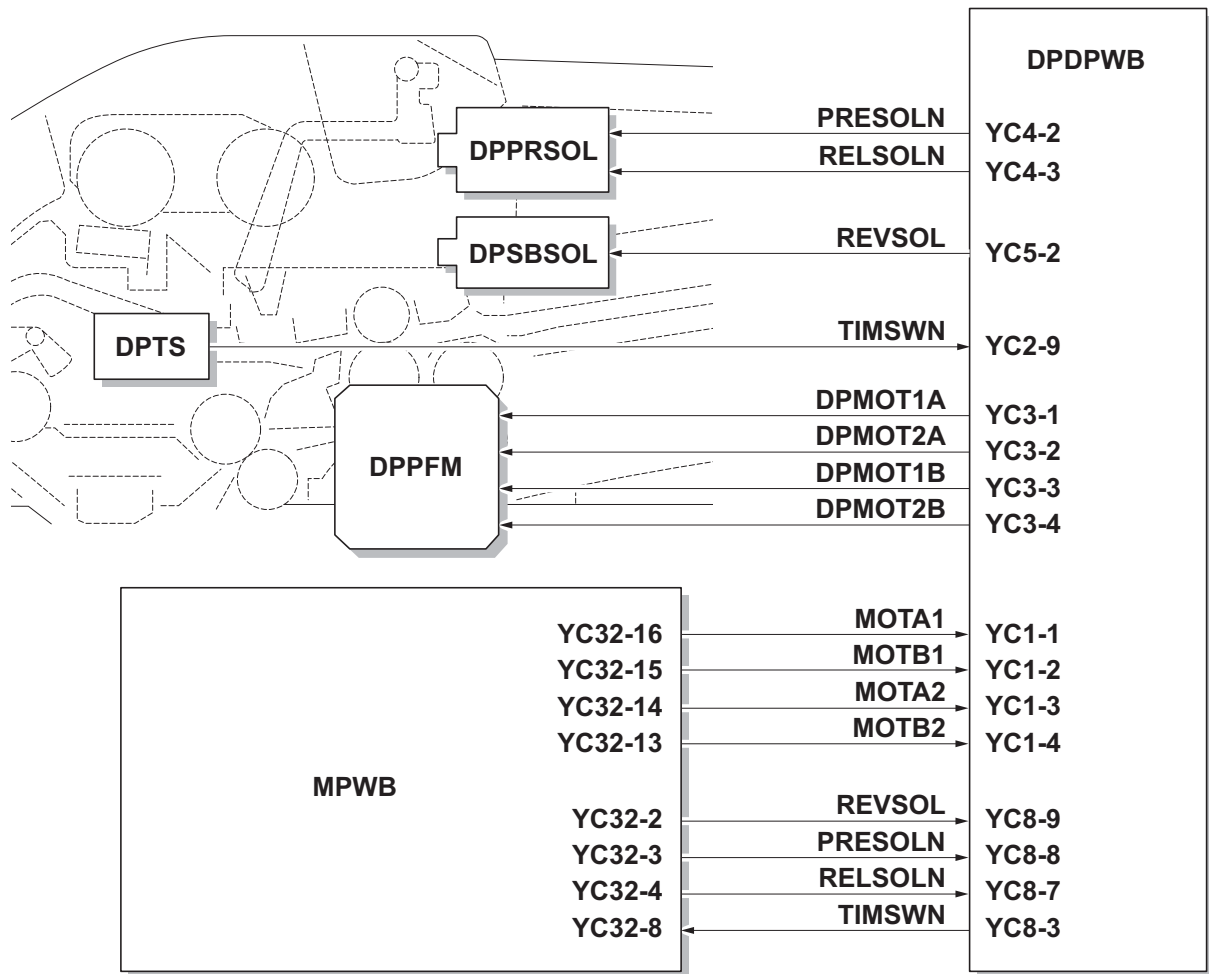


Figure 2-1-31 Original switchback/eject sections block diagram

2-2-1 Electrical parts layout

(1) PWBs

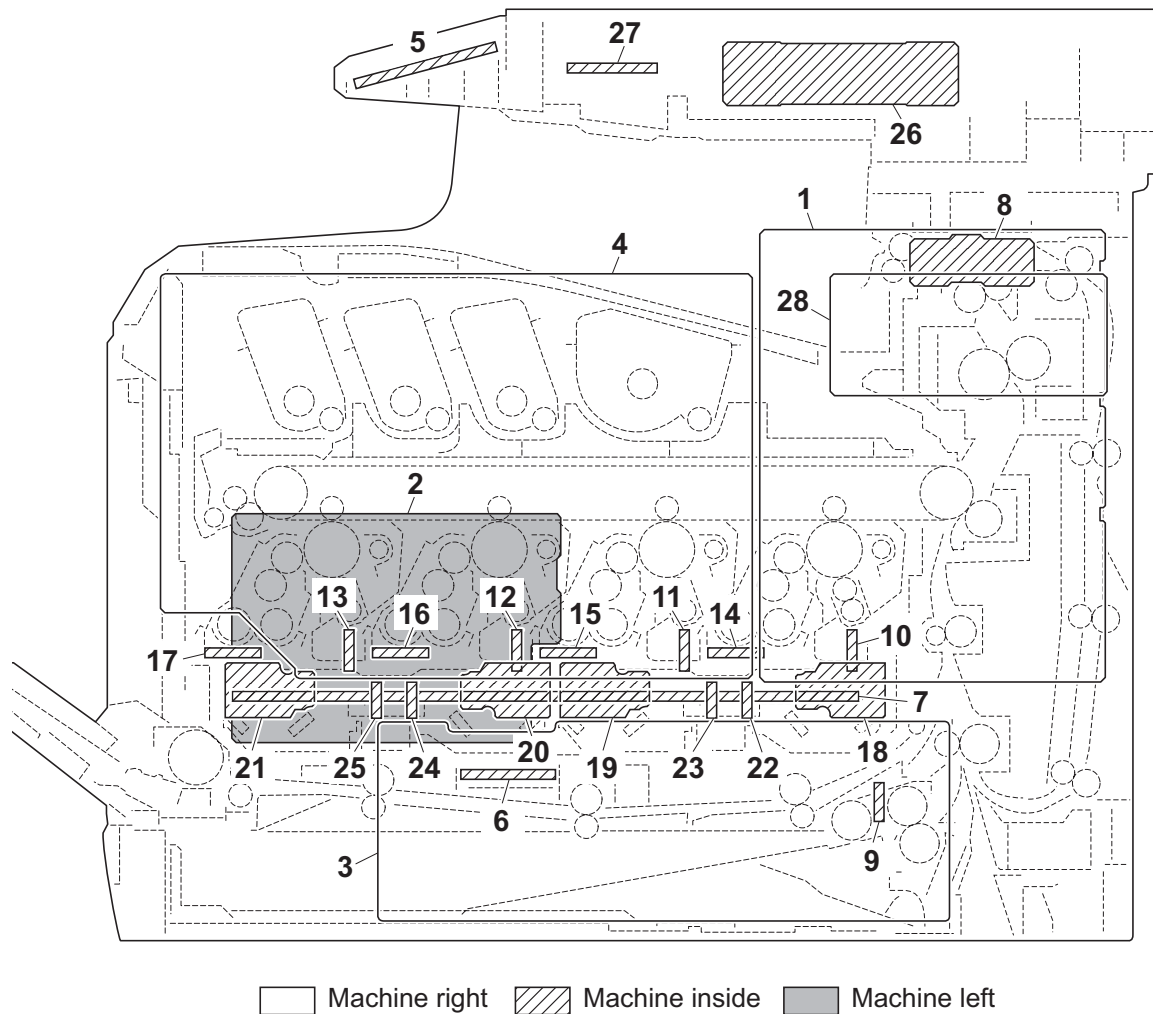


Figure 2-2-1 PWBs

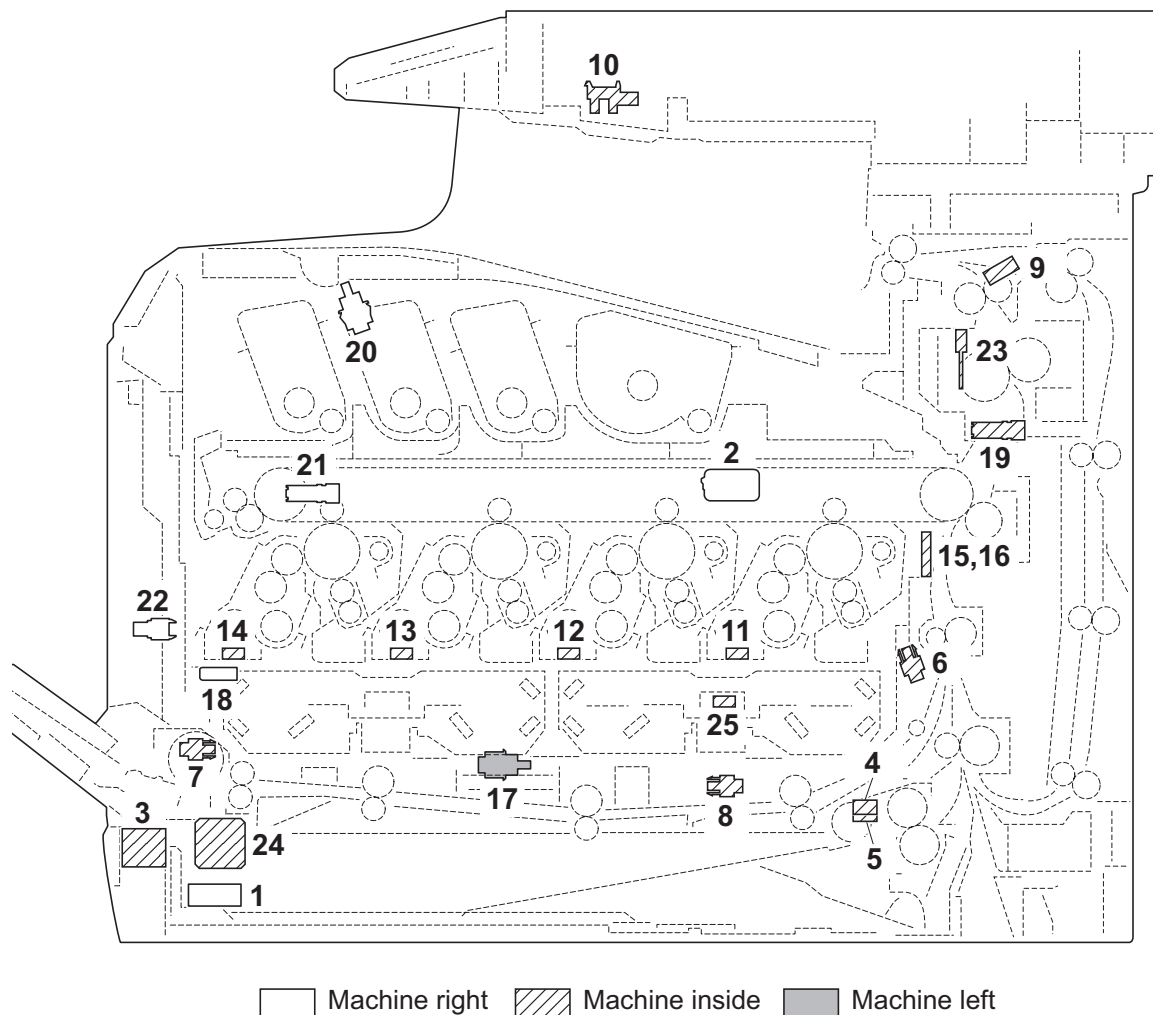
- | | |
|--------------------------------------|--|
| 1. Main PWB (MPWB) | Controls the software such as the print data processing and provides the interface with computers. |
| 2. Engine PWB (EPWB)..... | Controls printer hardware such as high voltage/bias output control, paper conveying system control, and fuser temperature control, etc. |
| 3. Power source PWB (PSPWB) | After full-wave rectification of AC power source input, switching for converting to 24 V DC and 5V DC for output. Controls the fuser heater. |
| 4. High voltage PWB (HVPWB) | Generates main charging, developing bias, transfer bias and cleaning bias. |
| 5. Operation panel PWB (OPPWB) | Controls the LCD display. Consists the LCD, LED indicators and key switches. |
| 6. Relay PWB (RPWB) | Consists of wiring relay circuit between main PWB and engine PWB and power source PWB. |
| 7. Drum relay PWB (DRRPWB)..... | Consists of wiring relay circuit between engine PWB and the drum units and developing units. |

- | | |
|---------------------------------------|--|
| 8. Eject PWB (EJPWB) | Consists of wiring relay circuit between engine PWB and each electrical component (eject section). |
| 9. Cassette PWB (CPWB) | Interconnects the engine PWB and each electrical component (cassette section). |
| 10. Drum PWB K (DRPWB-K) | Relays wirings from electrical components on the drum unit K. Drum individual information in EEPROM storage. |
| 11. Drum PWB M (DRPWB-M) | Relays wirings from electrical components on the drum unit M. Drum individual information in EEPROM storage. |
| 12. Drum PWB C (DRPWB-C) | Relays wirings from electrical components on the drum unit C. Drum individual information in EEPROM storage. |
| 13. Drum PWB Y (DRPWB-Y) | Relays wirings from electrical components on the drum unit Y. Drum individual information in EEPROM storage. |
| 14. Developing PWB K (DEVPWB-K) | Relays wirings from electrical components on the developing unit K. |
| 15. Developing PWB M (DEVPWB-M) | Relays wirings from electrical components on the developing unit M. |
| 16. Developing PWB C (DEVPWB-C) | Relays wirings from electrical components on the developing unit C. |
| 17. Developing PWB Y (DEVPWB-Y) | Relays wirings from electrical components on the developing unit Y. |
| 18. APC PWB K (APCPWB-K) | Generates and controls the laser beam (black). |
| 19. APC PWB M (APCPWB-M) | Generates and controls the laser beam (magenta). |
| 20. APC PWB C (APCPWB-C) | Generates and controls the laser beam (cyan). |
| 21. APC PWB Y (APCPWB-Y) | Generates and controls the laser beam (yellow). |
| 22. PD PWB K (PDPWB-K) | Controls horizontal synchronizing timing of laser beam (black). |
| 23. PD PWB M (PDPWB-M) | Controls horizontal synchronizing timing of laser beam (magenta). |
| 24. PD PWB C (PDPWB-C) | Controls horizontal synchronizing timing of laser beam (cyan). |
| 25. PD PWB Y (PDPWB-Y) | Controls horizontal synchronizing timing of laser beam (yellow). |
| 26. CCD PWB (CCDPWB) | Reads the image of originals. |
| 27. Inverter PWB (INPWB) | Controls the exposure lamp. |
| 28. Fax control PWB (FCPWB)* | Modulates, demodulates, compresses, decompresses and smoothes out image data, and converts resolution of image data. |

*: 4 in 1 model (with FAX) only.

List of correspondences of PWB names

No.	Name used in service manual	Name used in parts list
1	Main PWB (MPWB)	PARTS PWB MAIN ASSY SP
2	Engine PWB (EPWB)	PARTS PWB ENGINE ASSY SP
3	Power source PWB (PSPWB)	PARTS SWITCHING REGULATOR SP
4	High voltage PWB (HVPWB)	PARTS HIGH VOLTAGE UNIT SP
5	Operation panel PWB (OPPWB)	-
6	Relay PWB (RPWB)	-
7	Drum relay PWB (DRRPWB)	-
8	Eject PWB (EJPWB)	PARTS PWB ASSY EXIT SP
9	Cassette PWB (CPWB)	PARTS PWB ASSY CASSETTE SP
10	Drum PWB K (DRPWB-K)	-
11	Drum PWB M (DRPWB-M)	-
12	Drum PWB C (DRPWB-C)	-
13	Drum PWB Y (DRPWB-Y)	-
14	Developing PWB K (DEVPWB-K)	-
15	Developing PWB M (DEVPWB-M)	-
16	Developing PWB C (DEVPWB-C)	-
17	Developing PWB Y (DEVPWB-Y)	-
18	APC PWB K (APCPWB-K)	-
19	APC PWB M (APCPWB-M)	-
20	APC PWB C (APCPWB-C)	-
21	APC PWB Y (APCPWB-Y)	-
22	PD PWB K (PDPWB-K)	-
23	PD PWB M (PDPWB-M)	-
24	PD PWB C (PDPWB-C)	-
25	PD PWB Y (PDPWB-Y)	-
26	CCD PWB (CCDPWB)	-
27	Inverter PWB (INPWB)	-
28	Fax control PWB (FCPWB)	PARTS FAX UNIT J SP

(2) Switches and sensors**Figure 2-2-2 Switches and sensors**

- | | |
|--|---|
| 1. Main power switch (MSW) | Turns ON/OFF the AC power source. |
| 2. Interlock switch (ILSW) | Shuts off 24 V DC power line when the top tray and rear cover are opened. |
| 3. Cassette size switch (CSSW) | Detects the paper size dial setting of the paper setting dial. |
| 4. Paper sensor (PS) | Detects the presence of paper in the cassette. |
| 5. Lift sensor (LS)..... | Detects activation of upper limit of the bottom plate. |
| 6. Registration sensor (RS)..... | Controls the secondary paper feed start timing. |
| 7. MP paper sensor (MPPS) | Detects the presence of paper on the MP tray. |
| 8. MP paper conveying sensor (MPFS) | Detects a paper misfeed in the MP paper conveying section. |
| 9. Eject sensor (ES)..... | Detects a paper misfeed in the fuser or eject section. |
| 10. Home position sensor (HPS) | Detects the ISU in the home position. |
| 11. Toner sensor K (TS-K) | Detects the toner density in the developing unit K. |
| 12. Toner sensor K (TS-M)..... | Detects the toner density in the developing unit M. |
| 13. Toner sensor K (TS-C) | Detects the toner density in the developing unit C. |
| 14. Toner sensor K (TS-Y) | Detects the toner density in the developing unit Y. |
| 15. ID sensor 1 (IDS1) | Measures image density for color calibration. |
| 16. ID sensor 2 (IDS2) | Measures image density for color calibration. |

17. Developing release switch (DEVRSW)..... Detects separation of developing units M, C and Y.
18. Waste toner sensor (WTS)..... Detects when the waste toner box is full.
19. Envelope switch (EVSW)..... Detects the envelope mode setting.
20. Top tray switch (TTSW)..... Detects the opening and closing of the top tray.
21. Toner container sensor (TCS)..... Detects the presence of the toner container.
22. Waste toner cover sensor (WTCS) Detects the opening and closing of the waste toner cover.
23. Fuser thermistor (FTH) Detects the heat roller temperature.
24. Outer temperature sensor (OTEMS)..... Detects the outside temperature and humidity.
25. Inner temperature sensor (ITEMS) Detects the inside temperature.

(3) Motors

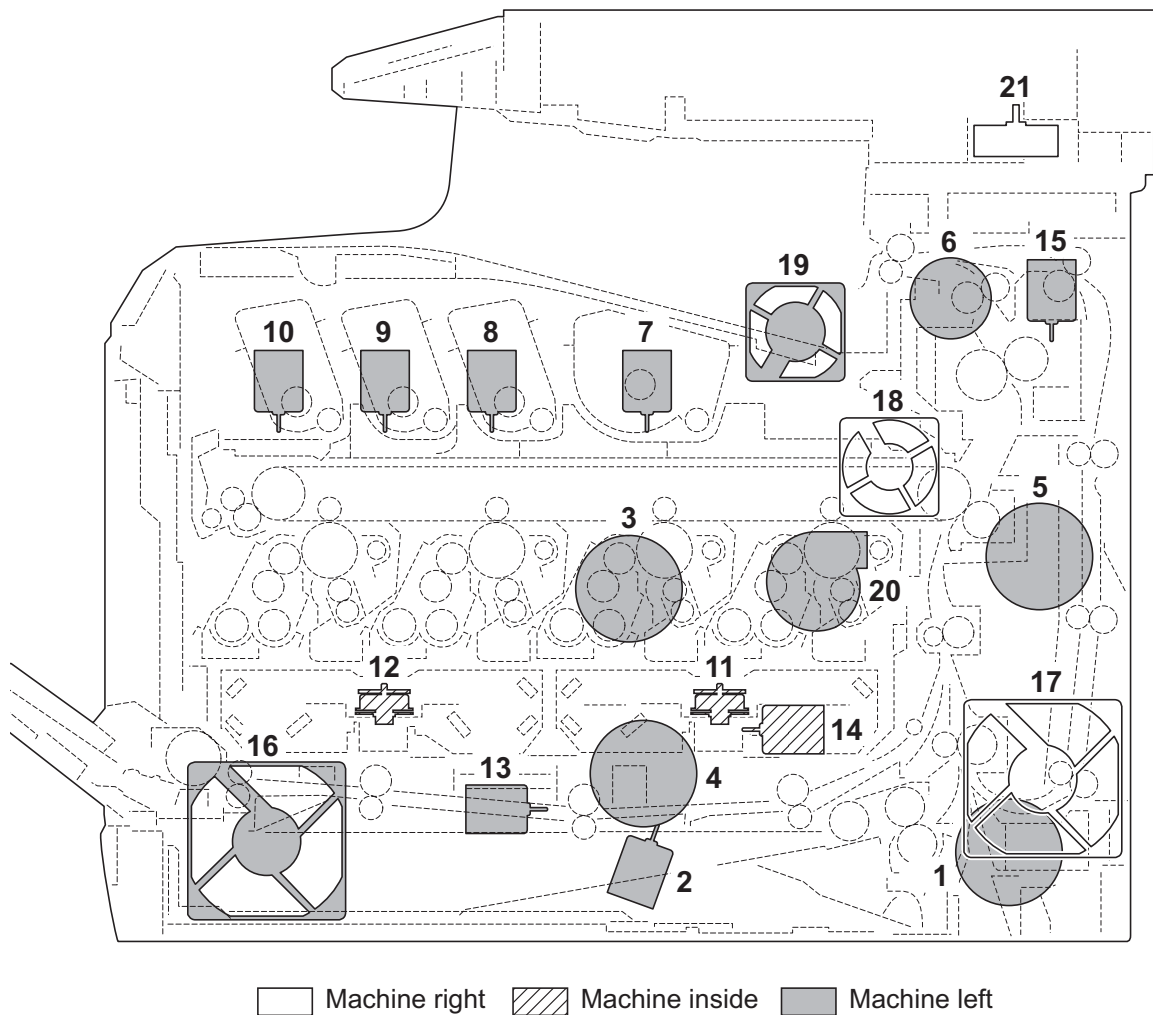


Figure 2-2-3 Motors

- 1. Paper feed motor (PFM) Drives the paper feed section.
- 2. Lift motor (LM)..... Operates the bottom plate.
- 3. Drum motor (DRM) Drives the drum unit.
- 4. Developing motor (DEVM)..... Drives the developing unit.
- 5. Fuser motor (FUM) Drives the transfer section and the fuser section.
- 6. Duplex motor (DUM)..... Drives the duplex section.
- 7. Toner motor K (TM-K)..... Replenishes toner to the developing unit K
- 8. Toner motor M (TM-M)..... Replenishes toner to the developing unit M
- 9. Toner motor C (TM-C)..... Replenishes toner to the developing unit C
- 10. Toner motor Y (TM-Y) Replenishes toner to the developing unit Y
- 11. Polygon motor KM (PM-KM)..... Drives the polygon mirror KM.
- 12. Polygon motor CY (PM-CY)..... Drives the polygon mirror CY.
- 13. Developing release motor (DEVRM)..... Drives separation of developing units M, C and Y.
- 14. LSU cleaning motor (LSUCM) Drives LSU dust shield glass cleaning system.
- 15. Fuser pressure release motor (FPRM) Drives fuser pressure release.
- 16. Left fan motor (LFM) Cools the interior of machine.
- 17. Right fan motor (RFM) Cools the interior of machine.

- 18. Controller fan motor (CONFM)..... Cools the controller section.
- 19. Fuser fan motor (FUFM) Cools the toner container section.
- 20. Container fan motor (CFM) Cools the toner container section.
- 21. ISU motor (ISUM) Drives the ISU.

(4) Others

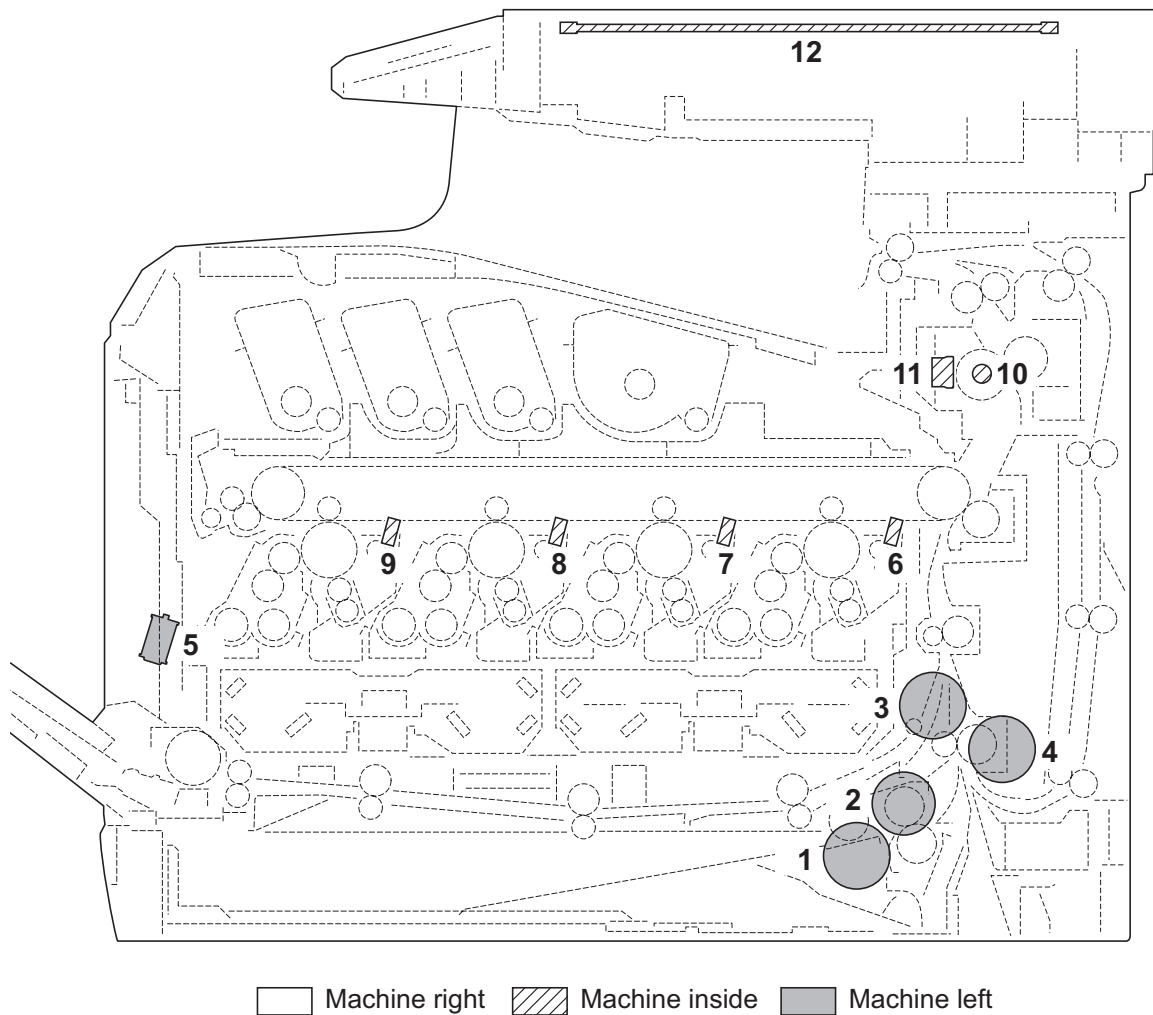
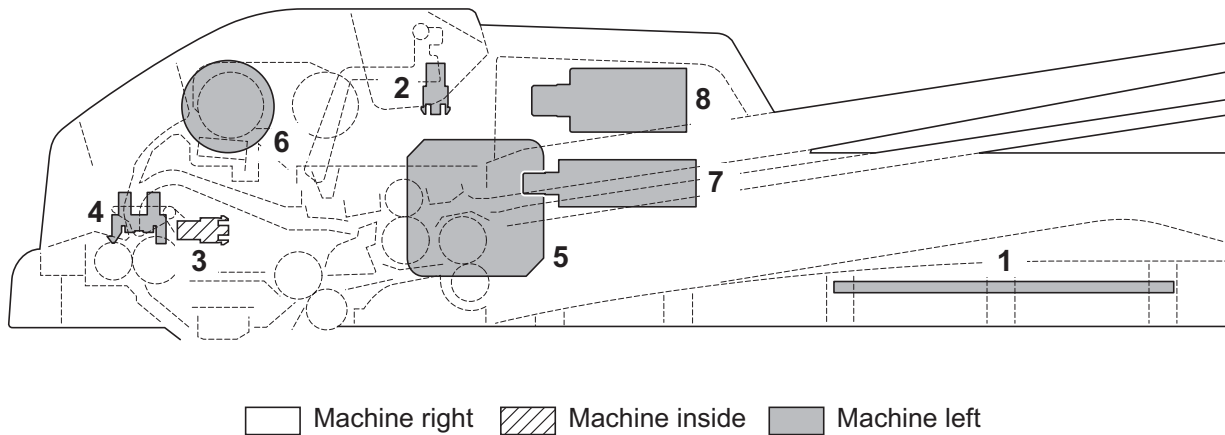


Figure 2-2-4 Others

- | | |
|-----------------------------------|---|
| 1. Paper feed clutch (PFCL) | Primary paper feed from cassette. |
| 2. MP feed clutch (MPFCL)..... | Controls the drive of MP conveying section. |
| 3. Registration clutch (RCL)..... | Controls the secondary paper feed. |
| 4. Middle clutch (MCL)..... | Controls the drive of conveying section. |
| 5. MP solenoid (MPSOL) | Controls the MP bottom plate. |
| 6. Cleaning lamp K (CL-K)..... | Eliminates the residual electrostatic charge on the drum (black). |
| 7. Cleaning lamp M (CL-M)..... | Eliminates the residual electrostatic charge on the drum (magenta). |
| 8. Cleaning lamp C (CL-C)..... | Eliminates the residual electrostatic charge on the drum (cyan). |
| 9. Cleaning lamp Y (CL-Y)..... | Eliminates the residual electrostatic charge on the drum (yellow). |
| 10. Fuser heater (FH) | Heats the heat roller. |
| 11. Fuser thermal cutout..... | Prevents overheating of the heat roller. |
| 12. Exposure lamp (EL) | Exposes originals. |

(5) Document processor**Figure 2-2-5 Document processor**

1. DP drive PWB (DPDPWB)..... Consists the solenoids and clutch driver circuit and wiring relay circuit.
2. DP original sensor (DPOS)..... Detects the presence of an original.
3. DP timing sensor (DPTS)..... Detects the original scanning timing.
4. DP open/close sensor (DPOCS)..... Detects the opening/closing of the DP.
5. DP paper feed motor (DPPFM)..... Drives the original feed section.
6. DP paper feed clutch (DPPFCL)..... Controls the drive of the DP forwarding pulley and DP feed pulley.
7. DP switchback solenoid (DPSBSOL).... Operates the switchback guide.
8. DP pressure solenoid (DPPRSOL)..... Operates the switchback pulley.

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2-3-1 Power source PWB

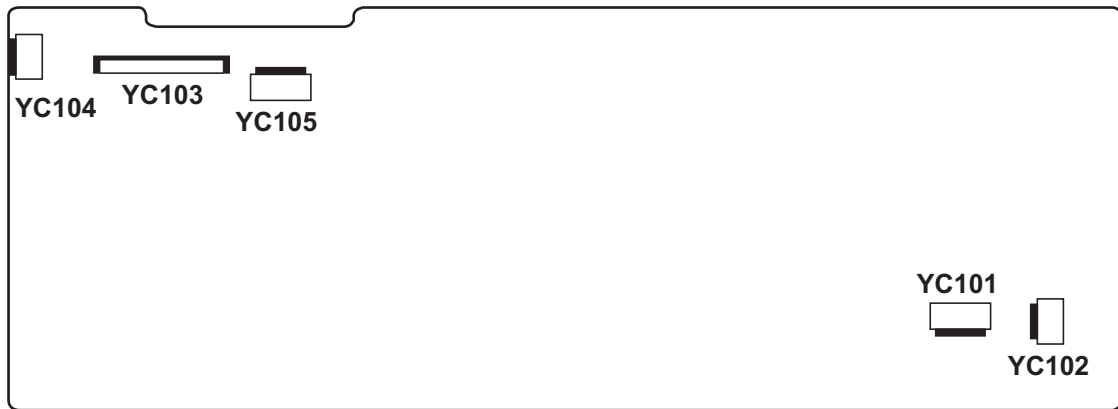


Figure 2-3-1 Power source PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description	
YC101	1	LIVE	I	120 V AC 220-240 V AC	AC power input	
	Connected to AC inlet and main power switch	2	NEUTRAL	I	120 V AC 220-240 V AC	AC power input
YC102	1	NEUTRAL	O	120 V AC/0 V 220-240 V AC/0 V	FH: On/Off	
	Connected to fuser heater	2	LIVE	O	120 V AC 220-240 V AC	AC power to FH
YC103	1	+24V1	O	24 V DC	24 V DC power to RYPWB	
	Connected to relay PWB	2	GND	-	-	Ground
		3	GND	-	-	Ground
		4	GND	-	-	Ground
		5	GND	-	-	Ground
		6	+24V2	O	24 V DC	24 V DC power to RYPWB (via ILSW)
	7	+24V2	O	24 V DC	24 V DC power to RYPWB (via ILSW)	
	8	+24V2	O	24 V DC	24 V DC power to RYPWB (via ILSW)	
	9	+24V2	O	24 V DC	24 V DC power to RYPWB (via ILSW)	
	10	PSSLEEPN	I	0/3.3 V DC	Sleep mode signal: On/Off	
	11	ZCROSS	O	0/3.3 V DC (pulse)	Zero-cross signal	
	12	RELAY	I	0/3.3 V DC	Power relay signal: On/Off	
	13	HEATRE1	I	0/3.3 V DC	FH: On/Off	
YC104	1	+24V1	O	24 V DC	24 V DC power to ILSW	
	Connected to interlock switch	2	N.C	-	-	Not used
		3	+24V2	I	24 V DC	24 V DC power from ILSW
YC105	1	+24V1	O	24 V DC	24 V DC power to MPWB	
	Connected to main PWB	2	GND	-	-	Ground
		3	GND	-	-	Ground
		4	+5V1	O	5 V DC	5 V DC power to MPWB

2-3-2 Engine PWB

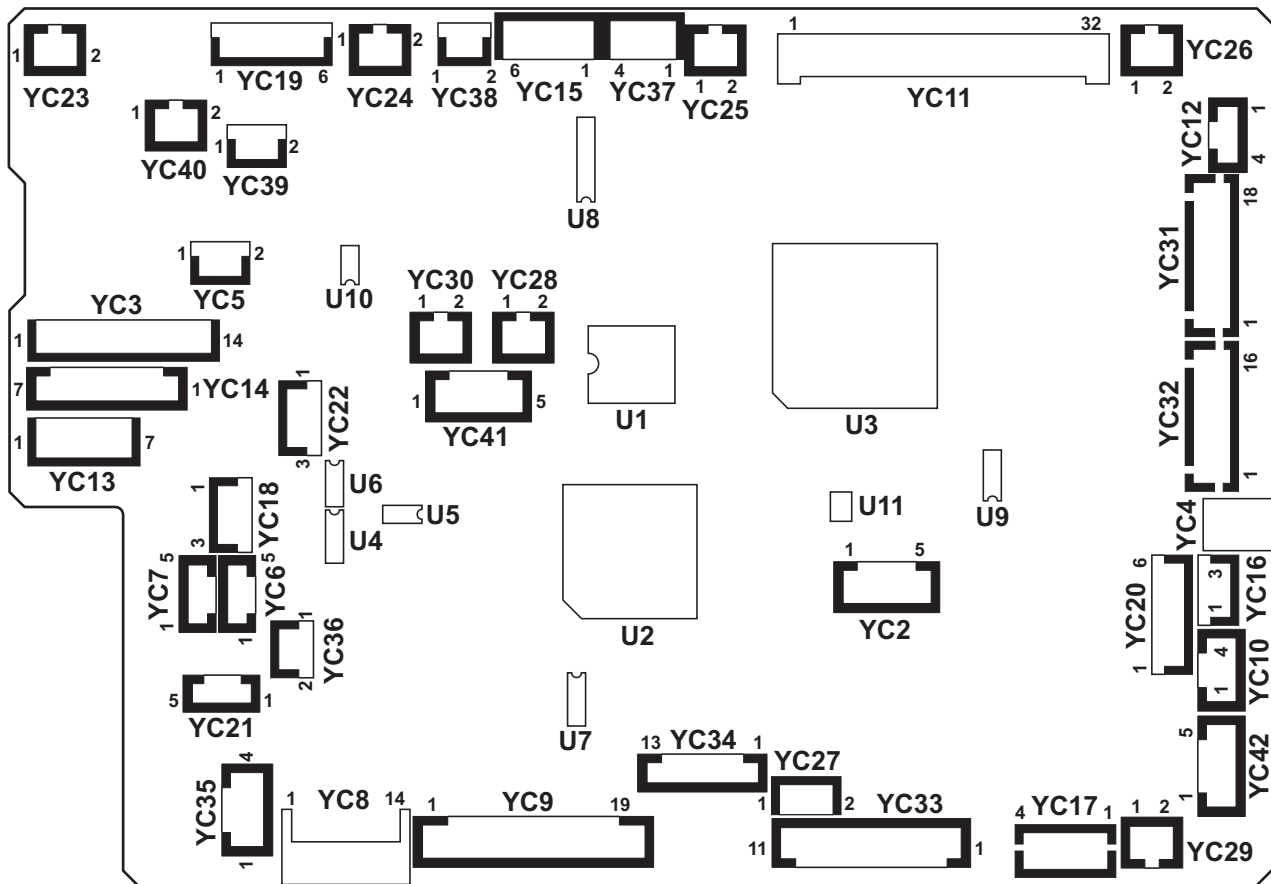


Figure 2-3-2 Engine PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC3	1	MPFCLDRN	O	0/24 V DC	MPFCL: On/Off
Connected to MP feed clutch, paper feed clutch, paper feed motor, middle clutch and registration clutch	2	+24V3	O	24 V DC	24 V DC power to MPFCL
	3	FEDCLDRN	O	0/24 V DC	PFCL: On/Off
	4	+24V3	O	24 V DC	24 V DC power to PFCL
	5	N.C.	-	-	Not used
	6	FEMOTRDYN	I	0/3.3 V DC	PFM ready signal
	7	FEMOTCLK	O	0/3.3 V DC (pulse)	PFM clock signal
	8	FEMOTREN	O	0/3.3 V DC	PFM: On/Off
	9	GND	-	-	Ground
	10	+24V3	O	24 V DC	24 V DC power to PFM
	11	MIDCLDRN	O	0/24 V DC	MCL: On/Off
	12	+24V3	O	24 V DC	24 V DC power to MCL
	13	REGCLDRN	O	0/24 V DC	RCL: On/Off
	14	+24V3	O	24 V DC	24 V DC power to RCL
	YC4	1	+24V3	O	24 V DC
Connected to MP solenoid	2	MPSOLDRN	I	0/24 V DC	MPSOL: On/Off
YC6	1	VOSL	I	Analog	IDS1 detection signal
Connected to ID sensor 1	2	VOPL	I	Analog	IDS1 detection signal
	3	GND	-	-	Ground
	4	LEDREFL	O	Analog	IDS1 control signal
	5	+3.3V2	O	3.3 V DC	3.3 V DC power to IDS1
YC7	1	VOSR	I	Analog	IDS2 detection signal
Connected to ID sensor 2	2	VOPR	I	Analog	IDS2 detection signal
	3	GND	-	-	Ground
	4	LEDREFR	O	Analog	IDS2 control signal
	5	+3.3V2	O	3.3 V DC	3.3 V DC power to IDS2

Connector	Pin	Signal	I/O	Voltage	Description
YC8	1	+24V1	I	24 V DC	24 V DC power from RYPWB
Connected to relay PWB	2	GND	-	-	Ground
	3	GND	-	-	Ground
	4	GND	-	-	Ground
	5	GND	-	-	Ground
	6	+24V3	O	24 V DC	24 V DC power from RYPWB
	7	+24V3	O	24 V DC	24 V DC power from RYPWB
	8	+24V3	O	24 V DC	24 V DC power from RYPWB
	9	+24V3	O	24 V DC	24 V DC power from RYPWB
	10	GND	-	-	Ground
	11	SLEEPN	O	0/3.3 V DC	Sleep mode signal: On/Off
	12	HYPINT	O	0/3.3 V DC	Sleep return signal: On/Off
	13	I2CINT	-	-	Not used
	14	+3.3V2	I	3.3 V DC	3.3 V DC power from RYPWB
	YC9	1	TCOVOPN	O	0/3.3 V DC
Connected to relay PWB	2	EGHOLD	I	0/3.3 V DC	Engine hold signal
	3	ZCROSS	I	0/3.3 V DC (pulse)	Zero-cross signal
	4	RELAY	O	0/3.3 V DC	Power relay signal
	5	HEATRE1	O	0/3.3 V DC	FH: On/Off
	6	(HEATRE2)	-	-	Not used
	7	VSYNC	O	0/3.3 V DC	Vertical synchronizing signal
	8	EGIRN	O	0/3.3 V DC	Engine interruption signal
	9	SBSY	O	0/3.3 V DC	Serial busy signal
	10	SDIR	O	0/3.3 V DC	Serial communication direction change signal
	11	SI	I	0/3.3 V DC (pulse)	Serial communication data signal input
	12	SO	O	0/3.3 V DC (pulse)	Serial communication data signal output
	13	SCKN	I	0/3.3 V DC (pulse)	Serial communication clock signal
	14	N.C.	-	-	Not used
	15	I2CSCL	I	0/3.3 V DC (pulse)	EEPROM clock signal
	16	GND	-	-	Ground
	17	I2CSDA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	18	MPPFJAM	I	0/3.3 V DC	MPPCS: On/Off
	19	+3.3V1_MFP	O	3.3 V DC	3.3 V DC power to RYPWB

Connector	Pin	Signal	I/O	Voltage	Description
YC10 Connected to waste toner sensor	1	LEDA	O	3.3 V DC	3.3 V DC power to WTS
	2	LEDK	O	0/3.3 V DC (pulse)	WTS LED emitter signal
	3	PTRE	I	Analog	WTS detection signal
	4	PTRC	O	3.3 V DC	3.3 V DC power to WTS
YC11 Connected to high voltage PWB	1	+24V3	O	24 V DC	24 V DC power to HVPWB
	2	+24V3	O	24 V DC	24 V DC power to HVPWB
	3	T1CCNT	O	PWM	Primary transfer bias control voltage (Cyan)
	4	HVCLKY	O	0/3.3 V DC (pulse)	Developing bias clock signal (Yellow)
	5	T1MCNT	O	PWM	Primary transfer bias control voltage (Magenta)
	6	HVCLKC	O	0/3.3 V DC (pulse)	Developing bias clock signal (Cyan)
	7	T2CNT	O	PWM	Secondary transfer bias control voltage
	8	BCMCNT	O	PWM	Developing magnet roller bias control voltage (Cyan)
	9	CLCNT	O	PWM	Cleaning bias control voltage
	10	BKMCNT	O	PWM	Developing magnet roller bias control voltage (Black)
	11	T1YCNT	O	PWM	Primary transfer bias control voltage (Yellow)
	12	BKSCNT	O	PWM	Developing sleeve roller bias control voltage (Black)
	13	T1KCNT	O	PWM	Primary transfer bias control voltage (Black)
	14	BYSCNT	O	PWM	Developing sleeve roller bias control voltage (Yellow)
	15	MYCNT	O	PWM	Charger roller control voltage (Yellow)
	16	BMMCNT	O	PWM	Developing magnet roller bias control voltage (Magenta)
	17	MKCNT	O	PWM	Charger roller control voltage (Black)
	18	BYMCNT	O	PWM	Developing magnet roller bias control voltage (Yellow)
	19	MCCNT	O	PWM	Charger roller control voltage (Cyan)
	20	T2RREM	O	0/3.3 V DC (pulse)	Secondary transfer bias reverse signal
	21	MMCNT	O	PWM	Charger roller control voltage (Magenta)
	22	BMSCNT	O	PWM	Developing sleeve roller bias control voltage (Magenta)
	23	MISENS	I	Analog	Charger roller AC current signal
	24	BKACNT	O	PWM	Developing AC bias control voltage (Black)

Connector	Pin	Signal	I/O	Voltage	Description
YC11 Connected to high voltage PWB	25	BCACNT	O	PWM	Developing AC bias control voltage (Cyan)
	26	BMACNT	O	PWM	Developing AC bias control voltage (Magenta)
	27	BYACNT	O	PWM	Developing AC bias control voltage (Yellow)
	28	HVCLKK	O	0/3.3 V DC (pulse)	Developing bias clock signal (Black)
	29	BCSCNT	O	PWM	Developing sleeve roller bias control voltage (Cyan)
	30	HVCLKM	O	0/3.3 V DC (pulse)	Developing bias clock signal (Magenta)
	31	GND	-	-	Ground
	32	GND	-	-	Ground
YC13 Connected to drum motor	1	MOTREV (GND)	-	-	Ground
	2	MOTRDYN	I	0/3.3 V DC	DRM ready signal
	3	SPEEDSEL	O	0/3.3 V DC	DRM speed selection signal
	4	MOTCLK	O	0/3.3 V DC (pulse)	DRM clock signal
	5	MOTEN	O	0/3.3 V DC	DRM: On/Off
	6	GND	-	-	Ground
	7	+24V3	O	24 V DC	24 V DC power to DRM
YC14 Connected to developing motor	1	+24V3	O	24 V DC	24 V DC power to DEVM
	2	GND	-	-	Ground
	3	DLPMOTREN	O	0/3.3 V DC	DEVM: On/Off
	4	DLPMOTCLK	O	0/3.3 V DC (pulse)	DEVM clock signal
	5	DLPMOT RDYN	I	0/3.3 V DC	DEVM ready signal
	6	MOTREV	O	0/3.3 V DC	DEVM drive switch signal
YC15 Connected to fuser motor	1	IMAMOT RDYN	I	0/3.3 V DC	FUM ready signal
	2	IMAMOTCLK	O	0/3.3 V DC (pulse)	FUM clock signal
	3	IMAMOTREN	O	0/3.3 V DC	FUM: On/Off
	4	GND	-	-	Ground
	5	+24V3	O	24 V DC	24 V DC power to FUM
YC16 Connected to MP paper sensor	1	+3.3V2_LED1	O	3.3 V DC	3.3 V DC power to MPPS
	2	GND	-	-	Ground
	3	MPFPAP	I	0/3.3 V DC	MPPS: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC17 Connected to cassette size switch	1	CAS2	I	0/3.3 V DC	CSSW (SW2): On/Off
	2	CAS1	I	0/3.3 V DC	CSSW (SW1): On/Off
	3	COM	-	-	Ground
	4	CAS0	I	0/3.3 V DC	CSSW (SW0): On/Off
YC18 Connected to registration sensor	1	+3.3V2_LED2	O	3.3 V DC	3.3 V DC power to RS
	2	GND	-	-	Ground
	3	REGPAP	I	0/3.3 V DC	RS: On/Off
YC19 Connected to eject PWB	1	PDIRN	I	0/3.3 V DC	EVSW: On/Off
	2	+3.3V2	O	3.3 V DC	3.3 V DC power to EJPWB
	3	F THERM	I	Analog	FTH detection voltage
	4	FUSPAP	I	0/3.3 V DC	ES: On/Off
	5	NC	-	-	Not used
	6	GND	-	-	Ground
YC20 Connected to toner con- tainer sensor and waste toner cover sensor	1	+3.3V2_LED3	O	3.3 V DC	3.3 V DC power to TCS
	2	GND	-	-	Ground
	3	TCONTN	I	0/3.3 V DC	TCS: On/Off
	4	+3.3V2_LED7	O	3.3 V DC	3.3 V DC power to WTCS
	5	GND	-	-	Ground
	6	WSTOPN	I	0/3.3 V DC	WTCS: On/Off
YC21 Connected to cassette PWB	1	GND	-	-	Ground
	2	PAPVOL2	-	-	Not used
	3	PAPVOL1	I	0/3.3 V DC	PS: On/Off
	4	LIFTSEN	I	0/3.3 V DC	LS: On/Off
	5	+3.3V2	O	3.3 V DC	3.3 V DC power to CPWB
YC23 Connected to toner motor K	1	+24V3	O	24 V DC	24 V DC power to TM-K
	2	TNMKDRN	O	0/24 V DC	TM-K: On/Off
YC24 Connected to toner motor M	1	+24V3	O	24 V DC	24 V DC power to TM-M
	2	TNMMDRN	O	0/24 V DC	TM-M: On/Off
YC25 Connected to toner motor C	1	+24V3	O	24 V DC	24 V DC power to TM-C
	2	TNMCDRN	O	0/24 V DC	TM-C: On/Off
YC26 Connected to toner motor Y	1	+24V3	O	24 V DC	24 V DC power to TM-Y
	2	TNMYDRN	O	0/24 V DC	TM-Y: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC27 Connected to lift motor	1	LMOTDRN	O	0/24 V DC	LM: On/Off
	2	GND	-	-	Ground
YC28 Connected to container fan motor	1	+24V1	O	24 V DC	24 V DC power to CFM
	2	TCONFAN DRN	O	0/12/24 V DC	CFM: Full speed/Half speed/Off
YC29 Connected to left fan motor	1	+24V1	O	24 V DC	24 V DC power to LFM
	2	LFANDRN	O	0/12/24 V DC	LFM: Full speed/Half speed/Off
YC30 Connected to top tray switch	1	TOPOPON	O	0/3.3 V DC	TTSW: On/Off
	2	GND	-	-	Ground
YC31 Connected to laser scanner unit KM	1	GND	-	-	Ground
	2	VREFK	O	Analog	APCPWB-K laser power standard voltage
	3	LONBKN	O	0/3.3 V DC	APCPWB-K sample/hold signal
	4	ENBKN	O	0/3.3 V DC	APCPWB-K laser enable signal
	5	PDKN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	6	GND	-	-	Ground
	7	VREFM	O	Analog	APCPWB-M laser power standard voltage
	8	LONBMN	O	0/3.3 V DC	APCPWB-M sample/hold signal
	9	ENBMN	O	0/3.3 V DC	APCPWB-M laser enable signal
	10	PDMN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	11	LSUTHERMM	I	Analog	ITEMS detection voltage
	12	POLCLK1	O	0/3.3 V DC (pulse)	PM-KM clock signal
	13	POLRDYN1	I	0/3.3 V DC	PM-KM ready signal
	14	POLONN1	O	0/3.3 V DC	PM-KM: On/Off
	15	GND	-	-	Ground
	16	+24V3	O	24 V DC	24 V DC power to PM-KM
	17	N.C.	-	-	Not used
	18	N.C.	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
YC32	1	GND	-	-	Ground
Connected to laser scanner unit CY	2	VREFC	O	Analog	APCPWB-C laser power standard voltage
	3	LONBCN	O	0/3.3 V DC	APCPWB-C sample/hold signal
	4	ENBCN	O	0/3.3 V DC	APCPWB-C laser enable signal
	5	PDCN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	6	GND	-	-	Ground
	7	VREFY	O	Analog	APCPWB-Y laser power standard voltage
	8	LONBYN	O	0/3.3 V DC	APCPWB-Y sample/hold signal
	9	ENBYN	O	0/3.3 V DC	APCPWB-Y laser enable signal
	10	PDYN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	11	LSUTHERMY	-	-	Not used
	12	POLCLK0	O	0/3.3 V DC (pulse)	PM-CY clock signal
	13	POLRDYN0	I	0/3.3 V DC	PM-CY ready signal
	14	POLONN0	O	0/3.3 V DC	PM-CY: On/Off
	15	GND	-	-	Ground
	16	+24V3	O	24 V DC	24 V DC power to PM-CY
YC33	1	GND	-	-	Ground
Connected to paper feeder	2	OPCLK	O	0/3.3 V DC (pulse)	Paper feeder clock signal
	3	OPRDYN	I	0/3.3 V DC	Paper feeder ready signal
	4	OPSDI	I	0/3.3 V DC (pulse)	Paper feeder serial communication data signal input
	5	OPSDO	O	0/3.3 V DC (pulse)	Paper feeder serial communication data signal output
	6	+3.3V1	O	3.3 V DC	3.3 V DC power to paper feeder
	7	GND	-	-	Ground
	8	OPSEL0	O	0/3.3 V DC	Paper feeder selection signal
	9	OPSEL1	O	0/3.3 V DC	Paper feeder selection signal
	10	OPSEL2	O	0/3.3 V DC	Paper feeder selection signal
	11	+24V3	O	24 V DC	24 V DC power to paper feeder

Connector	Pin	Signal	I/O	Voltage	Description
YC34 Connected to drum relay PWB	1	TNSENK	I	Analog	TS-M detection voltage
	2	ERASECDR	O	0/24 V DC	CL-C: On/Off
	3	TNSENK	I	Analog	TS-K detection voltage
	4	ERASEMDR	O	0/24 V DC	CL-M: On/Off
	5	DLPTHERM	I	Analog	DEVTH detection voltage
	6	ERASEKDR	O	0/24 V DC	CL-K: On/Off
	7	+3.3V2	O	3.3 V DC	3.3 V DC power to DRRPWB
	8	EECLK	O	0/3.3 V DC (pulse)	EEPROM clock signal
	9	GND	-	-	Ground
	10	EEDATA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	11	TNSENK	I	Analog	TS-Y detection voltage
	12	ERASEYDR	O	0/24 V DC	CL-Y: On/Off
	13	TNSENK	I	Analog	TS-C detection voltage
YC35 Connected to developing release switch and developing release motor	1	DLPDIRN	I	0/3.3 V DC	DEVRSW: On/Off
	2	GND	-	-	Ground
	3	DLPCMOTA	O	24/0 V DC	DEVRM: Forward/Stop (Reverse)
	4	DLPCMOTB	O	24/0 V DC	DEVRM: Reverse/Stop (Forward)
YC36 Connected to LSU cleaning motor	1	LSUMOTA	O	24/0 V DC	LSUCM: Forward/Stop (Reverse)
	2	LSUMOTB	O	24/0 V DC	LSUCM: Reverse/Stop (Forward)
YC37 Connected to duplex motor	1	STDUBN	O	0/24 V DC (pulse)	DUM drive control signal
	2	STDUAN	O	0/24 V DC (pulse)	DUM drive control signal
	3	STDUB	O	0/24 V DC (pulse)	DUM drive control signal
	4	STDUA	O	0/24 V DC (pulse)	DUM drive control signal
YC38 Connected to fuser pressure release motor	1	PREMOTDRN	O	0/24 V DC	FPRM: On/Off
	2	GND	-	-	Ground
YC40 Connected to fuser fan motor	1	+24V1	O	24 V DC	24 V DC power to FUFM
	2	FUFANDRN	O	0/12/24 V DC	FUFM: Full speed/Half speed/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC42	1	GND	-	-	Ground
Connected to outer temper- ature sensor	2	AIRTEMP	I	Analog	OITEMS detection voltage (temperature)
	3	WETCLK0	O	0/3.3 V DC (pulse)	OITEMS clock signal
	4	WETCLK1	O	0/3.3 V DC (pulse)	OITEMS clock signal
	5	AIRWETOUT	I	Analog	OITEMS detection voltage (humidity)

2-3-3 Main PWB

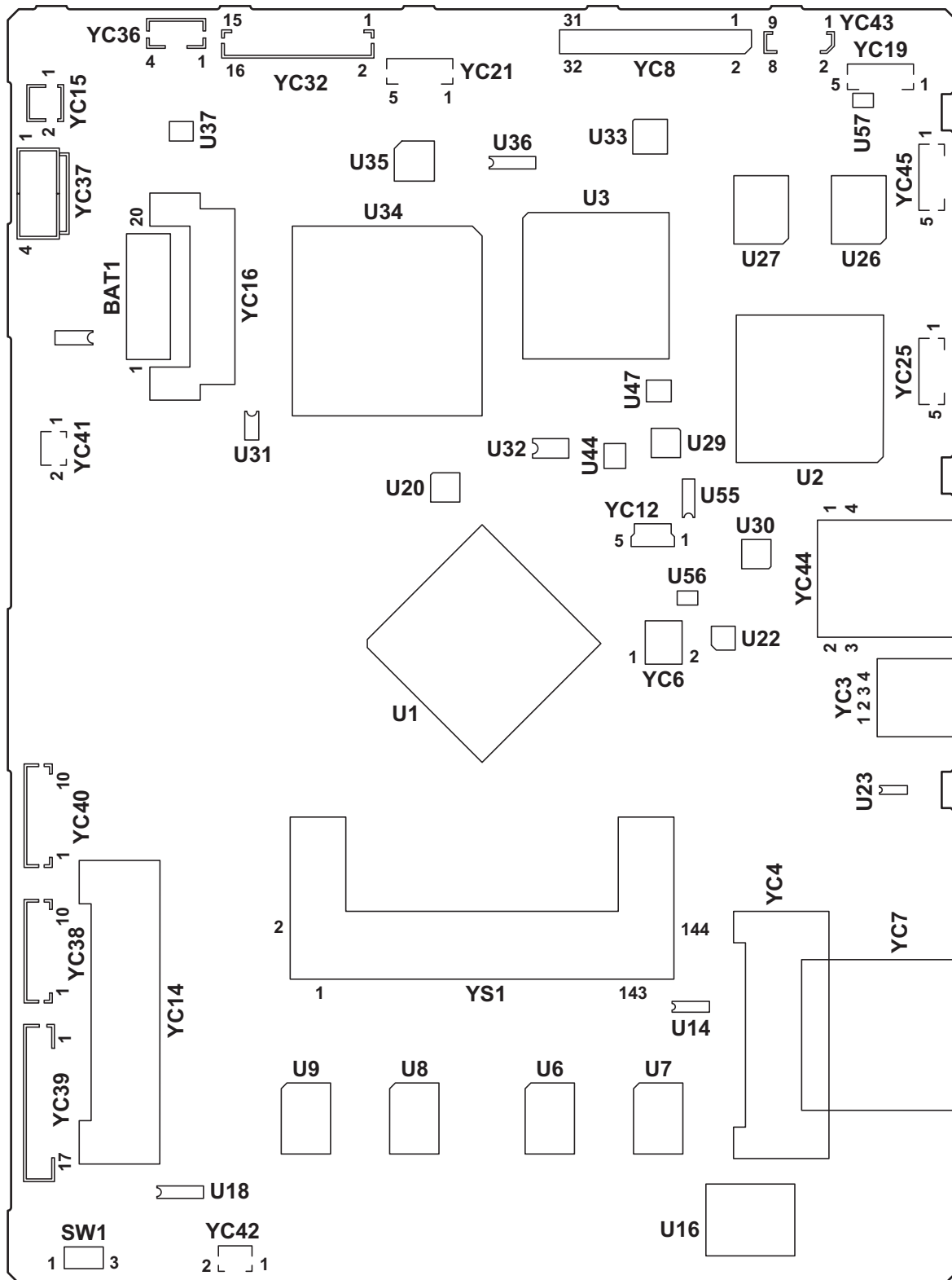


Figure 2-3-3 Main PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC3 Connected to USB	1	VBUS	O	5 V DC	5 V DC power output
	2	DATA-	I/O	-	USB data signal
	3	DATA+	I/O	-	USB data signal
	4	GND	-	-	Ground
YC8 Connected to CCD PWB	1	CCDSW	O	0/3.3 V DC	CCD color/BW change signal
	2	CCDSH	O	0/3.3 V DC	CCD shift gate signal
	3	CCDCLPN	O	LVDS	CCD clamp signal
	4	CCDCLPP	O	LVDS	CCD clamp signal
	5	NC	-	-	Not used
	6	CCDRSP	O	LVDS	CCD reset signal
	7	CCDRSN	O	LVDS	CCD reset signal
	8	NC	-	-	Not used
	9	CCDPH1N	O	LVDS	CCD shift register clock signal
	10	CCDPH1P	O	LVDS	CCD shift register clock signal
	11	NC	-	-	Not used
	12	CCDPH2P	O	LVDS	CCD shift register clock signal
	13	CCDPH2N	O	LVDS	CCD shift register clock signal
	14	NC	-	-	Not used
	15	+3.3VS	O	3.3 V DC	3.3 V DC power to CCDPWB
	16	HPSWN	I	0/3.3 V DC	HPS: On/Off
	17	NC	-	-	Not used
	18	+24V_LAMP	O	24 V DC	24 V DC power to CCDPWB
	19	LAMPTH	O	0/3.3 V DC	EL drive signal
	20	GND_LAMP	-	-	Ground
	21	NC	-	-	Not used
	22	GND	-	-	Ground
	23	CCDDATAB	I	Analog	CCD image output signal (B)
	24	GND	-	-	Ground
	25	CCDDATAG	I	Analog	CCD image output signal (G)
	26	GND	-	-	Ground
	27	CCDDATAR	I	Analog	CCD image output signal (R)
	28	GND	-	-	Ground
	29	NC	-	-	Not used
	30	+5V1	O	5 V DC	5 V DC power to CCDPWB
	31	NC	-	-	Not used
	32	+12VS	O	DC12V	12 V DC power to CCDPWB

Connector	Pin	Signal	I/O	Voltage	Description
YC12	1	VBUS	O	5 V DC	5 V DC power output
Connected to USB	2	DATA-	I/O	-	USB data signal
	3	DATA+	I/O	-	USB data signal
	4	GND	-	-	Ground
	5	GND	-	-	Ground
YC14	A1	NC	-	-	Not used
Connected to KUIO slot	B1	NC	-	-	Not used
	A2	NC	-	-	Not used
	B2	NC	-	-	Not used
	A3	GND	-	-	Ground
	B3	3.3V	O	3.3 V DC	3.3 V DC power output
	A4	3.3V	O	3.3 V DC	3.3 V DC power output
	B4	A15	O	0/3.3 V DC (pulse)	Address bus signal
	A5	GND	-	-	Ground
	B5	A14	O	0/3.3 V DC (pulse)	Address bus signal
	A6	A13	O	0/3.3 V DC (pulse)	Address bus signal
	B6	A12	O	0/3.3 V DC (pulse)	Address bus signal
	A7	A11	O	0/3.3 V DC (pulse)	Address bus signal
	B7	A10	O	0/3.3 V DC (pulse)	Address bus signal
	A8	A9	O	0/3.3 V DC (pulse)	Address bus signal
	B8	A8	O	0/3.3 V DC (pulse)	Address bus signal
	A9	GND	-	-	Ground
B9	A7	O	0/3.3 V DC (pulse)	Address bus signal	
A10	A6	O	0/3.3 V DC (pulse)	Address bus signal	
B10	A5	O	0/3.3 V DC (pulse)	Address bus signal	
A11	A4	O	0/3.3 V DC (pulse)	Address bus signal	
B11	A3	O	0/3.3 V DC (pulse)	Address bus signal	
A12	A2	O	0/3.3 V DC (pulse)	Address bus signal	
B12	A1	O	0/3.3 V DC (pulse)	Address bus signal	
A13	GND	-	-	Ground	
B13	3.3V	O	3.3 V DC	3.3 V DC power output	
A14	OP2IFN	O	0/3.3 V DC	Select signal	
B14	OP2ACKN	I	0/3.3 V DC (pulse)	OP2ACKN signal	
A15	OP2IRN	I	0/3.3 V DC	Interruption signal	
B15	5V	O	5 V DC	5 V DC power output	
A16	RDY	O	0/3.3 V DC	Ready signal	

Connector	Pin	Signal	I/O	Voltage	Description	
YC14	B16	RXDREQ	I	0/3.3 V DC	Reception DMA request signal	
Connected to KUJO slot	A17	GND	-	-	Ground	
	B17	RXDMACKN	O	0/3.3 V DC (pulse)	Reception DMACK signal	
	A18	IORN	O	0/3.3 V DC	Read enable signal	
	B18	IOWN	O	0/3.3 V DC	Write enable signal	
	A19	RESETN	O	0/3.3 V DC	Reset signal	
	B19	VOLTDETECT	-	-	Ground	
	A20	D15	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B20	D14	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A21	GND	-	-	Ground	
	B21	D13	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A22	D12	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B22	D11	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A23	D10	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B23	D9	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A24	D8	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B24	D7	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A25	GND	-	-	Ground	
	B25	D6	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A26	D5	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B26	D4	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A27	D3	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B27	D2	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A28	D1	I/O	0/3.3 V DC (pulse)	Data bus signal	
	B28	D0	I/O	0/3.3 V DC (pulse)	Data bus signal	
	A29	GND	-	-	Ground	
	B29	NC	-	-	Not used	
	A30	NC	-	-	Not used	
	B30	NC	-	-	Not used	
	YC15	1	OUT-	O	Analog	Speaker sound signal (-)
	Connected to speaker	2	OUT+	O	Analog	Speaker sound signal (+)

Connector	Pin	Signal	I/O	Voltage	Description
YC32	1	FEEDCL	O	0/24 V DC	DPPFCL: On/Off
Connected to DP drive PWB	2	REVSOL	O	0/24 V DC	DPSBSOL: On/Off
	3	PRESOLN	O	0/24 V DC	DPPRSOL: On (Press)/Off
	4	RELSOLN	O	0/24 V DC	DPPRSOL: On (Release)/Off
	5	DPDETN	I	0/3.3 V DC	DP set signal
	6	OPSWN	I	0/3.3 V DC	DPOCS: On/Off
	7	ORGSWN	I	0/3.3 V DC	DPOS: On/Off
	8	TIMSWN	I	0/3.3 V DC	DPTS: On/Off
	9	GND	-	-	Ground
	10	+3.3V2	O	3.3 V DC	3.3 V DC power to DPDPWB
	11	GND	-	-	Ground
	12	+24V2	O	24 V DC	24 V DC power to PDPWB
	13	MOTB2	O	0/24 V DC (pulse)	DPPFM drive control signal
	14	MOTA2	O	0/24 V DC (pulse)	DPPFM drive control signal
	15	MOTB1	O	0/24 V DC (pulse)	DPPFM drive control signal
	16	MOTA1	O	0/24 V DC (pulse)	DPPFM drive control signal
YC36	1	SCMOTB2	O	0/24 V DC (pulse)	ISUM drive control signal
Connected to ISU motor	2	SCMOTA1	O	0/24 V DC (pulse)	ISUM drive control signal
	3	SCMOTB1	O	0/24 V DC (pulse)	ISUM drive control signal
	4	SCMOTA2	O	0/24 V DC (pulse)	ISUM drive control signal
YC37	1	+24V1	I	24 V DC	24 V DC power from PSPWB
Connected to power source PWB	2	GND	-	-	Ground
	3	GND	-	-	Ground
	4	+5V1	I	5 V DC	5 V DC power from PSPWB
YC38	1	GND	-	-	Ground
Connected to laser scanner unit KM	2	+3.3V3	O	3.3 V DC	3.3 V DC power to APCPWB-M
	3	PDMN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	4	VDOMP	O	LVDS	APCPWB-M video data signal (+)
	5	VDOMN	O	LVDS	APCPWB-M video data signal (-)
	6	GND	-	-	Ground
	7	+3.3V3	O	3.3 V DC	3.3 V DC power to APCPWB-K
	8	PDKN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	9	VDOKP	O	LVDS	APCPWB-K video data signal (+)
	10	VDOKN	O	LVDS	APCPWB-K video data signal (-)

Connector	Pin	Signal	I/O	Voltage	Description
YC39	1	+3.3V1_MFP	O	3.3 V DC	3.3 V DC power to RYPWB
Connected to relay PWB	2	I2CSDA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	3	GND	-	-	Ground
	4	I2CSCL	O	0/3.3 V DC (pulse)	EEPROM clock signal
	5	SCKN	O	0/3.3 V DC (pulse)	Serial communication clock signal
	6	SO	I	0/3.3 V DC (pulse)	Serial communication data signal input
	7	SI	O	0/3.3 V DC (pulse)	Serial communication data signal output
	8	SDIR	I	0/3.3 V DC	Serial communication direction change signal
	9	SBSY	I	0/3.3 V DC	Serial busy signal
	10	EGIRN	I	0/3.3 V DC	Engine interruption signal
	11	VSYNC	I	0/3.3 V DC (pulse)	Vertical synchronizing signal
	12	+3.3V2	O	3.3 V DC	3.3 V DC power to RYPWB
	13	GND	-	-	Ground
	14	EGHOLD	O	0/3.3 V DC	Engine hold signal
	15	I2CINT	-	-	Not used
	16	HYPINT	I	0/3.3 V DC	Sleep return signal: On/Off
	17	PSSLEEPN	O	0/3.3 V DC	Sleep mode signal: On/Off
YC40	1	GND	-	-	Ground
Connected to laser scanner unit CY	2	+3.3V3	O	3.3 V DC	3.3 V DC power to APCPWB-Y
	3	PDYN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	4	VDOYP	O	LVDS	APCPWB-Y video data signal (+)
	5	VDOYN	O	LVDS	APCPWB-Y video data signal (-)
	6	GND	-	-	Ground
	7	+3.3V3	O	3.3 V DC	3.3 V DC power to APCPWB-C
	8	PDCN	I	0/3.3 V DC (pulse)	Horizontal synchronizing signal
	9	VDOCP	O	LVDS	APCPWB-C video data signal (+)
	10	VDOCN	O	LVDS	APCPWB-C video data signal (-)
	YC41	1	+24V1	O	24 V DC
Connected to controller fan motor	2	CONTFAN DRN	O	0/12/24 V DC	CONFM: Full speed/Half speed/Off
YC42	1	+24V1	O	24 V DC	24 V DC power to RFM
Connected to right fan motor	2	RFANDRN	O	0/12/24 V DC	RFM: Full speed/Half speed/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC43	1	+5V1	-	5 V DC	5 V DC power to OPPWB
Connected to operation panel PWB	2	POWERKEY	I	0/3.3 V DC	Power key input signal
	3	FPRSTN	O	0/3.3 V DC	OPPWB reset signal
	4	PANTXD	O	0/3.3 V DC (pulse)	OPPWB transmission data
	5	PANRXD	I	0/3.3 V DC (pulse)	OPPWB received data
	6	+3.3V	O	3.3 V DC	3.3 V DC power to OPPWB
	7	PANEL_MODE1	O	0/3.3 V DC	OPPWB mode signal
	8	GND	-	-	Ground
	9	PANEL_MODE0	O	0/3.3 V DC	OPPWB mode signal
YC44	1	TCT	O	3.3 V DC	3.3 V DC power output
Connected to ethernet	2	TD+	O	0/3.3 V DC (pulse)	Transmission data
	3	TD-	O	0/3.3 V DC (pulse)	Transmission data
	4	RD+	I	0/3.3 V DC (pulse)	Received data
	5	RD-	I	0/3.3 V DC (pulse)	Received data
	6	RCT	O	3.3 V DC	3.3 V DC power output
	7	CAT PHY	O	0/3.3 V DC	Control signal
	8	ANO PHY	O	3.3 V DC	3.3 V DC power output
	9	CAT MAC	-	-	Ground
	10	ANO MAC	O	0/3.3 V DC	Control signal

2-3-4 Drum relay PWB

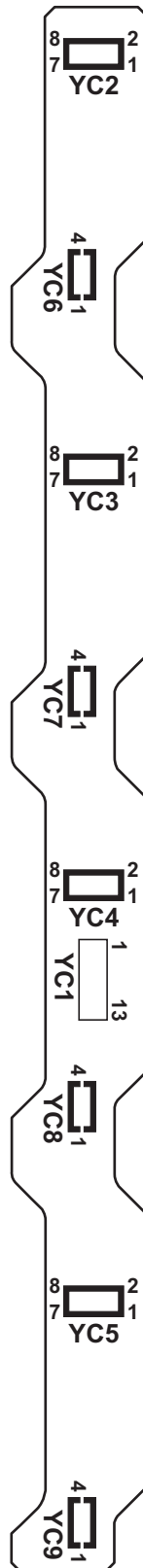


Figure 2-3-4 Drum relay PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC1 Connected to engine PWB	1	TNSENK	O	Analog	TS-M detection voltage
	2	ERASECDR	I	0/24 V DC	CL-C: On/Off
	3	TNSENK	O	Analog	TS-K detection voltage
	4	ERASEMDR	I	0/24 V DC	CL-M: On/Off
	5	DLP THERM	O	Analog	DEVTH detection voltage
	6	ERASEKDR	I	0/24 V DC	CL-K: On/Off
	7	+3.3V2	I	3.3 V DC	3.3 V DC power from EPWB
	8	EECLK	I	0/3.3 V DC (pulse)	EEPROM clock signal
	9	GND	-	-	Ground
	10	EEDATA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	11	TNSENK	O	Analog	TS-Y detection voltage
	12	ERASEYDR	I	0/24 V DC	CL-Y: On/Off
	13	TNSENK	O	Analog	TS-C detection voltage
YC2 Connected to drum PWB K	1	GND	-	-	Ground
	2	EECLK	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	ERASEKDR	O	0/24 V DC	CL-K: On/Off
	4	EEDATA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	5	N.C.	-	-	Not used
	6	+3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-K
	7	DA0	-	-	Not used
	8	DA1	-	-	Not used
YC3 Connected to drum PWB M	1	GND	-	-	Ground
	2	EECLK	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	ERASEMDR	O	0/24 V DC	CL-M: On/Off
	4	EEDATA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	5	N.C.	-	-	Not used
	6	+3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-M
	7	DA0	-	-	Ground
	8	DA1	-	-	Not used
YC4 Connected to drum PWB C	1	GND	-	-	Ground
	2	EECLK	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	ERASECDR	O	0/24 V DC	CL-C: On/Off
	4	EEDATA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	5	N.C.	-	-	Not used
	6	+3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-C
	7	DA0	-	-	Not used
	8	DA1	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
YC5 Connected to drum PWB Y	1	GND	-	-	Ground
	2	EECLK	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	ERASEYDR	O	0/24 V DC	CL-Y: On/Off
	4	EEDATA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	5	N.C.	-	-	Not used
	6	+3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-Y
	7	DA0	-	-	Ground
	8	DA1	-	-	Ground
YC6 Connected to developing PWB K	1	GND	-	-	Ground
	2	TNSENK	I	Analog	TS-K detection voltage
	3	+3.3V2	O	3.3 V DC	3.3 V DC power to DEVPWB-K
	4	DLPTHERM	I	Analog	DEVTH detection voltage
YC7 Connected to developing PWB M	1	GND	-	-	Ground
	2	TNSEN M	I	Analog	TS-M detection voltage
	3	+3.3V2	O	3.3 V DC	3.3 V DC power to DEVPWB-M
	4	N.C.	-	-	Not used
YC10 Connected to developing PWB C	1	GND	-	-	Ground
	2	TNSEN C	I	Analog	TS-C detection voltage
	3	+3.3V2	O	3.3 V DC	3.3 V DC power to DEVPWB-C
	4	N.C.	-	-	Not used
YC13 Connected to developing PWB Y	1	GND	-	-	Ground
	2	TNSEN Y	I	Analog	TS-Y detection voltage
	3	+3.3V2	O	3.3 V DC	3.3 V DC power to DEVPWB-Y
	4	N.C.	-	-	Not used

2-3-5 DP drive PWB

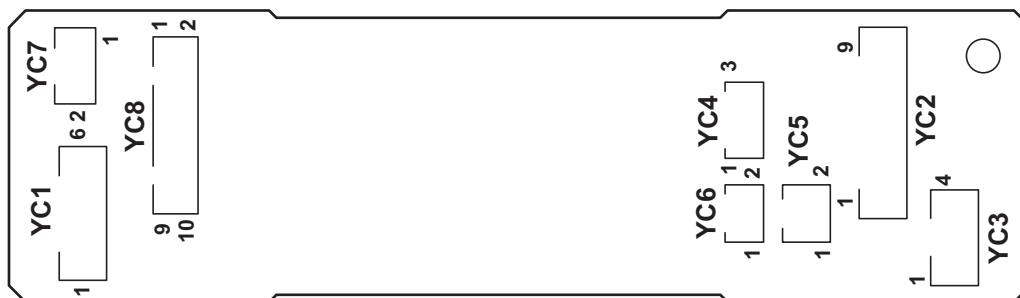


Figure 2-3-5 DP drive PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC1 Connected to main PWB	1	MOTA1	I	0/24 V DC (pulse)	DPPFM drive control signal
	2	MOTB1	I	0/24 V DC (pulse)	DPPFM drive control signal
	3	MOTA2	I	0/24 V DC (pulse)	DPPFM drive control signal
	4	MOTB2	I	0/24 V DC (pulse)	DPPFM drive control signal
	5	+24V2	I	24 V DC	24 V DC power from MPWB
	6	GND	-	-	Ground
YC2 Connected to DP open/close sensor, DP original sensor and DP timing sensor	1	+3.3V2	O	3.3 V DC	3.3 V DC power to DPOCS
	2	GND	-	-	Ground
	3	OPSWN	I	0/3.3 V DC	DPOCS: On/Off
	4	+3.3V2	O	3.3 V DC	3.3 V DC power to DPOS
	5	GND	-	-	Ground
	6	ORGSWN	I	0/3.3 V DC	DPOS: On/Off
	7	+3.3V2	O	3.3 V DC	3.3 V DC power to DPTS
	8	GND	-	-	Ground
	9	TIMSWN	I	0/3.3 V DC	DPTS: On/Off
YC3 Connected to DP paper feed motor	1	DPMOT1A	O	0/24 V DC (pulse)	DPPFM drive control signal
	2	DPMOT2A	O	0/24 V DC (pulse)	DPPFM drive control signal
	3	DPMOT1B	O	0/24 V DC (pulse)	DPPFM drive control signal
	4	DPMOT2B	O	0/24 V DC (pulse)	DPPFM drive control signal
YC4 Connected to DP pressure solenoid	1	+24V2	O	24 V DC	24 V DC power to DPPRSOL
	2	PRESOLN	O	0/24 V DC	DPPRSOL: On (Press)/Off
	3	RELSOLN	O	0/24 V DC	DPPRSOL: On (Release)/Off
YC5 Connected to DP switch-back solenoid	1	+24V2	O	24 V DC	24 V DC power to DPSBSOL
	2	REVSOL	O	0/24 V DC	DPSBSOL: On/Off
YC6 Connected to DP paper feed clutch	1	+24V2	O	24 V DC	24 V DC power to DPPFCL
	2	FEEDCL	O	0/24 V DC	DPPFCL: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC8	1	+3.3V2	I	3.3 V DC	3.3 V DC power from MPWB
Connected to main PWB	2	GND	-	-	Ground
	3	TIMSWN	O	0/3.3 V DC	DPTS: On/Off
	4	ORGSWN	O	0/3.3 V DC	DPOS: On/Off
	5	OPSWN	O	0/3.3 V DC	DPOCS: On/Off
	6	DPDETN	O	0/3.3 V DC	DP set signal
	7	RELSOLN	I	0/24 V DC	DPPRSOL: On (Release)/Off
	8	PRESOLN	I	0/24 V DC	DPPRSOL: On (Press)/Off
	9	REVSOL	I	0/24 V DC	DPSBSOL: On/Off
	10	FEEDCL	I	0/24 V DC	DPPFCL: On/Off

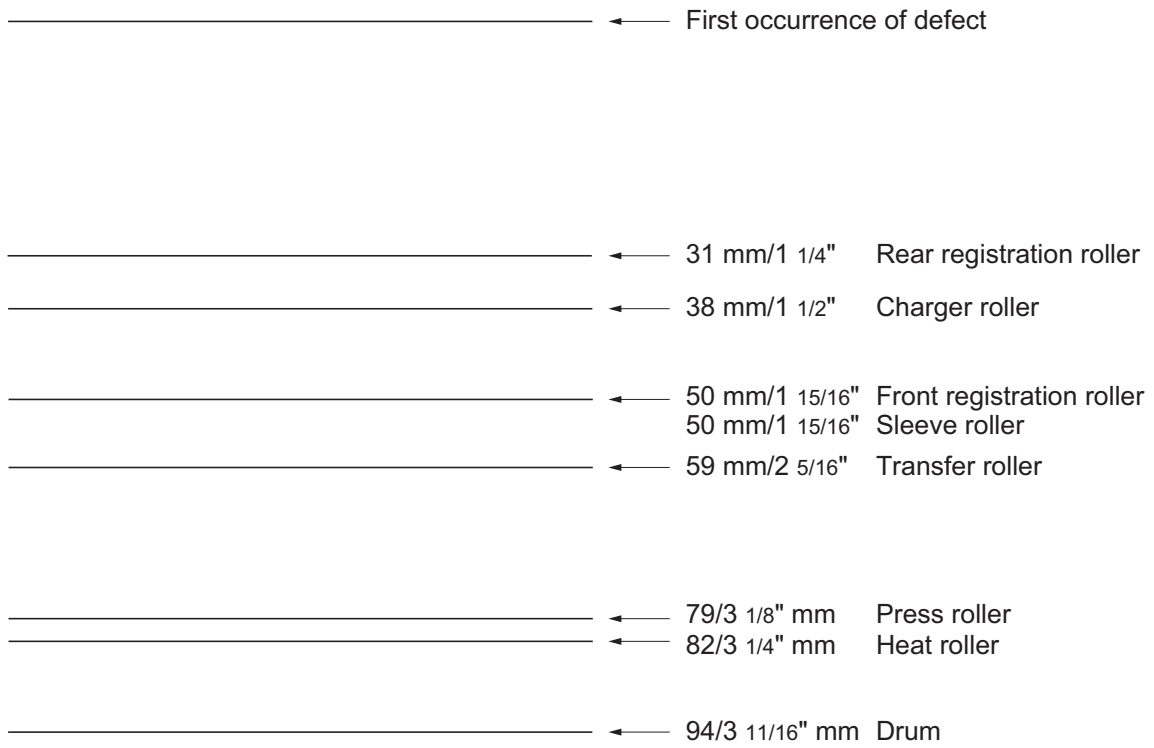
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2-4-1 Appendixes

(1) Maintenance kits

Maintenance part name		Parts No.	Alternative part No.
Name used in service	Name used in parts list		
MK-592/Maintenance kit	MK-592/MAINTENANCE KIT	1702KV7US0	072KV7US
Developing unit K	DV-560 US (K)	-	-
Developing unit M	DV-560 US (M)	-	-
Developing unit C	DV-560 US (C)	-	-
Developing unit Y	DV-560 US (Y)	-	-
Drum unit	DK-590	-	-
Intermediate transfer unit	TR-590	-	-
Fuser unit	FK-590(U)	-	-
Retard roller unit	PARTS HOLDER RETARD ASSY SP	-	-
Paper feed roller unit	PARTS HOLDER FEED ASSY SP	-	-
MP paper feed roller	ROLLER M/P ASSY	-	-
MK-590/Maintenance kit	MK-590/MAINTENANCE KIT	1702KV8NLO	072KV8NL
Developing unit K	DV-560(K)	-	-
Developing unit M	DV-560(M)	-	-
Developing unit C	DV-560(C)	-	-
Developing unit Y	DV-560(Y)	-	-
Drum unit	DK-590	-	-
Intermediate transfer unit	TR-590	-	-
Fuser unit	FK-590(E)	-	-
Retard roller unit	PARTS HOLDER RETARD ASSY SP	-	-
Paper feed roller unit	PARTS HOLDER FEED ASSY SP	-	-
MP paper feed roller	ROLLER M/P ASSY	-	-

(2) Repetitive defects gauge



(3) Firmware environment commands

The printer maintains a number of printing parameters in its memory. These parameters may be changed permanently with the FRPO (Firmware RePrOgram) commands.

This section provides information on how to use the FRPO command and its parameters using examples.

Using FRPO commands for reprogramming firmware

The current settings of the FRPO parameters are listed as optional values on the service status page.

Note: Before changing any FRPO parameter, print out a service status page, so you will know the parameter values before the changes are made. To return FRPO parameters to their factory default values, send the FRPO INIT (FRPO-INITialize) command.(!R! FRPO INIT; EXIT;)

The FRPO command is sent to the printer in the following sequence:

!R! FRPO parameter, value; EXIT;

Example: Changing emulation mode to PCL6

!R! FRPO P1, 6; EXIT;

FRPO parameters

Item	FRPO	Setting values	Factory setting
Default pattern resolution	B8	0: 300 dpi 1: 600 dpi	0
Page orientation	C1	0: Portrait 1: Landscape	0
Default font No. *	C2 C3 C5	Middle two digits of power-up font Last two digits of power-up font First two digits of power-up font	0 0 0
PCL font switch	C8	0: HP compatibility mode 32: Conventional compatibility mode	0
Total host buffer size	H8	0 to 99 in units of the size defined by FRPO S5	5
Form feed time-out value	H9	Value in units of 5 seconds (1 to 99)	6
Duplex mode	N4	0: Off 1: Long edge binding 2: Short edge binding	0
Sleep timer time-out time	N5	Value in units of 1 minute (1 to 240)	1
Ecoprint level	N6	0: Off 2: On	0

Item	FRPO	Setting values	Factory setting
Default emulation mode	P1	6: PCL 6 9: KPDL	120V: 9 220-240V: 6
Carriage-return action	P2	0: Ignores 1: Carriage-return 2: Carriage-return + linefeed	1
Linefeed action	P3	0: Ignores 1: Linefeed 2: Linefeed + carriage-return	1
Automatic emulation switching	P4	0: AES disabled 1: AES enabled	120V: 1 220-240V: 0
Automatic emulation switching trigger	P7	0: Page eject commands 1: None 2: Page eject and prescribe EXIT commands 3: Prescribe EXIT commands 4: Formfeed (^L) commands 6: Prescribe EXIT and formfeed commands 10: Page eject commands; if AES fails, resolves to KPDL	120V: 11 220-240V: 10
Command recognition character	P9	ASCII code of 33 to 126	82 (R)
Default paper size	R2	0: Size of the default paper cassette (See R4.) 1: Envelope Monarch 2: Envelope #10 3: Envelope DL 4: Envelope C5 5: Executive 6: Letter 7: Legal 8: ISO A4 9: JIS B5 13: ISO A5 14: ISO A6 15: JIS B6 16: Envelope #9 17: Envelope #6-3/4 18: ISO B5 19: Custom 31: Postcard 32: Reply-paid postcard 33: Oficio II 40: 16K 50: Statement 51: Folio 52: Youkei 2 53: Youkei 4	0
Default cassette	R4	0: MP tray 1: Cassette 1 2: Cassette 2 3: Cassette 3	1

Item	FRPO	Setting values	Factory setting
MP tray paper size	R7	0: Maximum paper size Same as the R2 values except: 0	120V: 6 220-240V: 8
A4/letter equation	S4	0: Off 1: On	1
Host buffer size	S5	0: 10 KB 1: 100 KB 2: 1024 KB	1
RAM disk capacity	S6	0 to 1024 MB	400
RAM disk	S7	0: Disabled 1: Enabled	0
Wide A4	T6	0: Off 1: On	0
Line spacing *	U0	Lines per inch (integer value)	6
	U1	Lines per inch (decimal value)	0
Character spacing *	U2	Characters per inch (integer value)	10
	U3	Characters per inch (decimal value)	0
Country code	U6	0: US-ASCII 1: France 2: Germany 3: UK 4: Denmark 5: Sweden 6: Italy 7: Spain 8: Japan 9: US Legal 10: IBM PC-850 (Multilingual) 11: IBM PC-860 (Portuguese) 12: IBM PC-863 (Canadian French) 13: IBM PC-865 (Norwegian) 14: Norway 15: Denmark 2 16: Spain 2 17: Latin America 50 - 99: HP PCL symbol set coding	41
Code set at power up in daisywheel emulation	U7	0: Same as the default emulation mode (P1) 1: IBM 6: IBM PC-8 7 - 99: HP PCL symbol set coding	53
Font pitch for fixedpitch scalable font *	U8	Default font pitch (integer value)	10
	U9	Default font pitch (decimal value)	0
Font height for the default scalable font *	V0	Integer value in 100 points: 0 to 9	0
	V1	Integer value in points: 0 to 99	12
	V2	decimal value in 1/100 points: 0, 25, 50, 75	0

Item	FRPO	Setting values	Factory setting
Default scalable font *	V3	Name of typeface of up to 32 characters, enclosed with single or double quotation marks	Courier
Default weight (courier and letter Gothic)	V9	0: Courier = darkness Letter Gothic = darkness 1: Courier = regular Letter Gothic = darkness 4: Courier = darkness Letter Gothic = regular 5: Courier = regular Letter Gothic = regular	5
Color mode	W1	0: Black & white 1: Color	1
Gloss mode	W6	0: Low (normal) 1: High	0
Paper type for the MP tray	X0	1: Plain 2: Transparency 3: Preprinted 4: Label 5: Bond 6: Recycle 7: Vellum 9: Letterhead 10: Color 11: Prepunched 12: Envelope 13: Cardstock 14: Coated 16: Thick 17: High quality 21 to 28: Custom1 to 8	1
Paper type for cassettes 1	X1	1: Plain 3: Preprinted 5: Bond 6: Recycled 7: Vellum 9: Letterhead 10: Color 11: Prepunched 16: Thick 17: High quality 21 to 28: Custom1 to 8	1

Item	FRPO	Setting values	Factory setting
Paper type for cassettes 2 and 3	X2 X3	Paper feeder (Normal) 1: Plain 3: Preprinted 5: Bond 6: Recycled 9: Letterhead 10: Color 11: Prepunched 17: High quality 21 to 28: Custom1 to 8 Multi purpose feeder 1: Plain 3: Preprinted 4: Label 5: Bond 6: Recycle 7: Vellum 9: Letterhead 10: Color 11: Prepunched 12: Envelope 13: Cardstock 14: Coated 16: Thick 17: High quality 21 to 28: Custom1 to 8	1
PCL paper source	X9	0: Paper selection depending on an escape sequence compatible with HP-LJ5Si. 2: Paper selection depending on an escape sequence compatible with HP-LJ8000.	0
Automatic continue for 'Press GO'	Y0	0: Off 1: On	0
Automatic continue timer	Y1	Value in units of 5 seconds (1 to 99)	6 (30 s)
Error message for device error	Y3	0: Not detect 33: Detect	33
Duplex operation for specified paper type (Prepunched, Preprinted and Letterhead)	Y4	0: Off 1: On	0

Item	FRPO	Setting values	Factory setting
Default operation for PDF direct printing	Y5	0: Enlarges or reduces the image to fit in the current paper size. Loads paper from the current paper cassette. 1: Through the image. Loads paper which is the same size as the image. 2: Enlarges or reduces the image to fit in the current paper size. Loads Letter, A4 size paper depending on the image size. 3: Through the image. Loads Letter, A4 size paper depending on the image size. 8: Through the image. Loads paper from the current paper cassette. 9: Through the image. Loads Letter, A4 size paper depending on the image size. 10: Enlarges or reduces the image to fit in the current paper size. Loads Letter, A4 size paper depending on the imagesize.	0
e-MPS error	Y6	0: Does not print the error report and display the error message. 1: Prints the error report. 2: Displays the error message. 3: Prints the error report and displays the error message.	3

*: Ignored in some emulation modes.

(4) Maintenance Commands

This section provides information on how to use the maintenance command and its parameters using examples.

Adjusting the print start timing (alternative command for the maintenance mode U034)

Description

Adjusts the leading edge registration or left edge.

Purpose

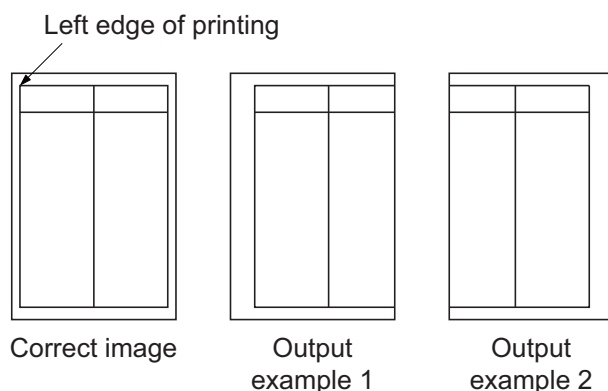
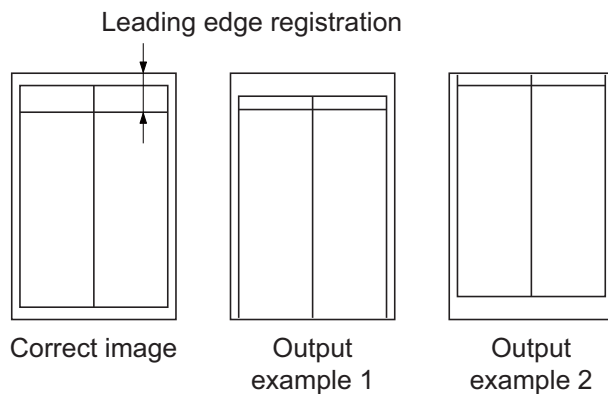
Make the adjustment if there is a regular error between the leading edges of the copy image and original.

Make the adjustment if there is a regular error between the left edges of the copy image and original.

Format	!R! KCFG"PFRC",#1 ,#2 ,#3;	
Parameter	#1	Paper source number 0: MP tray 2-6 : Cassette2-6 100: Duplex (e.g. landscape images short-edge bind) 200: Rotated duplex (e.g. portrait images long-edge bind)
	#2	Edge to adjust 1: Leading edge 2: Left edge
	#3	Adjustable range (-128 to +127) number of dot in 600dpi

Example: Set the leading edge of MP tray to +30 dots

!R! KCFG "PFRC",0,1,30;EXIT;



Adjusting the scanner magnification (alternative command for the maintenance mode U065)**Description**

Adjusts the magnification of the original scanning.

Purpose

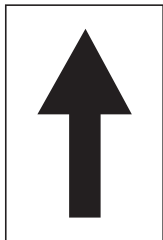
Make the adjustment if the magnification in the main scanning direction is incorrect.

Make the adjustment if the magnification in the auxiliary scanning direction is incorrect.

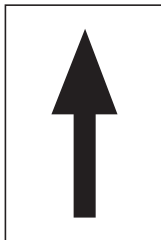
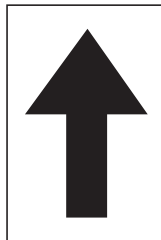
Format	!R! KCFG "SCAN",8, #1,#2;EXIT;	
Parameter	#1	1: Y SCAN ZOOM Scanner magnification in the main scanning direction 2: X SCAN ZOOM Scanner magnification in the auxiliary scanning direction
	#2	#1=1: Adjustable range: -32 to 127 (in 0.1% increment) (0: default) #2=2 : Adjustable range: -25 to 25 (in 0.1% increment) (0: default)

Example: Y SCAN ZOOM set to 55, X SCAN ZOOM set to 10

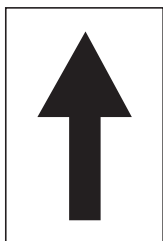
!R! KCFG "SCAN",8,1,55; KCFG "SCAN",8,2,10;EXIT;



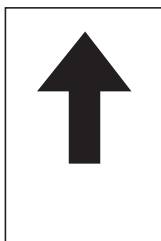
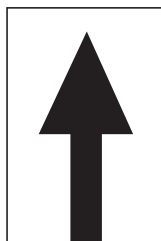
Original

Copy
example 1Copy
example 2

Magnified in the main
scanning direction



Original

Copy
example 1Copy
example 2

Magnified in the auxiliary
scanning direction

Adjusting the scanner leading edge registration (alternative command for the maintenance U066)

Description

Adjusts the scanner leading edge registration of the original scanning.

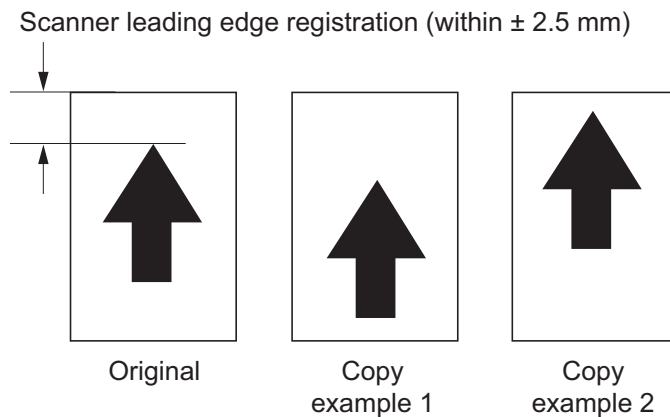
Purpose

Make the adjustment if there is a regular error between the leading edges of the copy image and original.

Format	!R! KCFG "SCAN",5,#1,#2;;EXIT;	
Parameter	#1	1: Scanner leading edge registration 2: Scanner leading edge registration of rotated scan
	#2	Adjustable range: -45 to 45 (in 0.086mm increment) (0: default)

Example: Scanner leading edge registration set to 10 to increase 0.86mm

!R! KCFG "SCAN",5,1,"10";EXIT;



Adjusting the scanner center line (alternative command for the maintenance mode U067)**Description**

Adjusts the scanner center line of the original scanning.

Purpose

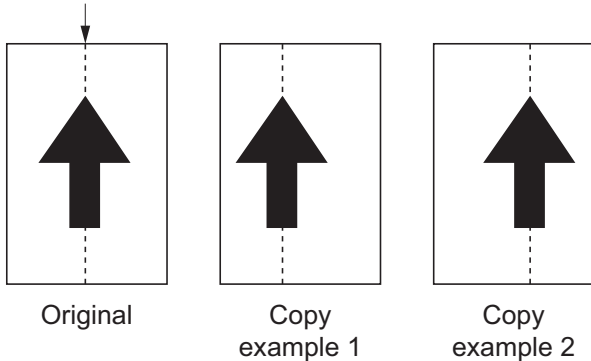
Make the adjustment if there is a regular error between the center lines of the copy image and original.

Format	!R! KCFG "SCAN",6, #1;#2;EXIT;	
Parameter	#1	1: Scanner center line 2: Scanner center line of rotated scan
	#2	#1=1: Adjustable range: -70 to 70 (in 0.086mm increment) (0: default) #1=2: Adjustable range: -40 to 40 (in 0.086mm increment) (0: default)

Example: Scanner leading edge registration set to 20 to increase 1.72mm

!R! KCFG "SCAN",6,1,20;EXIT;

Scanner center line (within ± 2.0 mm)



Adjusting the scanning position for originals from the DP (alternative command for the maintenance mode U068)

Description

Adjusts the position for scanning originals from the DP. Performs the test copy at the four scanning positions after adjusting.

Purpose

Used when the image fogging occurs because the scanning position is not proper when the DP is used. Execute KCFG "EESS",4, 107, 1, "#1"; command to adjust the timing of DP leading edge when the scanning position is changed.

Format	!R! KCFG "SCAN",9, #1,#2;EXIT;	
Parameter	#1	1: DP READ Starting position adjustment for scanning originals 2: BLACK LINE Scanning position for the test copy originals
	#2	#1=1: Adjustable range: -33 to 33 (in 0.086mm increment) (0: default) #1=2: Adjustable range: 0 to 3 (in 0.22mm increment) (0: default)

Example: DP READ set to 15, BLACK LINE set to 3

!R! KCFG "SCAN",9,1,15; KCFG "SCAN",9,2,3;EXIT;

Adjusting the DP magnification (alternative command for the maintenance mode U070)

Description

Adjusts the DP original scanning speed.

Purpose

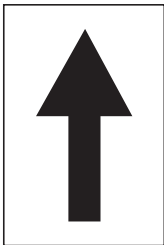
Make the adjustment if the magnification is incorrect in the auxiliary scanning direction when the DP is used.

Format	!R! KCFG "SCAN",4, #1;#2;EXIT;	
Parameter	#1	2: CONVEYING SPEED Magnification in the auxiliary scanning direction
	#2	Adjustable range: --25 to 25 (in 0.1% increment) (0: default)

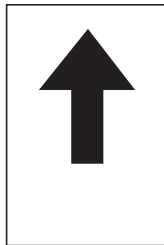
Example: DP scanning magnification set to 20 to increase 2%

!R! KCFG "SCAN",4,2,20;EXIT;

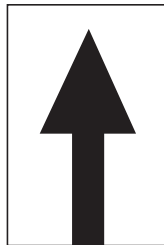
Leading edge registration



Original



Copy
example 1



Copy
example 2

Adjusting the DP scanning timing (alternative command for the maintenance mode U071)

Description

Adjusts the DP original scanning timing.

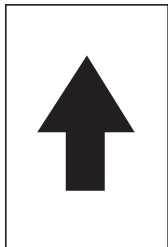
Purpose

Make the adjustment if there is a regular error between the leading or trailing edges of the original and the copy image when the DP is used.

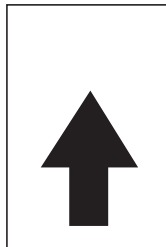
Format	!R! KCFG "SCAN",2,#1,#2;EXIT;	
Parameter	#1	1: FRONT HEAD Leading edge registration (first page) 2: FRONT TAIL Trailing edge registration (first page) 3: BACK HEAD Leading edge registration (second page) 4: BACK TAIL Trailing edge registration (second page) 5: ROTATE Leading edge registration (rotate scan)
	#2	#1=1: Adjustable range: -32 to 32 (in 0.196mm increment) (0: default) #1=2: Adjustable range: -32 to 32 (in 0.196mm increment) (0: default) #1=3: Adjustable range: -45 to 45 (in 0.196mm increment) (0: default) #1=4: Adjustable range: -45 to 45 (in 0.196mm increment) (0: default) #1=5: Adjustable range: -128 to 128 (in 0.196mm increment) (0: default)

Example: FRONT HEAD set to 10, FRONT TAIL set to 15, BACK HEAD set to 10, BACK TAIL 15
!R! KCFG "SCAN",2,1,10; KCFG "SCAN",2,2,15; KCFG "SCAN",2,3,10; KCFG "SCAN",2,4,15;EXIT;

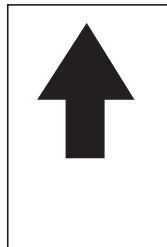
Leading edge registration



Original

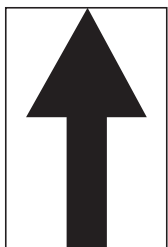


Copy example 1

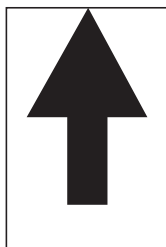


Copy example 2

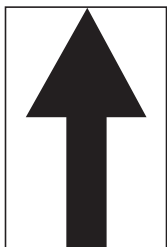
Trailing edge registration



Original



Copy example 1



Copy example 2

Adjusting the DP center line (alternative command for the maintenance mode U072)

Description

Adjusts the scanning center line for the DP original.

Purpose

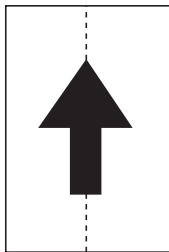
Make the adjustment if there is a regular error between the centers of the original and the copy image when the DP is used.

Format	!R! KCFG "SCAN",3, #1,#2;EXIT;	
Parameter	#1	1: FRONT Center line (first page) 2: BACK Center line (second page) 3: ROTATE Center line (rotated scan)
	#2	Setting range: -39 to 39 (in 0.086mm increment) (initial: 0)

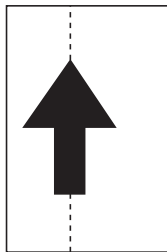
Example: FRONT set to 15, BACK set to 3

!R! KCFG "SCAN",3,1,15; KCFG "SCAN",3,2,3;EXIT;

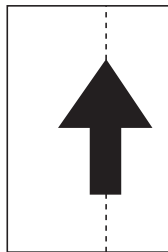
DP center line



Original

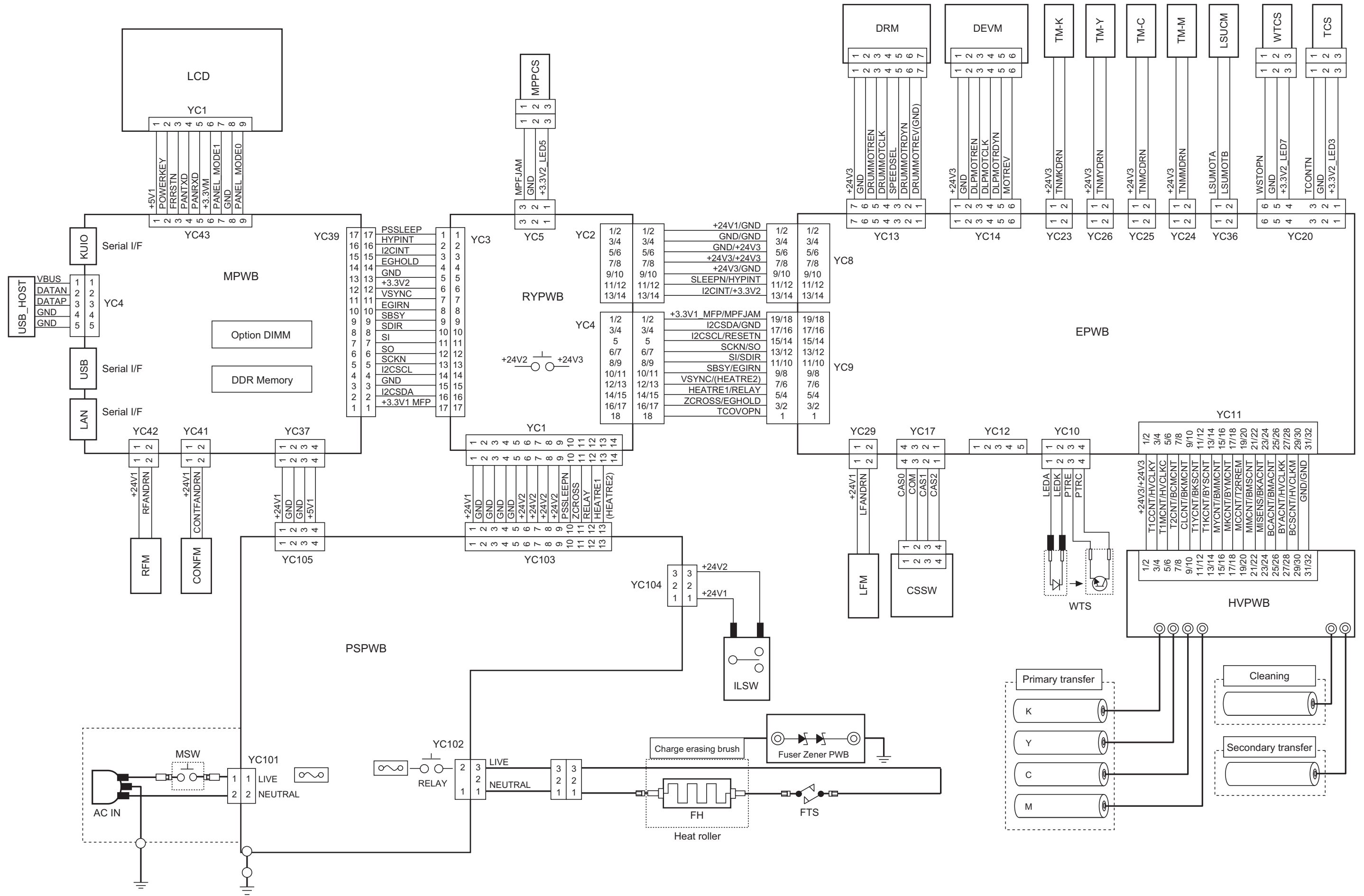


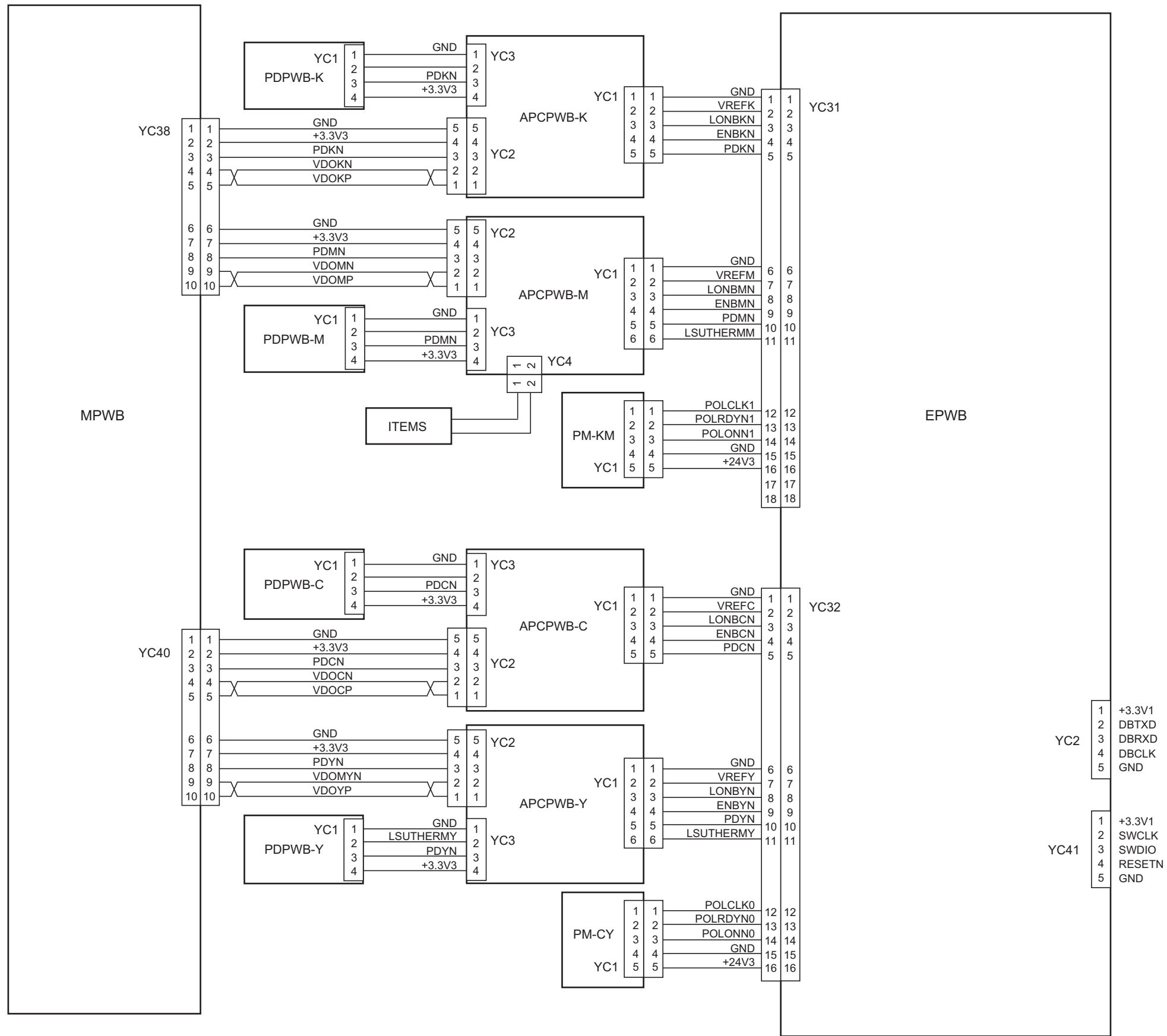
Copy
example 1

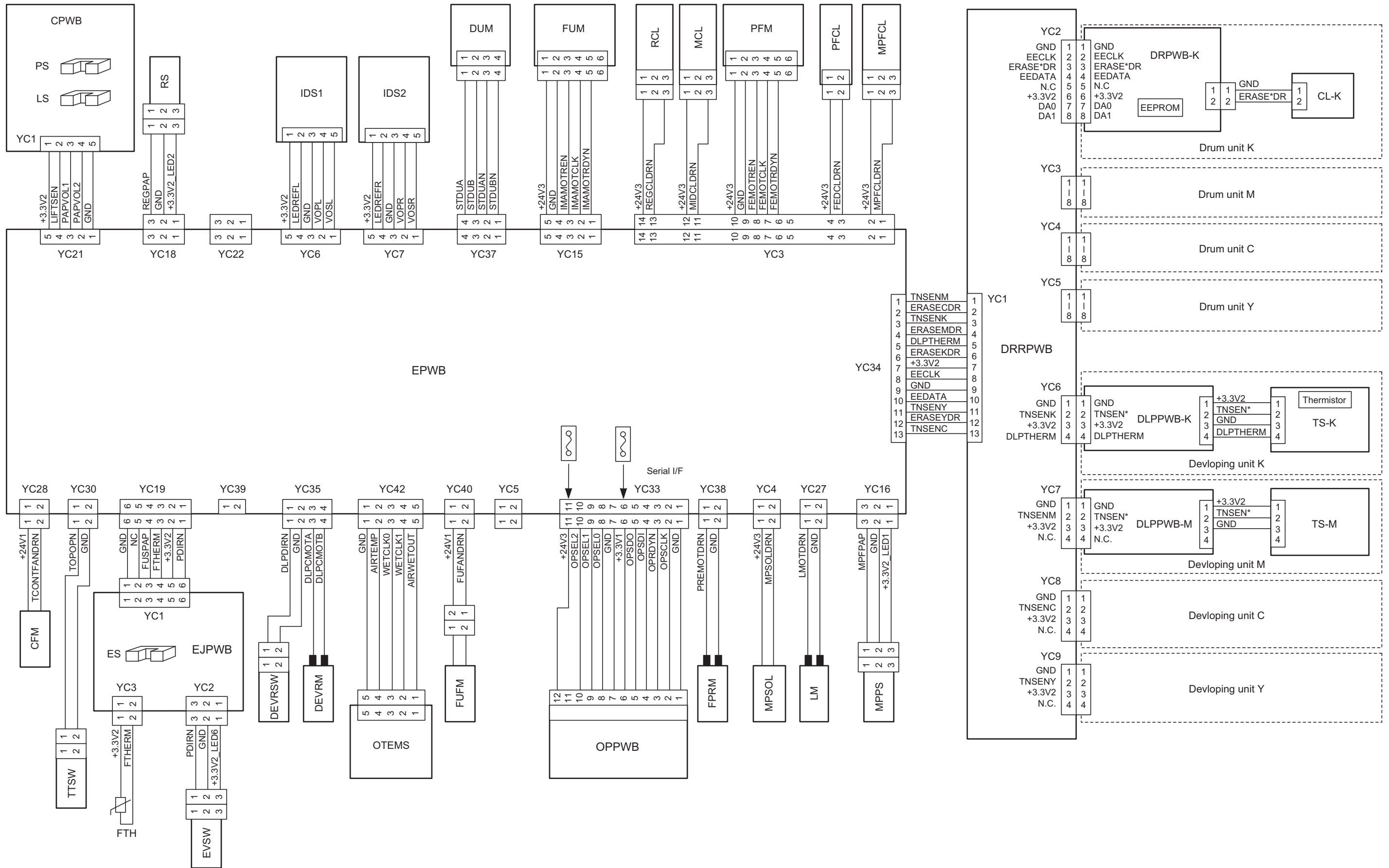


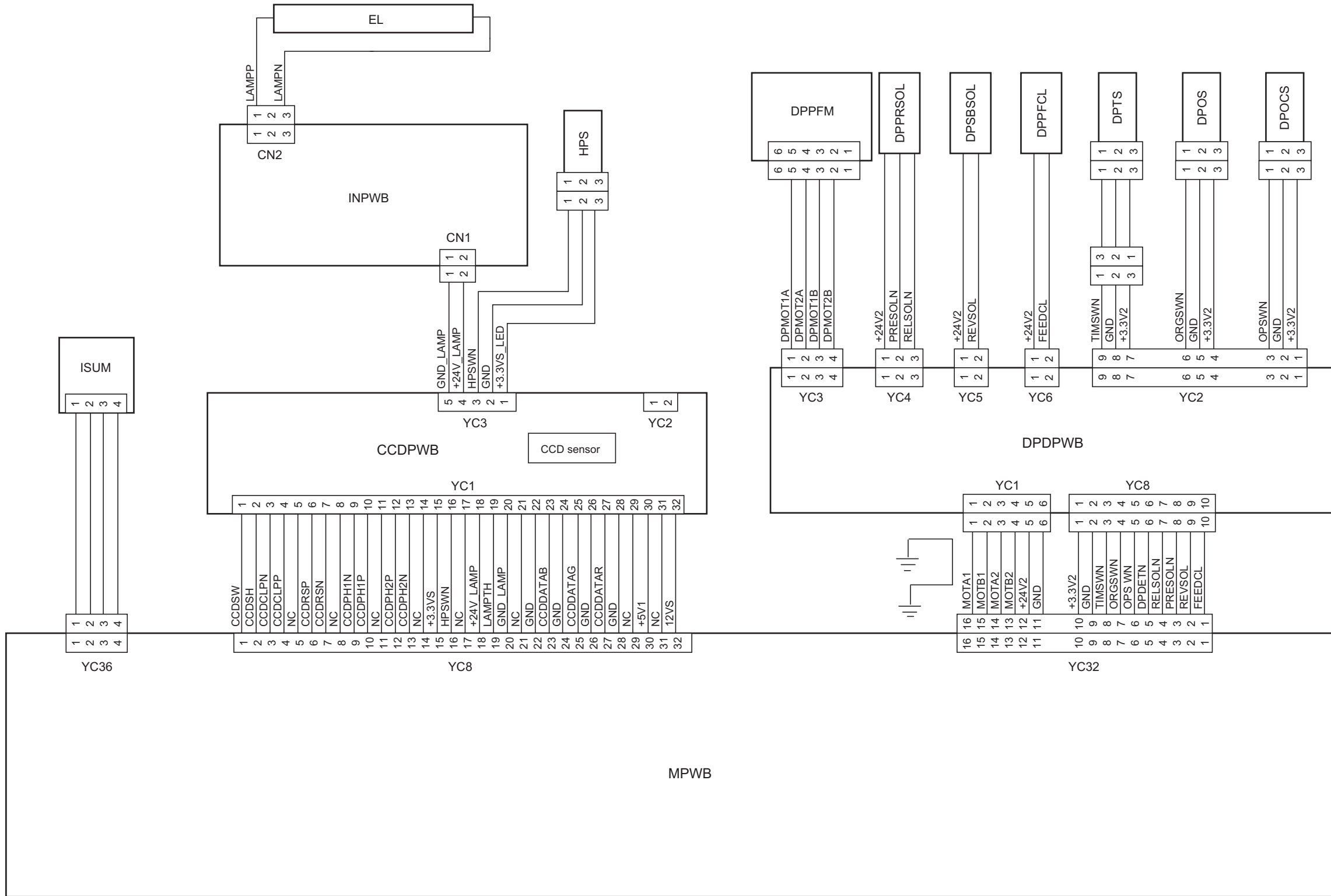
Copy
example 2

(5) Wiring diagram









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