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# **FS-C8600DN**

# **FS-C8650DN**

# **SERVICE**

# **MANUAL**

Published in June 2012  
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Rev. 1

## **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.

### **Notation of products in the manual**

For the purpose of this service manual, products are identified by print speed at A4 and black and white modes.

FS-C8600DN: 45 ppm model

FS-C8650DN: 55 ppm model

## Revision history

Revision	Date	Replaced pages	Remarks
1	June 18, 2012	Contents, 1-1-1 to 1-1-3,1-1-6,1-2-2,1-2-8,1-2-9, 1-2-19,1-2-20,1-2-22,1-2-26,1-2-28,1-3-32,1-2-33, 1-2-38,1-2-43,1-3-6 to 1-3-8,1-3-10,1-3-16,1-3-17, 1-3-21 to 1-3-23,1-3-26 to 1-3-29,1-3-31 to 1-3-34, 1-3-37,1-3-38,1-3-48,1-3-49,1-3-53,1-3-54,1-3-59, 1-3-60,1-3-62,1-3-65,1-3-72,1-3-76,1-3-77,1-3-79, 1-3-84,1-3-85,1-3-87 to 1-3-91,1-3-93 to 1-3-96, 1-3-99,1-3-106,1-3-108,1-3-112 to 1-3-116,1-3-126, 1-3-130 to 1-3-133,1-3-135,1-3-137,1-3-139, 1-3-141,1-3-147 to 1-3-150,1-4-2,1-4-26 to 1-4-28, 1-4-35 to 1-4-39,1-4-42,1-4-55,1-4-58 to 1-4-60, 1-4-71,1-4-88,1-4-90,1-4-91,1-5-1,1-5-4,1-5-8, 1-5-11,1-5-17,1-5-18,1-5-24,1-5-26,1-5-32,1-5-44 to 1-5-46,1-5-48,1-5-49,1-5-54,1-5-79 to 1-5-81,1-6-1, 1-6-2,2-2-1,2-2-3,2-3-1,2-3-8,2-3-28,2-3-32,2-3-36, 2-3-46,2-3-56,2-3-62,2-3-68,2-3-72,2-4-3,2-4-7, 2-4-8,2-4-13,2-4-22,2-4-23	

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# Safety precautions


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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 machine.

# 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 machine 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 machine on an infirm or angled surface: the machine may tip over, causing injury. . 
- Do not install the machine in a humid or dusty place. This may cause fire or electric shock. .... 
- Do not install the machine near a radiator, heater, other heat source or near flammable material. This may cause fire..... 
- Allow sufficient space around the machine to allow the ventilation grills to keep the machine as cool as possible. Insufficient ventilation may cause heat buildup and poor printing performance. .... 
- Always handle the machine by the correct locations when moving it. .... 
- Always use anti-toppling and locking devices on machines so equipped. Failure to do this may cause the machine 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 machine'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 machine 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 machine 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 machine, 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	
		45 ppm	55 ppm
Type		Desktop	
Printing method		Electrophotography by semiconductor laser, tandem drum system	
Paper weight	Cassette	60 to 256 g/m <sup>2</sup>	
	MP tray	60 to 300 g/m <sup>2</sup>	
Paper type	Cassette	Plain, Rough, Vellum, Recycled, Preprinted, Bond, Color (Colour), Prepunched, Letterhead, Thick, High Quality, Custom 1 to 8 (Duplex: Same as simplex)	
	MP tray	Plain, Transparency (OHP film), Rough, Vellum, Labels, Recycled, Preprinted, Bond, Cardstock, Color (Colour), Prepunched, Letterhead, Thick, Coated, Envelope, High Quality, Custom 1 to 8	
Paper size	Cassette	A3, B4, A4, A4R, B5, B5R, A5R, Ledger, Legal, Letter, LetterR, StatementR, Oficio II, 12 × 18", Folio, 8K, 16K, 16KR	
	MP tray	A3, B4, A4, A4R, B5, ISO B5, B5R, A5R, B6R, A6R, Return postcard, Postcards, Envelope DL, Envelope C5, Envelope C4, Envelope #10 (Commercial #10), Envelope #9 (Commercial #9), Envelope #6 (Commercial #6 3/4), Envelope Monarch, Youkei 2, Youkei 4, Ledger, Legal, Letter, LetterR, Executive, StatementR, Oficio II, 12 × 18", Folio, 8K, 16K, 16KR, Custom (98× 148mm × 304.9 × 1219.2mm)	
Printing speed	B/W	A4 : 45 ppm Letter : 45 ppm A4R : 24 ppm LetterR : 24 ppm A3 : 22 ppm Ledger : 22 ppm B4 : 27 ppm Legal : 21 ppm B5 : 45 ppm	A4 : 55 ppm Letter : 55 ppm A4R : 24 ppm LetterR : 24 ppm A3 : 27 ppm Ledger : 27 ppm B4 : 33 ppm Legal : 21 ppm B5 : 55 ppm
	Color	A4 : 45 ppm Letter : 45 ppm A4R : 24 ppm LetterR : 24 ppm A3 : 22 ppm Ledger : 22 ppm B4 : 27 ppm Legal : 21 ppm B5 : 45 ppm	A4 : 50 ppm Letter : 50 ppm A4R : 24 ppm LetterR : 24 ppm A3 : 25 ppm Ledger : 25 ppm B4 : 30 ppm Legal : 21 ppm B5 : 50 ppm
First print time (A4, feed from cassette)	B/W	5.4 s or less	4.9 s or less
	Color	6.6 s or less	6.2 s or less

Item		Specifications	
		45 ppm	55 ppm
Warm-up time (22 °C/71.6 °F, 60% RH)	Power on	41 s or less	45 s or less
	Low Power	25 s or less	25 s or less
	Sleep	41 s or less	45 s or less
Paper capacity	Cassette	550 sheets (64 g/m <sup>2</sup> ) 500 sheets (80 g/m <sup>2</sup> )	
	MP tray	A4/Letter or less 165 sheets (64 g/m <sup>2</sup> ) 150 sheets (80 g/m <sup>2</sup> ) More than A4/Letter 55 sheets (64 g/m <sup>2</sup> ) 50 sheets (80 g/m <sup>2</sup> )	
Output tray capacity	Main tray	500 sheets (80 g/m <sup>2</sup> )	
	Job separator tray	250 sheets (80 g/m <sup>2</sup> ) (When the Documents Finisher is installed, 100 sheets.)	
Photoconductor		a-Si (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: Roller transfer system (Intermediate transfer belt) Secondary: Roller transfer system	
Separation system		Small diameter separation, Separation electrode	
Cleaning system		Drum: Counter blade, Cleaning roller Transfer belt: Fur brush	
Charge erasing system		Exposure by cleaning lamp (LED)	
Fusing system		Belt fusing Heat source: IH Abnormally high temperature protection devices: thermostat	
CPU		PowerPC 750GL/750 MHz	
Main memory	Standard	1024 MB (1024 MB DIMMx 1)	
	Maximum	2048 MB(1024 MB DIMMx 2)	
Hard Disk		160 GB (160 GB x 1) (standard)	
Interface	Standard	USB Interface Connector: 1 (Hi-Speed USB) USB Port: 2 (Hi-Speed USB) Network interface: 1 (10 BASE-T/100 BASE-TX/1000 BASE-T)	
	Option	Network interface: 1 (10 BASE-T/100 BASE-TX/1000 BASE-T)	
Resolution		600 × 600 dpi	
Operating system		Windows XP, Windows Server 2003, Windows Vista, Windows 7, Windows Server 2008, Apple Macintosh OS 10.x	
Page description language		PRESCRIBE	

Item		Specifications	
		45 ppm	55 ppm
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)	machine only	672 × 787 × 744 mm 26 29/64 × 30 63/64 × 29 13/32"	
	machine with Paper feeder	672 × 787 × 1053 mm 26 29/64 × 30 63/64 × 41 19/64"	
Space required (W × D)	Using MP tray	1001 × 787 mm 39 13/32 × 30 63/64	
	FULL system	1937 × 787 mm (machine + 4000-sheet finisher + Side deck) 76 17/64 × 30 63/64"	
Weight		111 kg / 244.7 lb	
Power source		120 V AC, 60 Hz, more than 12.0 A 220 - 240 V AC, 50/60 Hz, more than 7.2 A	
Options		Paper feeder, Large capacity feeder, Side deck, Side multi tray, Side paper feeder, Side large capacity feeder, 1000-sheet finisher, 4000-sheet finisher, Center-folding unit, Mailbox, Punch unit, Data security kit, Emulation option kit, Gigabit ethernet board, IC card reader holder and Duct unit	

NOTE: These specifications are subject to change without notice.

## 1-1-2 Parts names

### (1) Machine

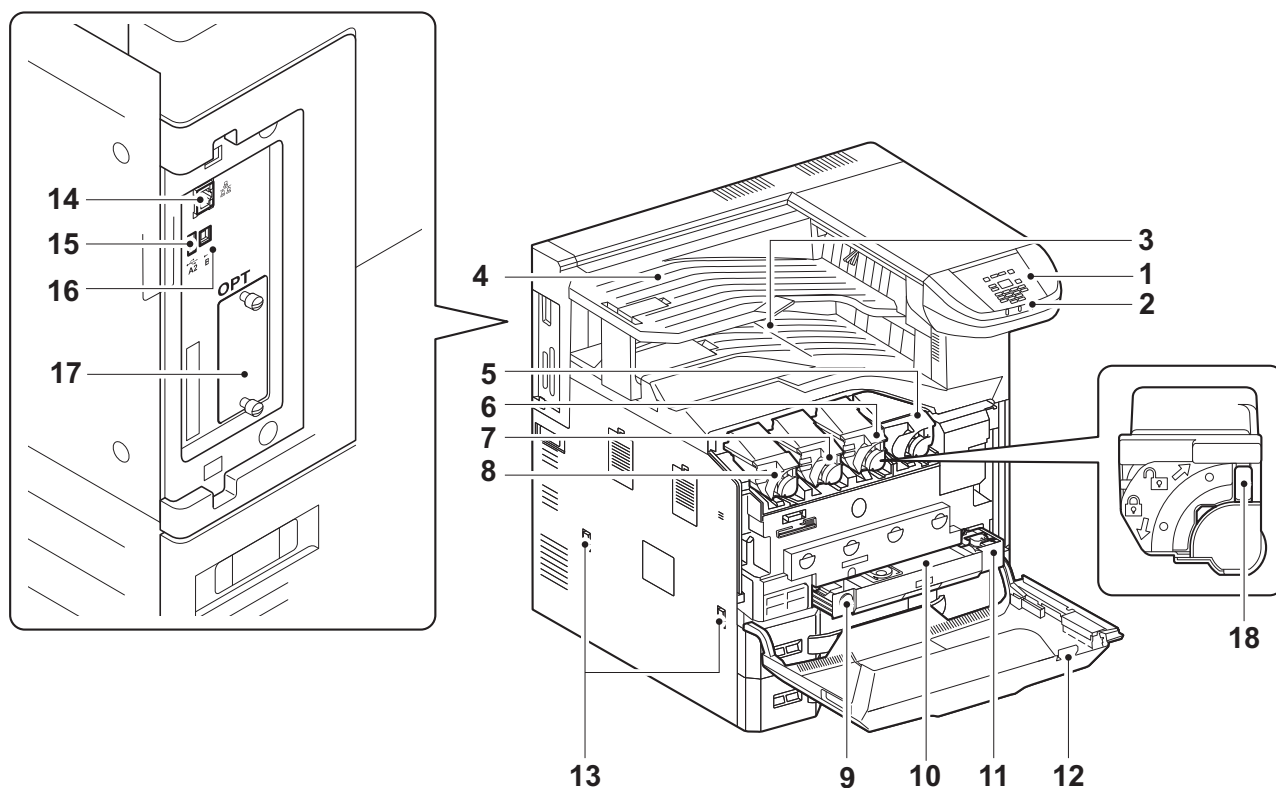


Figure 1-1-1

- |                       |                                   |
|-----------------------|-----------------------------------|
| 1. Operation panel    | 10. Waste toner box               |
| 2. Indicators         | 11. Waste toner tray              |
| 3. Main tray          | 12. Front cover                   |
| 4. Job separator tray | 13. Handles                       |
| 5. Toner container K  | 14. Network interface connector   |
| 6. Toner container M  | 15. USB port                      |
| 7. Toner container C  | 16. USB interface connector       |
| 8. Toner container Y  | 17. Option interface              |
| 9. Release button     | 18. Toner container release lever |

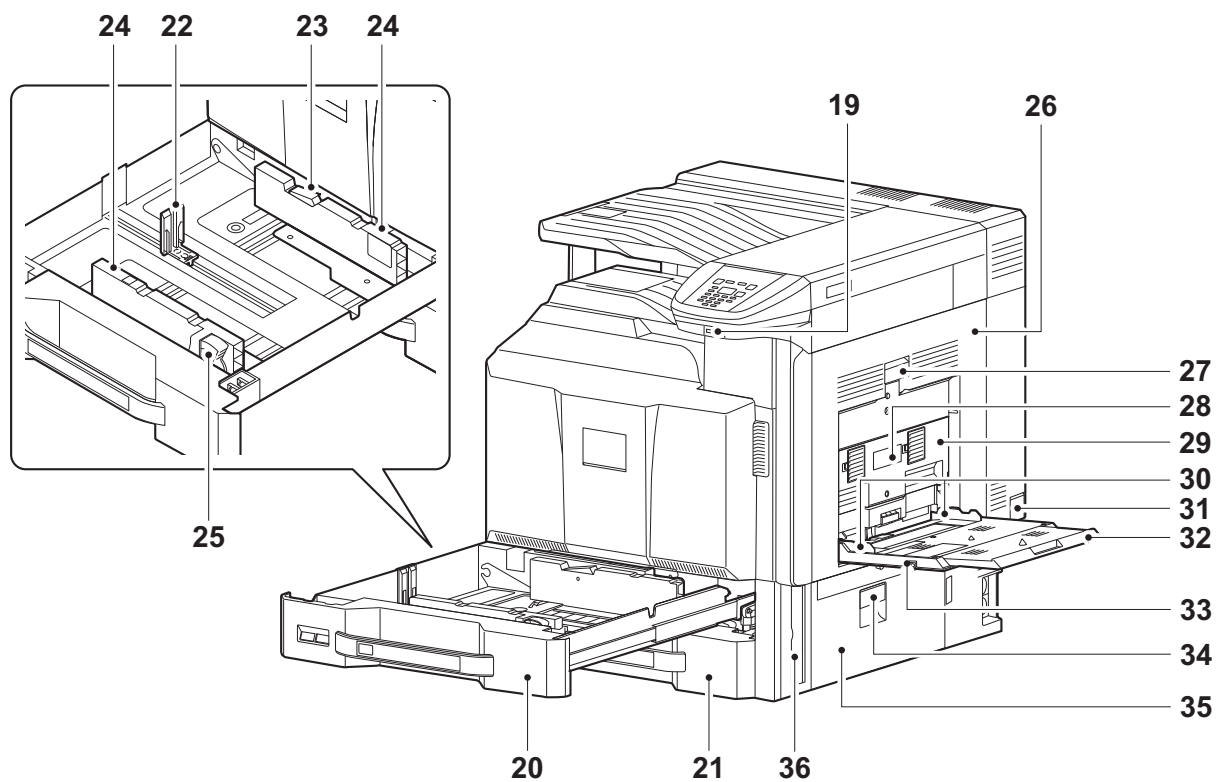


Figure 1-1-2

- |                                |                                 |
|--------------------------------|---------------------------------|
| 19. USB port                   | 29. Duplex cover                |
| 20. Cassettes 1                | 30. MP paper width guide        |
| 21. Cassettes 2                | 31. Main power switch           |
| 22. Paper length guide         | 32. MP support Tray             |
| 23. Guide lock lever           | 33. MP (Multi-Purpose) tray     |
| 24. Paper width guide          | 34. Paper conveying cover lever |
| 25. Paper width adjusting tab  | 35. Paper conveying cover       |
| 26. Paper conveying unit       | 36. Handle                      |
| 27. Paper conveying unit lever |                                 |
| 28. Duplex cover lever         |                                 |

## (2) Option

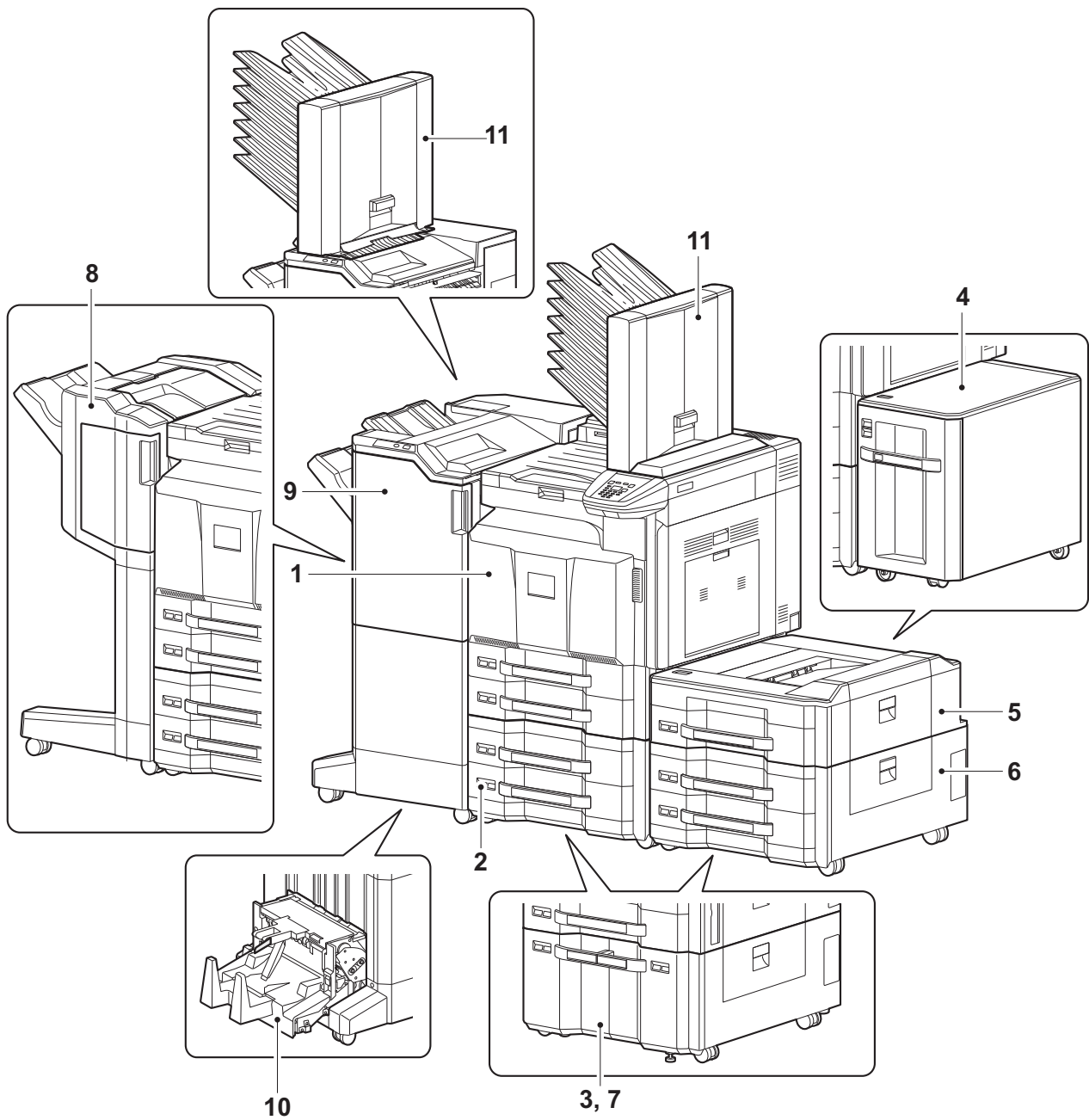
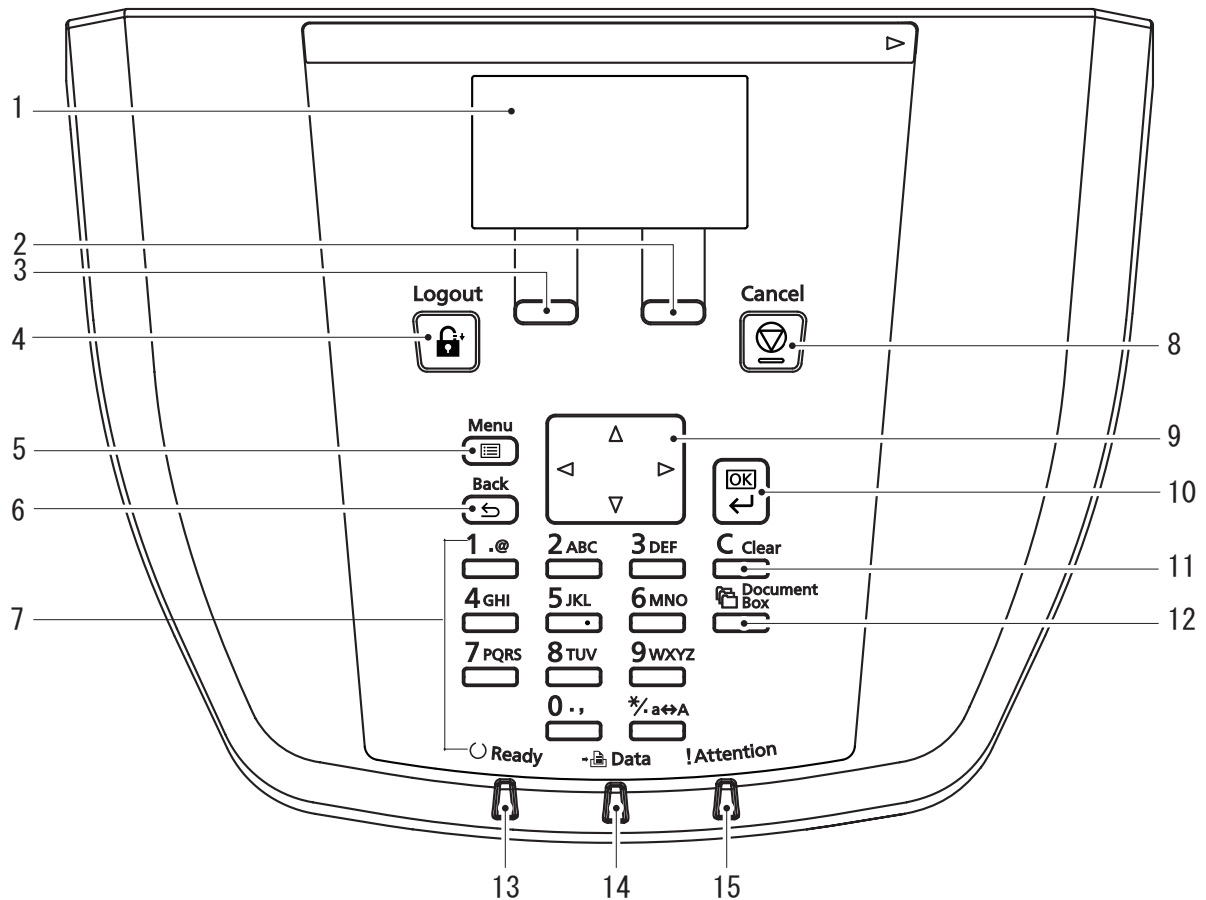


Figure 1-1-3

- |                          |                               |
|--------------------------|-------------------------------|
| 1. Machine               | 7. Side large capacity feeder |
| 2. Paper feeder          | 8. 1000-sheet finisher        |
| 3. Large capacity feeder | 9. 4000-sheet finisher        |
| 4. Side deck             | 10. Center-folding unit       |
| 5. Side multi tray       | 11. Mailbox                   |
| 6. Side paper feeder     |                               |

\* : The mailbox can be installed either the main unit or the 4000-sheet finisher.(Not installable at the same time)



**(3) Operation panel****Figure 1-1-4**

- |                     |                         |
|---------------------|-------------------------|
| 1. Message display  | 9. Cursor key           |
| 2. Right select key | 10. OK key              |
| 3. Left select key  | 11. Clear key           |
| 4. Logout key       | 12. Print Box key       |
| 5. Menu key         | 13. Ready indicator     |
| 6. Back key         | 14. Data indicator      |
| 7. Numeric keys     | 15. Attention indicator |
| 8. Cancel key       |                         |

### 1-1-3 Machine cross section

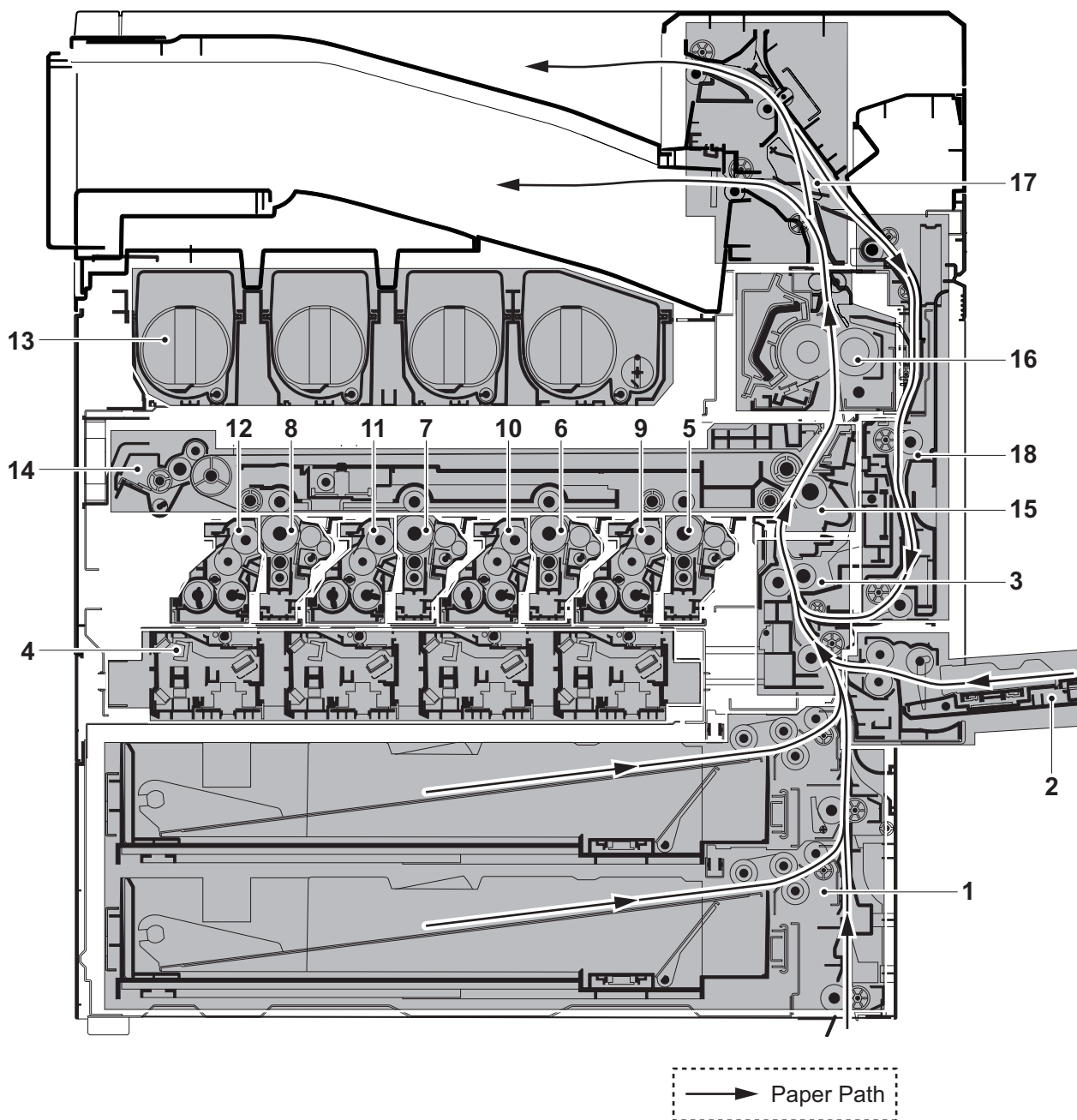


Figure 1-1-5

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

## 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, 12.0 A  
220 - 240 V AC, 7.2 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<sub>x</sub>, SO<sub>x</sub> gases and chlorine-based organic solvents.

Select a well-ventilated location.

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

Machine front : 100 cm/ 40"

Machine rear : 10 cm/ 4"

Machine right : 35 cm/ 14"

Machine left : 30 cm/ 12"

Machine top : 40 cm/ 15"

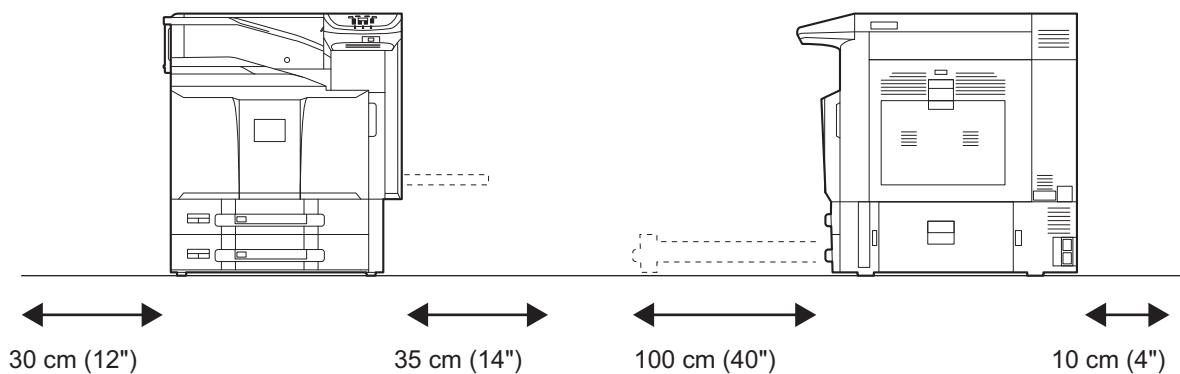
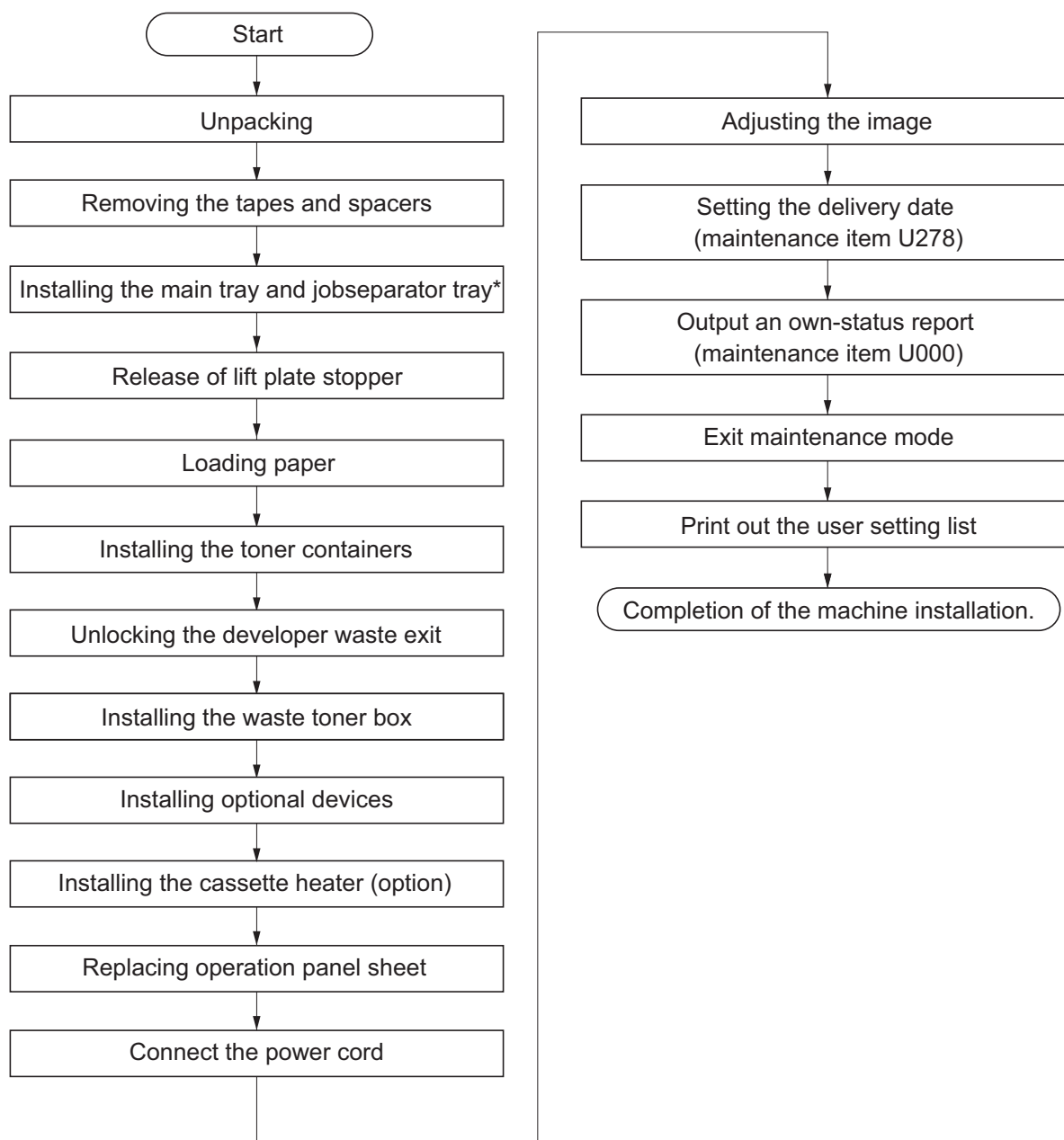


Figure 1-2-1

## 1-2-2 Unpacking and installation

### (1) Installation procedure



\*: \*:When the finisher has been installed, the job separator tray and the main tray are not needed.

### Moving the machine

When moving the machine, pull out three carrying handles, and move with carrying handles and the handhold.

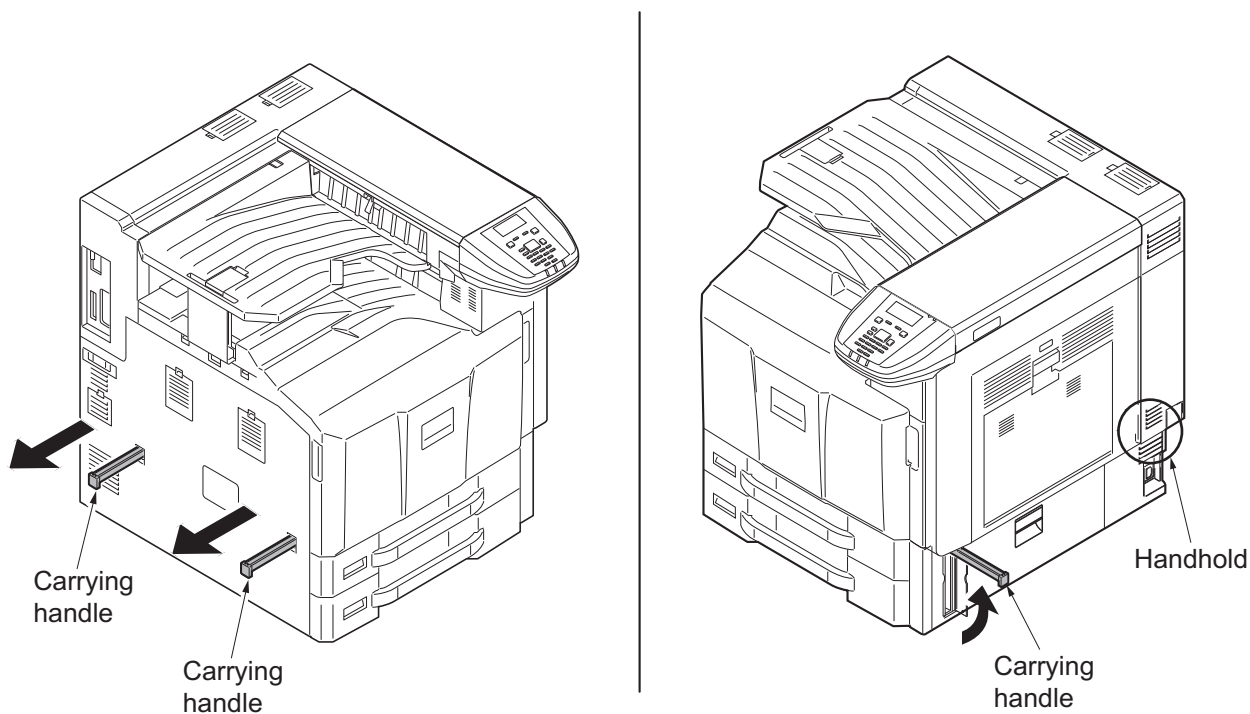


Figure 1-2-2

\*: Moving this machine is a job for four people.

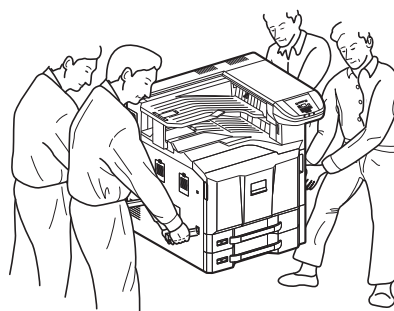


Figure 1-2-3

Unpacking

120V model

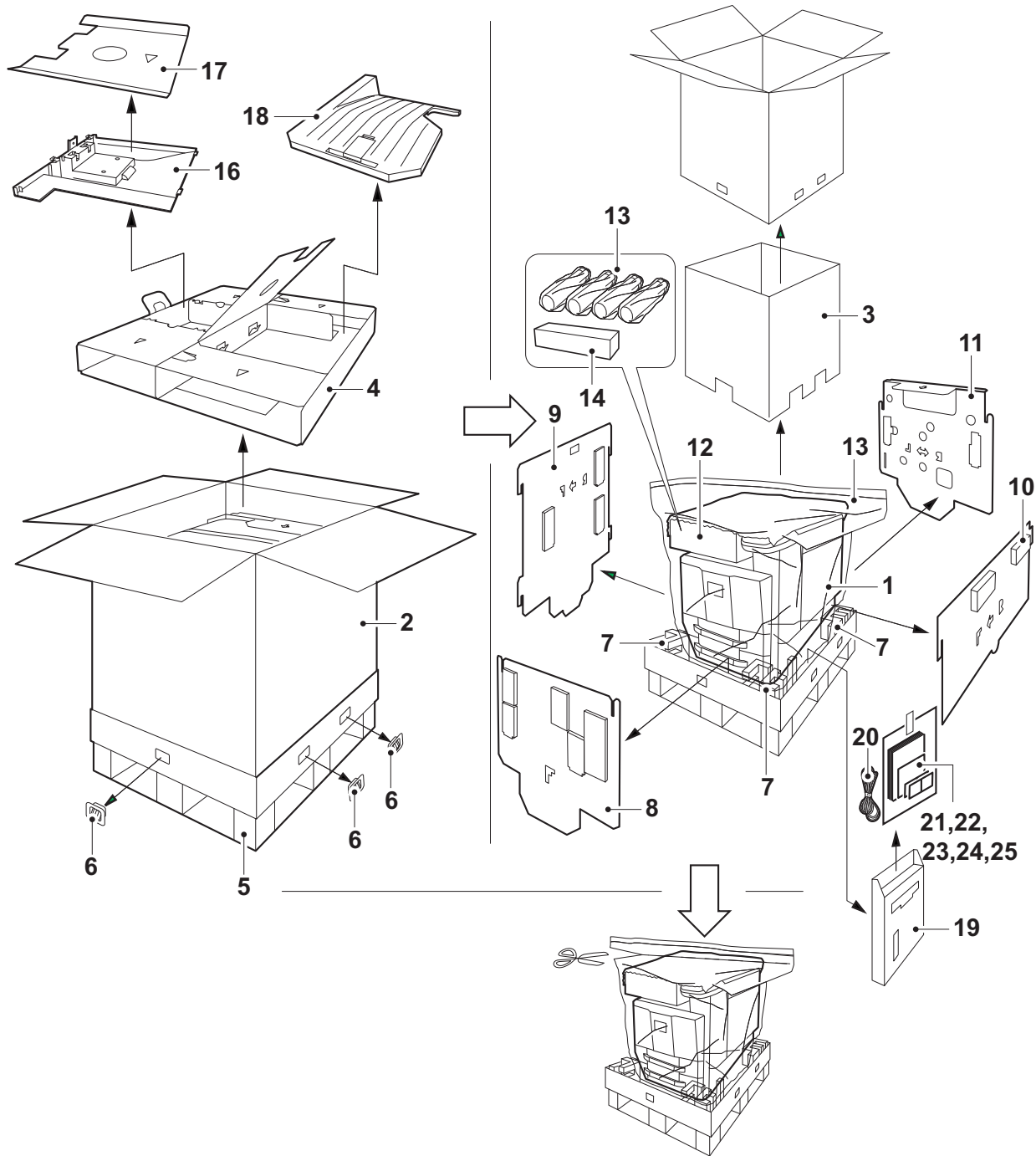


Figure 1-2-4

220-240V model

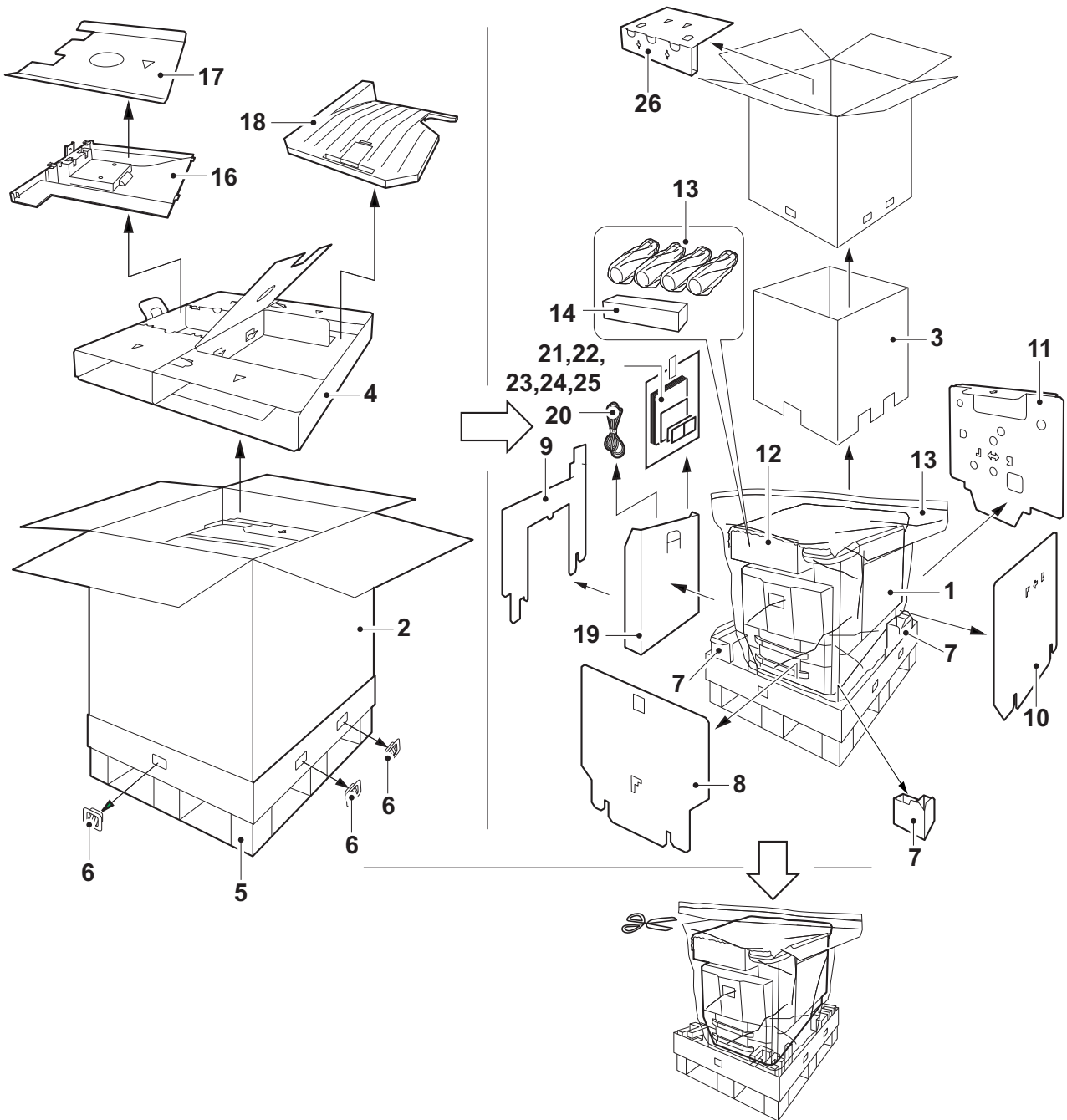


Figure 1-2-5

- |                 |                               |                          |
|-----------------|-------------------------------|--------------------------|
| 1. Machine      | 10. Right pad                 | 19. Document tray        |
| 2. Outer case   | 11. Rear pad                  | 20. Power cord           |
| 3. Inner case   | 12. Top spacer                | 21. Plastic bag          |
| 4. Spacer A     | 13. Machine cover             | 22. Paper size plates    |
| 5. Skid         | 14. Toner container (Y,M,C,K) | 23. Paper media plates   |
| 6. Hinge joints | 15. Waste toner box           | 24. Pin                  |
| 7. Bottom pad   | 16. Main tray                 | 25. Operation guide etc. |
| 8. Front pad    | 17. Spacer B                  | 26. Top pad              |
| 9. Left pad     | 18. Job separator tray        |                          |

Place the machine on a level surface.

Removing the tapes

1. Remove two tapes and the protect sheet.
2. Remove tape and the top spacer.

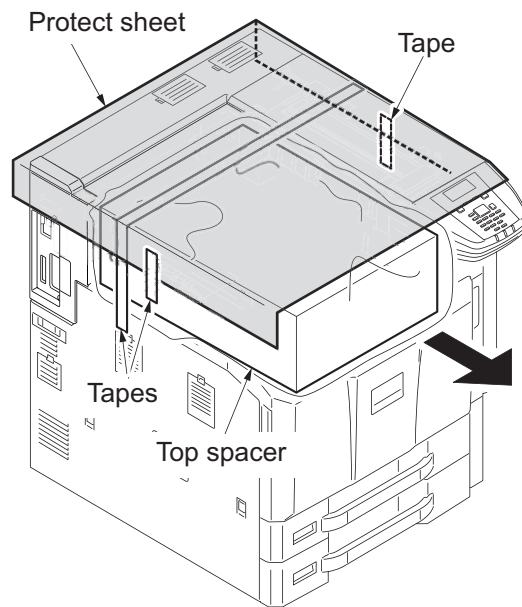


Figure 1-2-6

3. Remove tape and then two protect sheets.
4. Remove three tapes and then protect sheet.
5. Remove tape and then silica gel.

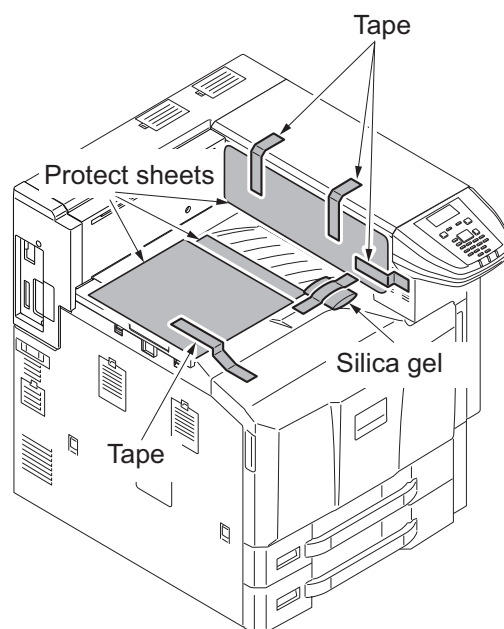


Figure 1-2-7



6. Open the front cover and then remove tape.

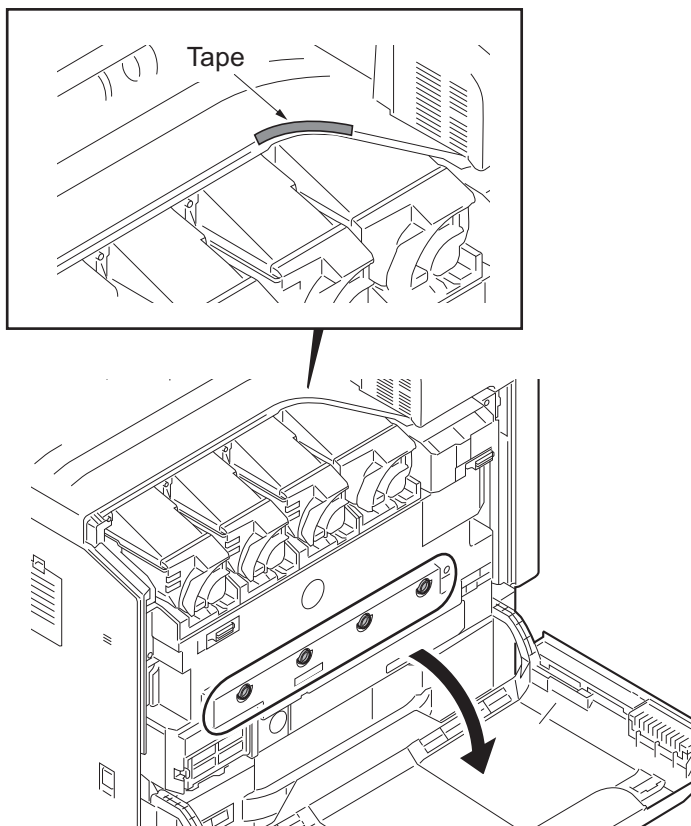


Figure 1-2-8

1. Remove three tapes and then remove three protect sheet.
2. Remove two tapes.

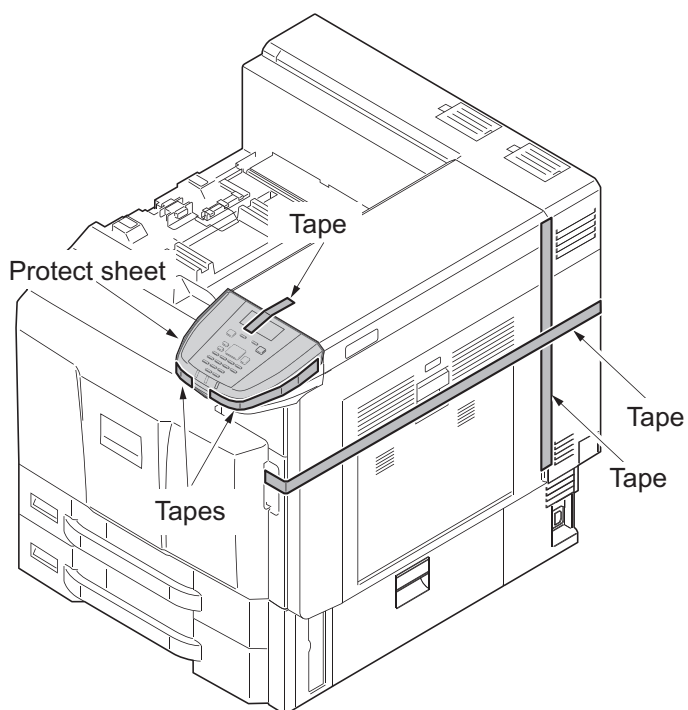
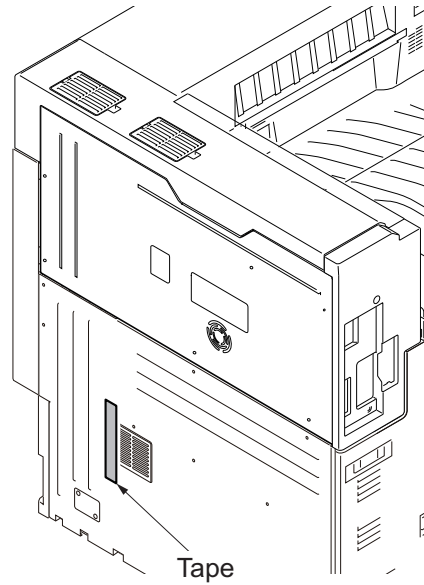


Figure 1-2-9

3. Remove tape.

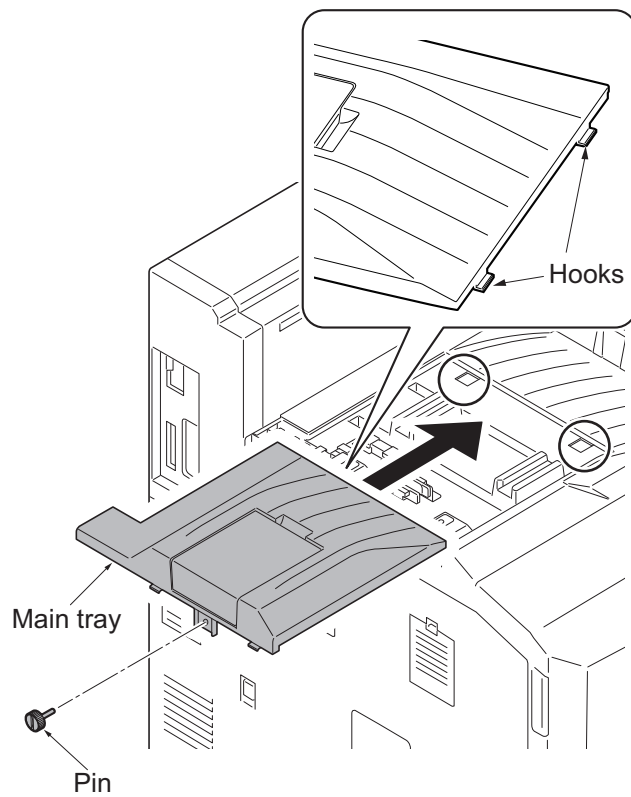


**Figure 1-2-10**

Installing the main tray and job separator tray

\*: When the finisher has been installed, the job separator tray and the main tray are not needed.

1. Install the main tray included by latching in two hooks and securing by one screw.



**Figure 1-2-11**

2. Raise the tray fixing plate.
  3. Latch the three hooks to the job separator tray.
  4. Load the tray on the tray fixing board and slide it to secure.
- \*: Make sure that the two clicks have been properly locked.

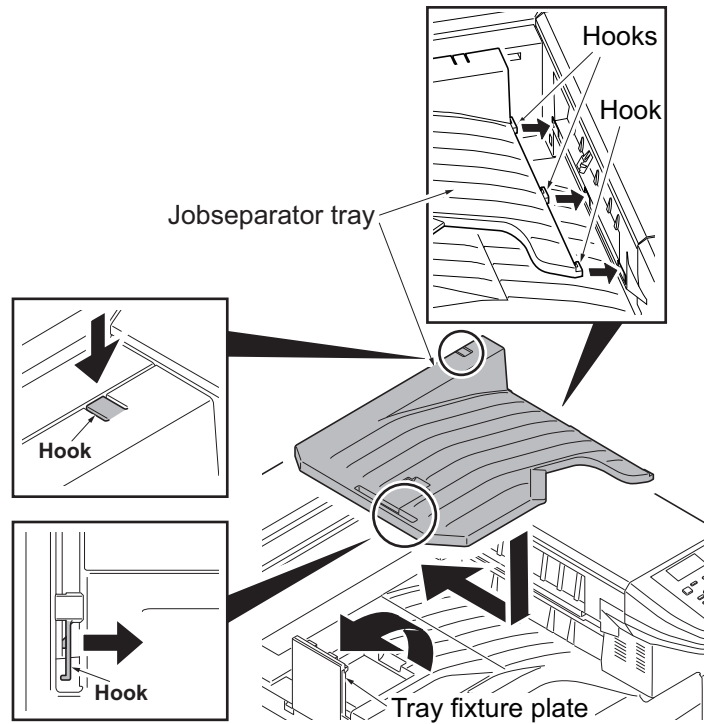


Figure 1-2-12

#### Release of lift plate stopper

1. Pull cassette 1 and 2 out.
  2. Remove the lift plate stopper from each cassette and attach it to the storage location.
- When moving the machine, attach the lift plate in original position.

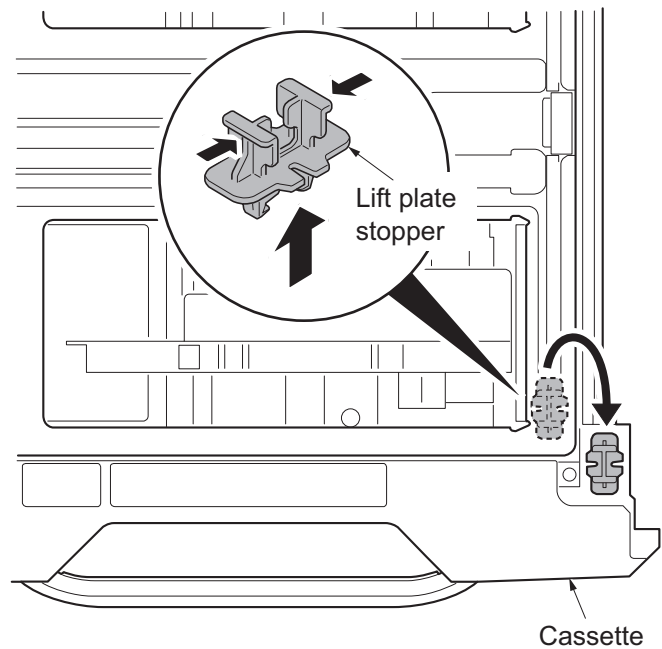


Figure 1-2-13

Loading paper

1. Squeeze the ends of the bottom of the paper length guide and move the guide to fit the length of the paper.

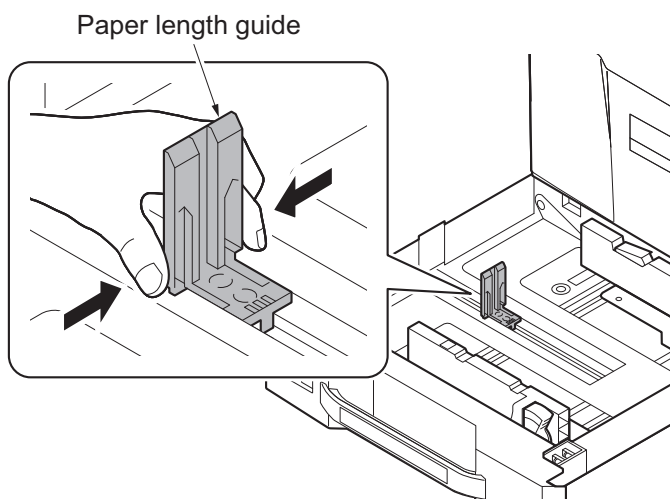


Figure 1-2-14

2. Press the guide lock lever to release the lock.
3. Grasp the paper width adjusting tab and move the paper width guides to fit the paper.

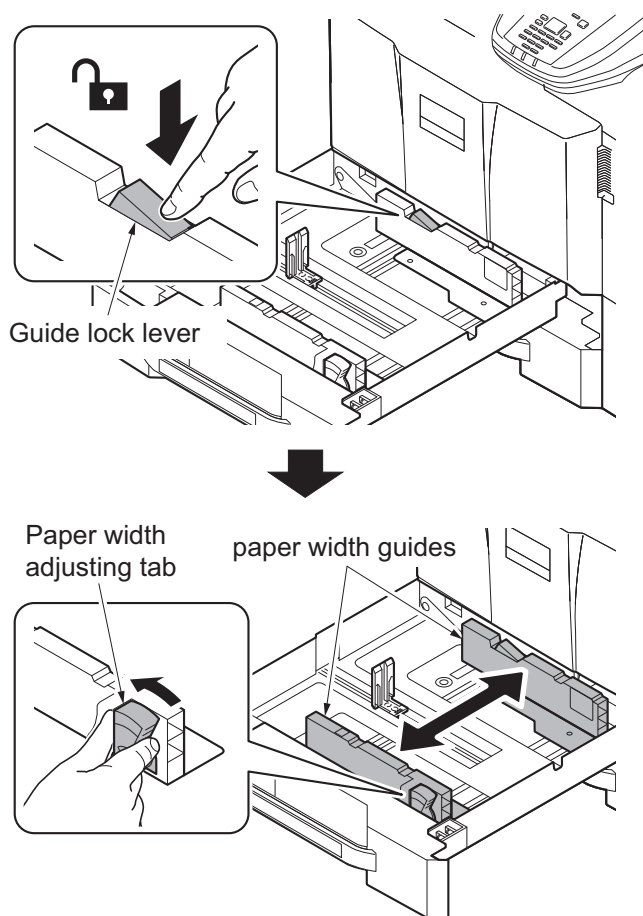
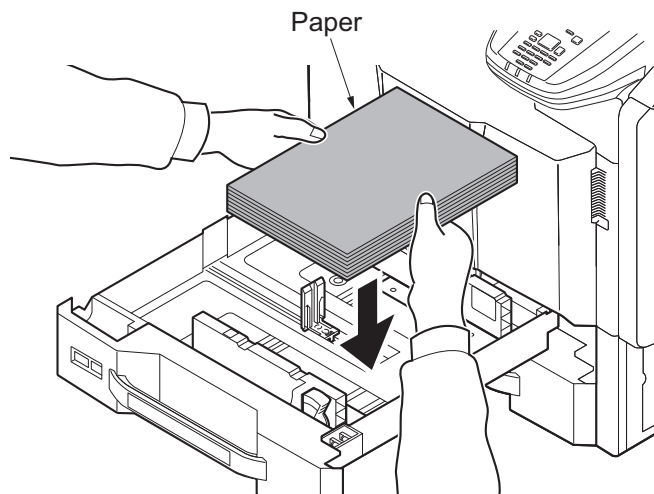


Figure 1-2-15

4. Align the paper flush against the right side of the cassette.
- \*: Before loading the paper, be sure that it is not curled or folded.
  - \*: Ensure that the loaded paper does not exceed the level indicated.
  - \*: Make sure that the paper length guide and the paper width guides are correctly abut with the paper. Be sure to remove spaces between the guides and the paper.



**Figure 1-2-16**

5. Press the guide lock lever to lock.

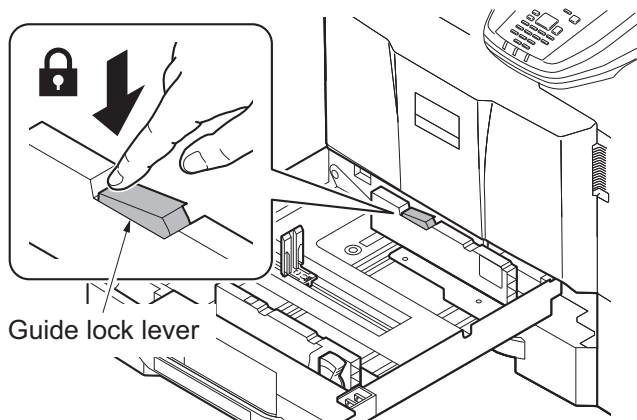


Figure 1-2-17

6. Insert the paper size plate and the paper media plate.

7. Gently push the cassette back in.

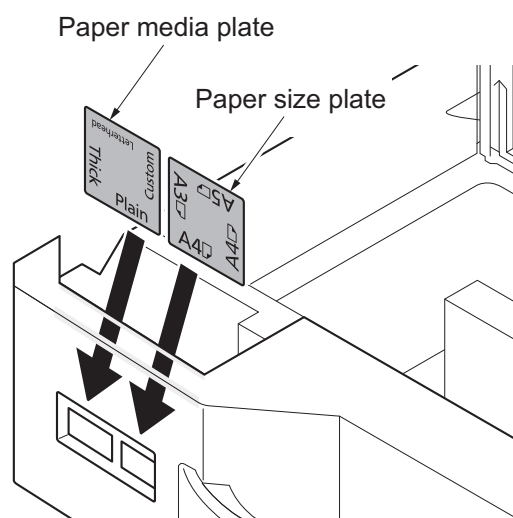


Figure 1-2-18

### Installing the toner containers

1. Open the front cover.
2. Hold the toner container vertically and hit the upper part about 3 times. Invert the toner container so that the other end is up, and hit in the same way.
3. Hold the toner container horizontally and shake from side to side about 3 times.

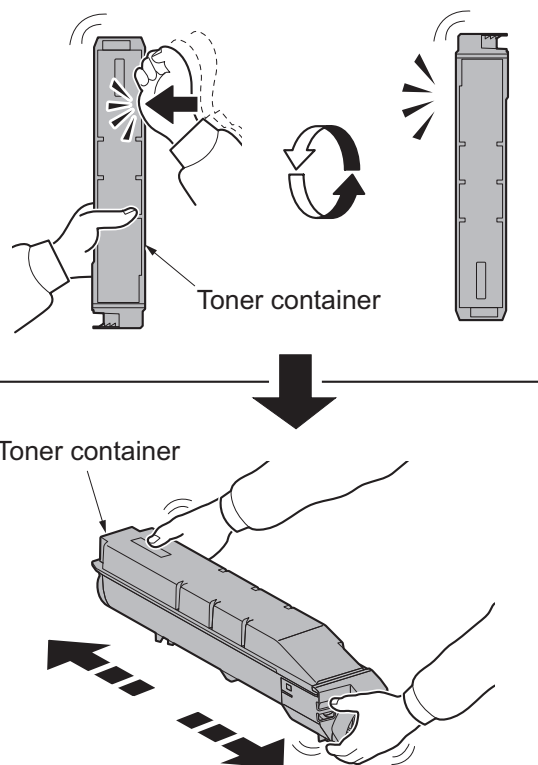


Figure 1-2-19

4. Install four color toner containers.
5. Turn down the toner container release levers to lock the four color toner containers.

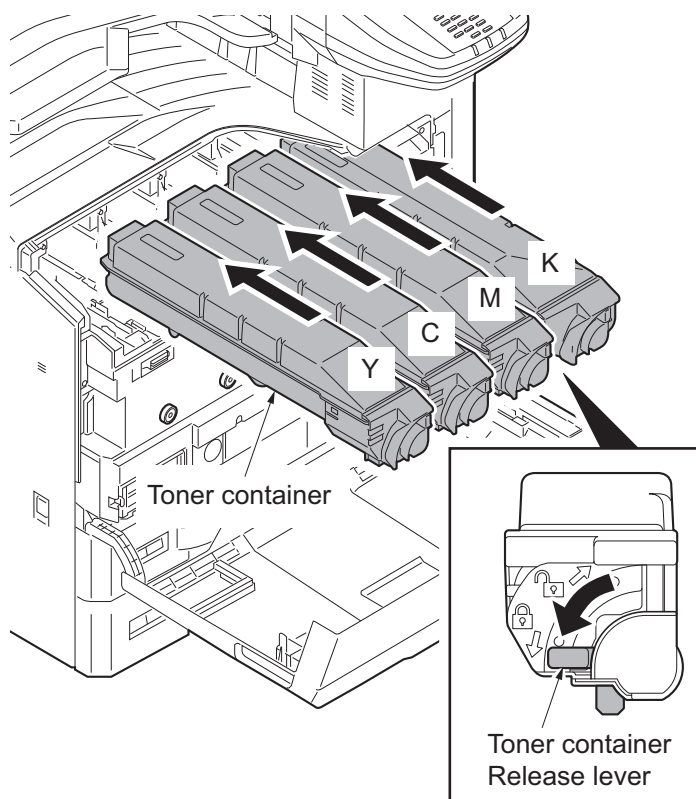


Figure 1-2-20

Unlocking the developer waste exit

**Caution**

To ease setup, the device was shipped with the developer unit already replenished with developer. Therefore, to prevent developer from spilling during shipping, a developer shutter is equipped with the developer unit.

To disengage the shutter, use the following procedure: Note that if the shutter is not completely disengaged and retained in place, the developer in the developer unit may clog at the outlet causing a damage to the developer unit.

1. Remove the tape and then remove the set up leaflet.
- \*: The setup leaflet must be affixed in position before dispatching the machine.
2. Press the fixing pin in four positions and rotate.
- \*: Fully insert the fixing pin keeping the line vertical and rotate by 90 degrees clockwise. Make sure that the central line is horizontal.

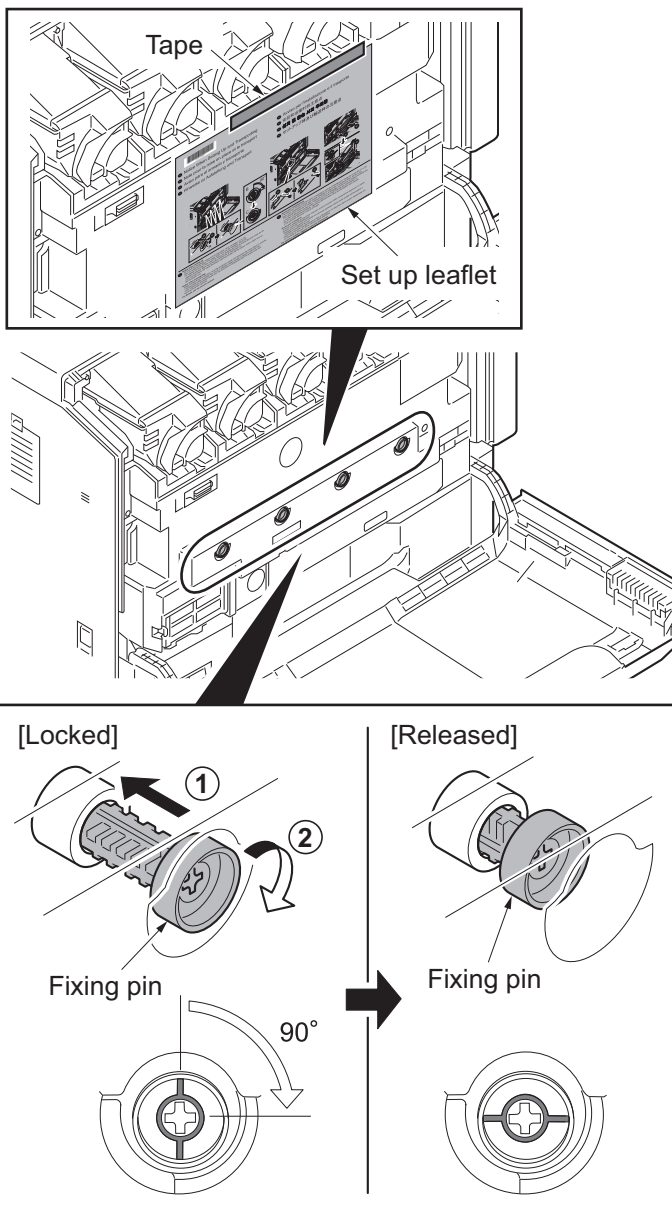


Figure 1-2-21



3. Remove a screw and slide the lever right wards.
  4. Fix the lever using the screw previously removed at the right screw hole and unlock the developer waste exit.
- \*: When the device is shipped again or removed, use the reverse procedure to lock in the developer waste exit. Failure to observe this caution could result in deteriorated print quality and/or C calls.

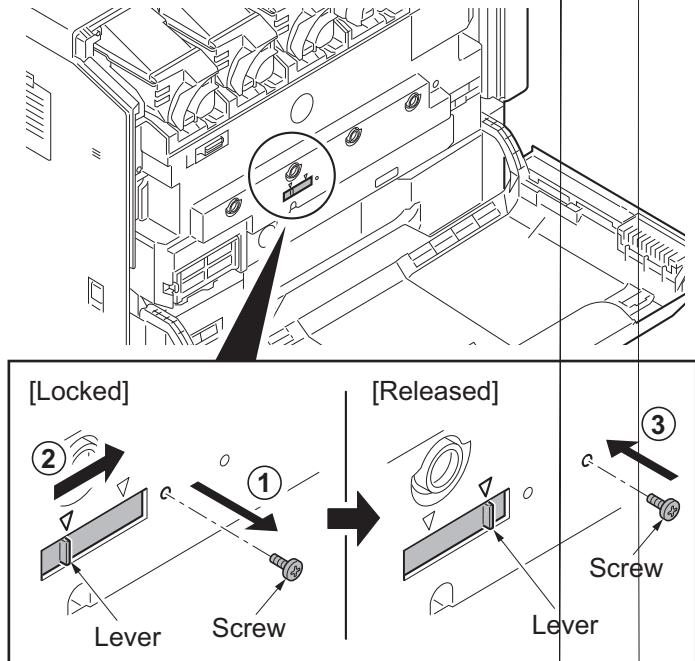


Figure 1-2-22

### Installing the waste toner box

#### Caution

Before installing the waste toner box, unlock the developer waste exit (see page 1-2-14).

1. Push the release button and pull out the waste toner tray.
2. Open the lid and install the waste toner box.
3. Push the waste toner tray back in.
4. Close the front cover.

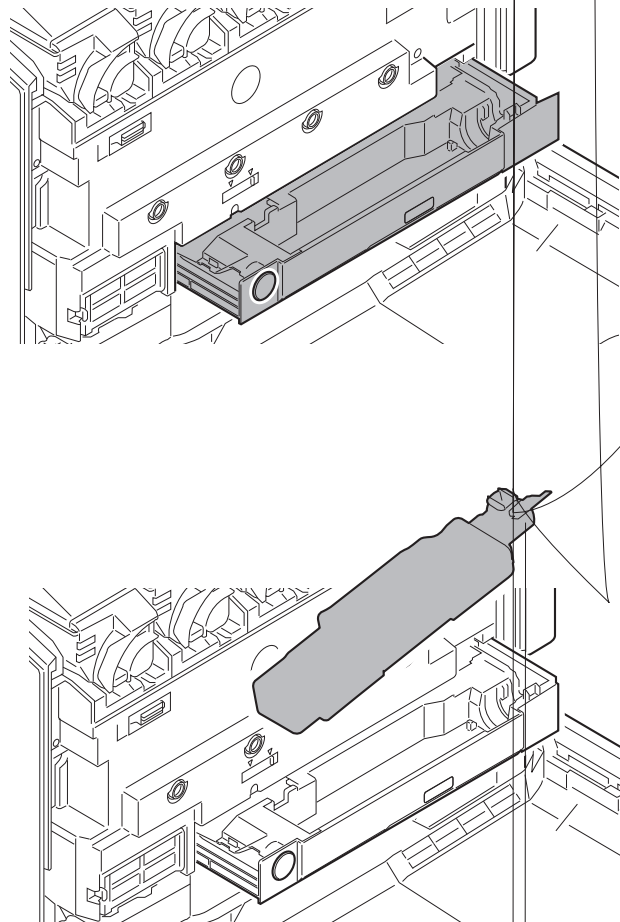


Figure 1-2-23

### Installing optional devices

1. Install the optional devices (job separator, document finisher and/or fax kit etc.) as necessary.

### Installing the cassette heater (option)

1. Install the optional cassette heater as necessary (see page 1-2-21).

### Connect the power cord

1. Connect the power cord to the power cord connector on rear lower of the machine.
2. Connect the power plug to the wall outlet.

### Adjusting the image

1. Turn the main power switch on.
2. **Check the messages on the operation panel**  
 After completion of warming up, in case to display "Warning for high temperature. Adjust the room temperature." on the operation panel, follow the step 3. (Performing Drum Refresh)  
 In case to display "Warning for low temperature. Adjust the room temperature." on the operation panel, install the machine in the other location this message won't be shown.  
 Installing the machine in a low temperature environment could cause image quality problems.  
 In case to have no display, follow the step 4 (Performing LSU cleaning).  
 \*: Perform the high altitude settings when a leakage is developed on images in a high altitude installation, such as in Mexico City.  
 U140 - AC Calb - High Altitude - Mode 2
3. **Performing drum refresh (see the operation guide)**  
 Press the Menu key.  
 In the Adjust/Maint. menu screen, press cursor key to select Service Setting.  
 Press the OK key.  
 In the Service Setting. menu screen, press cursor key to select [Durm].  
 Press [OK]. A confirmation screen appears.  
 Press [Yes] ([Left select key]).

#### 4. Performing LSU cleaning (see the operation guide)

In the Adjust/Maint. menu screen, press cursor key to select Service Setting.

Press the OK key.

In the Service Setting. menu screen, press cursor key to select [LSU].

Press the OK key. A confirmation screen appears.

Press [Yes] ([Left select key]).

#### 5. Performing calibration

(see the operation guide, U464 Setting the ID correction operation - performing calibration)

In the Adjust/Maint. menu screen, press cursor key to select ColorCalibration.

Press the OK key. A confirmation screen appears.

Press [Yes] ([Left select key]).

#### \*: Performing color registration (see the operation guide, U469 Adjusting the color registration)

**Print Chart (Printing the color registration correction chart)**

In the Adjust/Maint. menu screen, press cursor key to select Color Regist.

Press the OK key.

In the Color Regist menu screen, press cursor key to select Detail.

Press the OK key.

In the Detail menu screen, press cursor key to select [Print Chart].

Press the OK key. A confirmation screen appears.

Press [Yes] ([Left select key]).

#### **Adjust Magenta**

In the Adjust/Maint. menu screen, press cursor key to select Color Regist.

Press the OK key.

In the Color Regist menu screen, press cursor key to select Detail.

Press the OK key.

In the Detail menu screen, press cursor key to select [Adjust Magenta].

Press the OK key. The Adjust Magenta screen appears.

In the H and V charts for magenta printed in Print Chart above, note the values where the lines are closest to forming a single straight line.

\*: Values corrected are H-1, H-2, H-3, H-4, H-5, H-6, H-7, V-3.

Highlight the read value using the cursor up or down key and fill the other entries using the left and right cursor keys.

When you have completed all the values, press the OK key.

The setting is saved and you are returned to the Color Regist. Detail menu screen.

#### **Adjust Cyan and Adjust Yellow**

In the Detail menu screen, press cursor key to select [Adjust Cyan] or [Adjust Yellow].

Press the OK key. The Adjust Cyan or Adjust Yellow screen appears.

Using the same procedure as for magenta above, identify the cyan and yellow values in the color registration correction chart and set them in the printer.

#### 6. Make test prints.

If image quality is unsatisfactory after test printing, execute calibration, then retry U410-Adjusting the halftone automatically.

Setting the delivery date (maintenance item U278)

1. Press the menu key while pressing and holding the OK and down cursor keys simultaneously.

2. Enter the maintenance mode by entering 10871087 using the numeric keys. (see page P.1-3-1)
3. Enter 278 using the numeric keys and press the Ok key.
4. Select [Today].
5. Press the Ok key. The delivery date is set.
6. Press the Back key to exit.

Output an own-status report (maintenance item U000)

1. Enter 000 using the numeric keys and press the Ok key.
2. Select [Maintenance] and press the Ok key. A status report is output.
3. Press the back key to exit.

Exit maintenance mode

1. Enter 001 using the numeric keys and press the Ok key. The machine exits the maintenance mode.

Print out the user setting list

1. Select [Report Print] to output the user various setting reports.

Completion of the machine installation

## (2) Shut-down

To turn main power off, be sure to perform the following before turning the main power switch off.

- \*: Before proceeding, make sure that the data lamp is turned off.
- \*: The hard disk may be operating when the Data indicator is lit or blinking. Turning off the main power switch while the hard disk is operating may cause damage.

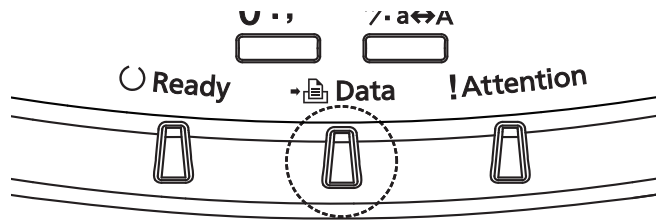


Figure 1-2-24

1. Press menu key.
2. Press the cursor key to select Shut down.
3. Press OK key. A confirmation screen appears.
4. Press [Yes] (Left Select key).
5. Follow the instructions on the display to turn the main power switch off.

Shut down.  
Are you sure?

[ Yes ] [ No ]

Completed.  
Turn the main power  
switch off.

Figure 1-2-25

**(3) Setting initial print modes**

Factory settings are as follows:

<b>Maintenance item No.</b>	<b>Contents</b>	<b>Factory setting</b>
U253	Switching between double and single counts	DBL(A3/Ledger)
U260	Selecting the timing for print counting	Eject
U285	Setting service status page	On
U323	Setting abnormal temperature and humidity warning	On
U325	Setting the paper interval	Off/1
U327	Setting the cassette heater control	Off

## 1-2-3 Installing the cassette heater (option)

Cassette heater installation requires the following parts:

Parts	Quantity	Part.No.
Cassette heater set (120V)	1	302K994930
Cassette heater set (240V)	1	302K994940

Supplied parts of cassette heater set (302K994930):

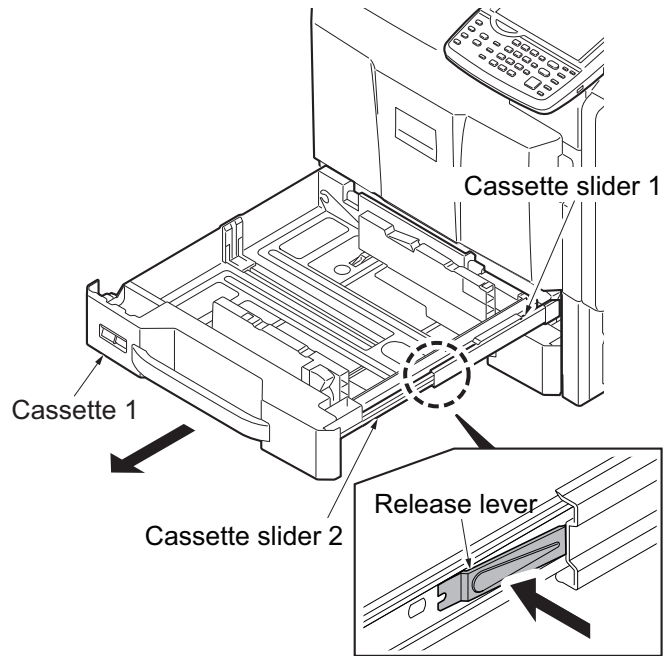
Parts	Quantity	Part.No.
Cassette heater (120V)	1	302H794620
Wire saddle	3	7YZM610001++H0
Label	1	302KP34220
Connector cover	1	303NF04140
M3 x 8 tap-tight S screw	2	7BB700308H
M4 x 8 tap-tight S screw	1	7BB700408H

Supplied parts of cassette heater set (302K994940):

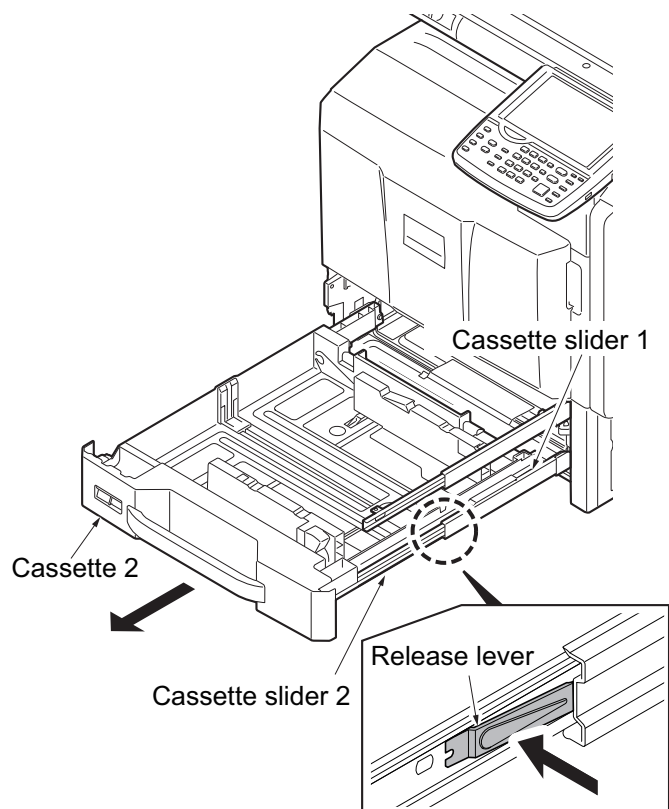
Parts	Quantity	Part.No.
Cassette heater (240V)	1	302H794610
Wire saddle	3	7YZM610001++H0
Label	1	302KP34220
Connector cover	1	303NF04140
M3 x 8 tap-tight S screw	2	7BB700308H
M4 x 8 tap-tight S screw	1	7BB700408H

**Procedure**

1. After confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle(see page P.1-2-19).
2. Pull the cassette 1 forward.
3. Draw out Cassette 1 by releasing the release lever.

**Figure 1-2-26**

4. Pull the cassette 2 forward.
5. Draw out Cassette 2 by releasing the release lever.

**Figure 1-2-27**



6. Fit three wire saddles on the bottom frame of the machine.
7. Fit the cassette heater using two M3 x 8 screws.

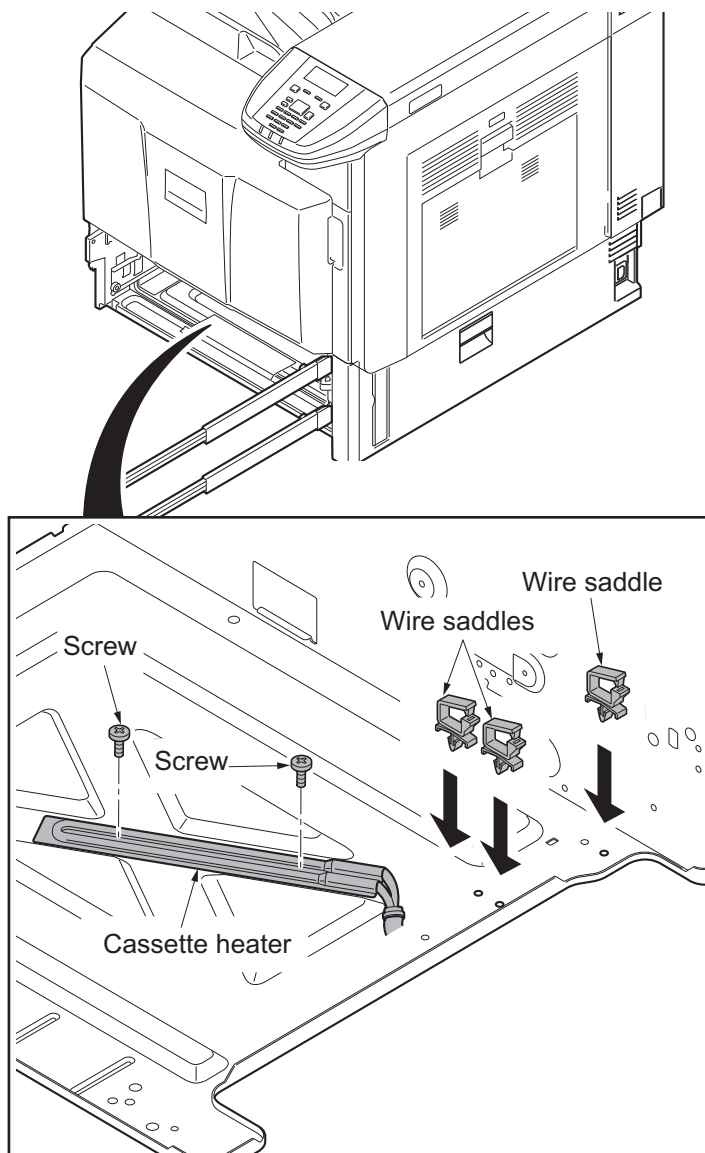
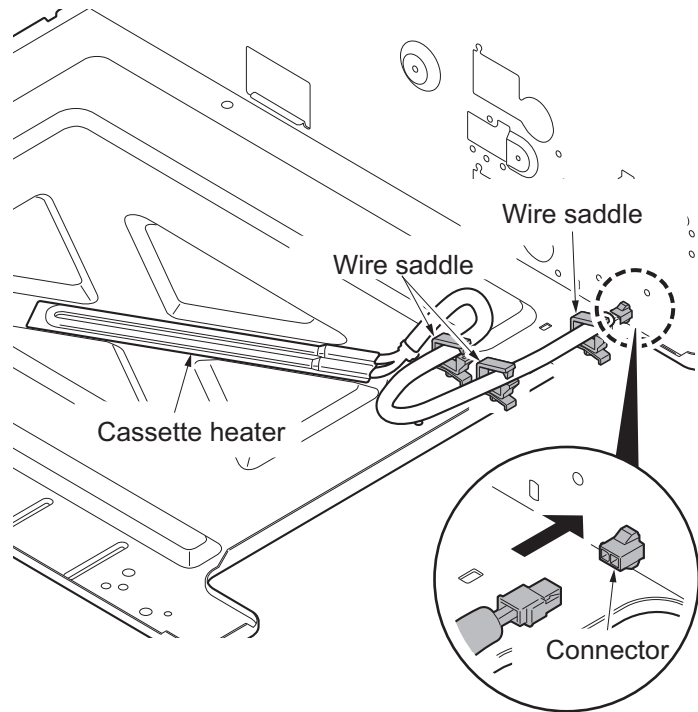


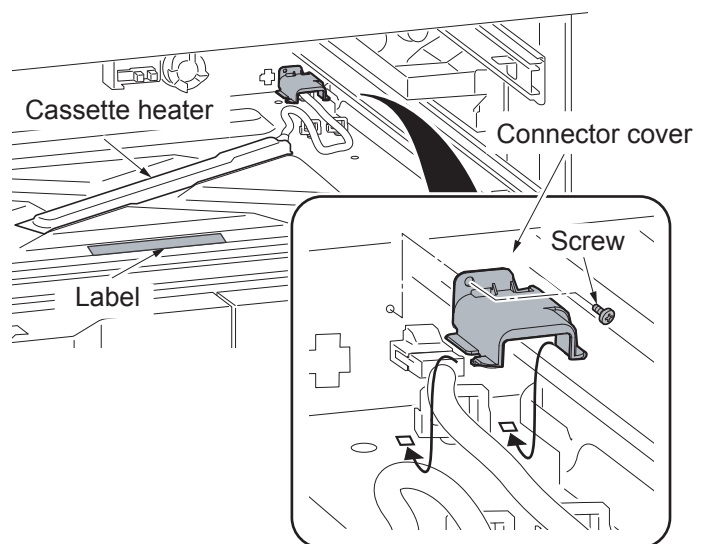
Figure 1-2-28

8. Connect the connector of the cassette heater to the connector in the rear frame of the machine.
9. Pass the wire of the cassette heater through three wire saddles and then fasten the wire.



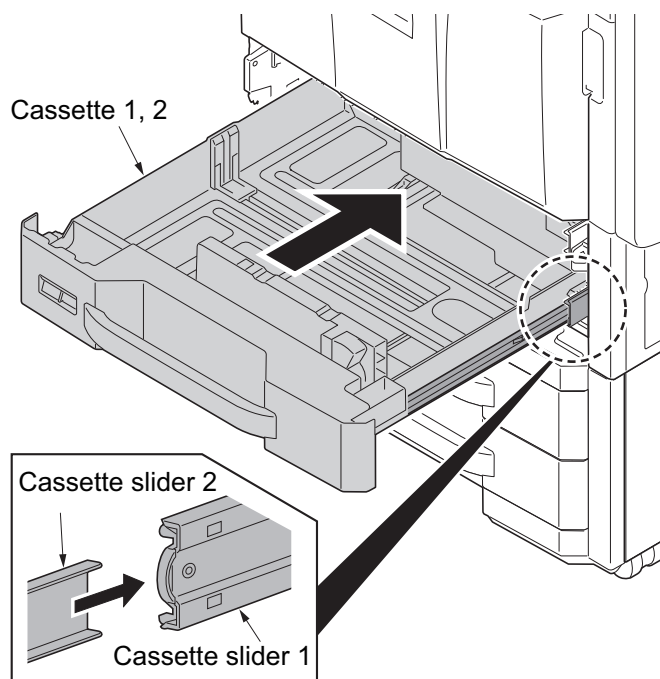
**Figure 1-2-29**

10. After installing the cassette heater, install the connector cover using the M4 × 8 screw.
11. Clean the label with alcohol and then affix the label.



**Figure 1-2-30**

12. To install Cassette 1 and Cassette 2, align the cassette slider 2 and cassette slider 1 with each other.
13. Push the cassette in fully.



**Figure 1-2-31**

## 1-2-4 Installing the gigabit ethernet board (option)

Gigabit ethernet board installation requires the following parts:

Parts	Quantity	Part.No.
Gigabit ethernet board	1	1505JV0UN0 (option)

### Procedure

1. After confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle (see page P.1-2-19).
2. Open the controller lid.
3. Remove two pins and then remove the slot cover.

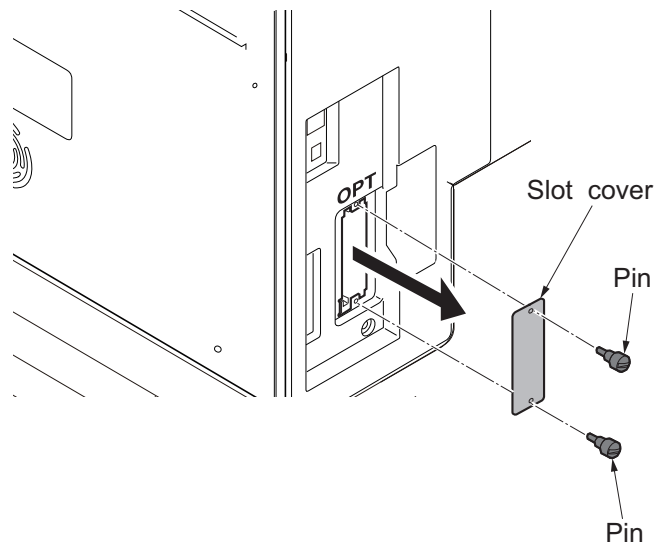


Figure 1-2-32

4. Insert the gigabit ethernet board along the groove in OPT2 and secure the board with two pins that have been removed in step 3.
- \*: Do not directly touch the gigabit ethernet board terminal.  
Hold the top and bottom of the gigabit ethernet board, or the projection of the board to insert the gigabit ethernet board.

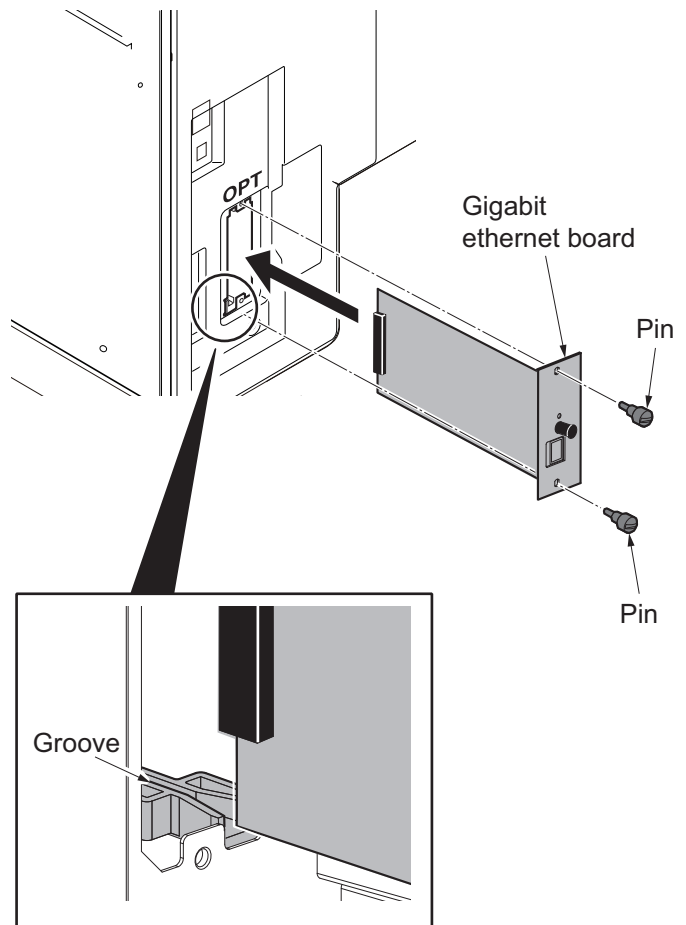


Figure 1-2-33

5. Plug the modular connector cable into the line terminal,
6. Close the controller lid.

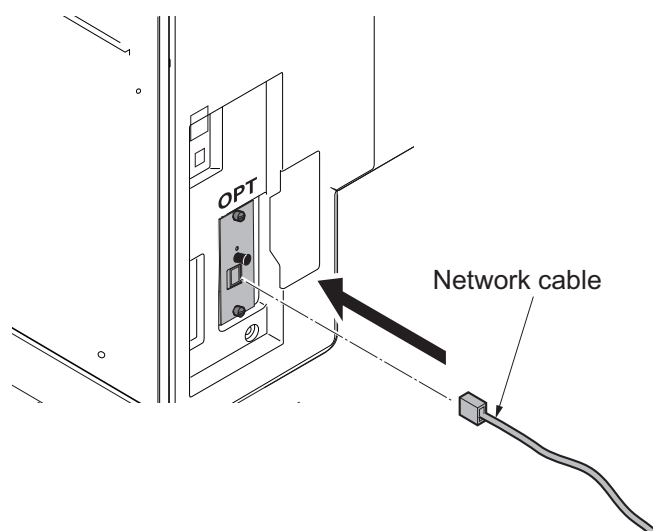


Figure 1-2-34

## 1-2-5 Installing the IC card reader holder (option)

IC card reader holder installation requires the following parts:

Parts	Quantity	Part.No.
IC card reader holder	1	1709AD0UN0 (option)
Relaying USB wire*	1	302MN46210

\*1: For internal wirings only

Supplied parts of IC card reader holder (1709AD0UN0):

Parts	Quantity	Part.No.
Card reader case	1	-
Card reader base	1	-
Card reader mount	1	-
Card reader tray	1	-
USB Wire (For extension)	1	-
Pin	3	303NS24410
Clamp	6	7YZM690002++H01

The card reader base, card reader mount, and the pin are packaged as an assembled kit.

### For internal wirings Procedure

1. After confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle(see page P.1-2-19).
2. Pull the paper conveying unit out.
3. Remove two screws and then remove the upper right cover.

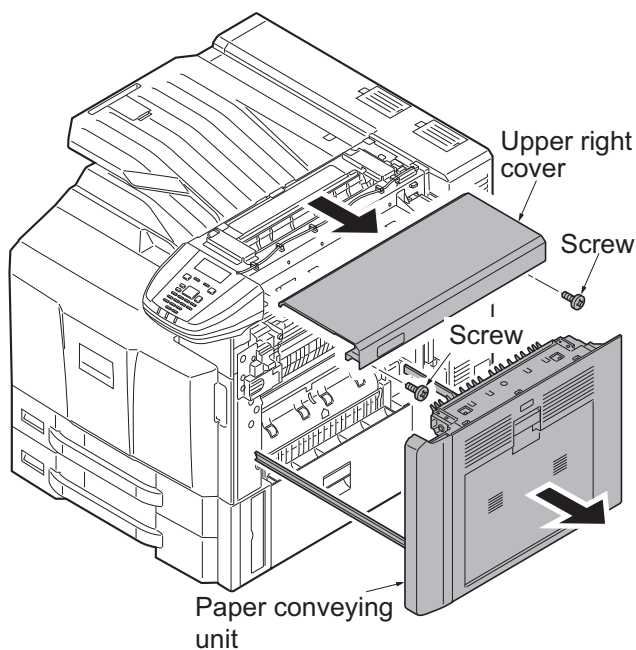
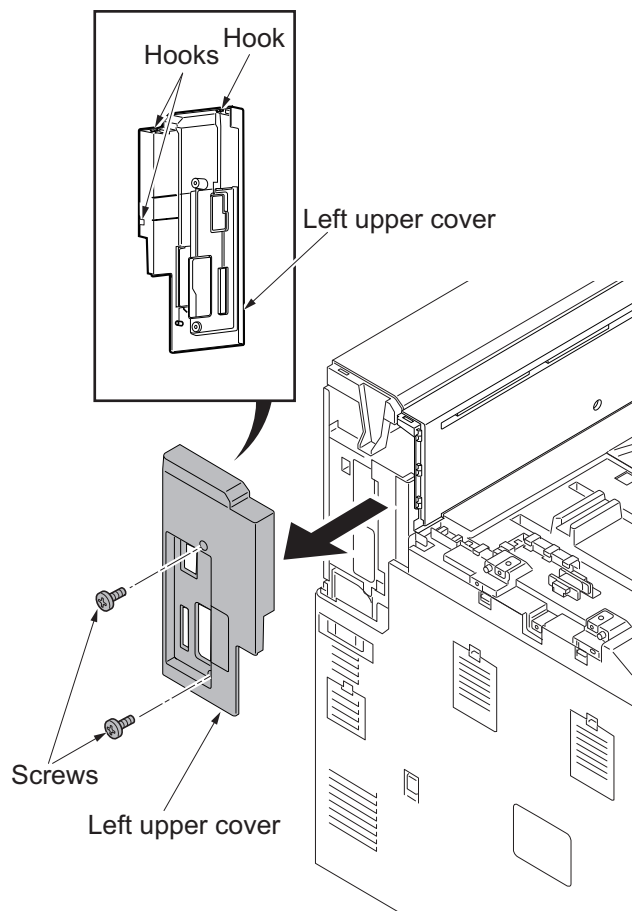
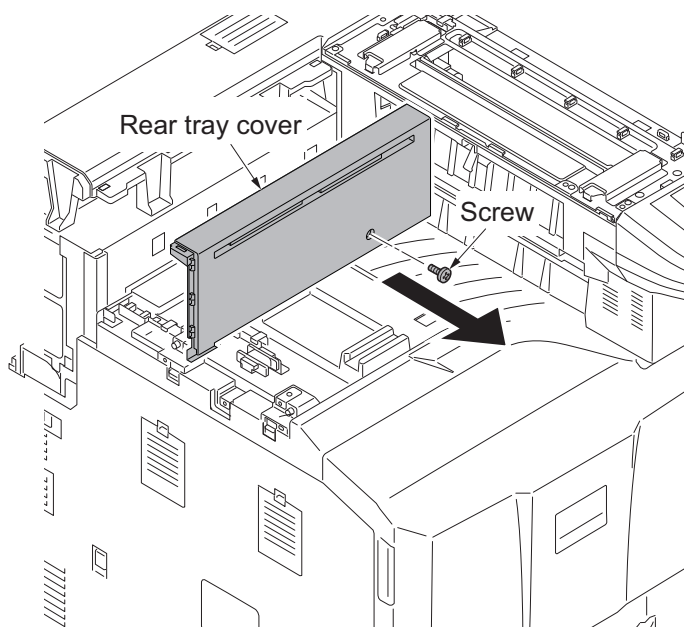


Figure 1-2-35

4. Remove two screws.
5. Unhook three hooks and then remove the Left upper cover.

**Figure 1-2-36**

6. Remove screw and then remove the rear tray cover.

**Figure 1-2-37**

7. Remove seven screws and then remove the rear upper cover.

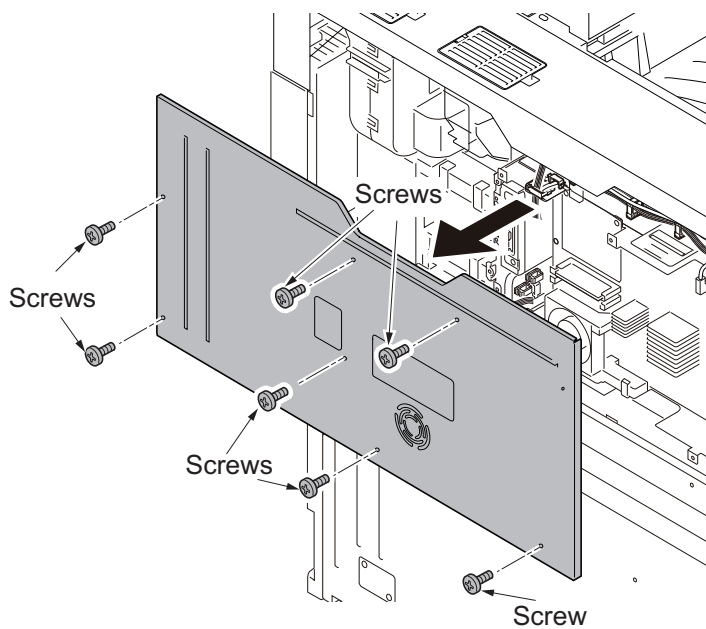
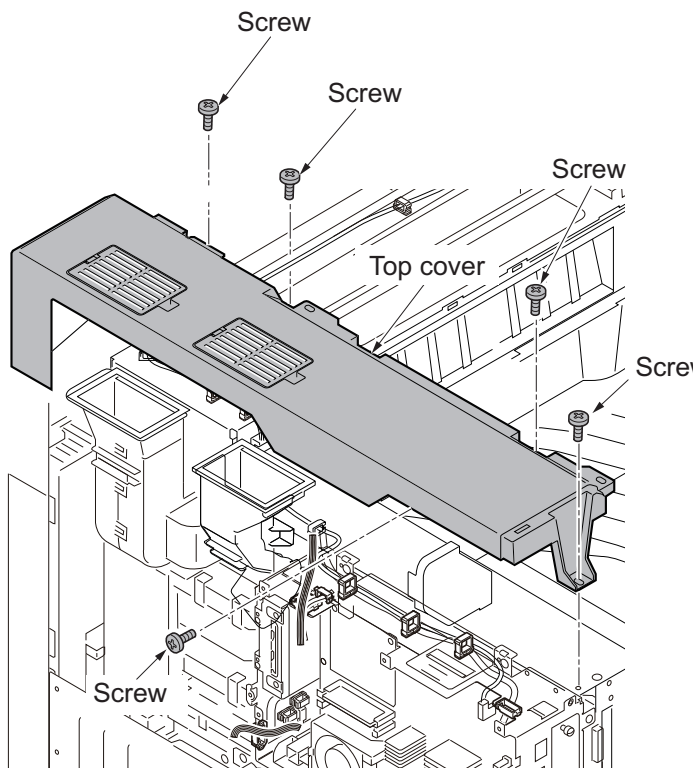


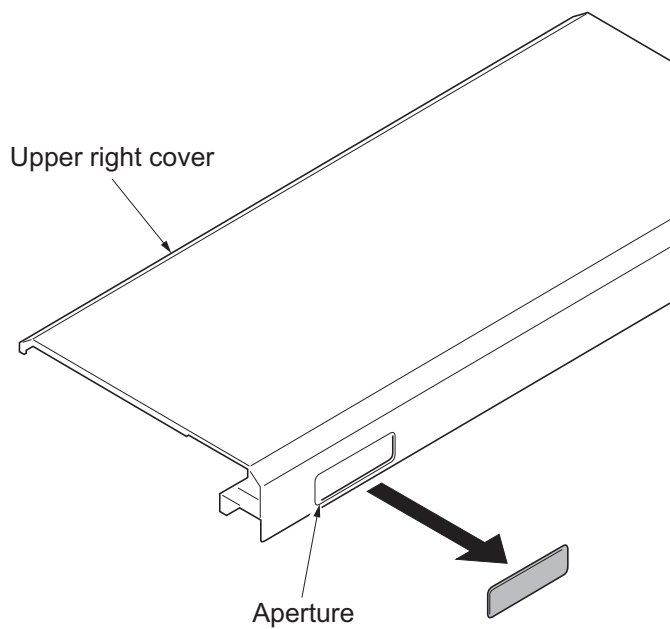
Figure 1-2-38

8. Remove five screws and then remove the Top cover.



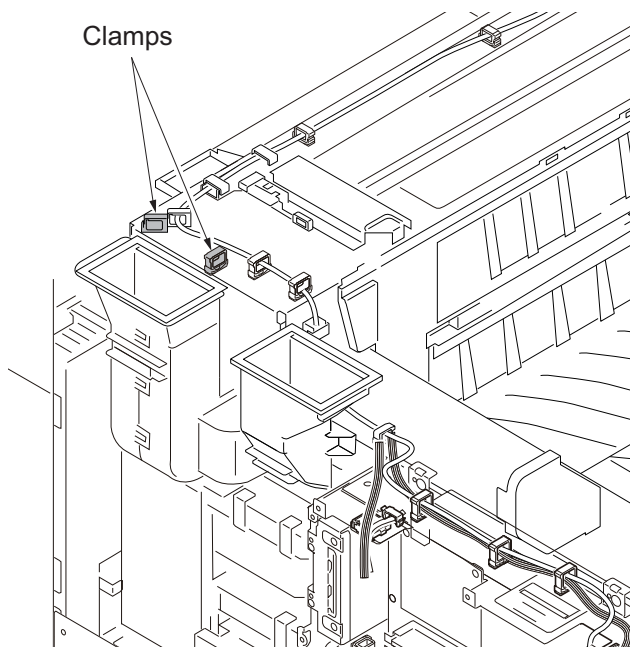


- 9. Cut out the aperture plate on the upper right cover using nippers.



**Figure 1-2-40**

- 10. Fit two clamps.



**Figure 1-2-41**

11. Fit four clamps.

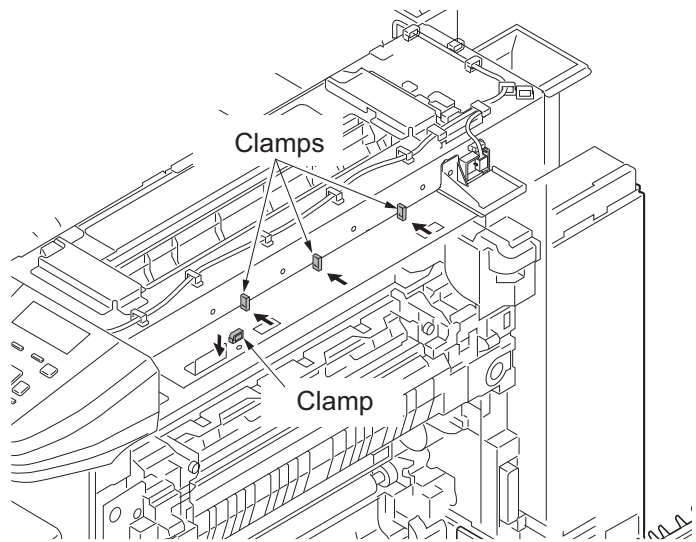


Figure 1-2-42

- 12. Release ten wire saddles.
- 13. Remove two wire holders.

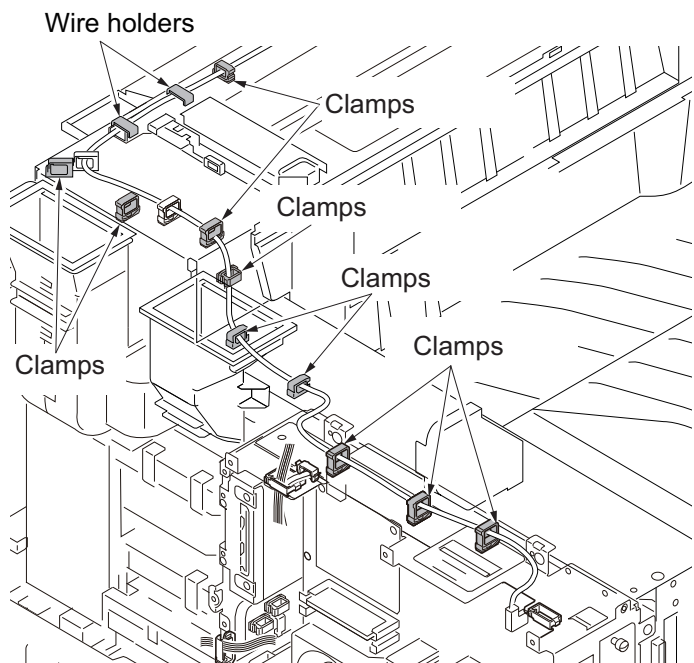
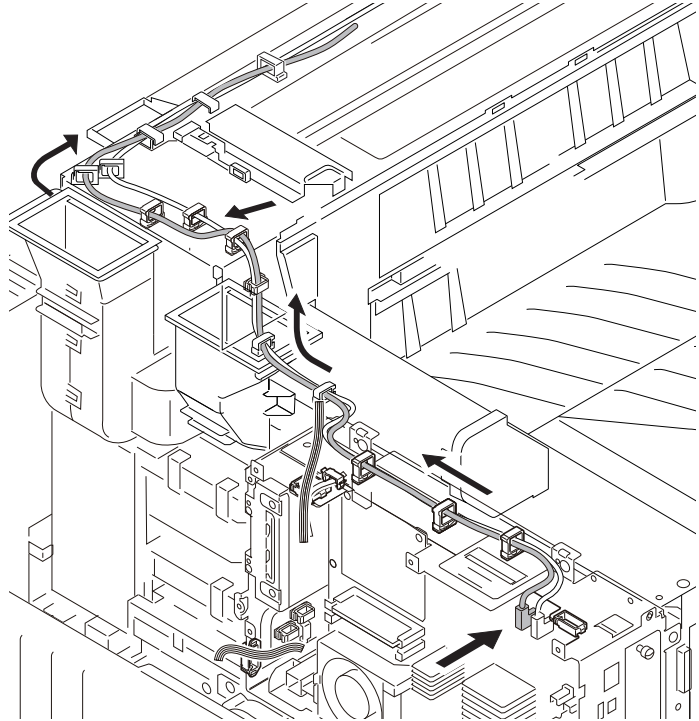


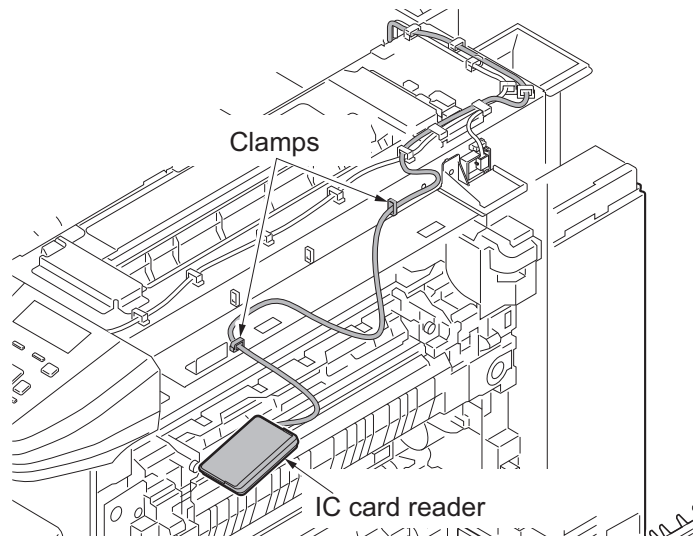
Figure 1-2-43

14. Connect the relaying USB wire to the USB wire of the IC card reader.
15. Insert the connector of the relaying USB wire to the main PWB.
16. Fix the USB wire of the IC card reader using ten wire saddles and two wire holders.



**Figure 1-2-44**

17. Pass the USB wire of the IC card reader through two clamps and then fasten the wire.



**Figure 1-2-45**

18. Fix the wirings of extra portion using two clamps so that the distance of the USB power line from the clamp to the IC card reader is approximately 160mm.

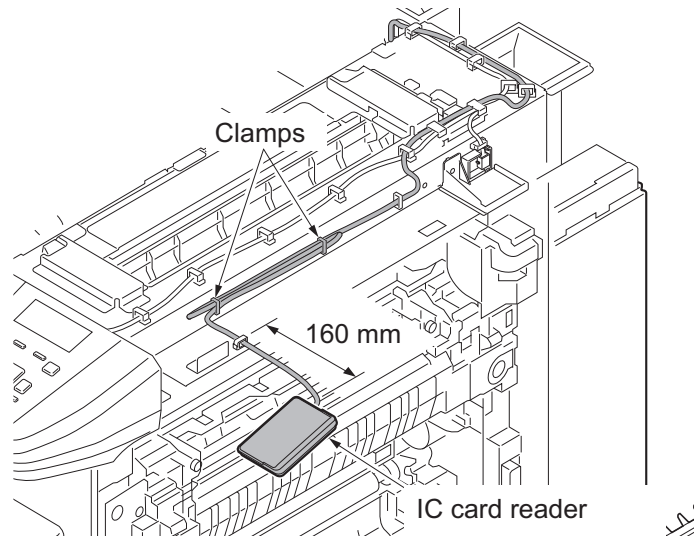


Figure 1-2-46

19. Route the IC card reader through the opening in the upper right cover and fix the upper right cover using the two screws.

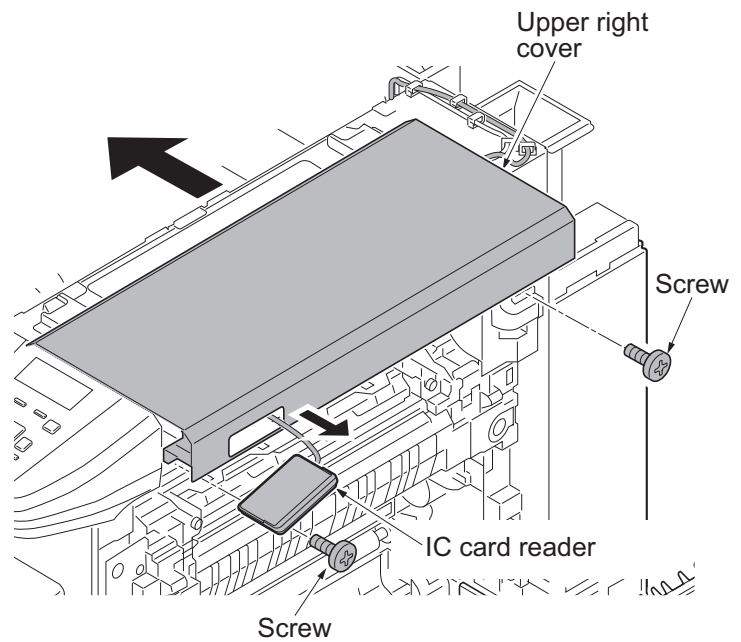
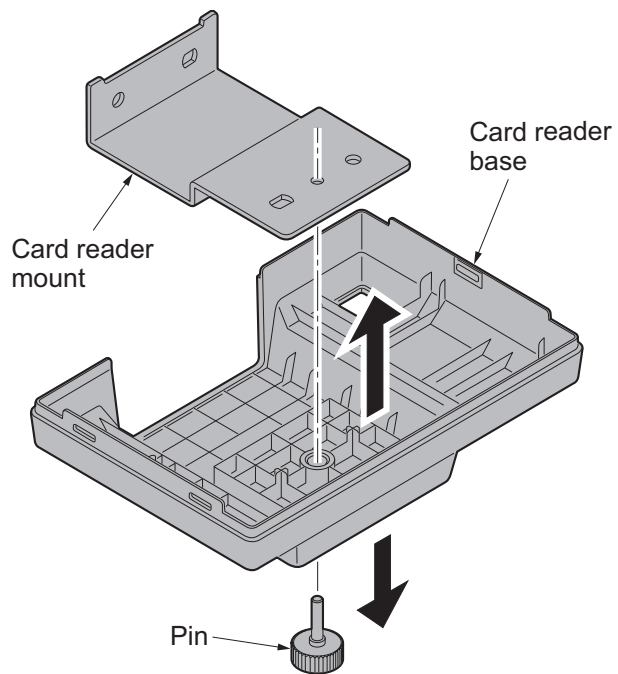


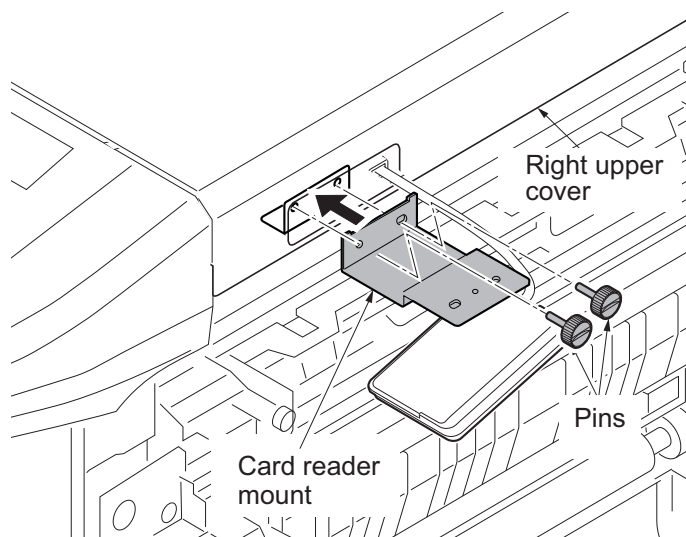
Figure 1-2-47

20. Remove the pin of the card reader base and then remove the card reader mount.



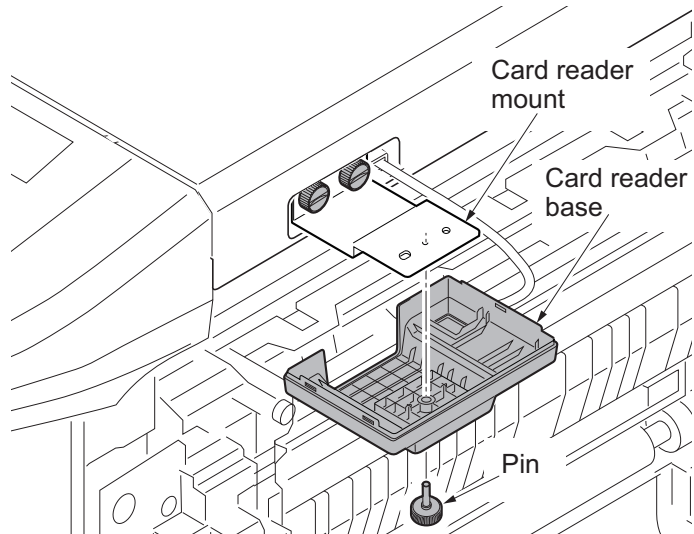
**Figure 1-2-48**

21. Fit the card reader mount to the machine using two pins.



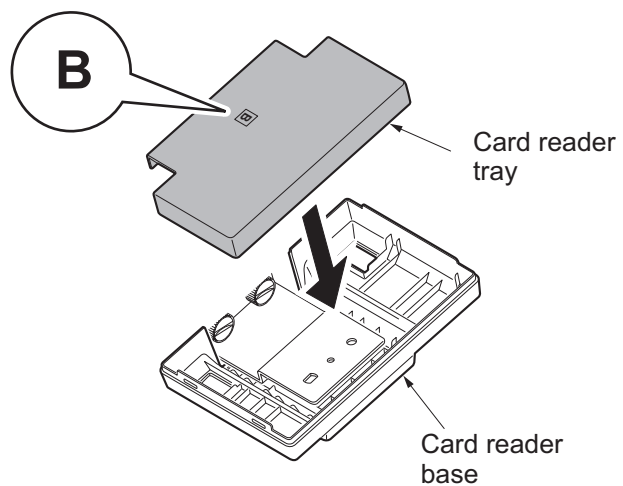
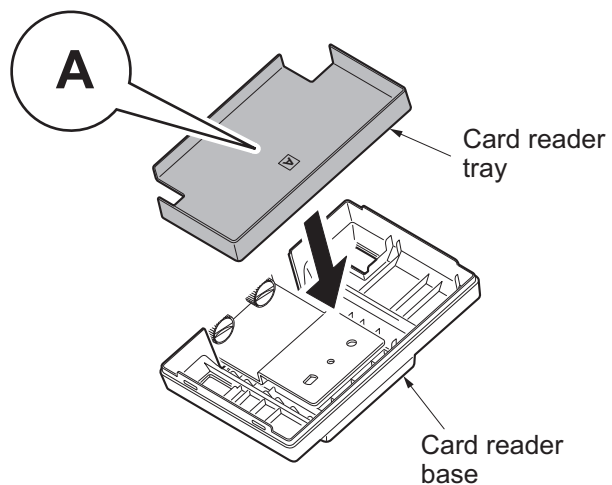
**Figure 1-2-49**

22. Refit the card reader base to card reader mount using the pin removed in step 20.



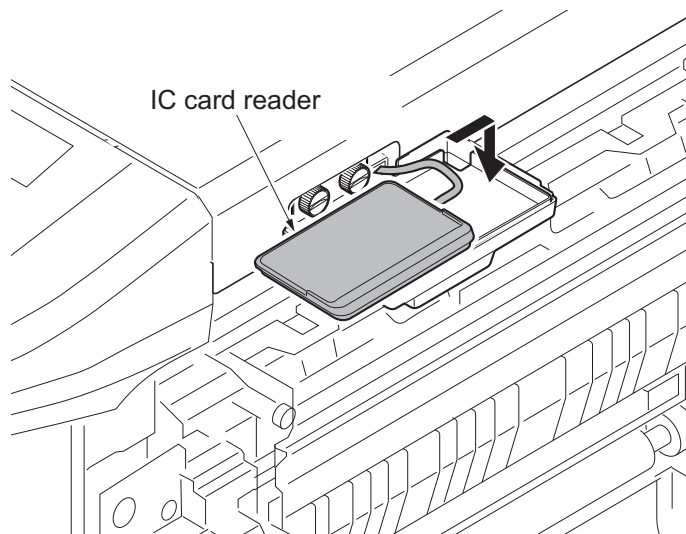
**Figure 1-2-50**

23. Fit the card reader tray to the card reader base.  
 Choose the direction of mounting the IC card reader according to the depth of the reader.  
 10mm to 22mm: Face the mark A upwards.  
 Less than 10mm: Face the mark B upwards.



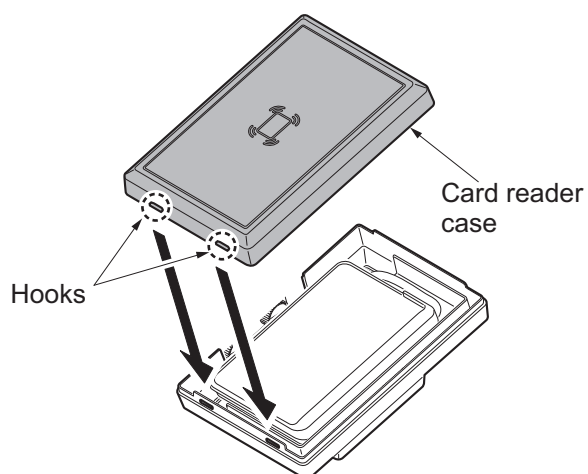
**Figure 1-2-51**

24. Mount the IC card reader on the card reader base.



**Figure 1-2-52**

25. Hook the two hooks of the card reader case to fit the card reader case to the card reader base.  
Press its top until it clicks in.

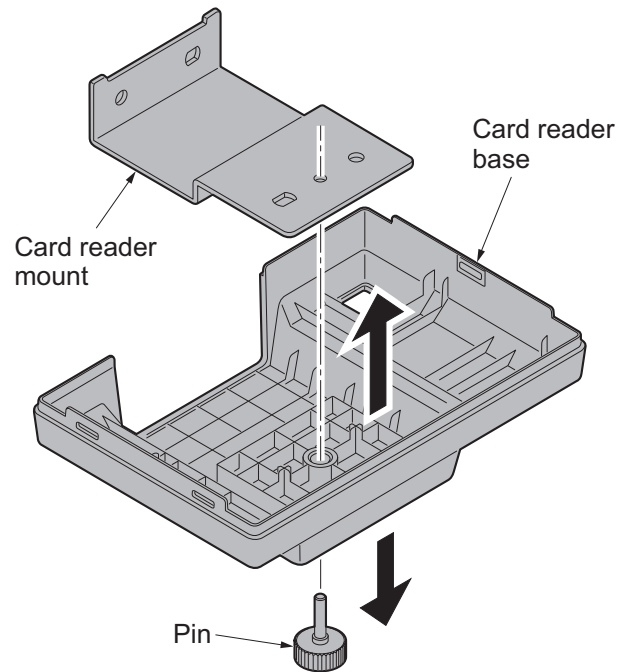


**Figure 1-2-53**

26. Replace the cover which was removed.

## For external wirings Procedure

1. After confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle(see page P.1-2-19).
2. Remove the pin of the card reader base and then remove the card reader mount.



**Figure 1-2-54**

3. Remove the upper right cover (see page P.1-2-28).
4. Cut out the aperture plate on the upper right cover using nippers (see page P.1-2-31).
5. Replace the cover which was removed.
6. Fit the card reader mount to the machine using two pins.

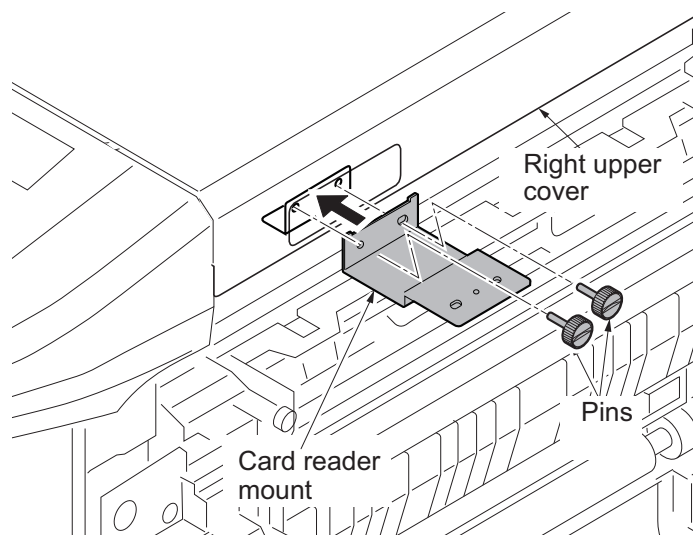




Figure 1-2-55

7. Refit the card reader base to card reader mount using the pin removed in step 2.

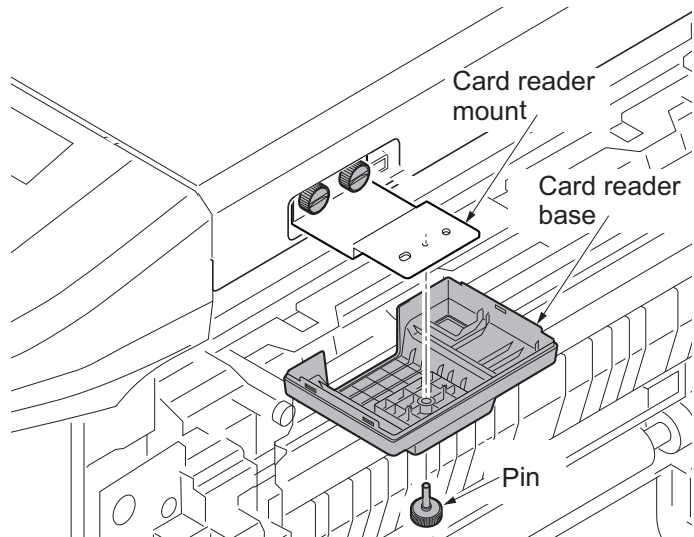


Figure 1-2-56

8. Fit the card reader tray to the card reader base.  
 Choose the direction of mounting the IC card reader according to the depth of the reader.  
 10mm to 22mm: Face the mark A upwards.  
 Less than 10mm: Face the mark B upwards.

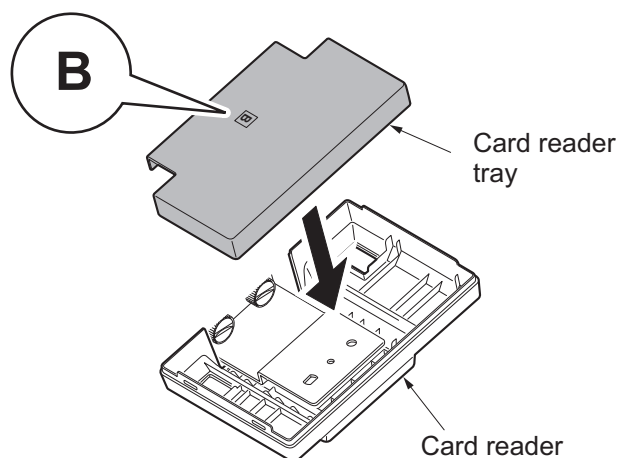
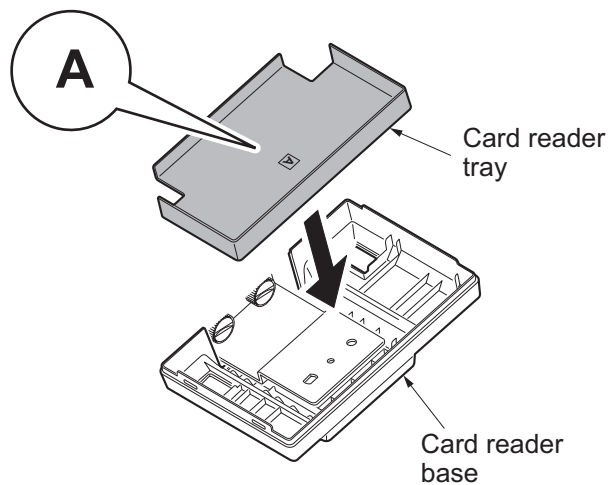


Figure 1-2-57

9. Route the USB wire of the IC card reader through the aperture of the card reader base and mount the IC card reader on the card reader base.

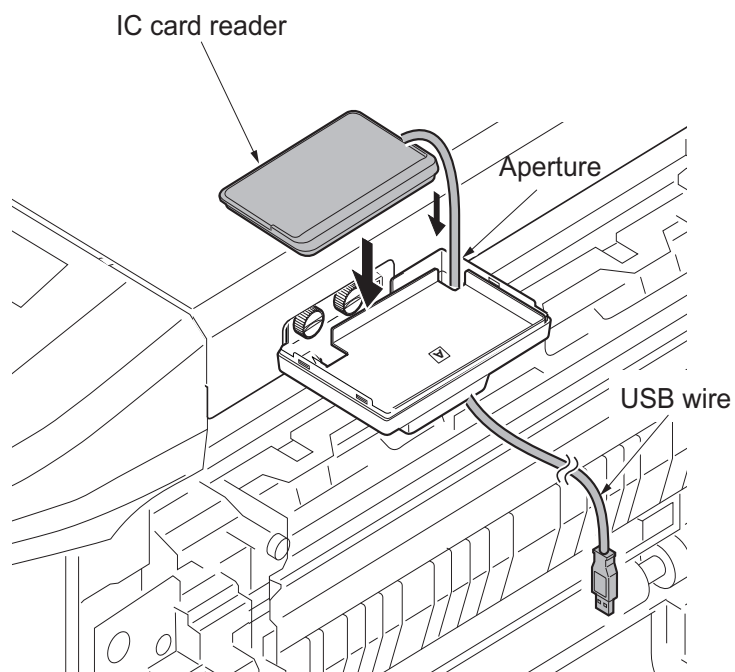


Figure 1-2-58

10. Hook the two hooks of the card reader case to fit the card reader case to the card reader base.  
Press its top until it clicks in.

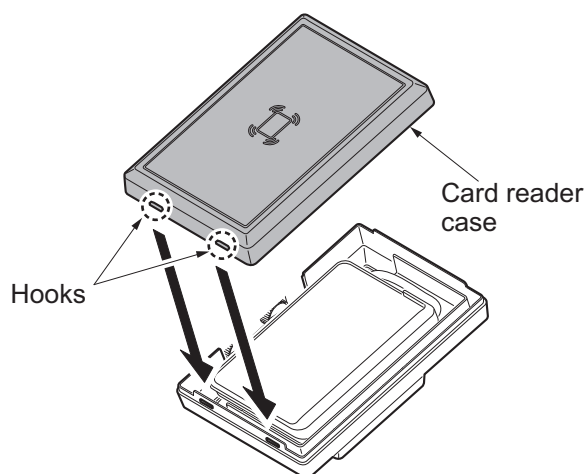


Figure 1-2-59

11. Fit six clamps.  
Right side: three  
Rear side: three

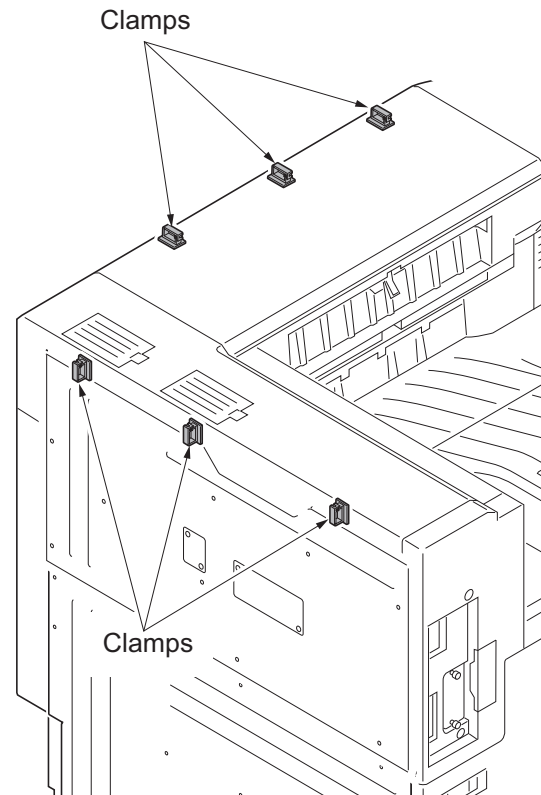


Figure 1-2-60

12. Pass the USB wire of the IC card reader through six clamps and then fasten the wire.
13. Connect the USB wire to the machine.  
If the length does not suffice, use the USB wire supplied.

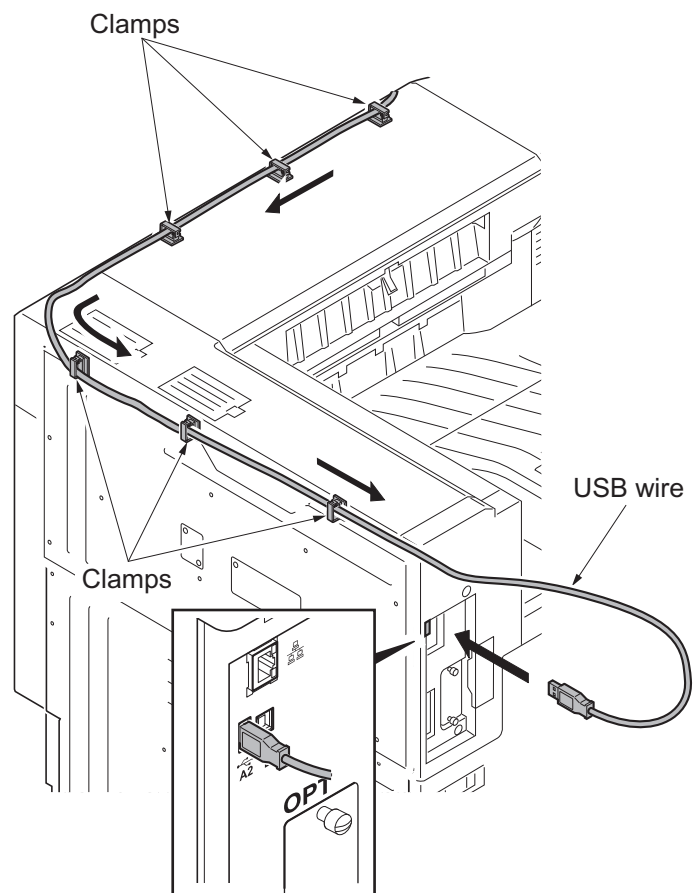


Figure 1-2-61

## Enabling IC Card Authentication

### Precautions

To install the optional function, you need the License Key. Please access the designated web site of your dealer or service representative, and register "Machine No." indicated on your machine and "Product ID" indicated on the License Certificate supplied with the product to issue the License Key.

1. Turn the main power switch on.
  2. Press [Menu].
  3. Select Op Function. Press OK key.
  4. The Login screen appears.
  5. With the Login User Name entry field selected, press OK key. The Login User Name entry screen is displayed.
  6. Enter the Login User Name using the numeric keys then press OK key.
  7. Select the Login Password entry field. press OK key.
  8. Enter the Login Password with the numeric keys then press OK key.
  9. Pressing [Login] ([Right Select]).
  10. The Op Functions menu appears.
  11. Select the IC Card, then press OK key.
  12. Select the License On. then press OK key.
  13. Select the Official. then press OK key.
  14. To use the application as a trial, select Trial and press OK key.
  15. Enter the License key using the numeric keys.
  16. When the confirmation screen appears, press [Yes] ([Left Select]).
- To use a SSFC card, run maintenance mode U222 and set SSFC.

## 1-2-6 Installing the duct unit (option)

Duct unit installation requires the following parts:

Parts	Quantity	Part.No.
Duct unit	1	302LC94530

Supplied parts of duct unit (302LC94530):

Parts	Quantity	Part.No.
Duct A	1	-
Duct B	1	-
Filter	2	-
M3 x 8 tap-tight P screw	2	7BB200308H
M3 x 8 tap-tight P screw (black)	1	7BB282308H
M3 x 8 tap-tight S screw (black)	2	7BB782308H

\*: This option unit cannot be installed together with the finisher.

### Procedure

1. After confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle(see page P.1-2-19).
2. Fit duct B to duct A using two M3 x 8 tap-tight P screws.

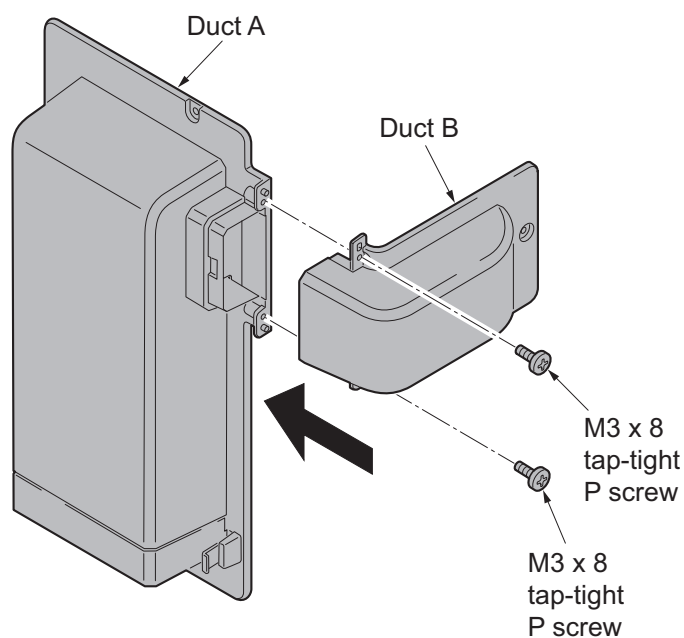


Figure 1-2-62

3. Fit two filters to duct A.

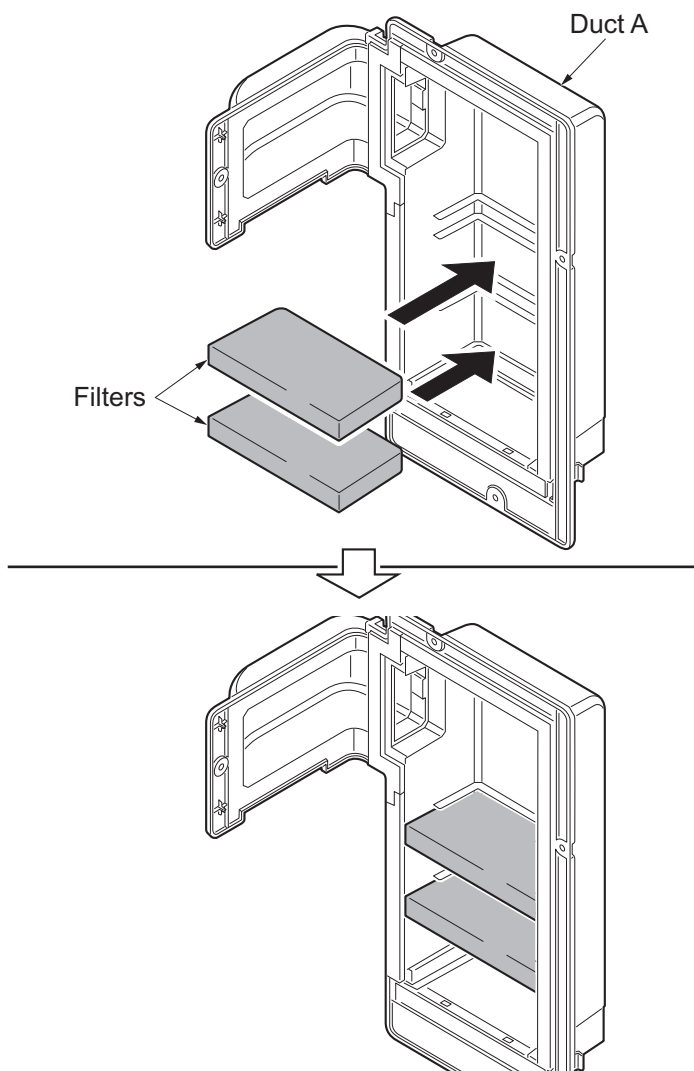


Figure 1-2-63

4. Remove the screw A from the rear lower cover.

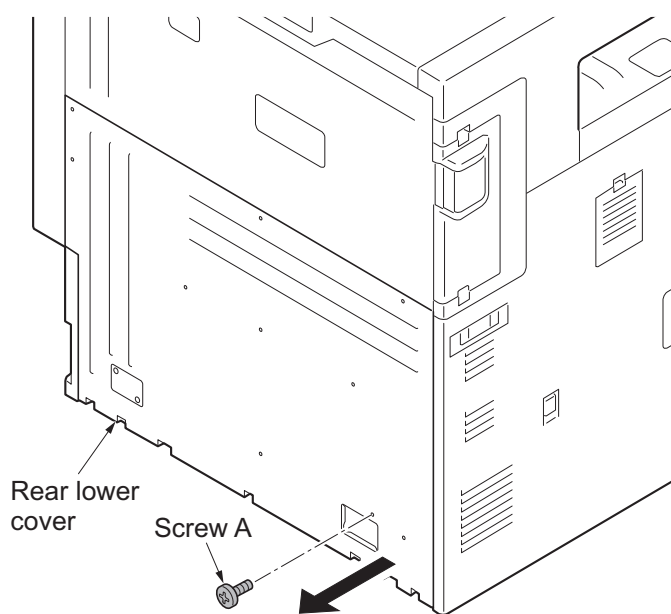
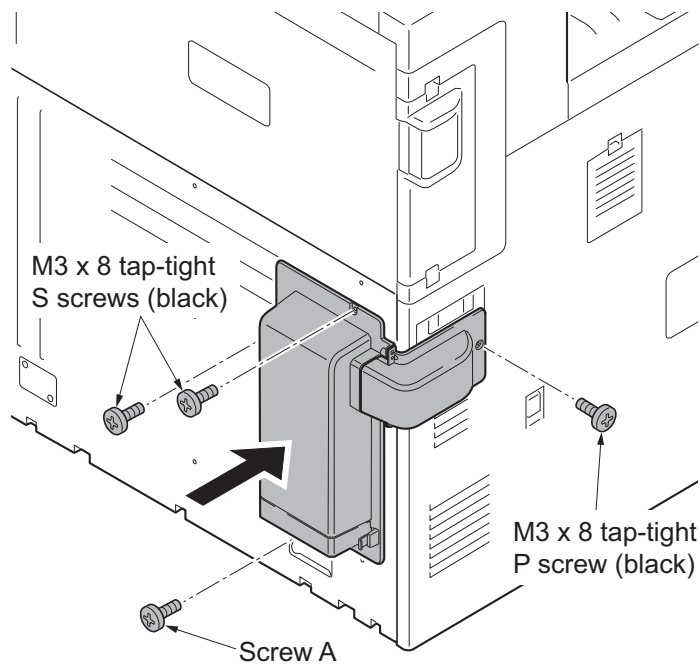


Figure 1-2-64

5. Fit the duct unit to the machine using the removed screw A, M3 x 8 tap-tight P screw (black) and two M3 x 8 tap-tight S screws (black).



**Figure 1-2-65**

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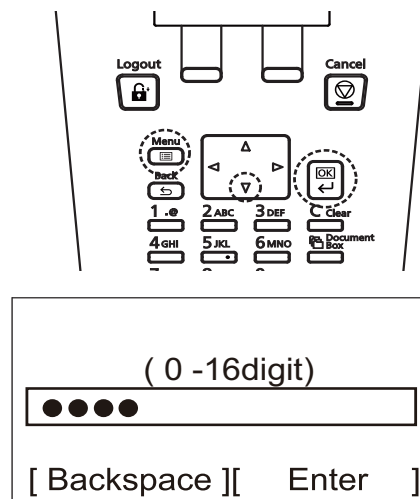
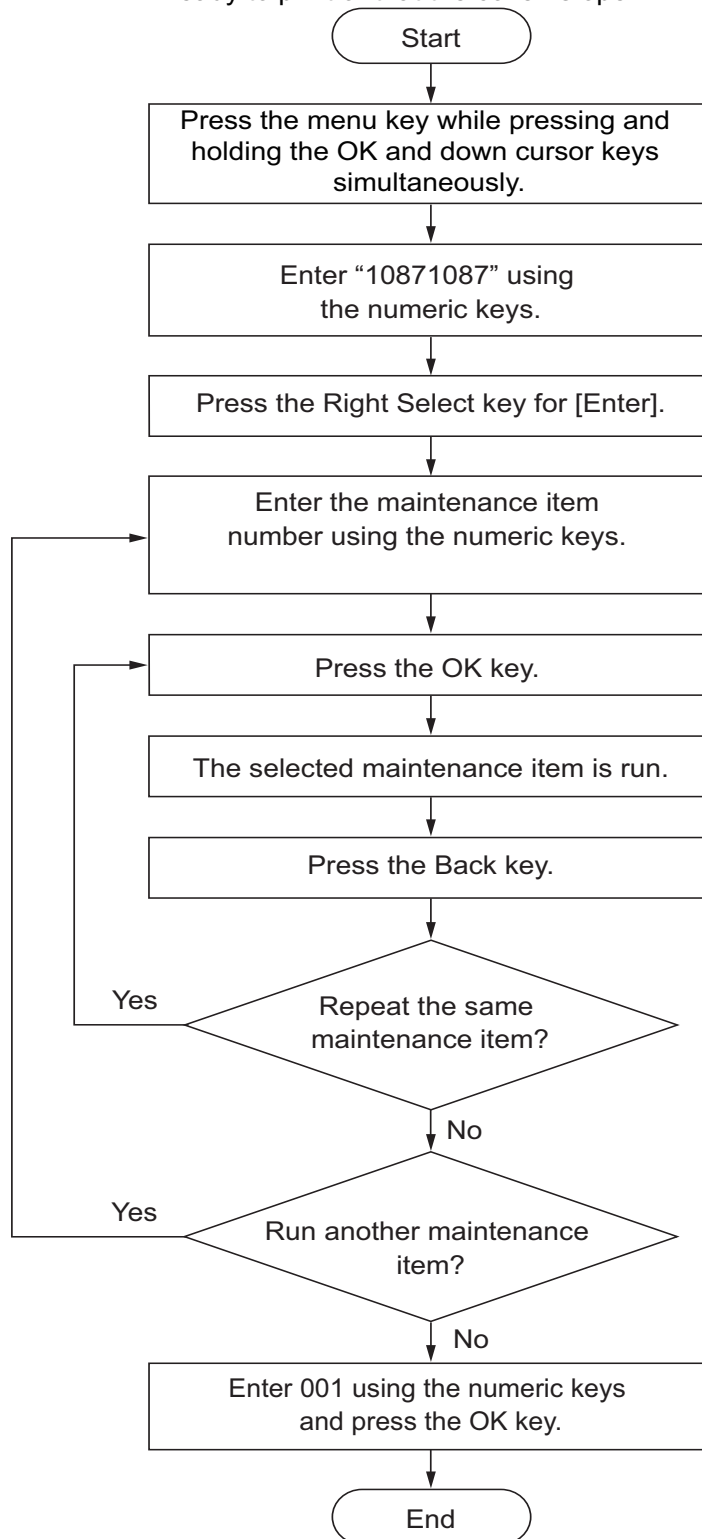


# 1-3-1 Maintenance mode

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

## (1) Executing a maintenance item

Perform this operation when the panel displays Ready to print or that the cover is open.



. . . . . Maintenance mode is exited.

**(2) Maintenance modes item list**

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
General	U000	Outputting an own-status report	-	
	U001	Exiting the maintenance mode	-	
	U002	Setting the factory default data	-	
	U004	Setting the machine number	-	
	U019	Displaying the ROM version	-	
Initializa- tion	U021	Memory initializing	-	
	U024	HDD formatting	-	
Drive, paper feed and paper convey- ing sys- tem	U030	Checking the operation of the motors	-	
	U031	Checking switches and sensors for paper conveying	-	
	U032	Checking the operation of the clutches	-	
	U033	Checking the operation of the solenoids	-	
	U034	Adjusting the print start timing	-	
		LSU Out Top	0/0/0/0/0/0/0/0/0/0/0	
		LSU Out Left	0/0/0/0/0/0/0/0/0	
		LSU Out Top B/W	-	0/0/0/0/0/0
		LSU Out Top 3/4	0/0/0/0/0/0	
	U037	Checking the operation of the fan motors	-	
	U051	Adjusting the deflection in the paper		
		Paper Loop Amount	-5/0/-5/0/ -5/0/-5/0 -6/-1/-5/0	-7/-1/-7/-1/ -7/-1/-7/-1/ -8/-2/-7/-1
		Paper Loop Amount B/W	-	-8/-8/-8/ -8/-9/-8
		Paper Loop Amount 3/4	-2/-2/-2/-2/-3/-2	
		U052	Setting the fuser motor control	
	U052	Set Loop Sensor	-	
		Loop Sensor Control	On/On/On/On	
		Set Loop Sensor Valid	On	
	U053	Setting the adjustment of the motor speed		
		Motor1	12	11
Motor2		0/0/0/17/0	0/0/0/15/0	

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
Drive, paper feed and paper convey- ing sys- tem	U053	Motor3	27/0/-30/ -30/82/0/18/-30/-30/ 0/0/0/0	-18/0/-27/ -27/73/0/ 16/-27/-27/ 0/0/0/0
		Motor4	-/28	25/22
		Motor5	-	0/0/14/0
		Motor6	-	-16/0/-25/ -25/66/0/ 15/-24/-24
		Motor1 Half	0	
		Motor2 Half	0/0/0/34/0	0/0/0/30/0
		Motor3 Half	54/0/-43/ -43/164/0/ 36/-60/-60	-36/0/-38/ -38/147/0/ 32/-54/-54
		Motor1 3/4	0	
		Motor2 3/4	0/0/0/22/0	
		Motor3 3/4	35/0/-39/-39/106/0/ 23/ -39/-39	-26/0/-39/-39/106/0/ 23/ -39/-39
	U059	Setting fan mode		
		Fan Mode	Mode1	
		Cooling Mode	0	
	U089	Outputting a MIP-PG pattern		
High voltage	U100	Adjusting main high voltage		
		Adj AC Bias	-	
		Set AC Auto Adj	On	
		Set DC Bias	-	
		Adj DC Bias	0/0/0/0/0/0/0/0	0/0/0/0/0/0/0/0/0
		Set Low Temp	1	
		Set Charger Freq	8807/ -/ 10690/ 8857	11022/10690/10690 8857
		Chk Current	-	
		Set AC Gain	Auto	
	U101	Setting the voltage for the primary transfer		
		Normal Full	126	131
		Normal Half	108	110
		Normal 3/4	118	118

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
High voltage	U101	Normal B/W	-	135
		Add Color	2/2/5	
		Add Color 2nd	-3/-3/-2/-14	
		Surround Correct	Off	
	U106	Setting the voltage for the secondary transfer		
		Light/Normal 1st Normal2/3 1st	143/134/120	150/139/128
		Light/Normal 2nd Normal2/3 2nd	207/155/124	220/163/128
		Light/Normal 1st 3/4(Gloss) Normal2/3 1st 3/4(Gloss)	131/123/120	
		Light/Normal 2nd 3/4(Gloss) Normal2/3 2nd 3/4(Gloss)	180/140/120	
		Light/Normal 1st B/W Normal2/3 1st B/W	-	150/144/128/
		Light/Normal 2nd B/W Normal2/3 2nd B/W	-	183/171/128
		Heavy1 1st 3/4	133/129/124	
		Heavy1 2nd 3/4	155/150/124	
		Heavy4/5 1st Half	126/123/119	130/127/122
		Heavy4/5 2nd Half	144/140/119	151/146/122
		OHP	134/129/124	139/133/128
		Bias	1/1/1/-/138/126/133	1/1/1/1/143/130/133
		U107	Setting the transfer cleaning voltage	-
	Belt(A)		202/180/192/-	207/182/192/212
	Belt(B)		150/110/130/-	160/110/130/160
	U108	Setting separation shift bias	-	
		Output	55/55/55/55/0/0	
		Output 3/4	55/55/55/55	
		Output B/W	20/20/20/20	
		Timing	-	
		Subtraction Value	-35	
	U110	Checking the drum count	-	
U111	Checking the drum drive time	-		
U117	Checking the drum number	-		
U118	Displaying the drum history	-		
U119	Setting the drum	-		

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
High voltage	U122	Checking the transfer belt unit number	-	
	U123	Displaying the transfer belt unit history	-	
	U127	Checking/clearing the transfer count	-	
	U128	Setting transfer high-voltage timing	-5/0/13	-5/0/10
Developer	U130	Initial setting for the developer	-	
	U131	Adjusting the toner sensor control voltage	-	
		Manual	150/150/150/150	
		Mode	Auto	
	U132	Replenishing toner forcibly		
	U135	Checking toner motor operation	-	
	U136	Setting toner near end detection	3/3	
	U139	Displaying the temperature and humidity outside the machine	-	
	U140	Displaying developer bias		
		Sleeve DC	84/84/84/70/-	84/84/84/70/70
		Sleeve AC	155/155/155/155/-	155/155/155/155/155
		Mag DC	155/155/155/155/-	155/155/155/155/155
		Mag AC	160/200/200/200/-	160/200/200/200/160
		Sleeve Freq	5345/ -/ 5345/ 5345	5511/5345/5345/5345
		Sleeve Duty	68/-	68/68
		Mag Duty	43/-	43/43
		AC Calib	15/15/15/12 Mode1	
		U147	Setting for toner applying operation	
	Mode		Mode1	
	Upper Limit		2.0	
	Minimum		10	
	Interval Number		250/100/50	
	U148	Setting drum refresh mode	2/2	
U155	Checking sensors for toner	-		
U156	Setting the toner replenishment level			
	Supply	512/512/512/512/-	512/512/512/512/512	
	Empty	100/100/100/100/-	100/100/100/100/100	

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
Developer	U157	Checking the developer drive time	-	
	U158	Checking the developer count	-	
Fuser	U161	Setting the fuser control temperature		
		Warm Up	165/140/80/170/165/ 150/50/155	170/145/80/175/175/ 150/50/160
		Print	170/5	175/5
		Low Power Mode	Mode1	
		Grain Mode	Mode0	
	U167	Checking/clearing the fuser count	-	
	U169	Checking/setting the fuser power source	-	
	U199	Displaying fuser heater temperature	-	
Operation panel and support equipment	U207	Checking the operation panel keys	-	
	U208	Setting the paper size for the side deck	Letter (Inch)/A4 (Metric)	
	U221	Setting the USB host lock function	Off	
	U223	Operation panel lock	Unlock	
	U234	Setting punch destination	Inch (Inch)/Europe Metric (Metric)	
	U237	Setting finisher stack quantity	0/0	
	U240	Checking the operation of the finisher	-	
	U241	Checking the operation of the switches of the finisher	-	
	U246	Setting the finisher		
		Finisher	0/0/0/0/0/0/0	
		Booklet	0/0/0/0/0/0/0/0	
	U247	Setting the paper feed device	-	
Mode setting	U250	Checking/clearing the maintenance cycle	600000/600000/300000	
	U251	Checking/clearing the maintenance counter	0/0/0	
	U252	Setting the destination	-	
	U253	Switching between double and single counts	DBL(A3/Ledger)	
	U260	Selecting the timing for print counting	Eject	
	U265	Setting OEM purchaser code	-	
	U271	Setting the page count	2/3	
	U278	Setting the delivery date	-	
	U285	Setting service status page	On	

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
Mode setting	U323	Setting abnormal temperature and humidity warning	On	
	U325	Setting the paper interval	Off/1	
	U327	Setting the cassette heater control	Off	
	U332	Setting the size conversion factor		
		Rate	1.0	
		Mode	0	
		Level 1	1.0	
		Level 2	2.5	
	U340	Setting the applied mode	190/1	
U345	Setting the value for maintenance due indication	0		
Image processing	U410	Setting a Gamma table	Table1	
	U460	Adjusting the conveying sensor		
		Conveying Sensor	0/0	
		On/Off Config	Off	
	U464	Setting the ID correction operation		
		Permission	On	
		Time Interval	480	
		Mode	Normal	
		On/Sleep Out	On	
		AP/NE	On	
		Leaving Time	480	
		Driving Time	300	
		Timing	3600	
		Target Value	890/910/910/760/320/320/300/350	
		Print Rate(B/W)	50	
		Calib	-	
		Edge Reduction	Off	
	U465	Data reference for ID correction	-	
	U467	Setting the color registration adjustment	-	
		Color Regist	On	
		Timing	10	
	U468	Checking the color registration data	-	
	U469	Adjusting the color registration	-	
U474	Checking LSU cleaning operation	1000		
U485	Setting the color table	-		

Section	Item No.	Content of maintenance item	Initial setting	
			45ppm	55ppm
Image processing	U486	Setting color/black and white operation mode	Mode2	
Others	U901	Checking print counts by paper feed locations	-	
	U903	Checking/clearing the paper jam counts	-	
	U904	Checking/clearing the call for service counts	-	
	U905	Checking counts by optional devices	-	
	U906	Resetting partial operation control	-	
	U908	Checking the total counter value	-	
	U910	Clearing the print coverage data	-	
	U911	Checking print counts by paper sizes	-	
	U917	Setting backup data reading/writing	-	
	U920	Checking the print counts	-	
	U927	Clearing the all print counts and machine life counts (one time only)	-	
	U928	Checking machine life counts	-	
	U930	Checking/clearing the charger roller count	-	
	U952	Maintenance mode workflow	-	
	U964	Checking of log	-	
	U969	Checking of toner area code	-	
	U977	Data capture mode	-	
U984	Checking the developer unit number	-		
U985	Displaying the developer unit history	-		
U989	HDD Scan disk	-		



## Contents of the maintenance mode items

Item No.	Description																								
<p><b>U000</b></p>	<p><b>Outputting an own-status report</b></p> <p><b>Description</b> Outputs lists of the current settings of the maintenance items, and paper jam and service call occurrences. Outputs the event log or service status page. Also sends output data to the USB memory.</p> <p><b>Purpose</b> 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><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be output using the cursor up/down keys.</li> </ol> <table border="1" data-bbox="336 781 1399 1120"> <thead> <tr> <th data-bbox="336 781 639 831">Display</th> <th data-bbox="639 781 1399 831">Output list</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 831 639 880">Maintenance</td> <td data-bbox="639 831 1399 880">List of the current settings of the maintenance modes</td> </tr> <tr> <td data-bbox="336 880 639 929">User Status</td> <td data-bbox="639 880 1399 929">Outputs the user status page</td> </tr> <tr> <td data-bbox="336 929 639 978">Service Status</td> <td data-bbox="639 929 1399 978">Outputs the service status page</td> </tr> <tr> <td data-bbox="336 978 639 1028">Event</td> <td data-bbox="639 978 1399 1028">Outputs the event log</td> </tr> <tr> <td data-bbox="336 1028 639 1077">Network Status</td> <td data-bbox="639 1028 1399 1077">Outputs the network status page</td> </tr> <tr> <td data-bbox="336 1077 639 1120">All</td> <td data-bbox="639 1077 1399 1120">Outputs the all reports</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. A list is output.</li> <li>4. Press the OK key. The interrupt print mode is entered and a list is output. When A4/Letter paper is available, a report of this size is output. If not, specify the paper feed location. The output status is displayed.</li> </ol> <table border="1" data-bbox="336 1312 1399 1554"> <thead> <tr> <th data-bbox="336 1312 639 1361">Display</th> <th data-bbox="639 1312 1399 1361">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1361 639 1411">Ready</td> <td data-bbox="639 1361 1399 1411">List of the current settings of the maintenance modes</td> </tr> <tr> <td data-bbox="336 1411 639 1460">Active</td> <td data-bbox="639 1411 1399 1460">Outputs the user status page</td> </tr> <tr> <td data-bbox="336 1460 639 1509">Complete</td> <td data-bbox="639 1460 1399 1509">Outputs the service status page</td> </tr> <tr> <td data-bbox="336 1509 639 1554">Error</td> <td data-bbox="639 1509 1399 1554">Outputs the event log</td> </tr> </tbody> </table>	Display	Output list	Maintenance	List of the current settings of the maintenance modes	User Status	Outputs the user status page	Service Status	Outputs the service status page	Event	Outputs the event log	Network Status	Outputs the network status page	All	Outputs the all reports	Display	Description	Ready	List of the current settings of the maintenance modes	Active	Outputs the user status page	Complete	Outputs the service status page	Error	Outputs the event log
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Complete	Outputs the service status page																								
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Item No.	Description								
U000	<p data-bbox="288 241 724 271"><b>Method: Send to the USB memory</b></p> <ol data-bbox="288 277 1262 517" style="list-style-type: none"> <li>1. Perform shut-down on the operation panel, turn power off (see page p.1-2-19).</li> <li>2. Insert USB memory in USB memory slot.</li> <li>3. Turn the main power switch on.</li> <li>4. Enter the maintenance item.</li> <li>5. Press the OK key.</li> <li>6. Select the item to be send.</li> <li>7. Select [Text] or [HTML].</li> </ol> <table border="1" data-bbox="336 526 1401 719"> <thead> <tr> <th data-bbox="336 526 639 577">Display</th> <th data-bbox="639 526 1401 577">Output list</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 577 639 622">Print</td> <td data-bbox="639 577 1401 622">Outputs the report</td> </tr> <tr> <td data-bbox="336 622 639 667">USB (Text)</td> <td data-bbox="639 622 1401 667">Sends output data to the USB memory (text type)</td> </tr> <tr> <td data-bbox="336 667 639 719">USB (HTML)</td> <td data-bbox="639 667 1401 719">Sends output data to the USB memory (HTML type)</td> </tr> </tbody> </table> <ol data-bbox="288 734 804 797" style="list-style-type: none"> <li>8. Press the OK key. Output will be sent to the USB memory.</li> </ol> <p data-bbox="288 837 440 866"><b>Completion</b></p> <p data-bbox="288 873 1262 902">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	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								
Print	Outputs the report								
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U000	<p data-bbox="288 241 414 275"><b>Event log</b></p> <div data-bbox="316 297 1398 1641" style="border: 1px solid black; padding: 10px;"> <h3 data-bbox="355 324 577 369">Event Log</h3> <p data-bbox="355 374 440 403">Printer</p> <p data-bbox="1153 374 1362 403">(2) 27/Oct/2010 08:40</p> <p data-bbox="347 430 1362 459">(1) Firmware version 2MN_2000.000.000 2010.10.27 [XXXXXXXX] [XXXXXXXX] [XXXXXXXX] [XXXXXXXX]</p> <table border="0" data-bbox="347 495 1362 929"> <tr> <td colspan="3" data-bbox="347 495 790 524"><b>(8) Paper Jam Log</b></td> <td colspan="4" data-bbox="790 495 1362 524"><b>(12) Counter Log</b></td> </tr> <tr> <td data-bbox="387 528 403 551">#</td> <td data-bbox="435 528 515 551">Count.</td> <td data-bbox="571 528 759 551">Event Descriptions</td> <td data-bbox="802 528 818 551">(f)</td> <td data-bbox="866 528 946 551">J0000: 0</td> <td data-bbox="994 528 1074 551">J0041: 1</td> <td data-bbox="1121 528 1201 551">(g) C0000: 0</td> <td data-bbox="1249 528 1329 551">(h) T00: 10</td> </tr> <tr> <td>16</td> <td>9999999</td> <td>0501.01.08.01.01</td> <td></td> <td>J0001: 1</td> <td>J0042: 1</td> <td>C0001: 1</td> <td>T01: 20</td> </tr> <tr> <td>15</td> <td>8888888</td> <td>4002.01.08.01.01</td> <td></td> <td>J0002: 11</td> <td>J0043: 1</td> <td>C0002: 2</td> <td>T02: 30</td> </tr> <tr> <td>14</td> <td>7777777</td> <td>0501.01.08.01.01</td> <td></td> <td>J0003: 222</td> <td>J0044: 1</td> <td>C0003: 3</td> <td>T03: 40</td> </tr> <tr> <td>13</td> <td>6666666</td> <td>4002.01.08.01.01</td> <td></td> <td>J0004: 1</td> <td>J0045: 1</td> <td>C0004: 4</td> <td>T04: 50</td> </tr> <tr> <td>12</td> <td>5555555</td> <td>0501.01.08.01.01</td> <td></td> <td>J0005: 1</td> <td>J0046: 1</td> <td>C0005: 5</td> <td>T05: 999</td> </tr> <tr> <td>11</td> <td>4444444</td> <td>4002.01.08.01.01</td> <td></td> <td>J0006: 1</td> <td>J0047: 1</td> <td>C0006: 6</td> <td></td> </tr> <tr> <td>10</td> <td>3333333</td> <td>0501.01.08.01.01</td> <td></td> <td>J0007: 1</td> <td>J0048: 1</td> <td>C0007: 7</td> <td></td> </tr> <tr> <td>9</td> <td>2222222</td> <td>4002.01.08.01.01</td> <td></td> <td>J0008: 1</td> <td>J0049: 1</td> <td>C0008: 8</td> <td></td> </tr> <tr> <td>8</td> <td>1111111</td> <td>0501.01.08.01.01</td> <td></td> <td>J0009: 1</td> <td>J0050: 1</td> <td>C0009: 9</td> <td></td> </tr> <tr> <td>7</td> <td>9999999</td> <td>4002.01.08.01.01</td> <td></td> <td>J0010: 1</td> <td></td> <td>C0010: 10</td> <td></td> </tr> <tr> <td>6</td> <td>8888888</td> <td>0501.01.08.01.01</td> <td></td> <td>J0011: 1</td> <td></td> <td>C0011: 11</td> <td></td> </tr> <tr> <td>5</td> <td>7777777</td> <td>4002.01.08.01.01</td> <td></td> <td>J0012: 999</td> <td></td> <td>C0012: 12</td> <td></td> </tr> <tr> <td>4</td> <td>6666666</td> <td>0501.01.08.01.01</td> <td></td> <td>J0013: 1</td> <td></td> <td>C0013: 13</td> <td></td> </tr> <tr> <td>3</td> <td>5555555</td> <td>4002.01.08.01.01</td> <td></td> <td>J0014: 1</td> <td></td> <td>C0014: 14</td> <td></td> </tr> <tr> <td>2</td> 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</table> <p data-bbox="1082 1574 1353 1603">(7) [XXXXXXXXXXXXXXXXXXXXX]</p> </div>	<b>(8) Paper Jam Log</b>			<b>(12) Counter Log</b>				#	Count.	Event Descriptions	(f)	J0000: 0	J0041: 1	(g) C0000: 0	(h) T00: 10	16	9999999	0501.01.08.01.01		J0001: 1	J0042: 1	C0001: 1	T01: 20	15	8888888	4002.01.08.01.01		J0002: 11	J0043: 1	C0002: 2	T02: 30	14	7777777	0501.01.08.01.01		J0003: 222	J0044: 1	C0003: 3	T03: 40	13	6666666	4002.01.08.01.01		J0004: 1	J0045: 1	C0004: 4	T04: 50	12	5555555	0501.01.08.01.01		J0005: 1	J0046: 1	C0005: 5	T05: 999	11	4444444	4002.01.08.01.01		J0006: 1	J0047: 1	C0006: 6		10	3333333	0501.01.08.01.01		J0007: 1	J0048: 1	C0007: 7		9	2222222	4002.01.08.01.01		J0008: 1	J0049: 1	C0008: 8		8	1111111	0501.01.08.01.01		J0009: 1	J0050: 1	C0009: 9		7	9999999	4002.01.08.01.01		J0010: 1		C0010: 10		6	8888888	0501.01.08.01.01		J0011: 1		C0011: 11		5	7777777	4002.01.08.01.01		J0012: 999		C0012: 12		4	6666666	0501.01.08.01.01		J0013: 1		C0013: 13		3	5555555	4002.01.08.01.01		J0014: 1		C0014: 14		2	4444444	0501.01.08.01.01		J0015: 1		C0015: 15		1	3333333	4002.01.08.01.01		J0016: 1		C0016: 16						J0017: 1		C0017: 17						J0018: 1		C0018: 18						J0019: 1		C0019: 19						J0020: 1		C0020: 20						J0021: 1		C0021: 21						J0022: 1		C0022: 22						J0023: 1		C0023: 23						J0024: 1								J0025: 1								J0026: 1								J0027: 1								J0028: 1								J0029: 1								J0030: 1								J0031: 1								J0032: 1								J0033: 1								J0034: 1								J0035: 1								J0036: 1								J0037: 1								J0038: 1								J0039: 1								J0040: 1				#	Count.	Service Code	8	1111111	01.6000	7	9999999	01.2100	6	8888888	01.4000	5	7777777	01.6000	4	6666666	01.2100	3	5555555	01.4000	2	4444444	01.6000	1	1	01.2100	#	Count.	Item.			Log Data Nothing...	#	Count.	Item.	5	1111111	01.00	4	9999999	01.00	3	8888888	01.00	2	7777777	01.00	1	6666666	01.00
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9	2222222	4002.01.08.01.01		J0008: 1	J0049: 1	C0008: 8																																																																																																																																																																																																																																																																																																																																																																																													
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Figure 1-3-1

Detail of event log

No.	Items	Description
(1)	System version	
(2)	System date	
(3)	Engine soft version	
(4)	Engine boot version	

Item No.	Description				
U000	<b>Detail of event log</b>				
	<b>No.</b>	<b>Items</b>	<b>Description</b>		
	(5)		Controller BROM version		
	(6)		Operation panel mask version		
	(7)		Machine serial number		
	(8)	Paper Jam Log	#	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
			(a) Cause of paper jam (Hexadecimal)		
			For details on the case of paper jam, refer to Paper Misfeed Detection. (P.1-4-2)		
			(b) Detail of paper source (Hexadecimal)		
		00: MP tray 01: Cassette 1 02: Cassette 2 03: Cassette 3 (paper feeder/large capacity feeder) 04: Cassette 4 (paper feeder/large capacity feeder) 05: Cassette 5 (side multi tray/side deck) 06: Cassette 6 (side paper feeder/side large capacity feeder) 07: Cassette 7 (side paper feeder/side large capacity feeder) 08 to 09: Reserved			
		(c) Detail of paper size (Hexadecimal)			
		00: (Not specified) 01: Monarch 02: Business 03: International DL 04: International C5 05: Executive 06: Letter-R 08: Letter-E 07: Legal 08: A4R 88: A4E 09: B5R 89: B5E 0A: A3	0B: B4 0C: Ledger 0D: A5R 0E: A6 0F: B6 10: Commercial #9 11: Commercial #6 12: ISO B5 13: Custom size 1E: C4 1F: Postcard 20: Reply-paid post-card 21: Oficio II	22: Special 1 23: Special 2 24: A3 wide 25: Ledger wide 26: Full bleed paper (12 x 8) 27: 8K 28: 16K-R A8: 16K-E 32: Statement-R B2: Statement-E 33: Folio 34: Western type 2 35: Western type 4	

Item No.	Description																																																																																																											
U000																																																																																																												
	(8) cont.	Paper Jam Log	<table border="1"> <thead> <tr> <th data-bbox="576 277 855 322">No.</th> <th data-bbox="855 277 1134 322">Items</th> <th data-bbox="1134 277 1423 322">Description</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="576 322 1423 367">(d) Detail of paper type (Hexadecimal)</td> </tr> <tr> <td data-bbox="576 367 855 412">01: Plain</td> <td data-bbox="855 367 1134 412">0A: Color</td> <td data-bbox="1134 367 1423 412">15: Custom 1</td> </tr> <tr> <td data-bbox="576 412 855 456">02: Transparency</td> <td data-bbox="855 412 1134 456">0B: Prepunched</td> <td data-bbox="1134 412 1423 456">16: Custom 2</td> </tr> <tr> <td data-bbox="576 456 855 501">03: Preprinted</td> <td data-bbox="855 456 1134 501">0C: Envelope</td> <td data-bbox="1134 456 1423 501">17: Custom 3</td> </tr> <tr> <td data-bbox="576 501 855 546">04: Labels</td> <td data-bbox="855 501 1134 546">0D: Cardstock</td> <td data-bbox="1134 501 1423 546">18: Custom 4</td> </tr> <tr> <td data-bbox="576 546 855 591">05: Bond</td> <td data-bbox="855 546 1134 591">0E: Coated</td> <td data-bbox="1134 546 1423 591">19: Custom 5</td> </tr> <tr> <td data-bbox="576 591 855 636">06: Recycled</td> <td data-bbox="855 591 1134 636">0F: 2nd side</td> <td data-bbox="1134 591 1423 636">1A: Custom 6</td> </tr> <tr> <td data-bbox="576 636 855 680">07: Vellum</td> <td data-bbox="855 636 1134 680">10: Media 16</td> <td data-bbox="1134 636 1423 680">1B: Custom 7</td> </tr> <tr> <td data-bbox="576 680 855 725">08: Rough</td> <td data-bbox="855 680 1134 725">11: High quality</td> <td data-bbox="1134 680 1423 725">1C: Custom 8</td> </tr> <tr> <td data-bbox="576 725 855 770">09: Letterhead</td> <td data-bbox="855 725 1134 770"></td> <td data-bbox="1134 725 1423 770"></td> </tr> <tr> <td colspan="3" data-bbox="576 770 1423 815">(e) Detail of paper eject location (Hexadecimal)</td> </tr> <tr> <td colspan="3" data-bbox="576 815 1423 860">01: Face down (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 860 1423 904">02: Face up (FU)/1000-sheet finisher face up (FU)/ 4000-sheet finisher left sub tray (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 904 1423 949">03: 1000-sheet finisher face down (FD) 4000-sheet finisher main tray (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 949 1423 994">05: Job separator tray</td> </tr> <tr> <td colspan="3" data-bbox="576 994 1423 1039">06: 4000-sheet finisher right sub tray (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1039 1423 1084">07: 4000-sheet finisher left sub tray (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1084 1423 1128">09: 4000-sheet finisher right sub tray (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1128 1423 1173">0A: Center-folding unit tray</td> </tr> <tr> <td colspan="3" data-bbox="576 1173 1423 1218">0B: Mailbox tray 1 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1218 1423 1263">0C: Mailbox tray 1 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1263 1423 1308">15: Mailbox tray 2 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1308 1423 1352">16: Mailbox tray 2 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1352 1423 1397">1F: Mailbox tray 3 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1397 1423 1442">20: Mailbox tray 3 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1442 1423 1487">29: Mailbox tray 4 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1487 1423 1532">2A: Mailbox tray 4 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1532 1423 1576">33: Mailbox tray 5 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1576 1423 1621">34: Mailbox tray 5 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1621 1423 1666">3D: Mailbox tray 6 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1666 1423 1711">3E: Mailbox tray 6 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1711 1423 1756">47: Mailbox tray 7 (FD)</td> </tr> <tr> <td colspan="3" data-bbox="576 1756 1423 1800">48: Mailbox tray 7 (FU)</td> </tr> <tr> <td colspan="3" data-bbox="576 1800 1423 1845">04/0D/0E: Reserved</td> </tr> </tbody> </table>	No.	Items	Description	(d) Detail of paper type (Hexadecimal)			01: Plain	0A: Color	15: Custom 1	02: Transparency	0B: Prepunched	16: Custom 2	03: Preprinted	0C: Envelope	17: Custom 3	04: Labels	0D: Cardstock	18: Custom 4	05: Bond	0E: Coated	19: Custom 5	06: Recycled	0F: 2nd side	1A: Custom 6	07: Vellum	10: Media 16	1B: Custom 7	08: Rough	11: High quality	1C: Custom 8	09: Letterhead			(e) Detail of paper eject location (Hexadecimal)			01: Face down (FD)			02: Face up (FU)/1000-sheet finisher face up (FU)/ 4000-sheet finisher left sub tray (FU)			03: 1000-sheet finisher face down (FD) 4000-sheet finisher main tray (FD)			05: Job separator tray			06: 4000-sheet finisher right sub tray (FU)			07: 4000-sheet finisher left sub tray (FD)			09: 4000-sheet finisher right sub tray (FD)			0A: Center-folding unit tray			0B: Mailbox tray 1 (FD)			0C: Mailbox tray 1 (FU)			15: Mailbox tray 2 (FD)			16: Mailbox tray 2 (FU)			1F: Mailbox tray 3 (FD)			20: Mailbox tray 3 (FU)			29: Mailbox tray 4 (FD)			2A: Mailbox tray 4 (FU)			33: Mailbox tray 5 (FD)			34: Mailbox tray 5 (FU)			3D: Mailbox tray 6 (FD)			3E: Mailbox tray 6 (FU)			47: Mailbox tray 7 (FD)			48: Mailbox tray 7 (FU)			04/0D/0E: Reserved		
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	No.	Items	Description											
	(9)	Service Call Log	<table border="1"> <thead> <tr> <th data-bbox="558 324 821 369">#</th> <th data-bbox="821 324 1077 369">Count.</th> <th data-bbox="1077 324 1425 369">Service Code</th> </tr> </thead> </table>	#	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.	<table border="1"> <thead> <tr> <th data-bbox="1077 324 1425 369">The total page count at the time of the self diagnostics error.</th> <th data-bbox="1077 369 1425 734">Self diagnostic error code (See page 1-4-27)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1077 369 1425 481"></td> <td data-bbox="1077 481 1425 593">Example: 01.6000</td> </tr> <tr> <td data-bbox="1077 593 1425 734"></td> <td data-bbox="1077 593 1425 734">01: Self diagnostic error 6000: Self diagnostic error code number</td> </tr> </tbody> </table>	The total page count at the time of the self diagnostics error.	Self diagnostic error code (See page 1-4-27)		Example: 01.6000		01: Self diagnostic error 6000: Self diagnostic error code number
	#	Count.	Service Code											
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		Example: 01.6000												
	01: Self diagnostic error 6000: Self diagnostic error code number													
(10)	Maintenance Log	<table border="1"> <thead> <tr> <th data-bbox="558 734 821 779">#</th> <th data-bbox="821 734 1077 779">Count.</th> <th data-bbox="1077 734 1425 779">Item</th> </tr> </thead> </table>	#	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.	<table border="1"> <thead> <tr> <th data-bbox="1077 734 1425 779">The total page count at the time of the replacement of the toner container.</th> <th data-bbox="1077 779 1425 1523">Code of maintenance replacing item (1 byte, 2 categories)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1077 779 1425 929"></td> <td data-bbox="1077 929 1425 1243">First byte (Replacing item) 01: Toner container Second byte (Type of replacing item) 00: Black 01: Cyan 02: Magenta 03: Yellow</td> </tr> <tr> <td data-bbox="1077 929 1425 1523"></td> <td data-bbox="1077 929 1425 1523">First byte (Replacing item) 02: Maintenance kit Second byte (Type of replacing item) 01: MK-8505A 02: MK-8505B 03: MK-8505C</td> </tr> </tbody> </table>	The total page count at the time of the replacement of the toner container.	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-8505A 02: MK-8505B 03: MK-8505C	
#	Count.	Item												
The total page count at the time of the replacement of the toner container.	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													
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(11)	Unknown Toner Log	<table border="1"> <thead> <tr> <th data-bbox="558 1523 821 1568">#</th> <th data-bbox="821 1523 1077 1568">Count.</th> <th data-bbox="1077 1523 1425 1568">Item</th> </tr> </thead> </table>	#	Count.	Item	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.	<table border="1"> <thead> <tr> <th data-bbox="1077 1523 1425 1568">The total page count at the time of the toner empty error with using an unknown toner container.</th> <th data-bbox="1077 1568 1425 2000">Unknown toner log code (1 byte, 2 categories)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1077 1568 1425 2000"></td> <td data-bbox="1077 1568 1425 2000">First byte 01: Toner container (Fixed) Second byte 00: Black 01: Cyan 02: Magenta 03: Yellow</td> </tr> </tbody> </table>	The total page count at the time of the toner empty error with using an unknown toner container.	Unknown toner log code (1 byte, 2 categories)		First byte 01: Toner container (Fixed) Second byte 00: Black 01: Cyan 02: Magenta 03: Yellow			
#	Count.	Item												
The total page count at the time of the toner empty error with using an unknown toner container.	Unknown toner log code (1 byte, 2 categories)													
	First byte 01: Toner container (Fixed) Second byte 00: Black 01: Cyan 02: Magenta 03: Yellow													

Item No.	Description			
U000	<b>No.</b>	<b>Items</b>	<b>Description</b>	
	(12)	Counter Log  Comprised of three log counters including paper jams, self diagnostics errors, and replacement of the toner container.	(f) Paper jam  Indicates the log counter of paper jams depending on location.  Refer to Paper Jam Log.  All instances including those are not occurred are displayed.	(g) Self diagnostic error  Indicates the log counter of self diagnostics errors depending on cause.  Example: C6000: 4  Self diagnostics error 6000 has happened four times.

Item No.	Description
U000	<p data-bbox="288 241 582 273"><b>Service status page (1)</b></p> <div data-bbox="295 304 1417 1798" style="border: 1px solid black; padding: 10px;"> <p data-bbox="327 327 766 376"><b>Service Status Page</b></p> <p data-bbox="327 376 411 403">Printer</p> <p data-bbox="1177 371 1369 398">(2) 27/10/2011 12:00</p> <p data-bbox="319 430 794 456">(1) Firmware version 2MN_2000.001.001 2011.10.27</p> <p data-bbox="1005 407 1380 456">(3) [XXXXXXXX] (4) [XXXXXXXX] (5) [XXXXXXXX]</p> <hr/> <p data-bbox="347 501 632 528"><b>Controller Information</b></p> <p data-bbox="347 551 494 577"><b>Memory status</b></p> <p data-bbox="319 577 667 604">(7) Standard Size 1.0 GB .</p> <p data-bbox="319 604 667 631">(8) Option Slot 1.0 GB .</p> <p data-bbox="319 631 667 658">(9) Total Size 2.0 GB .</p> <p data-bbox="347 658 399 685"><b>Time</b></p> <p data-bbox="306 685 772 712">(10) Local Time Zone +01:00 Amsterdam .</p> <p data-bbox="306 712 759 739">(11) Date and Time 27/10/2010 12:00 .</p> <p data-bbox="306 739 721 766">(12) Time Server 10.183.53.13 .</p> <p data-bbox="347 788 513 815"><b>Installed Options</b></p> <p data-bbox="306 837 766 864">(13) Paper feeder Cassette (500 x 2) .</p> <p data-bbox="306 864 746 891">(14) Side Feeder Cassette (3000) .</p> <p data-bbox="306 891 727 918">(15) Finisher 1000-Finisher .</p> <p data-bbox="306 918 705 945">(16) IC Card Authentication Kit (B) Installed .</p> <p data-bbox="306 945 679 972">(17) Security Kit (E) Installed .</p> <p data-bbox="363 972 549 999">Data Security Kit (E)</p> <p data-bbox="306 999 679 1025">(18) UG-33 Installed .</p> <p data-bbox="306 1025 679 1052">(19) UG-34 Installed .</p> <p data-bbox="306 1052 702 1079">(20) USB Keyboard Connected .</p> <p data-bbox="306 1079 705 1106">(21) USB Keyboard Type US-English .</p> <p data-bbox="347 1151 494 1178"><b>Print Coverage</b></p> <p data-bbox="306 1178 836 1205">(22) Average(%) / Usage Page(A4/Letter Conversion) .</p> <p data-bbox="306 1205 622 1232">(23) K: 1.10 / 1111111.11 .</p> <p data-bbox="360 1232 632 1258">C: 2.20 / 2222222.22 .</p> <p data-bbox="360 1258 632 1285">M: 3.30 / 3333333.33 .</p> <p data-bbox="360 1285 632 1312">Y: 4.40 / 4444444.44 .</p> <p data-bbox="900 1303 1340 1330">e-MPS error control Y6 0</p> <p data-bbox="306 1348 772 1375">(24) Last Page K/C/M/Y(%) 1.00 / 2.22 / 3.33 / 4.44</p> <p data-bbox="900 1375 986 1402">RP Code</p> <p data-bbox="306 1411 1050 1438">(25) FRPO Status (26) <u>1234 5678 9012</u></p> <p data-bbox="347 1438 1050 1464">Default Pattern Switch B8 0 (27) 5678 9012 3456</p> <p data-bbox="347 1464 1050 1491">Default Font Number C5*1000+C2*100+C3 00000 (28) 9012 3456 7890</p> <p data-bbox="858 1491 1050 1518">(29) 3456 7890 1234</p> <p data-bbox="558 1518 571 1684">. . . . .</p> <hr/> <p data-bbox="829 1742 845 1769">1</p> <p data-bbox="1197 1742 1380 1769">(6) [XXXXXXXXXX]</p> </div>

Figure 1-3-2





Item No.	Description		
<b>U000</b>	<b>Detail of service status page</b>		
	<b>No.</b>	<b>Description</b>	<b>Supplement</b>
	(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)	Option 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 paper feeder	Paper feeder/Large capacity feeder/Not Installed
	(14)	Presence or absence of the side feeder	Side deck/Side multi tray/Side paper feeder/ Side large capacity feeder/Not Installed
	(15)	Presence or absence of the finisher	1000-sheet finisher/4000-sheet finisher/ Not Installed
	(16)	Presence or absence of the IC card authentication kit	Installed/Not Installed/Trial
	(17)	Presence or absence of the data security kit	Installed/Not Installed
	(18)	Presence or absence of the UG-33	Installed/Not Installed
	(19)	Presence or absence of the UG-34	Installed/Not Installed
	(20)	Presence or absence of the USB keyboard	Connected/Not connected
	(21)	USB keyboard setting display	US-English/US-English with Euro/German/French
	(22)	Page of relation to the A4/Letter	-
	(23)	Average coverage for total	Black/Cyan/Magenta/Yellow
	(24)	Coverage on the final output page	-
	(25)	FRPO setting	-
	(26)	RP code	Code the engine software version and the date of update.
(27)	RP code	Code the main software version and the date of update.	

Item No.	Description				
U000	<table border="1"> <thead> <tr> <th data-bbox="293 286 384 331">No.</th> <th data-bbox="384 286 794 331">Description</th> <th data-bbox="794 286 1409 331">Supplement</th> </tr> </thead> </table>		No.	Description	Supplement
	No.	Description	Supplement		
	(28)	RP code	Code the engine software version and the date of the previous update.		
	(29)	RP code	Code the main software version and the date of the previous update.		
	(30)	NV RAM version	<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            (c) The oldest time stamp of database version            (d) Consistency of the present software version and the ME firmware version            _ (underscore): OK            * (Asterisk): NG</p> <p>(e) ME firmware version            (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>		
	(31)	Mac address	-		
	(32)	The last sent date and time	-		
	(33)	Transmission address	-		
	(34)	Destination information	-		
	(35)	Area information	-		
	(36)	Margin settings	Top margin/Left margin		
	(37)	Margin/Page length/Page width settings	Top margin integer part/Top margin decimal part/ Left margin integer part/Left margin decimal part/ Page length integer part/Page length decimal part/ Page width integer part/Page width decimal part		
	(38)	Life counter (The first line)	Machine life/MP tray/Cassette 1/Cassette 2/ Cassette 3/Cassette 4/Cassette 5/Cassette 6/ Cassette 7/Duplex		
		Life counter (The second line)	Drum unit K/Drum unit C/Drum unit M/Drum unit Y/ Transfer belt unit/Developer unit K/ Developer unit C/Developer unit M/ Developer unit Y/Maintenance kit A/ Maintenance kit B/Maintenance kit C		

Item No.	Description																								
<b>U000</b>	<b>No.</b>	<b>Description</b>	<b>Supplement</b>																						
	(39)	Panel lock information	F00: Off/F01: Partial lock 1/F02:Partial lock 2 F03: Partial lock 3/F04: Full lock																						
	(40)	USB information	U00: Not installed/U01: Full speed/U02: Hi speed																						
	(41)	Paper handling information	0: Paper source unit select/1: Paper source unit																						
	(42)	Color printing double count mode	0: All single counts 1: A3, Single count, Less than 420 mm (length) 2: Legal, Single count, 356 mm or less (length) 3: Folio, Single count, Less than 330 mm (length)																						
	(43)	Black and white printing double count mode	0: All single counts 1: A3, Single count, Less than 420 mm (length) 2: Legal, Single count, 356 mm or less (length) 3: Folio, Single count, Less than 330 mm (length)																						
	(44)	Billing counting timing	-																						
	(45)	Temperature (machine inside)	-																						
	(46)	Temperature (machine outside)	-																						
	(47)	Relative humidity (machine outside)	-																						
	(48)	Humidity (machine inside)	-																						
	(49)	Fixed assets number	-																						
	(50)	Job end judgment time-out time	-																						
	(51)	Job end detection mode	-																						
	(52)	Prescribe environment reset	0: Off 1: On																						
	(53)	Media type attributes 1 to 28 (Not used: 18, 19, 20)	<table border="0"> <tr> <td>Weight settings</td> <td>Fuser settings</td> </tr> <tr> <td>0: Light</td> <td>0: High</td> </tr> <tr> <td>1: Normal 1</td> <td>1: Middle</td> </tr> <tr> <td>2: Normal 2</td> <td>2: Low</td> </tr> <tr> <td>3: Normal 3</td> <td>3: Vellum</td> </tr> <tr> <td>4: Heavy 1</td> <td>Duplex settings</td> </tr> <tr> <td>5: Heavy 2</td> <td>0: Disable</td> </tr> <tr> <td>6: Heavy 3</td> <td>1: Enable</td> </tr> <tr> <td>6: Heavy 4</td> <td></td> </tr> <tr> <td>6: Heavy 5</td> <td></td> </tr> <tr> <td>7: Extra Heavy</td> <td></td> </tr> </table>	Weight settings	Fuser settings	0: Light	0: High	1: Normal 1	1: Middle	2: Normal 2	2: Low	3: Normal 3	3: Vellum	4: Heavy 1	Duplex settings	5: Heavy 2	0: Disable	6: Heavy 3	1: Enable	6: Heavy 4		6: Heavy 5		7: Extra Heavy	
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6: Heavy 3	1: Enable																								
6: Heavy 4																									
6: Heavy 5																									
7: Extra Heavy																									
(54)	Calibration information	Black/Cyan/Magenta/Yellow																							
(55)	Calibration information	-																							
(56)	Calibration information	-																							
(57)	Calibration information	-																							
(58)	Calibration information	-																							
(59)	Calibration information	-																							

Item No.	Description																						
<b>U000</b>	<b>No.</b>	<b>Description</b>	<b>Supplement</b>																				
	(60)	Calibration information	Black/Cyan/Magenta/Yellow																				
	(61)	Calibration information	-																				
	(62)	Calibration information	-																				
	(63)	Calibration information	-																				
	(64)	RFID information	-																				
	(65)	RFID reader/writer version information	-																				
	(66)	Option message version	-																				
	(67)	Color table version for printer	-																				
	(68)	Color table 2 version for printer	-																				
	(69)	Maintenance information	-																				
	(70)	Altitude	0: Standard 1: High altitude 1 2: High altitude 2																				
	(71)	Charger roller correction	1 to 5																				
	(72)	Configuring toner coverage counters	0: Full-color count display 1: Color coverage count display																				
	(73)	Low coverage setting	0.1 to 100.0																				
	(74)	Middle coverage setting	0.1 to 100.0																				
	(75)	Data Sanitization information	-																				
	(76)	Toner low setting	0: Enabled 1: Disabled																				
	(77)	Toner low detection level	0 to 100 (%)																				
	(78)	Limiting shifting for one-page document	0: Disabled 1: Enabled																				
	(79)	Setting confirmation display for banner printing																					
	(80)	Drum serial number	Black/Cyan/Magenta/Yellow																				
		<p style="text-align: center;">Code conversion</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td> </tr> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> </table>		A	B	C	D	E	F	G	H	I	J	0	1	2	3	4	5	6	7	8	9
	A	B	C	D	E	F	G	H	I	J													
	0	1	2	3	4	5	6	7	8	9													

Item No.	Description										
U001	<p><b>Exiting the maintenance mode</b></p> <p><b>Description</b> Exits the maintenance mode and returns to the normal print mode.</p> <p><b>Purpose</b> To exit the maintenance mode.</p> <p><b>Method</b> 1. Press the OK key. The normal print mode is entered.</p>										
U002	<p><b>Setting the factory default data</b></p> <p><b>Description</b> Restores the machine conditions to the factory default settings.</p> <p><b>Purpose</b></p> <p><b>Method</b> 1. Press the OK key. 2. Select [Mode1(All)]. 3. Press the OK key. 4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between 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><b>Error codes</b></p> <table border="1" data-bbox="336 1234 1401 1473"> <thead> <tr> <th data-bbox="336 1234 639 1279">Codes</th> <th data-bbox="639 1234 1401 1279">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1279 639 1323">0001</td> <td data-bbox="639 1279 1401 1323">Entity error</td> </tr> <tr> <td data-bbox="336 1323 639 1368">0002</td> <td data-bbox="639 1323 1401 1368">Counter error</td> </tr> <tr> <td data-bbox="336 1368 639 1413">0003</td> <td data-bbox="639 1368 1401 1413">OS error</td> </tr> <tr> <td data-bbox="336 1413 639 1458">0020</td> <td data-bbox="639 1413 1401 1458">Engine error</td> </tr> </tbody> </table>	Codes	Description	0001	Entity error	0002	Counter error	0003	OS error	0020	Engine error
Codes	Description										
0001	Entity error										
0002	Counter error										
0003	OS error										
0020	Engine error										

Item No.	Description										
U004	<p data-bbox="288 241 654 271"><b>Setting the machine number</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 738 374">Sets or displays the machine number.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 730 443">To check or set the machine number.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <p data-bbox="308 517 552 546">1. Press the OK key.</p> <p data-bbox="335 551 1241 580">If the machine serial number of engine PWB matches with that of main PWB</p> <table border="1" data-bbox="336 595 1401 692"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 692">Machine No.</td> <td data-bbox="639 640 1401 692">Displays the machine serial number</td> </tr> </tbody> </table> <p data-bbox="335 703 1324 732">If the machine serial number of engine PWB does not match with that of main PWB</p> <table border="1" data-bbox="336 748 1401 893"> <thead> <tr> <th data-bbox="336 748 639 792">Display</th> <th data-bbox="639 748 1401 792">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 792 639 837">Machine No.(Main)</td> <td data-bbox="639 792 1401 837">Displays the machine serial number of main</td> </tr> <tr> <td data-bbox="336 837 639 893">Machine No.(Eng)</td> <td data-bbox="639 837 1401 893">Displays the machine serial number of engine</td> </tr> </tbody> </table> <p data-bbox="288 936 384 965"><b>Setting</b></p> <p data-bbox="288 969 943 999">Carry out if the machine serial number does not match.</p> <ol data-bbox="308 1003 1426 1140" style="list-style-type: none"> <li data-bbox="308 1003 536 1032">1. Select [Execute].</li> <li data-bbox="308 1037 871 1066">2. Press the OK key. Writing of serial No. starts.</li> <li data-bbox="308 1070 1426 1140">3. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol> <p data-bbox="288 1178 440 1207"><b>Completion</b></p> <p data-bbox="288 1211 1262 1240">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Machine No.	Displays the machine serial number	Display	Description	Machine No.(Main)	Displays the machine serial number of main	Machine No.(Eng)	Displays the machine serial number of engine
Display	Description										
Machine No.	Displays the machine serial number										
Display	Description										
Machine No.(Main)	Displays the machine serial number of main										
Machine No.(Eng)	Displays the machine serial number of engine										

Item No.	Description								
U010	<p data-bbox="288 241 715 271"><b>Setting the maintenance mode ID</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 667 374">Sets the maintenance mode ID.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 850 443">Modify maintenance mode ID for more security.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <p data-bbox="304 517 550 546">1. Press the OK key.</p> <table border="1" data-bbox="336 562 1401 757"> <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="336 607 639 651">New ID</td> <td data-bbox="639 607 1401 651">Enter a new 8-digit ID</td> </tr> <tr> <td data-bbox="336 651 639 696">New ID(Reconfirm)</td> <td data-bbox="639 651 1401 696">Enter a new 8-digit ID (to confirm)</td> </tr> <tr> <td data-bbox="336 696 639 757">Initialize</td> <td data-bbox="639 696 1401 757">Initialize the ID</td> </tr> </tbody> </table> <p data-bbox="288 797 383 826"><b>Setting</b></p> <p data-bbox="304 831 1289 1003">           1. Select [New ID].            2. Enter a new 8-digit ID on ten keys (0 – 9, *, #). * and # are mandatory to contain.            3. Select [New ID(Reconfirm)].            4. Enter a new 8-digit ID on ten keys (0 – 9, *, #).            5. Press the OK key. The setting is set.         </p> <p data-bbox="288 1043 528 1072"><b>Method: [Initialize]</b></p> <p data-bbox="304 1077 735 1144">           1. Select [Initialize].            2. Press the OK key. ID is initialized.         </p> <p data-bbox="288 1184 440 1214"><b>Completion</b></p> <p data-bbox="288 1218 1262 1247">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	New ID	Enter a new 8-digit ID	New ID(Reconfirm)	Enter a new 8-digit ID (to confirm)	Initialize	Initialize the ID
Display	Description								
New ID	Enter a new 8-digit ID								
New ID(Reconfirm)	Enter a new 8-digit ID (to confirm)								
Initialize	Initialize the ID								



Item No.	Description																																																										
U019	<p data-bbox="287 241 651 275"><b>Displaying the ROM version</b></p> <p data-bbox="287 309 440 342"><b>Description</b></p> <p data-bbox="287 344 970 378">Displays the part number of the ROM fitted to each PWB.</p> <p data-bbox="287 380 400 414"><b>Purpose</b></p> <p data-bbox="287 416 1238 450">To check the part number or to decide, if the newest version of ROM is installed.</p> <p data-bbox="287 483 387 517"><b>Method</b></p> <ol data-bbox="304 519 943 586" style="list-style-type: none"> <li>1. Press the OK key. The ROM version are displayed.</li> <li>2. Change the screen using the cursor up/down keys.</li> </ol> <table border="1" data-bbox="336 598 1399 1986"> <thead> <tr> <th data-bbox="336 598 641 642">Display</th> <th data-bbox="641 598 1399 642">Description</th> </tr> </thead> <tbody> <tr><td>Main</td><td>Main ROM</td></tr> <tr><td>MMI</td><td>Operation ROM</td></tr> <tr><td>Engine</td><td>Engine ROM</td></tr> <tr><td>Engine Boot</td><td>Engine booting</td></tr> <tr><td>RFID</td><td>RFID ROM</td></tr> <tr><td>IH CPU</td><td>IH CPU ROM</td></tr> <tr><td>IH CPU Boot</td><td>IH CPU booting</td></tr> <tr><td>Motor CPU</td><td>Motor CPU ROM</td></tr> <tr><td>Motor CPU Boot</td><td>Motor CPU booting</td></tr> <tr><td>PDF Resource</td><td>PDF resource ROM</td></tr> <tr><td>Option Language</td><td>Optional language ROM</td></tr> <tr><td>Color Table1(Prn)</td><td>Color table 1 (printer) ROM</td></tr> <tr><td>Color Table2(Prn)</td><td>Color table 2 (printer) ROM</td></tr> <tr><td>PF1</td><td>Paper feeder / Large capacity feeder ROM</td></tr> <tr><td>PF1 Boot</td><td>Paper feeder / Large capacity feeder booting</td></tr> <tr><td>Side PF</td><td>Side multi tray /Side deck ROM</td></tr> <tr><td>Side PF Boot</td><td>Side multi tray /Side deck booting</td></tr> <tr><td>SMT SSW</td><td>Side multi tray multi feed sensor</td></tr> <tr><td>PF2</td><td>Side paper feeder / Side large capacity feeder ROM</td></tr> <tr><td>PF2 Boot</td><td>Side paper feeder / Side large capacity feeder booting</td></tr> <tr><td>DF</td><td>1000-sheet finisher / 4000-sheet finisher ROM</td></tr> <tr><td>DF Boot</td><td>1000-sheet finisher / 4000-sheet finisher booting</td></tr> <tr><td>PH</td><td>Punch ROM</td></tr> <tr><td>PH Boot</td><td>Punch booting</td></tr> <tr><td>MT</td><td>Mail box ROM</td></tr> <tr><td>MT Boot</td><td>Mail box booting</td></tr> <tr><td>BF</td><td>Center-folding unit ROM</td></tr> <tr><td>BF Boot</td><td>Center-folding unit booting</td></tr> </tbody> </table>	Display	Description	Main	Main ROM	MMI	Operation ROM	Engine	Engine ROM	Engine Boot	Engine booting	RFID	RFID ROM	IH CPU	IH CPU ROM	IH CPU Boot	IH CPU booting	Motor CPU	Motor CPU ROM	Motor CPU Boot	Motor CPU booting	PDF Resource	PDF resource ROM	Option Language	Optional language ROM	Color Table1(Prn)	Color table 1 (printer) ROM	Color Table2(Prn)	Color table 2 (printer) ROM	PF1	Paper feeder / Large capacity feeder ROM	PF1 Boot	Paper feeder / Large capacity feeder booting	Side PF	Side multi tray /Side deck ROM	Side PF Boot	Side multi tray /Side deck booting	SMT SSW	Side multi tray multi feed sensor	PF2	Side paper feeder / Side large capacity feeder ROM	PF2 Boot	Side paper feeder / Side large capacity feeder booting	DF	1000-sheet finisher / 4000-sheet finisher ROM	DF Boot	1000-sheet finisher / 4000-sheet finisher booting	PH	Punch ROM	PH Boot	Punch booting	MT	Mail box ROM	MT Boot	Mail box booting	BF	Center-folding unit ROM	BF Boot	Center-folding unit booting
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PF2 Boot	Side paper feeder / Side large capacity feeder booting																																																										
DF	1000-sheet finisher / 4000-sheet finisher ROM																																																										
DF Boot	1000-sheet finisher / 4000-sheet finisher booting																																																										
PH	Punch ROM																																																										
PH Boot	Punch booting																																																										
MT	Mail box ROM																																																										
MT Boot	Mail box booting																																																										
BF	Center-folding unit ROM																																																										
BF Boot	Center-folding unit booting																																																										

Item No.	Description								
U019	<p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>								
U021	<p><b>Memory initializing</b></p> <p><b>Description</b> 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><b>Purpose</b> Restores the machine parameters to factory default settings.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Execute].</li> <li>3. Press the OK key. All data other than that for adjustments due to variations between machines is initialized based on the destination setting.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol> <p>* : 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 U021.</p> <p><b>Error codes</b></p> <table border="1" data-bbox="336 1167 1401 1357"> <thead> <tr> <th data-bbox="336 1167 639 1211">Codes</th> <th data-bbox="639 1167 1401 1211">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1211 639 1256">0001</td> <td data-bbox="639 1211 1401 1256">Entity error</td> </tr> <tr> <td data-bbox="336 1256 639 1301">0002</td> <td data-bbox="639 1256 1401 1301">Counter error</td> </tr> <tr> <td data-bbox="336 1301 639 1357">0020</td> <td data-bbox="639 1301 1401 1357">Engine error</td> </tr> </tbody> </table>	Codes	Description	0001	Entity error	0002	Counter error	0020	Engine error
Codes	Description								
0001	Entity error								
0002	Counter error								
0020	Engine error								

Item No.	Description						
U024	<p><b>HDD formatting</b></p> <p><b>Description</b> Initializes the hard disk.</p> <p><b>Purpose</b> To initialize the hard disk when replacing the hard disk after shipping.</p> <p><b>Caution</b> In addition, the following settings are also initialized by initializing the hard disk. System menu (user login administration, job accounting and document box etc.) When fully formatted, the following pre-installed software are removed. Option language, PDF1.7 resource</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 772 1401 916"> <thead> <tr> <th data-bbox="336 772 639 817">Display</th> <th data-bbox="639 772 1401 817">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 817 639 862">Full</td> <td data-bbox="639 817 1401 862">Full format</td> </tr> <tr> <td data-bbox="336 862 639 916">Data</td> <td data-bbox="639 862 1401 916">Data format (the application software are retained)</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press [Execute].</li> <li>4. Press the OK key to initialize the hard disk.</li> <li>5. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>	Display	Description	Full	Full format	Data	Data format (the application software are retained)
Display	Description						
Full	Full format						
Data	Data format (the application software are retained)						

Item No.	Description																																								
<b>U030</b>	<p data-bbox="288 241 767 271"><b>Checking the operation of the motors</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 515 374">Drives each motor.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 738 443">To check the operation of each motor.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 802 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the motor to be operated.</li> <li>3. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 631 1385 1619"> <thead> <tr> <th data-bbox="336 631 687 676">Display</th> <th data-bbox="687 631 1385 676">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 676 687 721">Feed</td> <td data-bbox="687 676 1385 721">Paper feed motor (PFM) is turned on</td> </tr> <tr> <td data-bbox="336 721 687 766">DLP(K)</td> <td data-bbox="687 721 1385 766">Developer motor K (DEVM-K) is turned on</td> </tr> <tr> <td data-bbox="336 766 687 810">DLP(CMY)</td> <td data-bbox="687 766 1385 810">Developer motor MCY (DEVM-MCY) is turned on</td> </tr> <tr> <td data-bbox="336 810 687 855">Fuser</td> <td data-bbox="687 810 1385 855">Fuser motor (FUM) is turned on</td> </tr> <tr> <td data-bbox="336 855 687 900">SB(CW)</td> <td data-bbox="687 855 1385 900">Eject motor (EM) is turned on clockwise</td> </tr> <tr> <td data-bbox="336 900 687 945">SB(CCW)</td> <td data-bbox="687 900 1385 945">Eject motor (EM) is turned on counterclockwise</td> </tr> <tr> <td data-bbox="336 945 687 990">CMY Release</td> <td data-bbox="687 945 1385 990">Color release motor (CRM) is turned on</td> </tr> <tr> <td data-bbox="336 990 687 1034">JobSepa</td> <td data-bbox="687 990 1385 1034">JS eject motor (JSEM) is turned on</td> </tr> <tr> <td data-bbox="336 1034 687 1079">Regist</td> <td data-bbox="687 1034 1385 1079">Registration motor (RM) is turned on</td> </tr> <tr> <td data-bbox="336 1079 687 1124">Bridge1</td> <td data-bbox="687 1079 1385 1124">BR conveying motor 1 (BRCM1) is turned on</td> </tr> <tr> <td data-bbox="336 1124 687 1169">Bridge2</td> <td data-bbox="687 1124 1385 1169">BR conveying motor 2 (BRCM2) is turned on</td> </tr> <tr> <td data-bbox="336 1169 687 1214">Belt Meand</td> <td data-bbox="687 1169 1385 1214">Transfer motor (TRM) is turned on</td> </tr> <tr> <td data-bbox="336 1214 687 1258">Press Release</td> <td data-bbox="687 1214 1385 1258">Transfer release motor (TRRM) is turned on</td> </tr> <tr> <td data-bbox="336 1258 687 1303">Fuser Release</td> <td data-bbox="687 1258 1385 1303">Fuser release motor (FURM) is turned on</td> </tr> <tr> <td data-bbox="336 1303 687 1348">DU1</td> <td data-bbox="687 1303 1385 1348">Duplex motor 1 (DUM1) is turned on</td> </tr> <tr> <td data-bbox="336 1348 687 1393">DU2</td> <td data-bbox="687 1348 1385 1393">Duplex motor 2 (DUM2) is turned on</td> </tr> <tr> <td data-bbox="336 1393 687 1438">Mid Roller</td> <td data-bbox="687 1393 1385 1438">Middle motor (RM) is turned on</td> </tr> <tr> <td data-bbox="336 1438 687 1482">InnerJobSepa(CW)</td> <td data-bbox="687 1438 1385 1482">JS conveying motor (JSCM) is turned on clockwise</td> </tr> <tr> <td data-bbox="336 1482 687 1527">InnerJobSepa(CCW)</td> <td data-bbox="687 1482 1385 1527">JS conveying motor (JSCM) is turned on counterclockwise</td> </tr> </tbody> </table> <ol data-bbox="304 1682 788 1711" style="list-style-type: none"> <li>4. To stop operation, press the Back key.</li> </ol> <p data-bbox="288 1751 440 1780"><b>Completion</b></p> <p data-bbox="288 1785 1262 1814">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Feed	Paper feed motor (PFM) is turned on	DLP(K)	Developer motor K (DEVM-K) is turned on	DLP(CMY)	Developer motor MCY (DEVM-MCY) is turned on	Fuser	Fuser motor (FUM) is turned on	SB(CW)	Eject motor (EM) is turned on clockwise	SB(CCW)	Eject motor (EM) is turned on counterclockwise	CMY Release	Color release motor (CRM) is turned on	JobSepa	JS eject motor (JSEM) is turned on	Regist	Registration motor (RM) is turned on	Bridge1	BR conveying motor 1 (BRCM1) is turned on	Bridge2	BR conveying motor 2 (BRCM2) is turned on	Belt Meand	Transfer motor (TRM) is turned on	Press Release	Transfer release motor (TRRM) is turned on	Fuser Release	Fuser release motor (FURM) is turned on	DU1	Duplex motor 1 (DUM1) is turned on	DU2	Duplex motor 2 (DUM2) is turned on	Mid Roller	Middle motor (RM) is turned on	InnerJobSepa(CW)	JS conveying motor (JSCM) is turned on clockwise	InnerJobSepa(CCW)	JS conveying motor (JSCM) is turned on counterclockwise
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Item No.	Description																				
U032	<p data-bbox="290 241 785 273"><b>Checking the operation of the clutches</b></p> <p data-bbox="290 311 440 338"><b>Description</b></p> <p data-bbox="290 344 545 371">Turns each clutch on.</p> <p data-bbox="290 383 400 409"><b>Purpose</b></p> <p data-bbox="290 416 740 443">To check the operation of each clutch.</p> <p data-bbox="290 488 387 515"><b>Method</b></p> <ol data-bbox="308 521 718 584" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Motor On] or [Motor Off].</li> </ol> <table border="1" data-bbox="336 631 1401 775"> <thead> <tr> <th data-bbox="336 631 641 678">Display</th> <th data-bbox="641 631 1401 678">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 678 641 725">Motor On</td> <td data-bbox="641 678 1401 725">Motor is turned on</td> </tr> <tr> <td data-bbox="336 725 641 775">Motor Off</td> <td data-bbox="641 725 1401 775">Motor is turned off</td> </tr> </tbody> </table> <ol data-bbox="308 797 802 896" style="list-style-type: none"> <li>3. Press the OK key.</li> <li>4. Select the clutch to be operated.</li> <li>5. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 909 1401 1243"> <thead> <tr> <th data-bbox="336 909 641 956">Display</th> <th data-bbox="641 909 1401 956">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 956 641 1003">Feed1</td> <td data-bbox="641 956 1401 1003">Paper feed clutch 1 (PFCL1) is turned on</td> </tr> <tr> <td data-bbox="336 1003 641 1050">Feed2</td> <td data-bbox="641 1003 1401 1050">Paper feed clutch 2 (PFCL2) is turned on</td> </tr> <tr> <td data-bbox="336 1050 641 1097">MPT Feed</td> <td data-bbox="641 1050 1401 1097">MP paper feed clutch (MPPFCL) is turned on</td> </tr> <tr> <td data-bbox="336 1097 641 1144">Feed</td> <td data-bbox="641 1097 1401 1144">Paper conveying clutch (PCCL) is turned on</td> </tr> <tr> <td data-bbox="336 1144 641 1191">Assist1</td> <td data-bbox="641 1144 1401 1191">Assist clutch 1 (ASCL1) is turned on</td> </tr> <tr> <td data-bbox="336 1191 641 1243">Assist2</td> <td data-bbox="641 1191 1401 1243">Assist clutch 2 (ASCL2) is turned on</td> </tr> </tbody> </table> <ol data-bbox="308 1308 788 1335" style="list-style-type: none"> <li>6. To stop operation, press the Back key.</li> </ol> <p data-bbox="290 1377 440 1404"><b>Completion</b></p> <p data-bbox="290 1411 1262 1438">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Motor On	Motor is turned on	Motor Off	Motor is turned off	Display	Description	Feed1	Paper feed clutch 1 (PFCL1) is turned on	Feed2	Paper feed clutch 2 (PFCL2) is turned on	MPT Feed	MP paper feed clutch (MPPFCL) is turned on	Feed	Paper conveying clutch (PCCL) is turned on	Assist1	Assist clutch 1 (ASCL1) is turned on	Assist2	Assist clutch 2 (ASCL2) is turned on
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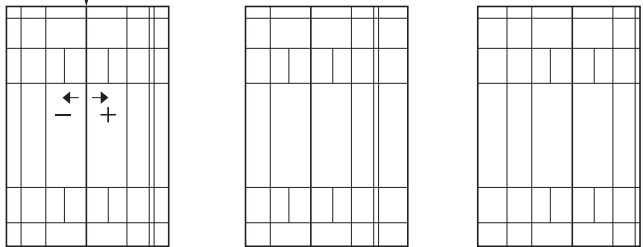
Item No.	Description																				
U033	<p data-bbox="292 241 802 275"><b>Checking the operation of the solenoids</b></p> <p data-bbox="292 313 440 342"><b>Description</b></p> <p data-bbox="292 347 576 376">Turns each solenoid on.</p> <p data-bbox="292 383 400 412"><b>Purpose</b></p> <p data-bbox="292 416 770 445">To check the operation of each solenoid.</p> <p data-bbox="292 488 387 517"><b>Method</b></p> <ol data-bbox="308 521 718 584" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Motor On] or [Motor Off].</li> </ol> <table border="1" data-bbox="336 633 1401 777"> <thead> <tr> <th data-bbox="336 633 641 678">Display</th> <th data-bbox="641 633 1401 678">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 678 641 723">Motor On</td> <td data-bbox="641 678 1401 723">Motor is turned on</td> </tr> <tr> <td data-bbox="336 723 641 777">Motor Off</td> <td data-bbox="641 723 1401 777">Motor is turned off</td> </tr> </tbody> </table> <ol data-bbox="308 831 802 931" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the solenoid to be operated.z</li> <li>3. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 943 1401 1279"> <thead> <tr> <th data-bbox="336 943 641 987">Display</th> <th data-bbox="641 943 1401 987">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 987 641 1032">Branch Left</td> <td data-bbox="641 987 1401 1032">Feedshift solenoid (FSSOL) is turned on</td> </tr> <tr> <td data-bbox="336 1032 641 1077">Branch Exit</td> <td data-bbox="641 1032 1401 1077">Feedshift solenoid is turned on</td> </tr> <tr> <td data-bbox="336 1077 641 1122">JobSepa</td> <td data-bbox="641 1077 1401 1122">JS feedshift solenoid (JSFSSOL) is turned on</td> </tr> <tr> <td data-bbox="336 1122 641 1167">ID Clean</td> <td data-bbox="641 1122 1401 1167">Cleaning solenoid (CLSOL) is turned on</td> </tr> <tr> <td data-bbox="336 1167 641 1211">Bridge Solenoid</td> <td data-bbox="641 1167 1401 1211">Bridge solenoid is turned on</td> </tr> <tr> <td data-bbox="336 1211 641 1279">Mail box</td> <td data-bbox="641 1211 1401 1279">Mail box solenoid is turned on</td> </tr> </tbody> </table> <ol data-bbox="308 1339 791 1368" style="list-style-type: none"> <li>4. To stop operation, press the Back key.</li> </ol> <p data-bbox="292 1406 440 1435"><b>Completion</b></p> <p data-bbox="292 1440 1265 1469">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Motor On	Motor is turned on	Motor Off	Motor is turned off	Display	Description	Branch Left	Feedshift solenoid (FSSOL) is turned on	Branch Exit	Feedshift solenoid is turned on	JobSepa	JS feedshift solenoid (JSFSSOL) is turned on	ID Clean	Cleaning solenoid (CLSOL) is turned on	Bridge Solenoid	Bridge solenoid is turned on	Mail box	Mail box solenoid is turned on
Display	Description																				
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Item No.	Description										
U034	<p data-bbox="288 244 683 275"><b>Adjusting the print start timing</b></p> <p data-bbox="288 315 440 342"><b>Description</b></p> <p data-bbox="288 349 1015 376">Adjusts the leading edge registration or aligns the center line.</p> <p data-bbox="288 387 400 414"><b>Purpose</b></p> <p data-bbox="288 421 1382 448">Make the adjustment if there is a regular error between the leading edges of the print image.</p> <p data-bbox="288 454 1353 481">Make the adjustment if there is a regular error between the center lines of the print image.</p> <p data-bbox="288 521 387 548"><b>Method</b></p> <ol data-bbox="308 560 699 622" style="list-style-type: none"> <li data-bbox="308 560 552 586">1. Press the OK key.</li> <li data-bbox="308 593 699 620">2. Select the item to be adjusted.</li> </ol> <table border="1" data-bbox="336 633 1401 873"> <thead> <tr> <th data-bbox="336 633 603 680">Display</th> <th data-bbox="603 633 1401 680">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 680 603 728">LSU Out Top</td> <td data-bbox="603 680 1401 728">Leading edge registration adjustment</td> </tr> <tr> <td data-bbox="336 728 603 775">LSU Out Left</td> <td data-bbox="603 728 1401 775">Center line adjustment</td> </tr> <tr> <td data-bbox="336 775 603 822">LSU Out Top B/W*</td> <td data-bbox="603 775 1401 822">Leading edge registration adjustment in black/white mode</td> </tr> <tr> <td data-bbox="336 822 603 869">LSU Out Top 3/4</td> <td data-bbox="603 822 1401 869">Leading edge registration adjustment at 3/4 times of line speed</td> </tr> </tbody> </table> <p data-bbox="336 887 595 913">*: 55 ppm model only.</p>	Display	Description	LSU Out Top	Leading edge registration adjustment	LSU Out Left	Center line adjustment	LSU Out Top B/W*	Leading edge registration adjustment in black/white mode	LSU Out Top 3/4	Leading edge registration adjustment at 3/4 times of line speed
Display	Description										
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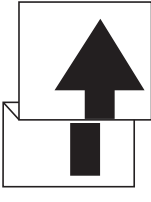
Item No.	Description																																																																					
<b>U034</b>	<b>Adjustment: Leading edge registration adjustment</b>																																																																					
	1. Press the menu key.																																																																					
	2. Press the OK key to output a test pattern.																																																																					
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<b>U034</b>	<p data-bbox="304 241 957 309">4. Change the setting value using the numeric keys. * : Use the cursor keys to change the decimal digits.</p> <p data-bbox="288 344 1292 376">For output example 1, increase the value. For output example 2, decrease the value.</p> <div data-bbox="367 403 1197 728" style="text-align: center;"> <p data-bbox="558 672 718 705">Correct image</p> <p data-bbox="821 672 933 728">Output example 1</p> <p data-bbox="1053 672 1165 728">Output example 2</p> </div> <p data-bbox="782 757 941 790"><b>Figure 1-3-4</b></p> <p data-bbox="304 828 758 860">5. Press the OK key. The value is set.</p> <p data-bbox="288 896 391 927"><b>Remark</b></p> <p data-bbox="288 931 1412 999">When changing the setting value of [Large] each item is modified, equal to amount of the value which is changed adds also the value of [Small] each item and is pulled.</p> <p data-bbox="288 1104 742 1135"><b>Adjustment: Center line adjustment</b></p> <ol data-bbox="304 1140 829 1272" style="list-style-type: none"> <li>1. Press the menu key.</li> <li>2. Press the OK key to output a test pattern.</li> <li>3. Press the menu key.</li> <li>4. Select the item to be adjusted.</li> </ol> <p data-bbox="335 1276 502 1308">[LSU Out Left]</p> <table border="1" data-bbox="335 1321 1396 1836"> <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>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass1</td> <td>Paper feed from cassette 1</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass2</td> <td>Paper feed from cassette 2</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass3</td> <td>Paper feed from optional cassette 3</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass4</td> <td>Paper feed from optional cassette 4</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass5</td> <td>Paper feed from optional cassette 5</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass6</td> <td>Paper feed from optional cassette 6</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Cass7</td> <td>Paper feed from optional cassette 7</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> <tr> <td>Dup</td> <td>Duplex mode (second)</td> <td>-3.0 to 3.0</td> <td>0</td> <td>0.1 mm</td> </tr> </tbody> </table>	Display	Description	Setting range	Initial setting	Change in value per step	MPT	Paper feed from MP tray	-3.0 to 3.0	0	0.1 mm	Cass1	Paper feed from cassette 1	-3.0 to 3.0	0	0.1 mm	Cass2	Paper feed from cassette 2	-3.0 to 3.0	0	0.1 mm	Cass3	Paper feed from optional cassette 3	-3.0 to 3.0	0	0.1 mm	Cass4	Paper feed from optional cassette 4	-3.0 to 3.0	0	0.1 mm	Cass5	Paper feed from optional cassette 5	-3.0 to 3.0	0	0.1 mm	Cass6	Paper feed from optional cassette 6	-3.0 to 3.0	0	0.1 mm	Cass7	Paper feed from optional cassette 7	-3.0 to 3.0	0	0.1 mm	Dup	Duplex mode (second)	-3.0 to 3.0	0	0.1 mm
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U034	<p data-bbox="304 244 1340 309">5. Change the setting value using the numeric keys. For output example 1, increase the value. For output example 2, decrease the value.</p> <div data-bbox="534 331 1189 728" style="text-align: center;"> <p data-bbox="534 331 766 392">Center line of printing (within <math>\pm 2.0</math> mm)</p>  <p data-bbox="550 667 710 694">Correct image</p> <p data-bbox="813 667 933 728">Output example 1</p> <p data-bbox="1045 667 1165 728">Output example 2</p> </div> <p data-bbox="782 750 941 784"><b>Figure 1-3-5</b></p> <p data-bbox="304 817 758 851">6. Press the OK key. The value is set.</p> <p data-bbox="287 918 438 952"><b>Completion</b></p> <p data-bbox="287 958 1268 992">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>

Item No.	Description																																																
U037	<p data-bbox="290 241 815 271"><b>Checking the operation of the fan motors</b></p> <p data-bbox="290 311 440 340"><b>Description</b></p> <p data-bbox="290 344 560 374">Drives each fan motor.</p> <p data-bbox="290 380 400 409"><b>Purpose</b></p> <p data-bbox="290 414 783 443">To check the operation of each fan motor.</p> <p data-bbox="290 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 802 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the fan motor to be operated.</li> <li>3. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 633 1399 1397"> <thead> <tr> <th data-bbox="336 633 571 678">Display</th> <th data-bbox="571 633 1294 678">Description</th> <th data-bbox="1294 633 1399 678">Group</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 678 571 723">Fuser Cooling</td> <td data-bbox="571 678 1294 723">Fuser rear fan motor (FURFM) is turned on</td> <td data-bbox="1294 678 1399 723">B</td> </tr> <tr> <td data-bbox="336 723 571 768">DLP Rear</td> <td data-bbox="571 723 1294 768">Exhaust motor 1and 2 (EXFM1, 2) is turned on</td> <td data-bbox="1294 723 1399 768">A</td> </tr> <tr> <td data-bbox="336 768 571 813">LSU Cooling</td> <td data-bbox="571 768 1294 813">LSU fan motor (LSUFM) is turned on</td> <td data-bbox="1294 768 1399 813">B</td> </tr> <tr> <td data-bbox="336 813 571 857">Belt Cooling</td> <td data-bbox="571 813 1294 857">Belt fan motor 1and 2 (BLFM1, 2) is turned on</td> <td data-bbox="1294 813 1399 857">A</td> </tr> <tr> <td data-bbox="336 857 571 902">Exit Cooling</td> <td data-bbox="571 857 1294 902">Eject front fan motor (EFFM) is turned on</td> <td data-bbox="1294 857 1399 902">B</td> </tr> <tr> <td data-bbox="336 902 571 947">Toner</td> <td data-bbox="571 902 1294 947">Toner fan motor 1and 2 (TFM1, 2) is turned on</td> <td data-bbox="1294 902 1399 947">A</td> </tr> <tr> <td data-bbox="336 947 571 992">Low Volt</td> <td data-bbox="571 947 1294 992">Power source fan motor (PSFM) is turned on</td> <td data-bbox="1294 947 1399 992">A</td> </tr> <tr> <td data-bbox="336 992 571 1037">Exit Rear Cooling</td> <td data-bbox="571 992 1294 1037">Eject rear fan motor (EFRM) is turned on</td> <td data-bbox="1294 992 1399 1037">B</td> </tr> <tr> <td data-bbox="336 1037 571 1081">IH PWB</td> <td data-bbox="571 1037 1294 1081">IH fan motor (IHFM) is turned on</td> <td data-bbox="1294 1037 1399 1081">A</td> </tr> <tr> <td data-bbox="336 1081 571 1126">IH Coil</td> <td data-bbox="571 1081 1294 1126">Fuser front fan motor (FUFFM) is turned on</td> <td data-bbox="1294 1081 1399 1126">A</td> </tr> <tr> <td data-bbox="336 1126 571 1171">DLP Front</td> <td data-bbox="571 1126 1294 1171">Developer fan motor 1and 2 (DEVFM1, 2) is turned on</td> <td data-bbox="1294 1126 1399 1171">A</td> </tr> <tr> <td data-bbox="336 1171 571 1216">Conv Edge</td> <td data-bbox="571 1171 1294 1216">Fuser fan motor 1and 2 (FUFM1, 2) is turned on</td> <td data-bbox="1294 1171 1399 1216">A</td> </tr> <tr> <td data-bbox="336 1216 571 1261">Fuser Edge</td> <td data-bbox="571 1216 1294 1261">Fuser edge fan motor 1and 2 (FUEFM1, 2) is turned on</td> <td data-bbox="1294 1216 1399 1261">-</td> </tr> <tr> <td data-bbox="336 1261 571 1305">GroupA</td> <td data-bbox="571 1261 1294 1305">Fan motors of group A are turned on</td> <td data-bbox="1294 1261 1399 1305"></td> </tr> <tr> <td data-bbox="336 1305 571 1350">GroupB</td> <td data-bbox="571 1305 1294 1350">Fan motors of group B are turned on</td> <td data-bbox="1294 1305 1399 1350"></td> </tr> </tbody> </table> <ol data-bbox="304 1406 788 1435" style="list-style-type: none"> <li>4. To stop operation, press the Back key.</li> </ol> <p data-bbox="290 1476 440 1505"><b>Completion</b></p> <p data-bbox="290 1509 1262 1538">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Group	Fuser Cooling	Fuser rear fan motor (FURFM) is turned on	B	DLP Rear	Exhaust motor 1and 2 (EXFM1, 2) is turned on	A	LSU Cooling	LSU fan motor (LSUFM) is turned on	B	Belt Cooling	Belt fan motor 1and 2 (BLFM1, 2) is turned on	A	Exit Cooling	Eject front fan motor (EFFM) is turned on	B	Toner	Toner fan motor 1and 2 (TFM1, 2) is turned on	A	Low Volt	Power source fan motor (PSFM) is turned on	A	Exit Rear Cooling	Eject rear fan motor (EFRM) is turned on	B	IH PWB	IH fan motor (IHFM) is turned on	A	IH Coil	Fuser front fan motor (FUFFM) is turned on	A	DLP Front	Developer fan motor 1and 2 (DEVFM1, 2) is turned on	A	Conv Edge	Fuser fan motor 1and 2 (FUFM1, 2) is turned on	A	Fuser Edge	Fuser edge fan motor 1and 2 (FUEFM1, 2) is turned on	-	GroupA	Fan motors of group A are turned on		GroupB	Fan motors of group B are turned on	
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U051	<p data-bbox="288 241 756 271"><b>Adjusting the deflection in the paper</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 979 374">Adjusts the deflection in the paper at the registration roller.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1426 479">Make the adjustment if the leading edge of the print image is missing or varies randomly, or if the print paper is Z-folded.</p> <p data-bbox="288 519 387 548"><b>Method</b></p> <ol data-bbox="308 553 695 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be adjusted.</li> </ol> <table border="1" data-bbox="336 631 1399 824"> <thead> <tr> <th data-bbox="336 631 679 676">Display</th> <th data-bbox="679 631 1399 676">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 676 679 721">Loop Amount</td> <td data-bbox="679 676 1399 721">Deflection adjustment</td> </tr> <tr> <td data-bbox="336 721 679 766">Loop Amount B/W*</td> <td data-bbox="679 721 1399 766">Deflection adjustment in black and white mode</td> </tr> <tr> <td data-bbox="336 766 679 810">Loop Amount 3/4</td> <td data-bbox="679 766 1399 810">Deflection adjustment at 3/4 times of line speed</td> </tr> </tbody> </table> <p data-bbox="336 837 592 866">*: 55 ppm model only.</p> <p data-bbox="288 907 440 936"><b>Adjustment</b></p> <ol data-bbox="308 940 695 969" style="list-style-type: none"> <li>1. Select the item to be adjusted.</li> </ol> <p data-bbox="336 974 592 1003">[Paper Loop Amount]</p> <table border="1" data-bbox="336 1016 1399 1686"> <thead> <tr> <th data-bbox="336 1016 520 1106" rowspan="2">Display</th> <th data-bbox="520 1016 855 1106" rowspan="2">Description</th> <th data-bbox="855 1016 1002 1106" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1002 1016 1399 1061">Initial setting</th> </tr> <tr> <th data-bbox="1002 1061 1201 1106">45ppm</th> <th data-bbox="1201 1061 1399 1106">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1106 520 1151">MPT(L)</td> <td data-bbox="520 1106 855 1151">Paper feed from MP tray</td> <td data-bbox="855 1106 1002 1151">-30 to 20</td> <td data-bbox="1002 1106 1201 1151">-5</td> <td data-bbox="1201 1106 1399 1151">-7</td> </tr> <tr> <td data-bbox="336 1151 520 1196">MPT H(L)</td> <td data-bbox="520 1151 855 1196">Paper feed from MP tray</td> <td data-bbox="855 1151 1002 1196">-30 to 20</td> <td data-bbox="1002 1151 1201 1196">0</td> <td data-bbox="1201 1151 1399 1196">-1</td> </tr> <tr> <td data-bbox="336 1196 520 1240">Cass(L)</td> <td data-bbox="520 1196 855 1240">Paper feed from cassette</td> <td data-bbox="855 1196 1002 1240">-30 to 20</td> <td data-bbox="1002 1196 1201 1240">-5</td> <td data-bbox="1201 1196 1399 1240">-7</td> </tr> <tr> <td data-bbox="336 1240 520 1285">Cass H(L)</td> <td data-bbox="520 1240 855 1285">Paper feed from cassette</td> <td data-bbox="855 1240 1002 1285">-30 to 20</td> <td data-bbox="1002 1240 1201 1285">0</td> <td data-bbox="1201 1240 1399 1285">-1</td> </tr> <tr> <td data-bbox="336 1285 520 1330">Dup(L)</td> <td data-bbox="520 1285 855 1330">Duplex mode (second)</td> <td data-bbox="855 1285 1002 1330">-30 to 20</td> <td data-bbox="1002 1285 1201 1330">-5</td> <td data-bbox="1201 1285 1399 1330">-7</td> </tr> <tr> <td data-bbox="336 1330 520 1375">Dup H(L)</td> <td data-bbox="520 1330 855 1375">Duplex mode (second)</td> <td data-bbox="855 1330 1002 1375">-30 to 20</td> <td data-bbox="1002 1330 1201 1375">0</td> <td data-bbox="1201 1330 1399 1375">-1</td> </tr> <tr> <td data-bbox="336 1375 520 1420">MPT(S)</td> <td data-bbox="520 1375 855 1420">Paper feed from MP tray</td> <td data-bbox="855 1375 1002 1420">-30 to 20</td> <td data-bbox="1002 1375 1201 1420">-5</td> <td data-bbox="1201 1375 1399 1420">-7</td> </tr> <tr> <td data-bbox="336 1420 520 1464">MPT H(S)</td> <td data-bbox="520 1420 855 1464">Paper feed from MP tray</td> <td data-bbox="855 1420 1002 1464">-30 to 20</td> <td data-bbox="1002 1420 1201 1464">0</td> <td data-bbox="1201 1420 1399 1464">-1</td> </tr> <tr> <td data-bbox="336 1464 520 1509">Cass(S)</td> <td data-bbox="520 1464 855 1509">Paper feed from cassette</td> <td data-bbox="855 1464 1002 1509">-30 to 20</td> <td data-bbox="1002 1464 1201 1509">-6</td> <td data-bbox="1201 1464 1399 1509">-8</td> </tr> <tr> <td data-bbox="336 1509 520 1554">Cass H(S)</td> <td data-bbox="520 1509 855 1554">Paper feed from cassette</td> <td data-bbox="855 1509 1002 1554">-30 to 20</td> <td data-bbox="1002 1509 1201 1554">-1</td> <td data-bbox="1201 1509 1399 1554">-2</td> </tr> <tr> <td data-bbox="336 1554 520 1599">Dup(S)</td> <td data-bbox="520 1554 855 1599">Duplex mode (second)</td> <td data-bbox="855 1554 1002 1599">-30 to 20</td> <td data-bbox="1002 1554 1201 1599">-5</td> <td data-bbox="1201 1554 1399 1599">-7</td> </tr> <tr> <td data-bbox="336 1599 520 1644">Dup H(S)</td> <td data-bbox="520 1599 855 1644">Duplex mode (second)</td> <td data-bbox="855 1599 1002 1644">-30 to 20</td> <td data-bbox="1002 1599 1201 1644">0</td> <td data-bbox="1201 1599 1399 1644">-1</td> </tr> </tbody> </table> <p data-bbox="336 1722 740 1751">Change in value per step: 1.0 mm</p> <p data-bbox="336 1756 1174 1785">(L): When large size paper is used (218 mm or more in width of paper).</p> <p data-bbox="336 1789 756 1818">(S): When small size paper is used.</p>	Display	Description	Loop Amount	Deflection adjustment	Loop Amount B/W*	Deflection adjustment in black and white mode	Loop Amount 3/4	Deflection adjustment at 3/4 times of line speed	Display	Description	Setting range	Initial setting		45ppm	55ppm	MPT(L)	Paper feed from MP tray	-30 to 20	-5	-7	MPT H(L)	Paper feed from MP tray	-30 to 20	0	-1	Cass(L)	Paper feed from cassette	-30 to 20	-5	-7	Cass H(L)	Paper feed from cassette	-30 to 20	0	-1	Dup(L)	Duplex mode (second)	-30 to 20	-5	-7	Dup H(L)	Duplex mode (second)	-30 to 20	0	-1	MPT(S)	Paper feed from MP tray	-30 to 20	-5	-7	MPT H(S)	Paper feed from MP tray	-30 to 20	0	-1	Cass(S)	Paper feed from cassette	-30 to 20	-6	-8	Cass H(S)	Paper feed from cassette	-30 to 20	-1	-2	Dup(S)	Duplex mode (second)	-30 to 20	-5	-7	Dup H(S)	Duplex mode (second)	-30 to 20	0	-1
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U052	<p data-bbox="290 241 686 273"><b>Setting the fuser motor control</b></p> <p data-bbox="290 309 438 340"><b>Description</b></p> <p data-bbox="290 344 1428 412">Enters the sensor data values described on the supplied sheet provided when the loop sensor is replaced and performs correction processing for the fuser motor.</p> <p data-bbox="290 416 399 448"><b>Purpose</b></p> <p data-bbox="290 452 1088 483">To perform when replacing the loop sensor or paper conveying unit.</p> <p data-bbox="290 519 386 551"><b>Method</b></p> <ol data-bbox="306 555 550 622" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="338 631 1401 922"> <thead> <tr> <th data-bbox="338 631 657 680">Display</th> <th data-bbox="657 631 1401 680">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 680 657 730">Set Loop S</td> <td data-bbox="657 680 1401 730">Enter the data value for loop sensor</td> </tr> <tr> <td data-bbox="338 730 657 779">Adj Loop S</td> <td data-bbox="657 730 1401 779">Perform the adjustment of the loop sensor sensitivity</td> </tr> <tr> <td data-bbox="338 779 657 828">Loop S Control</td> <td data-bbox="657 779 1401 828">Set the loop sensor detection control</td> </tr> <tr> <td data-bbox="338 828 657 878">Set Loop S Valid</td> <td data-bbox="657 828 1401 878">Sets the presence or absence of the loop sensor</td> </tr> <tr> <td data-bbox="338 878 657 922">Chk Loop S</td> <td data-bbox="657 878 1401 922">Display the data value for loop sensor</td> </tr> </tbody> </table> <p data-bbox="290 940 635 972"><b>Method: [Set Loop Sensor]</b></p> <ol data-bbox="306 976 1037 1214" style="list-style-type: none"> <li>1. Select [Scanning Board1].</li> <li>2. Enter the sensor data value of supplied sheet DATA1 using the numeric keys.</li> <li>3. Select [Scanning Board2].</li> <li>4. Enter the sensor data value of supplied sheet DATA2 using the numeric keys.</li> <li>5. Press the OK key. The value is set.</li> </ol> <div data-bbox="1056 972 1428 1003" style="text-align: right;">How to read the sensor data value</div> <div data-bbox="1091 1012 1305 1317" style="text-align: right;"> <p>(e.g.)</p> <table border="1"> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>○</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>○</td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td>○</td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td></tr> </table> <p>↓ ↓ ↓</p> <table border="1"> <tr> <td>3</td> <td>6</td> <td>4</td> </tr> </table> </div> <p data-bbox="290 1321 683 1352"><b>Setting: [Loop Sensor Control]</b></p> <ol data-bbox="306 1357 922 1424" style="list-style-type: none"> <li>1. Select the item.</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="338 1433 1324 1581"> <thead> <tr> <th data-bbox="338 1433 641 1482">Display</th> <th data-bbox="641 1433 1324 1482">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 1482 641 1532">ScanBoard1</td> <td data-bbox="641 1482 1324 1532">Scanning Board1 adjustment</td> </tr> <tr> <td data-bbox="338 1532 641 1581">ScanBoard2</td> <td data-bbox="641 1532 1324 1581">Scanning Board2 adjustment</td> </tr> </tbody> </table> <ol data-bbox="306 1608 769 1639" style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol>	Display	Description	Set Loop S	Enter the data value for loop sensor	Adj Loop S	Perform the adjustment of the loop sensor sensitivity	Loop S Control	Set the loop sensor detection control	Set Loop S Valid	Sets the presence or absence of the loop sensor	Chk Loop S	Display the data value for loop sensor	1				2				3	○			4			○	5				6		○		7				8				9				0				3	6	4	Display	Description	ScanBoard1	Scanning Board1 adjustment	ScanBoard2	Scanning Board2 adjustment
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	<p data-bbox="290 241 686 273"><b>Setting: [Loop Sensor Control]</b></p> <ol data-bbox="304 277 539 338" style="list-style-type: none"> <li>1. Select the item.</li> <li>2. Select On or Off.</li> </ol> <table border="1" data-bbox="336 353 1401 734"> <thead> <tr> <th data-bbox="336 353 491 398">Display</th> <th data-bbox="491 353 1171 398">Description</th> <th data-bbox="1171 353 1401 398">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 398 491 488">No.1</td> <td data-bbox="491 398 1171 488">Sensor detection On/Off setting at 125 to 250 mm from the top of paper</td> <td data-bbox="1171 398 1401 488">On</td> </tr> <tr> <td data-bbox="336 488 491 577">No.2</td> <td data-bbox="491 488 1171 577">Sensor detection On/Off setting at 250 to 290 mm from the top of paper</td> <td data-bbox="1171 488 1401 577">On</td> </tr> <tr> <td data-bbox="336 577 491 667">No.3</td> <td data-bbox="491 577 1171 667">Sensor detection On/Off setting at 300 to 330 mm from the top of paper</td> <td data-bbox="1171 577 1401 667">On</td> </tr> <tr> <td data-bbox="336 667 491 734">No.4</td> <td data-bbox="491 667 1171 734">Sensor detection On/Off setting at 350 to 370 mm from the top of paper</td> <td data-bbox="1171 667 1401 734">On</td> </tr> </tbody> </table> <ol data-bbox="304 757 769 788" style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol> <p data-bbox="290 824 699 855"><b>Setting: [Set Loop Sensor Valid]</b></p> <ol data-bbox="304 860 769 958" style="list-style-type: none"> <li>1. Select On or Off. Initial setting: On</li> <li>2. Press the OK key. The setting is set.</li> </ol> <p data-bbox="290 994 440 1025"><b>Completion</b></p> <p data-bbox="290 1030 1254 1061">Press the Back key. The indication for selecting a maintenance item No. appears.</p>	Display	Description	Initial setting	No.1	Sensor detection On/Off setting at 125 to 250 mm from the top of paper	On	No.2	Sensor detection On/Off setting at 250 to 290 mm from the top of paper	On	No.3	Sensor detection On/Off setting at 300 to 330 mm from the top of paper	On	No.4	Sensor detection On/Off setting at 350 to 370 mm from the top of paper	On
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Item No.	Description																																						
U053	<p data-bbox="288 241 829 275"><b>Setting the adjustment of the motor speed</b></p> <p data-bbox="288 309 440 342"><b>Description</b></p> <p data-bbox="288 344 927 378">Performs fine adjustment of the speeds of the motors.</p> <p data-bbox="288 380 400 414"><b>Purpose</b></p> <p data-bbox="288 416 1366 483">Basically, the setting need not be changed. Modify settings by interlock setting only if faulty images occur.</p> <p data-bbox="288 517 387 551"><b>Method</b></p> <ol data-bbox="304 553 691 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be adjusted</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="336 665 1399 1704"> <thead> <tr> <th data-bbox="336 665 528 710">Display</th> <th data-bbox="528 665 1399 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 710 528 754">Motor1</td> <td data-bbox="528 710 1399 754">Adjustment of drum motor K speeds</td> </tr> <tr> <td data-bbox="336 754 528 844">Motor2</td> <td data-bbox="528 754 1399 844">Adjustment of developer motor K, developer motor MCY, transfer motor, registration motor and transfer cleaning motor speeds</td> </tr> <tr> <td data-bbox="336 844 528 934">Motor3</td> <td data-bbox="528 844 1399 934">Adjustment of eject motor, fuser motor, BR conveying motor 1/2, paper feed motor, JS eject motor, middle motor and duplex motor 1/2 speeds</td> </tr> <tr> <td data-bbox="336 934 528 978">Motor4</td> <td data-bbox="528 934 1399 978">Drum motor K speed adjustment in black/white mode</td> </tr> <tr> <td data-bbox="336 978 528 1068">Motor5*</td> <td data-bbox="528 978 1399 1068">Adjustment of developer motor K, transfer motor, registration motor and transfer cleaning motor speeds in black/white mode</td> </tr> <tr> <td data-bbox="336 1068 528 1180">Motor6*</td> <td data-bbox="528 1068 1399 1180">Adjustment of eject motor, fuser motor, BR conveying motor 1/2, paper feed motor, JS eject motor, middle motor and duplex motor 1/2 speeds in black/white mode</td> </tr> <tr> <td data-bbox="336 1180 528 1225">Motor1 Half</td> <td data-bbox="528 1180 1399 1225">Adjustment of drum motor K speeds in half speed</td> </tr> <tr> <td data-bbox="336 1225 528 1314">Motor2 Half</td> <td data-bbox="528 1225 1399 1314">Adjustment of developer motor K, developer motor MCY, transfer motor, registration motor and transfer cleaning motor speeds in half speed</td> </tr> <tr> <td data-bbox="336 1314 528 1426">Motor3 Half</td> <td data-bbox="528 1314 1399 1426">Adjustment of eject motor, fuser motor, BR conveying motor 1/2, paper feed motor, JS eject motor, middle motor and duplex motor 1/2 speeds in half speed</td> </tr> <tr> <td data-bbox="336 1426 528 1471">Motor1 3/4</td> <td data-bbox="528 1426 1399 1471">Adjustment of drum motor K speeds at 3/4 times of line speed</td> </tr> <tr> <td data-bbox="336 1471 528 1583">Motor2 3/4</td> <td data-bbox="528 1471 1399 1583">Adjustment of developer motor K, developer motor MCY, transfer motor, registration motor and transfer cleaning motor speeds at 3/4 times of line speed</td> </tr> <tr> <td data-bbox="336 1583 528 1704">Motor3 3/4</td> <td data-bbox="528 1583 1399 1704">Adjustment of eject motor, fuser motor, BR conveying motor 1/2, paper feed motor, JS eject motor, middle motor and duplex motor 1/2 speeds at 3/4 times of line speed</td> </tr> </tbody> </table> <p data-bbox="336 1715 595 1749">*: 55 ppm model only.</p> <p data-bbox="288 1751 507 1785"><b>Setting: [Motor1]</b></p> <ol data-bbox="304 1787 697 1821" style="list-style-type: none"> <li>1. 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Drum(K)	Drum motor K (DRM-K)	-5000 to 5000	12	11																																			

Item No.	Description					
<b>U053</b>	<b>Setting: [Motor2]</b>					
	1. Select the item to be adjusted.					
	<b>Display</b>		<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
					<b>45ppm</b>	<b>55ppm</b>
	Dev(K)	Developer motor K (DEVM-K)	-5000 to 5000	0	0	
	Dev(CMY)	Developer motor MCY (DEVM-MCY)	-5000 to 5000	0	0	
	Trans	Transfer motor (TRM)	-5000 to 5000	0	0	
	Regist	Registration motor (RM)	-5000 to 5000	17	15	
	Clean	Transfer cleaning motor (TRCM)	-5000 to 5000	0	0	
	<b>Setting: [Motor3]</b>					
	1. Select the item to be adjusted.					
	<b>Display</b>		<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
					<b>45ppm</b>	<b>55ppm</b>
	SB	Eject motor (EM)	-5000 to 5000	27	-18	
	Fixing	Fuser motor (FUM)	-5000 to 5000	0	0	
	Brg1	BR conveying motor 1 (BRCM1)	-5000 to 5000	-30	-27	
	Brg2	BR conveying motor 2 (BRCM2)	-5000 to 5000	-30	-27	
	Feed	Paper feed motor (PFM)	-5000 to 5000	82	73	
	JobSepa	JS eject motor (JSEM)	-5000 to 5000	0	0	
	Mid	Middle motor (MM)	-5000 to 5000	18	16	
	DU1	Duplex motor 1 (DUM1)	-5000 to 5000	-30	-27	
	DU2	Duplex motor 2 (DUM2)	-5000 to 5000	-30	-27	
	Brg1 DF H	BR conveying motor 1 (BRCM1)	-5000 to 5000	0	0	
	Brg1 DF L	BR conveying motor 1 (BRCM1)	-5000 to 5000	0	0	
	Brg2 DF H	BR conveying motor 2 (BRCM2)	-5000 to 5000	0	0	
Brg2 DF L	BR conveying motor 2 (BRCM2)	-5000 to 5000	0	0		

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SB	Eject motor (EM) in half speed	-5000 to 5000	54	-36																																										
Fixing	Fuser motor (FUM) in half speed	-5000 to 5000	0	0																																										
Brg1	BR conveying motor 1 (BRCM1) in half speed	-5000 to 5000	-43	-38																																										
Brdg2	BR conveying motor 2 (BRCM2) in half speed	-5000 to 5000	-43	-38																																										
Feed	Paper feed motor (PFM) in half speed	-5000 to 5000	164	147																																										
JobSepa	JS eject motor (JSEM) in half speed	-5000 to 5000	0	0																																										
Mid	Middle motor (MM) in half speed	-5000 to 5000	36	32																																										

Item No.	Description																										
U053	<table border="1"> <thead> <tr> <th data-bbox="336 286 488 376" rowspan="2">Display</th> <th data-bbox="488 286 815 376" rowspan="2">Description</th> <th data-bbox="815 286 1003 376" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1003 286 1399 331">Initial setting</th> </tr> <tr> <th data-bbox="1003 331 1201 376">45ppm</th> <th data-bbox="1201 331 1399 376">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 376 488 465">DU1</td> <td data-bbox="488 376 815 465">Duplex motor 1 (DUM1) in half speed</td> <td data-bbox="815 376 1003 465">-5000 to 5000</td> <td data-bbox="1003 376 1201 465">-60</td> <td data-bbox="1201 376 1399 465">-54</td> </tr> <tr> <td data-bbox="336 465 488 548">DU2</td> <td data-bbox="488 465 815 548">Duplex motor 2 (DUM2) in half speed</td> <td data-bbox="815 465 1003 548">-5000 to 5000</td> <td data-bbox="1003 465 1201 548">-60</td> <td data-bbox="1201 465 1399 548">-54</td> </tr> </tbody> </table>				Display	Description	Setting range	Initial setting		45ppm	55ppm	DU1	Duplex motor 1 (DUM1) in half speed	-5000 to 5000	-60	-54	DU2	Duplex motor 2 (DUM2) in half speed	-5000 to 5000	-60	-54						
	Display	Description	Setting range	Initial setting																							
				45ppm	55ppm																						
	DU1	Duplex motor 1 (DUM1) in half speed	-5000 to 5000	-60	-54																						
	DU2	Duplex motor 2 (DUM2) in half speed	-5000 to 5000	-60	-54																						
	<b>Setting: [Motor1 3/4]</b> 1. Select the item to be adjusted.																										
	<table border="1"> <thead> <tr> <th data-bbox="336 703 564 786">Display</th> <th data-bbox="564 703 1050 786">Description</th> <th data-bbox="1050 703 1248 786">Setting range</th> <th data-bbox="1248 703 1399 786">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 786 564 869">Drum(K)</td> <td data-bbox="564 786 1050 869">Drum motor K (DRM-K) at 3/4 times of line speed</td> <td data-bbox="1050 786 1248 869">-5000 to 5000</td> <td data-bbox="1248 786 1399 869">0</td> </tr> </tbody> </table>				Display	Description	Setting range	Initial setting	Drum(K)	Drum motor K (DRM-K) at 3/4 times of line speed	-5000 to 5000	0															
	Display	Description	Setting range	Initial setting																							
	Drum(K)	Drum motor K (DRM-K) at 3/4 times of line speed	-5000 to 5000	0																							
	<b>Setting: [Motor2 3/4]</b> Select the item to be adjusted.																										
<table border="1"> <thead> <tr> <th data-bbox="336 994 564 1077">Display</th> <th data-bbox="564 994 1050 1077">Description</th> <th data-bbox="1050 994 1248 1077">Setting range</th> <th data-bbox="1248 994 1399 1077">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1077 564 1160">Dev(K)</td> <td data-bbox="564 1077 1050 1160">Developer motor K (DEVM-K) at 3/4 times of line speed</td> <td data-bbox="1050 1077 1248 1160">-5000 to 5000</td> <td data-bbox="1248 1077 1399 1160">0</td> </tr> <tr> <td data-bbox="336 1160 564 1243">Dev(CMY)</td> <td data-bbox="564 1160 1050 1243">Developer motor MCY (DEVM-MCY) at 3/4 times of line speed</td> <td data-bbox="1050 1160 1248 1243">-5000 to 5000</td> <td data-bbox="1248 1160 1399 1243">0</td> </tr> <tr> <td data-bbox="336 1243 564 1326">Trans</td> <td data-bbox="564 1243 1050 1326">Transfer motor (TRM) at 3/4 times of line speed</td> <td data-bbox="1050 1243 1248 1326">-5000 to 5000</td> <td data-bbox="1248 1243 1399 1326">0</td> </tr> <tr> <td data-bbox="336 1326 564 1408">Regist</td> <td data-bbox="564 1326 1050 1408">Registration motor (RM) at 3/4 times of line speed</td> <td data-bbox="1050 1326 1248 1408">-5000 to 5000</td> <td data-bbox="1248 1326 1399 1408">22</td> </tr> <tr> <td data-bbox="336 1408 564 1489">Clean</td> <td data-bbox="564 1408 1050 1489">Transfer cleaning motor (TRCM) at 3/4 times of line speed</td> <td data-bbox="1050 1408 1248 1489">-5000 to 5000</td> <td data-bbox="1248 1408 1399 1489">0</td> </tr> </tbody> </table>				Display	Description	Setting range	Initial setting	Dev(K)	Developer motor K (DEVM-K) at 3/4 times of line speed	-5000 to 5000	0	Dev(CMY)	Developer motor MCY (DEVM-MCY) at 3/4 times of line speed	-5000 to 5000	0	Trans	Transfer motor (TRM) at 3/4 times of line speed	-5000 to 5000	0	Regist	Registration motor (RM) at 3/4 times of line speed	-5000 to 5000	22	Clean	Transfer cleaning motor (TRCM) at 3/4 times of line speed	-5000 to 5000	0
Display	Description	Setting range	Initial setting																								
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Regist	Registration motor (RM) at 3/4 times of line speed	-5000 to 5000	22																								
Clean	Transfer cleaning motor (TRCM) at 3/4 times of line speed	-5000 to 5000	0																								

Item No.	Description				
<b>U053</b>	<b>Setting: [Motor3 3/4]</b>				
	1. Select the item to be adjusted.				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	SB	Eject motor (EM) at 3/4 times of line speed	-5000 to 5000	35	-26
	Fixing	Fuser motor (FUM) at 3/4 times of line speed	-5000 to 5000	0	0
	Brg1	BR conveying motor 1 (BRCM1) at 3/4 times of line speed	-5000 to 5000	-39	-39
	Brg2	BR conveying motor 2 (BRCM2) at 3/4 times of line speed	-5000 to 5000	-39	-39
	Feed	Paper feed motor (PFM) at 3/4 times of line speed	-5000 to 5000	106	106
	JobSepa	JS eject motor (JSEM) at 3/4 times of line speed	-5000 to 5000	0	0
	Mid	Middle motor (MM) at 3/4 times of line speed	-5000 to 5000	23	23
DU1	Duplex motor 1 (DUM1) at 3/4 times of line speed	-5000 to 5000	-39	-39	
DU2	Duplex motor 2 (DUM2) at 3/4 times of line speed	-5000 to 5000	-39	-39	
<p><b>Completion</b> Press the Back key. The indication for selecting a maintenance item No. appears.</p>					

Item No.	Description																								
U059	<p data-bbox="290 241 510 273"><b>Setting fan mode</b></p> <p data-bbox="290 311 440 342"><b>Description</b></p> <p data-bbox="290 344 778 376">Specifies mode for developer fan motors.</p> <p data-bbox="290 380 400 412"><b>Purpose</b></p> <p data-bbox="290 414 1316 445">Handling the lowering density [to suppress thermal stresses owing to the heated toner]</p> <p data-bbox="290 555 387 586"><b>Method</b></p> <ol data-bbox="306 589 552 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the mode.</li> </ol> <table border="1" data-bbox="336 665 1399 873"> <thead> <tr> <th data-bbox="336 665 603 712">Display</th> <th data-bbox="603 665 1399 712">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 603 786">Fan</td> <td data-bbox="603 712 1399 786">Sets threshold temperature at which developer fan motors operate.</td> </tr> <tr> <td data-bbox="336 786 603 873">Cooling</td> <td data-bbox="603 786 1399 873">Sets temperature at which the developer fan motors are switched for controlling.</td> </tr> </tbody> </table> <p data-bbox="290 920 464 952"><b>Setting: [Fan]</b></p> <ol data-bbox="306 954 539 985" style="list-style-type: none"> <li>1. Select the mode.</li> </ol> <table border="1" data-bbox="336 999 1399 1480"> <thead> <tr> <th data-bbox="336 999 564 1046">Display</th> <th data-bbox="564 999 1399 1046">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1046 564 1093">Mode1</td> <td data-bbox="564 1046 1399 1093">Setting temperature:Normal</td> </tr> <tr> <td data-bbox="336 1093 564 1211">Mode2</td> <td data-bbox="564 1093 1399 1211">Setting temperature:Temperature threshold is raised from mode1 (WUP, temperature at READY : mode1 temperature -7(°C), Temperature at PRINT : mode1 temperature -3(°C).)</td> </tr> <tr> <td data-bbox="336 1211 564 1330">Mode3</td> <td data-bbox="564 1211 1399 1330">Setting temperature:Temperature threshold is raised from mode2 (WUP, temperature at READY : mode1 temperature -22(°C), Temperature at PRINT : mode1 temperature -8(°C).)</td> </tr> <tr> <td data-bbox="336 1330 564 1480">Auto</td> <td data-bbox="564 1330 1399 1480">Starting with Mode 2 at power up or recovery from sleep mode, and switches to Mode 3 when the termistor detects a developer temperature BK is equal to or higher than 38°C. The device never reverts from mode 2 from mode 3 while power is on.</td> </tr> </tbody> </table> <p data-bbox="336 1503 580 1534">Initial setting: Mode1</p> <ol data-bbox="306 1536 767 1568" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol> <p data-bbox="290 1606 515 1637"><b>Setting: [Cooling]</b></p> <ol data-bbox="306 1639 922 1671" style="list-style-type: none"> <li>1. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1684 1383 1848"> <thead> <tr> <th data-bbox="336 1684 564 1765">Display</th> <th data-bbox="564 1684 1050 1765">Description</th> <th data-bbox="1050 1684 1219 1765">Setting range</th> <th data-bbox="1219 1684 1383 1765">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1765 564 1848">Cooling Mode</td> <td data-bbox="564 1765 1050 1848">Amount of shift from the initial standard temperature</td> <td data-bbox="1050 1765 1219 1848">-3 to 3 (°C)</td> <td data-bbox="1219 1765 1383 1848">0</td> </tr> </tbody> </table> <p data-bbox="336 1859 1217 1890">A larger value advances the operating timing, and a smaller value slows it.</p> <ol data-bbox="306 1892 754 1924" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p data-bbox="290 1962 440 1993"><b>Completion</b></p> <p data-bbox="290 1995 1254 2027">Press the Back key. The indication for selecting a maintenance item No. appears.</p>	Display	Description	Fan	Sets threshold temperature at which developer fan motors operate.	Cooling	Sets temperature at which the developer fan motors are switched for controlling.	Display	Description	Mode1	Setting temperature:Normal	Mode2	Setting temperature:Temperature threshold is raised from mode1 (WUP, temperature at READY : mode1 temperature -7(°C), Temperature at PRINT : mode1 temperature -3(°C).)	Mode3	Setting temperature:Temperature threshold is raised from mode2 (WUP, temperature at READY : mode1 temperature -22(°C), Temperature at PRINT : mode1 temperature -8(°C).)	Auto	Starting with Mode 2 at power up or recovery from sleep mode, and switches to Mode 3 when the termistor detects a developer temperature BK is equal to or higher than 38°C. The device never reverts from mode 2 from mode 3 while power is on.	Display	Description	Setting range	Initial setting	Cooling Mode	Amount of shift from the initial standard temperature	-3 to 3 (°C)	0
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U089	<p data-bbox="288 241 651 271"><b>Outputting a MIP-PG pattern</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1050 374">Selects and outputs the MIP-PG pattern created in the machine.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1307 443">To check machine status when adjusting image printing, using MIP-PG pattern output.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 1067 584" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the MIP-PG pattern to be output and press the OK key.</li> </ol> <table border="1" data-bbox="336 595 1399 1214"> <thead> <tr> <th data-bbox="336 595 564 640">Display</th> <th data-bbox="564 595 906 640">Description</th> <th data-bbox="906 595 1399 640">Purpose</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 564 685">256Gradation</td> <td data-bbox="564 640 906 685">256-gradation PG</td> <td data-bbox="906 640 1399 685">To check the gradation reproducibility</td> </tr> <tr> <td data-bbox="336 685 564 775">Color Belt</td> <td data-bbox="564 685 906 775">Four color belts PG</td> <td data-bbox="906 685 1399 775">To check the developer state and the engine section ID</td> </tr> <tr> <td data-bbox="336 775 564 819">Gray(C)</td> <td data-bbox="564 775 906 819">Cyan PG</td> <td data-bbox="906 775 1399 819">To check the drum quality</td> </tr> <tr> <td data-bbox="336 819 564 864">Gray(M)</td> <td data-bbox="564 819 906 864">Magenta PG</td> <td data-bbox="906 819 1399 864">To check the drum quality</td> </tr> <tr> <td data-bbox="336 864 564 909">Gray(Y)</td> <td data-bbox="564 864 906 909">Yellow PG</td> <td data-bbox="906 864 1399 909">To check the drum quality</td> </tr> <tr> <td data-bbox="336 909 564 954">Gray(K)</td> <td data-bbox="564 909 906 954">Black PG</td> <td data-bbox="906 909 1399 954">To check the drum quality</td> </tr> <tr> <td data-bbox="336 954 564 999">White</td> <td data-bbox="564 954 906 999">Blank paper PG</td> <td data-bbox="906 954 1399 999">To check the drum quality</td> </tr> <tr> <td data-bbox="336 999 564 1088">Gradation Gray</td> <td data-bbox="564 999 906 1088">5-gradation gray PG</td> <td data-bbox="906 999 1399 1088">To check for vertical lines on the laser scanner unit</td> </tr> <tr> <td data-bbox="336 1088 564 1214">Sample Set</td> <td data-bbox="564 1088 906 1214">Four color belts PG, Cyan PG, Magenta PG, Yellow PG and Black PG</td> <td data-bbox="906 1088 1399 1214">Pattern output for LLU assurance application</td> </tr> </tbody> </table> <ol data-bbox="304 1240 884 1308" style="list-style-type: none"> <li>3. Press the menu key.</li> <li>4. Press the OK key. A MIP-PG pattern is output.</li> </ol> <p data-bbox="288 1346 440 1375"><b>Completion</b></p> <p data-bbox="288 1379 1262 1408">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Purpose	256Gradation	256-gradation PG	To check the gradation reproducibility	Color Belt	Four color belts PG	To check the developer state and the engine section ID	Gray(C)	Cyan PG	To check the drum quality	Gray(M)	Magenta PG	To check the drum quality	Gray(Y)	Yellow PG	To check the drum quality	Gray(K)	Black PG	To check the drum quality	White	Blank paper PG	To check the drum quality	Gradation Gray	5-gradation gray PG	To check for vertical lines on the laser scanner unit	Sample Set	Four color belts PG, Cyan PG, Magenta PG, Yellow PG and Black PG	Pattern output for LLU assurance application
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Item No.	Description																																										
U100	<p data-bbox="288 241 651 275"><b>Adjusting main high voltage</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1086 376">Controls the charger roller voltage to optimize the surface potential.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1433 445">To change the setting value to adjust the image if an image failure (background blur, etc.) occurs.</p> <p data-bbox="288 450 387 479"><b>Method</b></p> <ol data-bbox="308 483 778 584" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select an item and press the OK key.</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="336 595 1401 1028"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Adj AC Bias</td> <td data-bbox="639 640 1401 685">Main charger AC bias for each color</td> </tr> <tr> <td data-bbox="336 685 639 730">Set AC Auto Adj</td> <td data-bbox="639 685 1401 730">Setting the AC bias auto adjustment</td> </tr> <tr> <td data-bbox="336 730 639 775">Set DC Bias</td> <td data-bbox="639 730 1401 775">Main charger DC bias for each color</td> </tr> <tr> <td data-bbox="336 775 639 819">Adj DC Bias</td> <td data-bbox="639 775 1401 819">Additional surface potential</td> </tr> <tr> <td data-bbox="336 819 639 864">Set Low Temp</td> <td data-bbox="639 819 1401 864">Pre-charge time at power supply ON</td> </tr> <tr> <td data-bbox="336 864 639 909">Set Charger Freq</td> <td data-bbox="639 864 1401 909">Setting the main charger frequency</td> </tr> <tr> <td data-bbox="336 909 639 954">Chk Current</td> <td data-bbox="639 909 1401 954">Rush current display</td> </tr> <tr> <td data-bbox="336 954 639 1028">Set AC Gain</td> <td data-bbox="639 954 1401 1028">Setting the AC Gain</td> </tr> </tbody> </table> <p data-bbox="288 1102 571 1133"><b>Setting: [Adj AC Bias]</b></p> <ol data-bbox="308 1137 1353 1238" style="list-style-type: none"> <li>1. Change the value using the numeric keys. Increasing the setting makes the image lighter; decreasing it makes the image darker. The values set vary depending on environments.</li> </ol> <table border="1" data-bbox="336 1249 1401 1570"> <thead> <tr> <th data-bbox="336 1249 603 1294">Display</th> <th data-bbox="603 1249 1171 1294">Description</th> <th data-bbox="1171 1249 1401 1294">Setting range</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1294 603 1339">AC(C)</td> <td data-bbox="603 1294 1171 1339">Main charger AC bias for cyan</td> <td data-bbox="1171 1294 1401 1339">0 to 255</td> </tr> <tr> <td data-bbox="336 1339 603 1384">AC(M)</td> <td data-bbox="603 1339 1171 1384">Main charger AC bias for magenta</td> <td data-bbox="1171 1339 1401 1384">0 to 255</td> </tr> <tr> <td data-bbox="336 1384 603 1429">AC(Y)</td> <td data-bbox="603 1384 1171 1429">Main charger AC bias for yellow</td> <td data-bbox="1171 1384 1401 1429">0 to 255</td> </tr> <tr> <td data-bbox="336 1429 603 1473">AC(K)</td> <td data-bbox="603 1429 1171 1473">Main charger AC bias for black</td> <td data-bbox="1171 1429 1401 1473">0 to 255</td> </tr> <tr> <td data-bbox="336 1473 603 1570">AC B/W(K)*</td> <td data-bbox="603 1473 1171 1570">Main charger AC bias for black in black/white mode</td> <td data-bbox="1171 1473 1401 1570">0 to 255</td> </tr> </tbody> </table> <p data-bbox="333 1581 595 1612">*: 55 ppm model only.</p> <ol data-bbox="308 1617 754 1648" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1684 624 1715"><b>Setting: [Set AC Auto Adj]</b></p> <ol data-bbox="308 1720 536 1751" style="list-style-type: none"> <li>1. Select On or Off.</li> </ol> <table border="1" data-bbox="336 1762 1401 1906"> <thead> <tr> <th data-bbox="336 1762 639 1807">Display</th> <th data-bbox="639 1762 1401 1807">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1807 639 1852">On</td> <td data-bbox="639 1807 1401 1852">Turns auto adjustment ON</td> </tr> <tr> <td data-bbox="336 1852 639 1906">Off</td> <td data-bbox="639 1852 1401 1906">Turns auto adjustment OFF</td> </tr> </tbody> </table> <p data-bbox="333 1917 539 1948">Initial setting: On</p> <ol data-bbox="308 1953 767 1984" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol>	Display	Description	Adj AC Bias	Main charger AC bias for each color	Set AC Auto Adj	Setting the AC bias auto adjustment	Set DC Bias	Main charger DC bias for each color	Adj DC Bias	Additional surface potential	Set Low Temp	Pre-charge time at power supply ON	Set Charger Freq	Setting the main charger frequency	Chk Current	Rush current display	Set AC Gain	Setting the AC Gain	Display	Description	Setting range	AC(C)	Main charger AC bias for cyan	0 to 255	AC(M)	Main charger AC bias for magenta	0 to 255	AC(Y)	Main charger AC bias for yellow	0 to 255	AC(K)	Main charger AC bias for black	0 to 255	AC B/W(K)*	Main charger AC bias for black in black/white mode	0 to 255	Display	Description	On	Turns auto adjustment ON	Off	Turns auto adjustment OFF
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AC(M)	Main charger AC bias for magenta	0 to 255																																									
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Item No.	Description																																																																				
U100	<p data-bbox="288 241 614 271"><b>Displaying: [Set DC Bias]</b></p> <p data-bbox="304 277 715 306">1. The current setting is displayed.</p> <table border="1" data-bbox="336 320 1401 797"> <thead> <tr> <th data-bbox="336 320 639 365">Display</th> <th data-bbox="639 320 1401 365">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 365 639 409">DC1(C)</td> <td data-bbox="639 365 1401 409">Main charger DC bias for cyan (full speed)</td> </tr> <tr> <td data-bbox="336 409 639 454">DC1 Half(C)</td> <td data-bbox="639 409 1401 454">Main charger DC bias for cyan (half speed)</td> </tr> <tr> <td data-bbox="336 454 639 499">DC1(M)</td> <td data-bbox="639 454 1401 499">Main charger DC bias for magenta (full speed)</td> </tr> <tr> <td data-bbox="336 499 639 544">DC1 Half(M)</td> <td data-bbox="639 499 1401 544">Main charger DC bias for magenta (half speed)</td> </tr> <tr> <td data-bbox="336 544 639 589">DC1(Y)</td> <td data-bbox="639 544 1401 589">Main charger DC bias for yellow (full speed)</td> </tr> <tr> <td data-bbox="336 589 639 633">DC1 Half(Y)</td> <td data-bbox="639 589 1401 633">Main charger DC bias for yellow (half speed)</td> </tr> <tr> <td data-bbox="336 633 639 678">DC1(K)</td> <td data-bbox="639 633 1401 678">Main charger DC bias for black (full speed)</td> </tr> <tr> <td data-bbox="336 678 639 723">DC1 Half(K)</td> <td data-bbox="639 678 1401 723">Main charger DC bias for black (half speed)</td> </tr> <tr> <td data-bbox="336 723 639 797">DC1 B/W(K)*</td> <td data-bbox="639 723 1401 797">Main charger DC bias for black in black/white mode</td> </tr> </tbody> </table> <p data-bbox="336 808 592 837">*: 55 ppm model only.</p> <p data-bbox="288 880 571 909"><b>Setting: [Adj DC Bias]</b></p> <p data-bbox="304 916 632 945">1. Select the item to be set.</p> <p data-bbox="304 952 834 981">2. Change the value using the numeric keys.</p> <p data-bbox="336 987 1358 1016">Increasing the setting makes the image lighter; decreasing it makes the image darker.</p> <table border="1" data-bbox="336 1028 1385 1641"> <thead> <tr> <th data-bbox="336 1028 571 1104">Display</th> <th data-bbox="571 1028 1118 1104">Description</th> <th data-bbox="1118 1028 1270 1104">Setting range</th> <th data-bbox="1270 1028 1385 1104">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1104 571 1149">DC2(C)</td> <td data-bbox="571 1104 1118 1149">Main charger DC bias for cyan (full speed)</td> <td data-bbox="1118 1104 1270 1149">128 to 127</td> <td data-bbox="1270 1104 1385 1149">0</td> </tr> <tr> <td data-bbox="336 1149 571 1193">DC2 Half(C)</td> <td data-bbox="571 1149 1118 1193">Main charger DC bias for cyan (half speed)</td> <td data-bbox="1118 1149 1270 1193">128 to 127</td> <td data-bbox="1270 1149 1385 1193">0</td> </tr> <tr> <td data-bbox="336 1193 571 1283">DC2(M)</td> <td data-bbox="571 1193 1118 1283">Main charger DC bias for magenta (full speed)</td> <td data-bbox="1118 1193 1270 1283">128 to 127</td> <td data-bbox="1270 1193 1385 1283">0</td> </tr> <tr> <td data-bbox="336 1283 571 1373">DC2 Half(M)</td> <td data-bbox="571 1283 1118 1373">Main charger DC bias for magenta (half speed)</td> <td data-bbox="1118 1283 1270 1373">128 to 127</td> <td data-bbox="1270 1283 1385 1373">0</td> </tr> <tr> <td data-bbox="336 1373 571 1417">DC2(Y)</td> <td data-bbox="571 1373 1118 1417">Main charger DC bias for yellow (full speed)</td> <td data-bbox="1118 1373 1270 1417">128 to 127</td> <td data-bbox="1270 1373 1385 1417">0</td> </tr> <tr> <td data-bbox="336 1417 571 1462">DC2 Half(Y)</td> <td data-bbox="571 1417 1118 1462">Main charger DC bias for yellow (half speed)</td> <td data-bbox="1118 1417 1270 1462">128 to 127</td> <td data-bbox="1270 1417 1385 1462">0</td> </tr> <tr> <td data-bbox="336 1462 571 1507">DC2(K)</td> <td data-bbox="571 1462 1118 1507">Main charger DC bias for black (full speed)</td> <td data-bbox="1118 1462 1270 1507">128 to 127</td> <td data-bbox="1270 1462 1385 1507">0</td> </tr> <tr> <td data-bbox="336 1507 571 1552">DC2 Half(K)</td> <td data-bbox="571 1507 1118 1552">Main charger DC bias for black (half speed)</td> <td data-bbox="1118 1507 1270 1552">128 to 127</td> <td data-bbox="1270 1507 1385 1552">0</td> </tr> <tr> <td data-bbox="336 1552 571 1641">DC2 B/W(K)*</td> <td data-bbox="571 1552 1118 1641">Main charger DC bias for black in black/white mode</td> <td data-bbox="1118 1552 1270 1641"></td> <td data-bbox="1270 1552 1385 1641"></td> </tr> </tbody> </table> <p data-bbox="336 1653 592 1682">*: 55 ppm model only.</p> <p data-bbox="304 1688 751 1718">3. Press the OK key. The value is set.</p> <p data-bbox="288 1760 596 1789"><b>Setting: [Set Low Temp]</b></p> <p data-bbox="304 1796 842 1825">1. Change the value using the numeric keys.</p> <table border="1" data-bbox="336 1836 1385 1962"> <thead> <tr> <th data-bbox="336 1836 563 1912">Display</th> <th data-bbox="563 1836 1050 1912">Description</th> <th data-bbox="1050 1836 1217 1912">Setting range</th> <th data-bbox="1217 1836 1385 1912">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1912 563 1962">Set Low Temp</td> <td data-bbox="563 1912 1050 1962">Pre-charge time at power supply ON</td> <td data-bbox="1050 1912 1217 1962">0 to 6</td> <td data-bbox="1217 1912 1385 1962">1</td> </tr> </tbody> </table> <p data-bbox="304 1973 751 2002">2. Press the OK key. The value is set.</p>	Display	Description	DC1(C)	Main charger DC bias for cyan (full speed)	DC1 Half(C)	Main charger DC bias for cyan (half speed)	DC1(M)	Main charger DC bias for magenta (full speed)	DC1 Half(M)	Main charger DC bias for magenta (half speed)	DC1(Y)	Main charger DC bias for yellow (full speed)	DC1 Half(Y)	Main charger DC bias for yellow (half speed)	DC1(K)	Main charger DC bias for black (full speed)	DC1 Half(K)	Main charger DC bias for black (half speed)	DC1 B/W(K)*	Main charger DC bias for black in black/white mode	Display	Description	Setting range	Initial setting	DC2(C)	Main charger DC bias for cyan (full speed)	128 to 127	0	DC2 Half(C)	Main charger DC bias for cyan (half speed)	128 to 127	0	DC2(M)	Main charger DC bias for magenta (full speed)	128 to 127	0	DC2 Half(M)	Main charger DC bias for magenta (half speed)	128 to 127	0	DC2(Y)	Main charger DC bias for yellow (full speed)	128 to 127	0	DC2 Half(Y)	Main charger DC bias for yellow (half speed)	128 to 127	0	DC2(K)	Main charger DC bias for black (full speed)	128 to 127	0	DC2 Half(K)	Main charger DC bias for black (half speed)	128 to 127	0	DC2 B/W(K)*	Main charger DC bias for black in black/white mode			Display	Description	Setting range	Initial setting	Set Low Temp	Pre-charge time at power supply ON	0 to 6	1
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U100	<p data-bbox="288 241 635 271"><b>Setting: [Set Charger Freq]</b></p> <p data-bbox="288 275 847 338">1. Select the item to be set. 2. Change the value using the numeric keys.</p> <table border="1" data-bbox="336 353 1401 779"> <thead> <tr> <th rowspan="2">Display</th> <th rowspan="2">Description</th> <th rowspan="2">Setting range</th> <th colspan="2">Initial setting</th> </tr> <tr> <th>45ppm</th> <th>55ppm</th> </tr> </thead> <tbody> <tr> <td>Generally</td> <td>Main charger frequency</td> <td>7500 to 11280</td> <td>8807</td> <td>11022</td> </tr> <tr> <td>B/W*</td> <td>Main charger frequency in black/white mode</td> <td>7500 to 11280</td> <td>-</td> <td>10690</td> </tr> <tr> <td>Half</td> <td>Main charger frequency in half speed</td> <td>7500 to 11280</td> <td>10690</td> <td>10690</td> </tr> <tr> <td>3/4</td> <td>Main charger frequency at 3/4 times of line speed</td> <td>7500 to 11280</td> <td>8857</td> <td>8857</td> </tr> </tbody> </table> <p data-bbox="336 790 595 819">*: 55 ppm model only.</p> <p data-bbox="288 824 751 853">3. Press the OK key. The value is set.</p> <p data-bbox="288 896 616 925"><b>Displaying: [Chk Current]</b></p> <p data-bbox="288 929 715 958">1. The current setting is displayed.</p> <table border="1" data-bbox="336 974 1401 1211"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Cyan rush current</td> </tr> <tr> <td>M</td> <td>Magenta rush current</td> </tr> <tr> <td>Y</td> <td>Yellow rush current</td> </tr> <tr> <td>K</td> <td>Black rush current</td> </tr> </tbody> </table> <p data-bbox="288 1261 571 1290"><b>Setting: [Set AC Gain]</b></p> <p data-bbox="288 1294 632 1323">1. Select the item to be set.</p> <table border="1" data-bbox="336 1339 1401 1576"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Auto</td> <td>Auto control</td> </tr> <tr> <td>Mode1</td> <td>Multiplication value 0.95</td> </tr> <tr> <td>Mode2</td> <td>Multiplication value 1.05</td> </tr> <tr> <td>Mode3</td> <td>Multiplication value 1.00</td> </tr> </tbody> </table> <p data-bbox="336 1590 557 1619">Initial setting: Auto</p> <p data-bbox="288 1624 767 1653">2. Press the OK key. The setting is set.</p> <p data-bbox="288 1695 440 1724"><b>Completion</b></p> <p data-bbox="288 1729 1126 1758">Press the Back key. The screen for maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting		45ppm	55ppm	Generally	Main charger frequency	7500 to 11280	8807	11022	B/W*	Main charger frequency in black/white mode	7500 to 11280	-	10690	Half	Main charger frequency in half speed	7500 to 11280	10690	10690	3/4	Main charger frequency at 3/4 times of line speed	7500 to 11280	8857	8857	Display	Description	C	Cyan rush current	M	Magenta rush current	Y	Yellow rush current	K	Black rush current	Display	Description	Auto	Auto control	Mode1	Multiplication value 0.95	Mode2	Multiplication value 1.05	Mode3	Multiplication value 1.00
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U101	<p data-bbox="288 241 836 275"><b>Setting the voltage for the primary transfer</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 855 376">Sets the control voltage for the primary transfer.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1262 445">To change the setting when any density problems, such as too dark or light, occur.</p> <p data-bbox="288 483 384 512"><b>Setting</b></p> <ol data-bbox="304 517 632 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 595 1399 871"> <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">Normal</td> <td data-bbox="639 640 1399 685">Setting the primary transfer positive voltage</td> </tr> <tr> <td data-bbox="336 685 639 775">Add Color</td> <td data-bbox="639 685 1399 775">Setting the addition value (The addition value at the surface is referenced as standard)</td> </tr> <tr> <td data-bbox="336 775 639 819">Add Color 2nd</td> <td data-bbox="639 775 1399 819">Setting the addition value for the second side</td> </tr> <tr> <td data-bbox="336 819 639 871">Surround Correct</td> <td data-bbox="639 819 1399 871">Environmental correction ON/OFF setting</td> </tr> </tbody> </table> <p data-bbox="288 916 512 947"><b>Setting: [Normal]</b></p> <ol data-bbox="304 952 847 1016" style="list-style-type: none"> <li>1. 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Change the value using the numeric keys.II</li> </ol> <table border="1" data-bbox="336 1028 1399 1525"> <thead> <tr> <th data-bbox="336 1028 472 1122" rowspan="2">Display</th> <th data-bbox="472 1028 852 1122" rowspan="2">Description</th> <th data-bbox="852 1028 1003 1122" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1003 1028 1399 1072">Initial setting</th> </tr> <tr> <th data-bbox="1003 1072 1203 1122">45ppm</th> <th data-bbox="1203 1072 1399 1122">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1122 472 1207">Full</td> <td data-bbox="472 1122 852 1207">Primary transfer positive voltage for yellow (full speed)</td> <td data-bbox="852 1122 1003 1207">0 to 255</td> <td data-bbox="1003 1122 1203 1207">126</td> <td data-bbox="1203 1122 1399 1207">131</td> </tr> <tr> <td data-bbox="336 1207 472 1292">Half</td> <td data-bbox="472 1207 852 1292">Primary transfer positive voltage for yellow (half speed)</td> <td data-bbox="852 1207 1003 1292">0 to 255</td> <td data-bbox="1003 1207 1203 1292">108</td> <td data-bbox="1203 1207 1399 1292">110</td> </tr> <tr> <td data-bbox="336 1292 472 1408">3/4</td> <td data-bbox="472 1292 852 1408">Primary transfer positive voltage for yellow at 3/4 times of line speed</td> <td data-bbox="852 1292 1003 1408">0 to 255</td> <td data-bbox="1003 1292 1203 1408">118</td> <td data-bbox="1203 1292 1399 1408">118</td> </tr> <tr> <td data-bbox="336 1408 472 1525">B/W*</td> <td data-bbox="472 1408 852 1525">Primary transfer positive voltage for yellow in black/white mode</td> <td data-bbox="852 1408 1003 1525">0 to 255</td> <td data-bbox="1003 1408 1203 1525">-</td> <td data-bbox="1203 1408 1399 1525">135</td> </tr> </tbody> </table> <p data-bbox="333 1534 595 1565">*: 55 ppm model only.</p> <ol data-bbox="304 1570 754 1601" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1637 547 1668"><b>Setting: [Add Color]</b></p> <ol data-bbox="304 1673 842 1738" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. 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The value is set.</li> </ol>	Display	Description	Normal	Setting the primary transfer positive voltage	Add Color	Setting the addition value (The addition value at the surface is referenced as standard)	Add Color 2nd	Setting the addition value for the second side	Surround Correct	Environmental correction ON/OFF setting	Display	Description	Setting range	Initial setting		45ppm	55ppm	Full	Primary transfer positive voltage for yellow (full speed)	0 to 255	126	131	Half	Primary transfer positive voltage for yellow (half speed)	0 to 255	108	110	3/4	Primary transfer positive voltage for yellow at 3/4 times of line speed	0 to 255	118	118	B/W*	Primary transfer positive voltage for yellow in black/white mode	0 to 255	-	135	Display	Description	Setting range	Initial setting	Normal	Regular	-127 to 127	2	Heavy4/5	Heavy 4/5	-127 to 127	2
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U106	<p data-bbox="290 241 871 273"><b>Setting the voltage for the secondary transfer</b></p> <p data-bbox="290 311 440 338"><b>Description</b></p> <p data-bbox="290 344 1257 376">Sets the control voltage for the secondary transfer depending on each paper type.</p> <p data-bbox="290 383 400 409"><b>Purpose</b></p> <p data-bbox="290 416 1262 445">To change the setting when any density problems, such as too dark or light, occur.</p> <p data-bbox="290 483 387 510"><b>Method</b></p> <ol data-bbox="308 517 632 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 595 1399 1317"> <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="336 640 639 725">Light/Normal1</td> <td data-bbox="639 640 1399 725">Control voltage for the transfer bias on paper with thickness 52 g/m<sup>2</sup> to 64 g/m<sup>2</sup> and 65 g/m<sup>2</sup> to 75 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 725 639 810">Normal2/3</td> <td data-bbox="639 725 1399 810">Control voltage for the transfer bias on paper with thickness 76 g/m<sup>2</sup> to 105 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 810 639 896">Heavy1</td> <td data-bbox="639 810 1399 896">Control voltage for the transfer bias on paper with thickness 106 g/m<sup>2</sup> to 135 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 896 639 981">Heavy2</td> <td data-bbox="639 896 1399 981">Control voltage for the transfer bias on paper with thickness 136 g/m<sup>2</sup> to 163 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 981 639 1066">Heavy3</td> <td data-bbox="639 981 1399 1066">Control voltage for the transfer bias on paper with thickness 164 g/m<sup>2</sup> to 220 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 1066 639 1151">Heavy4</td> <td data-bbox="639 1066 1399 1151">Control voltage for the transfer bias on paper with thickness 221 g/m<sup>2</sup> to 256 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 1151 639 1236">Heavy5</td> <td data-bbox="639 1151 1399 1236">Control voltage for the transfer bias on paper with thickness 257 g/m<sup>2</sup> to 300 g/m<sup>2</sup></td> </tr> <tr> <td data-bbox="336 1236 639 1281">Bias</td> <td data-bbox="639 1236 1399 1281">Transfer bias value</td> </tr> <tr> <td data-bbox="336 1281 639 1317">OHP</td> <td data-bbox="639 1281 1399 1317">Control voltage for the transfer bias for transparencies</td> </tr> </tbody> </table> <p data-bbox="290 1368 596 1400"><b>Setting: [Light/Normal1]</b></p> <ol data-bbox="308 1406 632 1435" style="list-style-type: none"> <li>1. 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Item No.	Description				
U106	[1st]				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	Width=105	105 mm wide	0 to 255	143	150
	Width=210	210 mm wide	0 to 255	134	139
	Width=297	297 mm wide	0 to 255	120	128
	[2nd]				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	Width=105	105 mm wide	0 to 255	207	220
	Width=210	210 mm wide	0 to 255	155	163
	Width=297	297 mm wide	0 to 255	124	128
	[1st 3/4(Gloss)]				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
			<b>45ppm</b>	<b>55ppm</b>	
Width=105	105 mm wide	0 to 255	131	131	
Width=210	210 mm wide	0 to 255	123	123	
Width=297	297 mm wide	0 to 255	120	120	
[2nd 3/4(Gloss)]					
<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
			<b>45ppm</b>	<b>55ppm</b>	
Width=105	105 mm wide	0 to 255	180	180	
Width=210	210 mm wide	0 to 255	140	140	
Width=297	297 mm wide	0 to 255	120	120	
[1st B/W]					
<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
			<b>55ppm</b>		
Width=105	105 mm wide	0 to 255	150		
Width=210	210 mm wide	0 to 255	144		
Width=297	297 mm wide	0 to 255	128		
[2nd B/W]					
<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
			<b>55ppm</b>		
Width=105	105 mm wide	0 to 255	183		
Width=210	210 mm wide	0 to 255	171		
Width=297	297 mm wide	0 to 255	128		
4. Press the OK key. The value is set.					

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<table border="1"> <thead> <tr> <th rowspan="2">Display</th> <th rowspan="2">Description</th> <th rowspan="2">Setting range</th> <th colspan="2">Initial setting</th> </tr> <tr> <th>45ppm</th> <th>55ppm</th> </tr> </thead> <tbody> <tr> <td>Width=105</td> <td>105 mm wide</td> <td>0 to 255</td> <td>133</td> <td>133</td> </tr> <tr> <td>Width=210</td> <td>210 mm wide</td> <td>0 to 255</td> <td>129</td> <td>129</td> </tr> <tr> <td>Width=297</td> <td>297 mm wide</td> <td>0 to 255</td> <td>124</td> <td>124</td> </tr> </tbody> </table>	Display	Description	Setting range	Initial setting		45ppm	55ppm	Width=105	105 mm wide	0 to 255	133	133	Width=210	210 mm wide	0 to 255	129	129	Width=297	297 mm wide	0 to 255	124	124	
Display				Description	Setting range	Initial setting																	
	45ppm	55ppm																					
Width=105	105 mm wide	0 to 255	133	133																			
Width=210	210 mm wide	0 to 255	129	129																			
Width=297	297 mm wide	0 to 255	124	124																			

Item No.	Description					
<b>U106</b>	[2nd 3/4]					
	<b>Display</b>		<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
					<b>45ppm</b>	<b>55ppm</b>
	Width=105	105 mm wide	0 to 255	155	155	
	Width=210	210 mm wide	0 to 255	150	150	
	Width=297	297 mm wide	0 to 255	124	124	
	4. Press the OK key. The value is set.					
	<b>Setting: [Heavy4/5]</b>					
	1. Select the item to be set.					
	<b>Display</b>		<b>Description</b>			
1st Half		Control voltage for the transfer bias for the first side (half speed)				
2nd Half		Control voltage for the transfer bias for the second side (half speed)				
2. Select the paper width to be set.						
3. Change the value using the numeric keys.						
[1st Half]						
<b>Display</b>		<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
				<b>45ppm</b>	<b>55ppm</b>	
Width=105	105 mm wide	0 to 255	126	130		
Width=210	210 mm wide	0 to 255	123	127		
Width=297	297 mm wide	0 to 255	119	122		
[2nd Half]						
<b>Display</b>		<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
				<b>45ppm</b>	<b>55ppm</b>	
Width=105	105 mm wide	0 to 255	144	151		
Width=210	210 mm wide	0 to 255	140	146		
Width=297	297 mm wide	0 to 255	119	122		
4. Press the OK key. The value is set.						
<b>Setting: [OHP]</b>						
1. Select the item to be set.						
2. Change the value using the numeric keys.						
<b>Display</b>		<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
				<b>45ppm</b>	<b>55ppm</b>	
Width=105	105 mm wide	0 to 255	134	139		
Width=210	210 mm wide	0 to 255	129	133		
Width=297	297 mm wide	0 to 255	124	128		
3. Press the OK key. The value is set.						

Item No.	Description																																														
<b>U106</b>	<b>Setting: [Bias]</b>																																														
	1. Select the item to be set. 2. Change the value using the numeric keys.																																														
	<table border="1"> <thead> <tr> <th data-bbox="336 356 488 450" rowspan="2">Display</th> <th data-bbox="488 356 852 450" rowspan="2">Description</th> <th data-bbox="852 356 1003 450" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1003 356 1399 400">Initial setting</th> </tr> <tr> <th data-bbox="1003 400 1203 450">45ppm</th> <th data-bbox="1203 400 1399 450">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 450 488 533">Reverse</td> <td data-bbox="488 450 852 533">Transfer reverse bias (full speed)</td> <td data-bbox="852 450 1003 533">0 to 255</td> <td data-bbox="1003 450 1203 533">1</td> <td data-bbox="1203 450 1399 533">1</td> </tr> <tr> <td data-bbox="336 533 488 616">Reverse Half</td> <td data-bbox="488 533 852 616">Transfer reverse bias (half speed)</td> <td data-bbox="852 533 1003 616">0 to 255</td> <td data-bbox="1003 533 1203 616">1</td> <td data-bbox="1203 533 1399 616">1</td> </tr> <tr> <td data-bbox="336 616 488 698">Reverse 3/4</td> <td data-bbox="488 616 852 698">Transfer reverse bias at 3/4 times of line speed</td> <td data-bbox="852 616 1003 698">0 to 255</td> <td data-bbox="1003 616 1203 698">1</td> <td data-bbox="1203 616 1399 698">1</td> </tr> <tr> <td data-bbox="336 698 488 781">Reverse B/W*</td> <td data-bbox="488 698 852 781">Transfer reverse bias in black/white mode</td> <td data-bbox="852 698 1003 781">0 to 255</td> <td data-bbox="1003 698 1203 781">-</td> <td data-bbox="1203 698 1399 781">1</td> </tr> <tr> <td data-bbox="336 781 488 864">Cleaning</td> <td data-bbox="488 781 852 864">Cleaning control value (full speed)</td> <td data-bbox="852 781 1003 864">0 to 255</td> <td data-bbox="1003 781 1203 864">138</td> <td data-bbox="1203 781 1399 864">143</td> </tr> <tr> <td data-bbox="336 864 488 947">Cleaning Half</td> <td data-bbox="488 864 852 947">Cleaning control value (half speed)</td> <td data-bbox="852 864 1003 947">0 to 255</td> <td data-bbox="1003 864 1203 947">126</td> <td data-bbox="1203 864 1399 947">130</td> </tr> <tr> <td data-bbox="336 947 488 1030">Cleaning 3/4</td> <td data-bbox="488 947 852 1030">Cleaning control value at 3/4 times of line speed</td> <td data-bbox="852 947 1003 1030">0 to 255</td> <td data-bbox="1003 947 1203 1030">133</td> <td data-bbox="1203 947 1399 1030">133</td> </tr> </tbody> </table>					Display	Description	Setting range	Initial setting		45ppm	55ppm	Reverse	Transfer reverse bias (full speed)	0 to 255	1	1	Reverse Half	Transfer reverse bias (half speed)	0 to 255	1	1	Reverse 3/4	Transfer reverse bias at 3/4 times of line speed	0 to 255	1	1	Reverse B/W*	Transfer reverse bias in black/white mode	0 to 255	-	1	Cleaning	Cleaning control value (full speed)	0 to 255	138	143	Cleaning Half	Cleaning control value (half speed)	0 to 255	126	130	Cleaning 3/4	Cleaning control value at 3/4 times of line speed	0 to 255	133	133
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Press the Back key. The screen for selecting a maintenance item No. is displayed.																																															

Item No.	Description																																																												
U107	<p data-bbox="288 241 754 275"><b>Setting the transfer cleaning voltage</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 924 374">Sets the cleaning control voltage for transfer belt unit.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1323 443">Change settings if an offset has occurred due to the failure of cleaning the transfer belt.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 632 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 595 1401 741"> <thead> <tr> <th data-bbox="336 595 564 640">Display</th> <th data-bbox="564 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 564 685">Belt(A)</td> <td data-bbox="564 640 1401 685">Transfer belt cleaning voltage (printing)</td> </tr> <tr> <td data-bbox="336 685 564 741">Belt(B)</td> <td data-bbox="564 685 1401 741">Transfer belt cleaning voltage (paper interval)</td> </tr> </tbody> </table> <ol data-bbox="304 752 836 817" style="list-style-type: none"> <li>3. Select the item to be set.</li> <li>4. Change the value using the numeric keys.</li> </ol> <p data-bbox="336 822 435 851">[Belt(A)]</p> <table border="1" data-bbox="336 864 1431 1151"> <thead> <tr> <th data-bbox="336 864 504 958" rowspan="2">Display</th> <th data-bbox="504 864 852 958" rowspan="2">Description</th> <th data-bbox="852 864 1003 958" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1003 864 1431 909">Initial setting</th> </tr> <tr> <th data-bbox="1003 909 1219 958">45ppm</th> <th data-bbox="1219 909 1431 958">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 958 504 1003">Full</td> <td data-bbox="504 958 852 1003">Full speed</td> <td data-bbox="852 958 1003 1003">0 to 255</td> <td data-bbox="1003 958 1219 1003">202</td> <td data-bbox="1219 958 1431 1003">207</td> </tr> <tr> <td data-bbox="336 1003 504 1048">Half</td> <td data-bbox="504 1003 852 1048">Half speed</td> <td data-bbox="852 1003 1003 1048">0 to 255</td> <td data-bbox="1003 1003 1219 1048">180</td> <td data-bbox="1219 1003 1431 1048">182</td> </tr> <tr> <td data-bbox="336 1048 504 1093">3/4</td> <td data-bbox="504 1048 852 1093">3/4 times of line speed</td> <td data-bbox="852 1048 1003 1093">0 to 255</td> <td data-bbox="1003 1048 1219 1093">192</td> <td data-bbox="1219 1048 1431 1093">192</td> </tr> <tr> <td data-bbox="336 1093 504 1151">B/W*</td> <td data-bbox="504 1093 852 1151">Black/white mode</td> <td data-bbox="852 1093 1003 1151">0 to 255</td> <td data-bbox="1003 1093 1219 1151">-</td> <td data-bbox="1219 1093 1431 1151">212</td> </tr> </tbody> </table> <p data-bbox="336 1162 435 1191">[Belt(B)]</p> <table border="1" data-bbox="336 1205 1431 1491"> <thead> <tr> <th data-bbox="336 1205 504 1299" rowspan="2">Display</th> <th data-bbox="504 1205 852 1299" rowspan="2">Description</th> <th data-bbox="852 1205 1003 1299" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1003 1205 1431 1249">Initial setting</th> </tr> <tr> <th data-bbox="1003 1249 1219 1299">45ppm</th> <th data-bbox="1219 1249 1431 1299">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1299 504 1344">Full</td> <td data-bbox="504 1299 852 1344">Full speed</td> <td data-bbox="852 1299 1003 1344">0 to 255</td> <td data-bbox="1003 1299 1219 1344">150</td> <td data-bbox="1219 1299 1431 1344">160</td> </tr> <tr> <td data-bbox="336 1344 504 1388">Half</td> <td data-bbox="504 1344 852 1388">Half speed</td> <td data-bbox="852 1344 1003 1388">0 to 255</td> <td data-bbox="1003 1344 1219 1388">110</td> <td data-bbox="1219 1344 1431 1388">110</td> </tr> <tr> <td data-bbox="336 1388 504 1433">3/4</td> <td data-bbox="504 1388 852 1433">3/4 times of line speed</td> <td data-bbox="852 1388 1003 1433">0 to 255</td> <td data-bbox="1003 1388 1219 1433">130</td> <td data-bbox="1219 1388 1431 1433">130</td> </tr> <tr> <td data-bbox="336 1433 504 1491">B/W*</td> <td data-bbox="504 1433 852 1491">Black/white mode</td> <td data-bbox="852 1433 1003 1491">0 to 255</td> <td data-bbox="1003 1433 1219 1491">-</td> <td data-bbox="1219 1433 1431 1491">160</td> </tr> </tbody> </table> <p data-bbox="336 1503 595 1532">*: 55 ppm model only.</p> <ol data-bbox="304 1536 754 1565" style="list-style-type: none"> <li>5. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1641 440 1671"><b>Completion</b></p> <p data-bbox="288 1675 1262 1704">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Belt(A)	Transfer belt cleaning voltage (printing)	Belt(B)	Transfer belt cleaning voltage (paper interval)	Display	Description	Setting range	Initial setting		45ppm	55ppm	Full	Full speed	0 to 255	202	207	Half	Half speed	0 to 255	180	182	3/4	3/4 times of line speed	0 to 255	192	192	B/W*	Black/white mode	0 to 255	-	212	Display	Description	Setting range	Initial setting		45ppm	55ppm	Full	Full speed	0 to 255	150	160	Half	Half speed	0 to 255	110	110	3/4	3/4 times of line speed	0 to 255	130	130	B/W*	Black/white mode	0 to 255	-	160
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B/W*	Black/white mode	0 to 255	-	160																																																									

Item No.	Description																																								
U108	<p data-bbox="287 241 651 275"><b>Setting separation shift bias</b></p> <p data-bbox="287 309 440 342"><b>Description</b></p> <p data-bbox="287 344 983 378">Adjusts output of separation shift bias and ON/OFF timing.</p> <p data-bbox="287 380 400 414"><b>Purpose</b></p> <p data-bbox="287 416 994 450">To set when the separated malfunction of the paper occurs.</p> <p data-bbox="287 483 387 517"><b>Method</b></p> <ol data-bbox="304 519 633 584" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 595 1399 889"> <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">Output</td> <td data-bbox="639 640 1399 685">Adjusting the separation shift bias output</td> </tr> <tr> <td data-bbox="336 685 639 730">Output 3/4</td> <td data-bbox="639 685 1399 730">Adjusting the separation shift bias output</td> </tr> <tr> <td data-bbox="336 730 639 775">Output B/W*</td> <td data-bbox="639 730 1399 775">Adjusting the separation shift bias output in black/white mode</td> </tr> <tr> <td data-bbox="336 775 639 819">Timing</td> <td data-bbox="639 775 1399 819">Adjusting the ON/OFF timing with paper position</td> </tr> <tr> <td data-bbox="336 819 639 889">Subtraction Value</td> <td data-bbox="639 819 1399 889"></td> </tr> </tbody> </table> <p data-bbox="336 898 612 931">*: 55 ppm model only.</p> <p data-bbox="287 965 504 999"><b>Setting: [Output]</b></p> <ol data-bbox="304 1001 1102 1066" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. Change the setting value using the numeric keys or numeric key.</li> </ol> <table border="1" data-bbox="336 1077 1399 1655"> <thead> <tr> <th data-bbox="336 1077 564 1155">Display</th> <th data-bbox="564 1077 1066 1155">Description</th> <th data-bbox="1066 1077 1233 1155">Setting range</th> <th data-bbox="1233 1077 1399 1155">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1155 564 1234">Light 1st</td> <td data-bbox="564 1155 1066 1234">Separation shift bias for the first side on paper with thickness 52 to 64 g/m<sup>2</sup></td> <td data-bbox="1066 1155 1233 1234">0 to 255</td> <td data-bbox="1233 1155 1399 1234">55</td> </tr> <tr> <td data-bbox="336 1234 564 1312">Light 2nd</td> <td data-bbox="564 1234 1066 1312">Separation shift bias for the second side on paper with thickness 52 to 64 g/m<sup>2</sup></td> <td data-bbox="1066 1234 1233 1312">0 to 255</td> <td data-bbox="1233 1234 1399 1312">55</td> </tr> <tr> <td data-bbox="336 1312 564 1391">Normal 1st</td> <td data-bbox="564 1312 1066 1391">Separation shift bias for the first side on paper with thickness 65 to 75 g/m<sup>2</sup></td> <td data-bbox="1066 1312 1233 1391">0 to 255</td> <td data-bbox="1233 1312 1399 1391">55</td> </tr> <tr> <td data-bbox="336 1391 564 1469">Normal 2nd</td> <td data-bbox="564 1391 1066 1469">Separation shift bias for the second side on paper with thickness 65 to 75 g/m<sup>2</sup></td> <td data-bbox="1066 1391 1233 1469">0 to 255</td> <td data-bbox="1233 1391 1399 1469">55</td> </tr> <tr> <td data-bbox="336 1469 564 1547">Add Lead</td> <td data-bbox="564 1469 1066 1547">Addition value for leading edge on paper with thickness 76 to 105 g/m<sup>2</sup></td> <td data-bbox="1066 1469 1233 1547">-127 to 127</td> <td data-bbox="1233 1469 1399 1547">0</td> </tr> <tr> <td data-bbox="336 1547 564 1655">Heavy/OHP</td> <td data-bbox="564 1547 1066 1655">Separation shift bias for transparencies or paper with thickness 106 to 300 g/m<sup>2</sup></td> <td data-bbox="1066 1547 1233 1655">0 to 255</td> <td data-bbox="1233 1547 1399 1655">0</td> </tr> </tbody> </table> <ol data-bbox="304 1666 754 1700" style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol>	Display	Description	Output	Adjusting the separation shift bias output	Output 3/4	Adjusting the separation shift bias output	Output B/W*	Adjusting the separation shift bias output in black/white mode	Timing	Adjusting the ON/OFF timing with paper position	Subtraction Value		Display	Description	Setting range	Initial setting	Light 1st	Separation shift bias for the first side on paper with thickness 52 to 64 g/m <sup>2</sup>	0 to 255	55	Light 2nd	Separation shift bias for the second side on paper with thickness 52 to 64 g/m <sup>2</sup>	0 to 255	55	Normal 1st	Separation shift bias for the first side on paper with thickness 65 to 75 g/m <sup>2</sup>	0 to 255	55	Normal 2nd	Separation shift bias for the second side on paper with thickness 65 to 75 g/m <sup>2</sup>	0 to 255	55	Add Lead	Addition value for leading edge on paper with thickness 76 to 105 g/m <sup>2</sup>	-127 to 127	0	Heavy/OHP	Separation shift bias for transparencies or paper with thickness 106 to 300 g/m <sup>2</sup>	0 to 255	0
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Add Lead	Addition value for leading edge on paper with thickness 76 to 105 g/m <sup>2</sup>	-127 to 127	0																																						
Heavy/OHP	Separation shift bias for transparencies or paper with thickness 106 to 300 g/m <sup>2</sup>	0 to 255	0																																						

Item No.	Description								
U108	<b>Setting: [Output 3/4 / Output B/W]</b>								
	1. Select the item to be set. 2. Change the setting value using the numeric keys or numeric key.								
	<b>Display</b>		<b>Description</b>		<b>Setting range</b>	<b>Initial setting</b>			
	<b>Output 3/4</b>		<b>Output B/W*</b>						
	Light 1st	Separation shift bias for the first side on paper with thickness 52 to 64 g/m <sup>2</sup>		0 to 255	55	20			
	Light 2nd	Separation shift bias for the second side on paper with thickness 52 to 64 g/m <sup>2</sup>		0 to 255	55	20			
	Normal 1st	Separation shift bias for the first side on paper with thickness 65 to 75 g/m <sup>2</sup>		0 to 255	55	20			
	Normal 2nd	Separation shift bias for the second side on paper with thickness 65 to 75 g/m <sup>2</sup>		0 to 255	55	20			
	* : 55 ppm model only.								
	3. Press the OK key. The value is set.								
	<b>Setting: [Timing]</b>								
	1. Select the item to be set. 2. Change the setting value using the numeric keys or numeric key.								
	<b>Display</b>		<b>Description</b>		<b>Setting range</b>	<b>Initial setting</b>			
	On Lead		Separation shift bias ON timing at leading edge of paper		-200 to 200	0			
	On Center		Separation shift bias ON timing at center of paper		-200 to 200	0			
Off		Separation shift bias OFF timing		-200 to 200	0				
3. Press the OK key. The value is set.									
<b>Setting: [Subtraction Value]</b>									
1. Change the setting value using the numeric keys or numeric key.									
<b>Display</b>		<b>Description</b>		<b>Setting range</b>	<b>Initial setting</b>				
Value				-127 to 127	-35				
2. Press the OK key. The value is set.									
<b>Completion</b>									
Press the Back key. The screen for selecting a maintenance item No. is displayed.									

Item No.	Description										
U110	<p><b>Checking the drum count</b></p> <p><b>Description</b> Displays the drum counts for checking.</p> <p><b>Purpose</b> To check the drum status.</p> <p><b>Method</b> 1. Press the OK key. The current drum counts is displayed.</p> <table border="1" data-bbox="336 562 1401 801"> <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="336 607 639 651">C</td> <td data-bbox="639 607 1401 651">Drum count value for cyan</td> </tr> <tr> <td data-bbox="336 651 639 696">M</td> <td data-bbox="639 651 1401 696">Drum count value for magenta</td> </tr> <tr> <td data-bbox="336 696 639 741">Y</td> <td data-bbox="639 696 1401 741">Drum count value for yellow</td> </tr> <tr> <td data-bbox="336 741 639 786">K</td> <td data-bbox="639 741 1401 786">Drum count value for black</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Drum count value for cyan	M	Drum count value for magenta	Y	Drum count value for yellow	K	Drum count value for black
Display	Description										
C	Drum count value for cyan										
M	Drum count value for magenta										
Y	Drum count value for yellow										
K	Drum count value for black										
U111	<p><b>Checking the drum drive time</b></p> <p><b>Description</b> Displays the drum drive time for checking a figure, which is used as a reference when correcting the high voltage based on time.</p> <p><b>Purpose</b> To check the drum status.</p> <p><b>Method</b> 1. Press the OK key. The drum drive time is displayed.</p> <table border="1" data-bbox="336 1285 1401 1525"> <thead> <tr> <th data-bbox="336 1285 639 1330">Display</th> <th data-bbox="639 1285 1401 1330">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1330 639 1375">C</td> <td data-bbox="639 1330 1401 1375">Drum drive time for cyan</td> </tr> <tr> <td data-bbox="336 1375 639 1420">M</td> <td data-bbox="639 1375 1401 1420">Drum drive time for magenta</td> </tr> <tr> <td data-bbox="336 1420 639 1464">Y</td> <td data-bbox="639 1420 1401 1464">Drum drive time for yellow</td> </tr> <tr> <td data-bbox="336 1464 639 1509">K</td> <td data-bbox="639 1464 1401 1509">Drum drive time for black</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Drum drive time for cyan	M	Drum drive time for magenta	Y	Drum drive time for yellow	K	Drum drive time for black
Display	Description										
C	Drum drive time for cyan										
M	Drum drive time for magenta										
Y	Drum drive time for yellow										
K	Drum drive time for black										

Item No.	Description										
U117	<p data-bbox="287 241 638 275"><b>Checking the drum number</b></p> <p data-bbox="287 309 438 342"><b>Description</b></p> <p data-bbox="287 344 606 378">Displays the drum number.</p> <p data-bbox="287 380 399 414"><b>Purpose</b></p> <p data-bbox="287 416 614 450">To check the drum number.</p> <p data-bbox="287 483 391 517"><b>Method</b></p> <p data-bbox="303 519 925 553">1. Press the OK key. The drum number is displayed.</p> <table border="1" data-bbox="335 560 1396 801"> <thead> <tr> <th data-bbox="343 566 638 611">Display</th> <th data-bbox="638 566 1388 611">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 611 638 656">C</td> <td data-bbox="638 611 1388 656">Cyan drum number</td> </tr> <tr> <td data-bbox="343 656 638 701">M</td> <td data-bbox="638 656 1388 701">Magenta drum number</td> </tr> <tr> <td data-bbox="343 701 638 745">Y</td> <td data-bbox="638 701 1388 745">Yellow drum number</td> </tr> <tr> <td data-bbox="343 745 638 790">K</td> <td data-bbox="638 745 1388 790">Black drum number</td> </tr> </tbody> </table> <p data-bbox="287 846 438 880"><b>Completion</b></p> <p data-bbox="287 882 1260 916">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Cyan drum number	M	Magenta drum number	Y	Yellow drum number	K	Black drum number
Display	Description										
C	Cyan drum number										
M	Magenta drum number										
Y	Yellow drum number										
K	Black drum number										



Item No.	Description																
<b>U118</b>	<p><b>Displaying the drum history</b></p> <p><b>Description</b> Displays the past record of machine number and the drum counter.</p> <p><b>Purpose</b> To check the count value of machine number and the drum counter.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the color to check.</li> </ol> <table border="1" data-bbox="336 598 1401 837"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Cyan drum past record</td> </tr> <tr> <td>M</td> <td>Magenta drum past record</td> </tr> <tr> <td>Y</td> <td>Yellow drum past record</td> </tr> <tr> <td>K</td> <td>Black drum past record</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. The history of a machine number and a drum counter for each color is displayed by three cases.</li> </ol> <table border="1" data-bbox="336 963 1401 1106"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Machine History1 - 3</td> <td>Historical records of the machine number</td> </tr> <tr> <td>Cnt History1 - 3</td> <td>Historical records of drum counter</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Cyan drum past record	M	Magenta drum past record	Y	Yellow drum past record	K	Black drum past record	Display	Description	Machine History1 - 3	Historical records of the machine number	Cnt History1 - 3	Historical records of drum counter
Display	Description																
C	Cyan drum past record																
M	Magenta drum past record																
Y	Yellow drum past record																
K	Black drum past record																
Display	Description																
Machine History1 - 3	Historical records of the machine number																
Cnt History1 - 3	Historical records of drum counter																
<b>U119</b>	<p><b>Setting the drum</b></p> <p><b>Description</b> Sets drum sensitivity.</p> <p><b>Purpose</b> To set the drum after replacing the drum unit or laser scanner unit. When completed, perform maintenance mode U464, Calibration.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Execute].</li> <li>3. Press the OK key. Drum setup is commenced.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>																

Item No.	Description						
U122	<p><b>Checking the transfer belt unit number</b></p> <p><b>Description</b> Displays the number of the transfer belt unit for checking.</p> <p><b>Purpose</b> To check the number of the transfer belt.</p> <p><b>Method</b> 1. Press the OK key. The current number of the transfer belt is displayed.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>						
U123	<p><b>Displaying the transfer belt unit history</b></p> <p><b>Description</b> Displays the past record of machine number and the transfer belt unit counter.</p> <p><b>Purpose</b> To check the count value of machine number and the transfer counter.</p> <p><b>Method</b> 1. Press the OK key. The history of a machine number and a transfer belt unit counter for each color is displayed by three cases.</p> <table border="1" data-bbox="336 1167 1401 1308"> <thead> <tr> <th data-bbox="336 1167 643 1211">Display</th> <th data-bbox="643 1167 1401 1211">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1211 643 1256">Machine History1 - 3</td> <td data-bbox="643 1211 1401 1256">Historical records of the machine number</td> </tr> <tr> <td data-bbox="336 1256 643 1308">Cnt History1 - 3</td> <td data-bbox="643 1256 1401 1308">Historical records of transfer belt unit counter</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Machine History1 - 3	Historical records of the machine number	Cnt History1 - 3	Historical records of transfer belt unit counter
Display	Description						
Machine History1 - 3	Historical records of the machine number						
Cnt History1 - 3	Historical records of transfer belt unit counter						

Item No.	Description												
U127	<p data-bbox="288 241 759 275"><b>Checking/clearing the transfer count</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 930 374">Displays and clears the counts of the transfer counter.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1422 479">To check the count or drive time after replacement of the transfer belt unit or transfer roller. Also to clear the counts after replacing transfer roller.</p> <p data-bbox="288 517 387 546"><b>Method</b></p> <p data-bbox="304 553 1206 582">1. Press the OK key. The current counts of the transfer counter is displayed.</p> <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">Mid(Cnt)</td> <td data-bbox="639 640 1399 685">Transfer belt unit count value</td> </tr> <tr> <td data-bbox="336 685 639 730">2nd(Cnt)</td> <td data-bbox="639 685 1399 730">Transfer roller count value</td> </tr> <tr> <td data-bbox="336 730 639 775">Mid(Time)</td> <td data-bbox="639 730 1399 775">Transfer belt unit drive time</td> </tr> <tr> <td data-bbox="336 775 639 819">2nd(Time)</td> <td data-bbox="639 775 1399 819">Transfer roller drive time</td> </tr> <tr> <td data-bbox="336 819 639 884">Clear</td> <td data-bbox="639 819 1399 884">The counter value is cleared</td> </tr> </tbody> </table> <p data-bbox="288 934 400 963"><b>Clearing</b></p> <p data-bbox="304 969 1114 1066">1. Select [Clear]. 2. Press the OK key. The counter value is cleared. Clears only the transfer roller. The transfer belt unit is not cleared.</p> <p data-bbox="288 1106 440 1135"><b>Completion</b></p> <p data-bbox="288 1140 1262 1169">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Mid(Cnt)	Transfer belt unit count value	2nd(Cnt)	Transfer roller count value	Mid(Time)	Transfer belt unit drive time	2nd(Time)	Transfer roller drive time	Clear	The counter value is cleared
Display	Description												
Mid(Cnt)	Transfer belt unit count value												
2nd(Cnt)	Transfer roller count value												
Mid(Time)	Transfer belt unit drive time												
2nd(Time)	Transfer roller drive time												
Clear	The counter value is cleared												

Item No.	Description																						
<b>U128</b>	<p><b>Setting transfer high-voltage timing</b></p> <p><b>Description</b> Adjusts the ON/OFF timing of transfer high-voltage output.</p> <p><b>Purpose</b> Basically, the setting need not be changed. If any problem such as faulty images or dirt on the back surface occurs, change the setting.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> <li>3. Change the value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 667 1401 1010"> <thead> <tr> <th rowspan="2">Display</th> <th rowspan="2">Description</th> <th rowspan="2">Setting range</th> <th colspan="2">Initial setting</th> </tr> <tr> <th>45ppm</th> <th>55ppm</th> </tr> </thead> <tbody> <tr> <td>On Timing 1st</td> <td>Transfer ON timing adjustment value (first side)</td> <td>-200 to 200</td> <td>-5</td> <td>-5</td> </tr> <tr> <td>On Timing 2nd</td> <td>Transfer ON timing adjustment value (second side)</td> <td>-200 to 200</td> <td>0</td> <td>0</td> </tr> <tr> <td>Off Timing</td> <td>Transfer OFF timing adjustment value</td> <td>-200 to 200</td> <td>13</td> <td>10</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>4. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting		45ppm	55ppm	On Timing 1st	Transfer ON timing adjustment value (first side)	-200 to 200	-5	-5	On Timing 2nd	Transfer ON timing adjustment value (second side)	-200 to 200	0	0	Off Timing	Transfer OFF timing adjustment value	-200 to 200	13	10
Display	Description				Setting range	Initial setting																	
		45ppm	55ppm																				
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Off Timing	Transfer OFF timing adjustment value	-200 to 200	13	10																			
<b>U130</b>	<p><b>Initial setting for the developer</b></p> <p><b>Description</b> The toner sensor control bias is adjusted so that the sensor output is set as the target value with the initial developer.</p> <p><b>Purpose</b> Automatically executed when the developer unit loaded with the initial developer is replaced.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Execute].</li> <li>3. Press the OK key.</li> </ol> <p>Toner installation is started and the control value of the toner sensor is displayed.</p> <table border="1" data-bbox="336 1630 1401 1917"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Toner sensor C control voltage</td> </tr> <tr> <td>M</td> <td>Toner sensor M control voltage</td> </tr> <tr> <td>Y</td> <td>Toner sensor Y control voltage</td> </tr> <tr> <td>K</td> <td>Toner sensor K control voltage</td> </tr> <tr> <td>Excute</td> <td></td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Toner sensor C control voltage	M	Toner sensor M control voltage	Y	Toner sensor Y control voltage	K	Toner sensor K control voltage	Excute											
Display	Description																						
C	Toner sensor C control voltage																						
M	Toner sensor M control voltage																						
Y	Toner sensor Y control voltage																						
K	Toner sensor K control voltage																						
Excute																							

Item No.	Description																																														
U131	<p data-bbox="288 241 831 275"><b>Adjusting the toner sensor control voltage</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 767 376">Adjusts the toner sensor control voltage.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1398 479">If control values are not correctly retrievable due to the EEPROM of the developer unit failure, etc., use manual adjustment and obtain a temporary control value.</p> <p data-bbox="288 517 387 546"><b>Method</b></p> <ol data-bbox="304 553 783 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set or displayed.</li> </ol> <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">Manual</td> <td data-bbox="639 676 1401 721">Toner sensor control voltage manual adjustment</td> </tr> <tr> <td data-bbox="336 721 639 766">Auto</td> <td data-bbox="639 721 1401 766">Toner sensor control voltage auto adjustment</td> </tr> <tr> <td data-bbox="336 766 639 824">Mode</td> <td data-bbox="639 766 1401 824">Switching the manual adjustment and auto adjustment</td> </tr> </tbody> </table> <p data-bbox="288 869 509 898"><b>Setting: [Manual]</b></p> <ol data-bbox="304 902 834 967" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. Change the value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 981 1401 1256"> <thead> <tr> <th data-bbox="336 981 564 1061">Display</th> <th data-bbox="564 981 1066 1061">Description</th> <th data-bbox="1066 981 1233 1061">Setting range</th> <th data-bbox="1233 981 1401 1061">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1061 564 1106">Control(C)</td> <td data-bbox="564 1061 1066 1106">Toner sensor C control voltage</td> <td data-bbox="1066 1061 1233 1106">0 to 255</td> <td data-bbox="1233 1061 1401 1106">150</td> </tr> <tr> <td data-bbox="336 1106 564 1151">Control(M)</td> <td data-bbox="564 1106 1066 1151">Toner sensor M control voltage</td> <td data-bbox="1066 1106 1233 1151">0 to 255</td> <td data-bbox="1233 1106 1401 1151">150</td> </tr> <tr> <td data-bbox="336 1151 564 1196">Control(Y)</td> <td data-bbox="564 1151 1066 1196">Toner sensor Y control voltage</td> <td data-bbox="1066 1151 1233 1196">0 to 255</td> <td data-bbox="1233 1151 1401 1196">150</td> </tr> <tr> <td data-bbox="336 1196 564 1256">Control(K)</td> <td data-bbox="564 1196 1066 1256">Toner sensor K control voltage</td> <td data-bbox="1066 1196 1233 1256">0 to 255</td> <td data-bbox="1233 1196 1401 1256">150</td> </tr> </tbody> </table> <ol data-bbox="304 1263 751 1294" style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1332 523 1361"><b>Displaying: [Auto]</b></p> <ol data-bbox="304 1366 715 1397" style="list-style-type: none"> <li>1. The current setting is displayed.</li> </ol> <table border="1" data-bbox="336 1411 1401 1845"> <thead> <tr> <th data-bbox="336 1411 639 1456">Display</th> <th data-bbox="639 1411 1401 1456">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1456 639 1500">Default(C)</td> <td data-bbox="639 1456 1401 1500">Reference value for toner sensor C control voltage</td> </tr> <tr> <td data-bbox="336 1500 639 1545">Default(M)</td> <td data-bbox="639 1500 1401 1545">Reference value for toner sensor M control voltage</td> </tr> <tr> <td data-bbox="336 1545 639 1590">Default(Y)</td> <td data-bbox="639 1545 1401 1590">Reference value for toner sensor Y control voltage</td> </tr> <tr> <td data-bbox="336 1590 639 1635">Default(K)</td> <td data-bbox="639 1590 1401 1635">Reference value for toner sensor K control voltage</td> </tr> <tr> <td data-bbox="336 1635 639 1680">Control(C)</td> <td data-bbox="639 1635 1401 1680">Toner sensor C control voltage after correction</td> </tr> <tr> <td data-bbox="336 1680 639 1724">Control(M)</td> <td data-bbox="639 1680 1401 1724">Toner sensor M control voltage after correction</td> </tr> <tr> <td data-bbox="336 1724 639 1769">Control(Y)</td> <td data-bbox="639 1724 1401 1769">Toner sensor Y control voltage after correction</td> </tr> <tr> <td data-bbox="336 1769 639 1845">Control(K)</td> <td data-bbox="639 1769 1401 1845">Toner sensor K control voltage after correction</td> </tr> </tbody> </table>	Display	Description	Manual	Toner sensor control voltage manual adjustment	Auto	Toner sensor control voltage auto adjustment	Mode	Switching the manual adjustment and auto adjustment	Display	Description	Setting range	Initial setting	Control(C)	Toner sensor C control voltage	0 to 255	150	Control(M)	Toner sensor M control voltage	0 to 255	150	Control(Y)	Toner sensor Y control voltage	0 to 255	150	Control(K)	Toner sensor K control voltage	0 to 255	150	Display	Description	Default(C)	Reference value for toner sensor C control voltage	Default(M)	Reference value for toner sensor M control voltage	Default(Y)	Reference value for toner sensor Y control voltage	Default(K)	Reference value for toner sensor K control voltage	Control(C)	Toner sensor C control voltage after correction	Control(M)	Toner sensor M control voltage after correction	Control(Y)	Toner sensor Y control voltage after correction	Control(K)	Toner sensor K control voltage after correction
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Item No.	Description																				
U131	<p><b>Setting: [Mode]</b></p> <p>1. Select the item to be set.</p> <table border="1" data-bbox="336 320 1401 465"> <thead> <tr> <th data-bbox="336 320 639 365">Display</th> <th data-bbox="639 320 1401 365">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 365 639 409">Manual</td> <td data-bbox="639 365 1401 409">Toner sensor control voltage manual adjustment</td> </tr> <tr> <td data-bbox="336 409 639 465">Auto</td> <td data-bbox="639 409 1401 465">Toner sensor control voltage auto adjustment</td> </tr> </tbody> </table> <p>Initial setting: Auto</p> <p>2. Press the OK key. The value is set.</p> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Manual	Toner sensor control voltage manual adjustment	Auto	Toner sensor control voltage auto adjustment														
Display	Description																				
Manual	Toner sensor control voltage manual adjustment																				
Auto	Toner sensor control voltage auto adjustment																				
U132	<p><b>Replenishing toner forcibly</b></p> <p><b>Description</b></p> <p>Replenishes toner forcibly until the toner sensor output value reaches the toner feed start level.</p> <p><b>Purpose</b></p> <p>Used when the toner empty is detected frequently.</p> <p><b>Method</b></p> <p>1. Press the OK key.</p> <p>2. Select [Execute].</p> <p>3. Press the OK key.</p> <p>Toner is replenished until the toner sensor output value reaches the toner feed start level.</p> <table border="1" data-bbox="336 1086 1401 1568"> <thead> <tr> <th data-bbox="336 1086 639 1131">Display</th> <th data-bbox="639 1086 1401 1131">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1131 639 1176">Supply(C)</td> <td data-bbox="639 1131 1401 1176">Toner feed start level (cyan)</td> </tr> <tr> <td data-bbox="336 1176 639 1220">Supply(M)</td> <td data-bbox="639 1176 1401 1220">Toner feed start level (magenta)</td> </tr> <tr> <td data-bbox="336 1220 639 1265">Supply(Y)</td> <td data-bbox="639 1220 1401 1265">Toner feed start level (yellow)</td> </tr> <tr> <td data-bbox="336 1265 639 1310">Supply(K)</td> <td data-bbox="639 1265 1401 1310">Toner feed start level (black)</td> </tr> <tr> <td data-bbox="336 1310 639 1355">Sensor(C)</td> <td data-bbox="639 1310 1401 1355">Toner sensor output value (cyan)</td> </tr> <tr> <td data-bbox="336 1355 639 1400">Sensor(M)</td> <td data-bbox="639 1355 1401 1400">Toner sensor output value (magenta)</td> </tr> <tr> <td data-bbox="336 1400 639 1444">Sensor(Y)</td> <td data-bbox="639 1400 1401 1444">Toner sensor output value (yellow)</td> </tr> <tr> <td data-bbox="336 1444 639 1489">Sensor(K)</td> <td data-bbox="639 1444 1401 1489">Toner sensor output value (black)</td> </tr> <tr> <td data-bbox="336 1489 639 1568">Excute</td> <td data-bbox="639 1489 1401 1568"></td> </tr> </tbody> </table> <p>4. To stop operation, press the Back key.</p> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Supply(C)	Toner feed start level (cyan)	Supply(M)	Toner feed start level (magenta)	Supply(Y)	Toner feed start level (yellow)	Supply(K)	Toner feed start level (black)	Sensor(C)	Toner sensor output value (cyan)	Sensor(M)	Toner sensor output value (magenta)	Sensor(Y)	Toner sensor output value (yellow)	Sensor(K)	Toner sensor output value (black)	Excute	
Display	Description																				
Supply(C)	Toner feed start level (cyan)																				
Supply(M)	Toner feed start level (magenta)																				
Supply(Y)	Toner feed start level (yellow)																				
Supply(K)	Toner feed start level (black)																				
Sensor(C)	Toner sensor output value (cyan)																				
Sensor(M)	Toner sensor output value (magenta)																				
Sensor(Y)	Toner sensor output value (yellow)																				
Sensor(K)	Toner sensor output value (black)																				
Excute																					

Item No.	Description												
U135	<p><b>Checking toner motor operation</b></p> <p><b>Description</b> Drives toner motors.</p> <p><b>Purpose</b> To check the operation of toner motors.</p> <p><b>Remarks</b> When driving the toner motors long time or several times, developer section becomes the toner full and is locked.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Toner].</li> <li>3. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 770 1401 866"> <thead> <tr> <th data-bbox="336 770 639 815">Display</th> <th data-bbox="639 770 1401 815">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 815 639 866">Toner</td> <td data-bbox="639 815 1401 866">Toner motor (TM) is turned on</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>4. To stop the operation, press the Back key.</li> </ol> <p><b>Completion</b> Press the Back key after operation stops. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Toner	Toner motor (TM) is turned on								
Display	Description												
Toner	Toner motor (TM) is turned on												
U136	<p><b>Setting toner near end detection</b></p> <p><b>Description</b> Sets the level that indicates the number of sheets that can be printed from occurrence of toner near end to toner empty.</p> <p><b>Purpose</b> To change the setting to advance detection of near end if the interval from toner near end to toner empty seems too short.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> <li>3. Change the value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1520 1401 1700"> <thead> <tr> <th data-bbox="336 1520 528 1603">Display</th> <th data-bbox="528 1520 1094 1603">Description</th> <th data-bbox="1094 1520 1249 1603">Setting range</th> <th data-bbox="1249 1520 1401 1603">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1603 528 1648">CMY</td> <td data-bbox="528 1603 1094 1648">Setting the level of cyan/magenta/yellow toner</td> <td data-bbox="1094 1603 1249 1648">0 to 9</td> <td data-bbox="1249 1603 1401 1648">3</td> </tr> <tr> <td data-bbox="336 1648 528 1700">K</td> <td data-bbox="528 1648 1094 1700">Setting the level of black toner</td> <td data-bbox="1094 1648 1249 1700">0 to 9</td> <td data-bbox="1249 1648 1401 1700">3</td> </tr> </tbody> </table> <p>Increasing the setting makes the interval from toner near end to toner empty longer. Decreasing the setting makes the interval from toner near end to toner empty shorter. If 0 is set, toner near end will not be detected.</p> <ol style="list-style-type: none"> <li>4. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	CMY	Setting the level of cyan/magenta/yellow toner	0 to 9	3	K	Setting the level of black toner	0 to 9	3
Display	Description	Setting range	Initial setting										
CMY	Setting the level of cyan/magenta/yellow toner	0 to 9	3										
K	Setting the level of black toner	0 to 9	3										

Item No.	Description																																				
U139	<p data-bbox="287 241 1077 275"><b>Displaying the temperature and humidity outside the machine</b></p> <p data-bbox="287 309 438 342"><b>Description</b></p> <p data-bbox="287 344 1109 378">Displays the detected temperature and humidity outside the machine.</p> <p data-bbox="287 380 399 414"><b>Purpose</b></p> <p data-bbox="287 416 1005 450">To check the temperature and humidity outside the machine.</p> <p data-bbox="287 483 391 517"><b>Method</b></p> <ol data-bbox="303 519 550 586" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="335 598 1401 788"> <thead> <tr> <th data-bbox="343 609 641 642">Display</th> <th data-bbox="641 609 1393 642">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 645 641 678">Ext/Int</td> <td data-bbox="641 645 1393 678">Internal/External temperature (°C), External humidity (%)</td> </tr> <tr> <td data-bbox="343 680 641 714">LSU</td> <td data-bbox="641 680 1393 714">Internal temperature around the laser scanner unit (°C)</td> </tr> <tr> <td data-bbox="343 716 641 750">Developing</td> <td data-bbox="641 716 1393 750">Internal temperature around the developer section (°C)</td> </tr> </tbody> </table> <p data-bbox="287 833 502 866"><b>Method: [Ext/Int]</b></p> <ol data-bbox="303 869 957 902" style="list-style-type: none"> <li>1. The current temperature and humidity are displayed.</li> </ol> <table border="1" data-bbox="335 913 1401 1104"> <thead> <tr> <th data-bbox="343 925 641 958">Display</th> <th data-bbox="641 925 1393 958">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 960 641 994">Ext Temp</td> <td data-bbox="641 960 1393 994">External temperature (°C)</td> </tr> <tr> <td data-bbox="343 996 641 1030">Ext Humidity</td> <td data-bbox="641 996 1393 1030">External humidity (%)</td> </tr> <tr> <td data-bbox="343 1032 641 1066">Int Temp</td> <td data-bbox="641 1032 1393 1066">Internal temperature (°C)</td> </tr> </tbody> </table> <p data-bbox="287 1149 470 1182"><b>Method: [LSU]</b></p> <ol data-bbox="303 1184 782 1218" style="list-style-type: none"> <li>1. The current temperature is displayed.</li> </ol> <table border="1" data-bbox="335 1229 1401 1469"> <thead> <tr> <th data-bbox="343 1240 641 1274">Display</th> <th data-bbox="641 1240 1393 1274">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 1276 641 1310">C</td> <td data-bbox="641 1276 1393 1310">Internal temperature around the laser scanner unit C (°C)</td> </tr> <tr> <td data-bbox="343 1312 641 1346">M</td> <td data-bbox="641 1312 1393 1346">Internal temperature around the laser scanner unit M (°C)</td> </tr> <tr> <td data-bbox="343 1348 641 1382">Y</td> <td data-bbox="641 1348 1393 1382">Internal temperature around the laser scanner unit Y (°C)</td> </tr> <tr> <td data-bbox="343 1384 641 1417">K</td> <td data-bbox="641 1384 1393 1417">Internal temperature around the laser scanner unit K (°C)</td> </tr> </tbody> </table> <p data-bbox="287 1514 566 1547"><b>Method: [Developing]</b></p> <ol data-bbox="303 1550 782 1583" style="list-style-type: none"> <li>1. The current temperature is displayed.</li> </ol> <table border="1" data-bbox="335 1594 1401 1834"> <thead> <tr> <th data-bbox="343 1606 641 1639">Display</th> <th data-bbox="641 1606 1393 1639">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 1641 641 1675">C</td> <td data-bbox="641 1641 1393 1675">Internal temperature around the developer unit C (°C)</td> </tr> <tr> <td data-bbox="343 1677 641 1711">M</td> <td data-bbox="641 1677 1393 1711">Internal temperature around the developer unit M (°C)</td> </tr> <tr> <td data-bbox="343 1713 641 1747">Y</td> <td data-bbox="641 1713 1393 1747">Internal temperature around the developer unit Y (°C)</td> </tr> <tr> <td data-bbox="343 1749 641 1783">K</td> <td data-bbox="641 1749 1393 1783">Internal temperature around the developer unit K (°C)</td> </tr> </tbody> </table> <p data-bbox="287 1879 438 1912"><b>Completion</b></p> <p data-bbox="287 1915 1260 1948">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Ext/Int	Internal/External temperature (°C), External humidity (%)	LSU	Internal temperature around the laser scanner unit (°C)	Developing	Internal temperature around the developer section (°C)	Display	Description	Ext Temp	External temperature (°C)	Ext Humidity	External humidity (%)	Int Temp	Internal temperature (°C)	Display	Description	C	Internal temperature around the laser scanner unit C (°C)	M	Internal temperature around the laser scanner unit M (°C)	Y	Internal temperature around the laser scanner unit Y (°C)	K	Internal temperature around the laser scanner unit K (°C)	Display	Description	C	Internal temperature around the developer unit C (°C)	M	Internal temperature around the developer unit M (°C)	Y	Internal temperature around the developer unit Y (°C)	K	Internal temperature around the developer unit K (°C)
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Item No.	Description																																																		
<b>U140</b>	<p data-bbox="288 241 624 275"><b>Displaying developer bias</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 906 374">Displays and changes various developer bias value.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 842 443">To check or changes the developer bias value.</p> <p data-bbox="288 486 387 515"><b>Method</b></p> <ol data-bbox="304 519 632 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 595 1401 1028"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Sleeve DC</td> <td data-bbox="639 640 1401 685">Developer sleeve roller DC bias</td> </tr> <tr> <td data-bbox="336 685 639 730">Sleeve AC</td> <td data-bbox="639 685 1401 730">Developer sleeve roller AC bias</td> </tr> <tr> <td data-bbox="336 730 639 775">Mag DC</td> <td data-bbox="639 730 1401 775">Developer magnet roller DC bias</td> </tr> <tr> <td data-bbox="336 775 639 819">Mag AC</td> <td data-bbox="639 775 1401 819">Developer magnet roller AC bias</td> </tr> <tr> <td data-bbox="336 819 639 864">Sleeve Freq</td> <td data-bbox="639 819 1401 864">Developer sleeve roller frequency</td> </tr> <tr> <td data-bbox="336 864 639 909">Sleeve Duty</td> <td data-bbox="639 864 1401 909">Developer sleeve roller duty</td> </tr> <tr> <td data-bbox="336 909 639 954">Mag Duty</td> <td data-bbox="639 909 1401 954">Developer magnet roller duty</td> </tr> <tr> <td data-bbox="336 954 639 1028">AC Calib</td> <td data-bbox="639 954 1401 1028">Executing or setting the AC calibration</td> </tr> </tbody> </table> <p data-bbox="288 1077 549 1106"><b>Setting: [Sleeve DC]</b></p> <ol data-bbox="304 1111 922 1173" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1187 1401 1697"> <thead> <tr> <th data-bbox="336 1187 459 1283" rowspan="2">Display</th> <th data-bbox="459 1187 868 1283" rowspan="2">Description</th> <th data-bbox="868 1187 1003 1283" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1003 1187 1401 1232">Initial setting</th> </tr> <tr> <th data-bbox="1003 1232 1201 1283">45ppm</th> <th data-bbox="1201 1232 1401 1283">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1283 459 1368">C</td> <td data-bbox="459 1283 868 1368">Developer sleeve roller DC bias for cyan</td> <td data-bbox="868 1283 1003 1368">0 to 255</td> <td data-bbox="1003 1283 1201 1368">84</td> <td data-bbox="1201 1283 1401 1368">84</td> </tr> <tr> <td data-bbox="336 1368 459 1453">M</td> <td data-bbox="459 1368 868 1453">Developer sleeve roller DC bias for magenta</td> <td data-bbox="868 1368 1003 1453">0 to 255</td> <td data-bbox="1003 1368 1201 1453">84</td> <td data-bbox="1201 1368 1401 1453">84</td> </tr> <tr> <td data-bbox="336 1453 459 1538">Y</td> <td data-bbox="459 1453 868 1538">Developer sleeve roller DC bias for yellow</td> <td data-bbox="868 1453 1003 1538">0 to 255</td> <td data-bbox="1003 1453 1201 1538">84</td> <td data-bbox="1201 1453 1401 1538">84</td> </tr> <tr> <td data-bbox="336 1538 459 1624">K</td> <td data-bbox="459 1538 868 1624">Developer sleeve roller DC bias for black</td> <td data-bbox="868 1538 1003 1624">0 to 255</td> <td data-bbox="1003 1538 1201 1624">70</td> <td data-bbox="1201 1538 1401 1624">70</td> </tr> <tr> <td data-bbox="336 1624 459 1697">B/W*</td> <td data-bbox="459 1624 868 1697">Developer sleeve roller DC bias in black/white mode</td> <td data-bbox="868 1624 1003 1697">0 to 255</td> <td data-bbox="1003 1624 1201 1697">-</td> <td data-bbox="1201 1624 1401 1697">70</td> </tr> </tbody> </table> <p data-bbox="336 1706 595 1736">*: 55 ppm model only.</p> <ol data-bbox="304 1740 753 1769" style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol>	Display	Description	Sleeve DC	Developer sleeve roller DC bias	Sleeve AC	Developer sleeve roller AC bias	Mag DC	Developer magnet roller DC bias	Mag AC	Developer magnet roller AC bias	Sleeve Freq	Developer sleeve roller frequency	Sleeve Duty	Developer sleeve roller duty	Mag Duty	Developer magnet roller duty	AC Calib	Executing or setting the AC calibration	Display	Description	Setting range	Initial setting		45ppm	55ppm	C	Developer sleeve roller DC bias for cyan	0 to 255	84	84	M	Developer sleeve roller DC bias for magenta	0 to 255	84	84	Y	Developer sleeve roller DC bias for yellow	0 to 255	84	84	K	Developer sleeve roller DC bias for black	0 to 255	70	70	B/W*	Developer sleeve roller DC bias in black/white mode	0 to 255	-	70
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K	Developer sleeve roller DC bias for black	0 to 255	70	70																																															
B/W*	Developer sleeve roller DC bias in black/white mode	0 to 255	-	70																																															

Item No.	Description				
<b>U140</b>	<b>Setting: [Sleeve AC]</b>				
	1. Select the item to be set. 2. Change the setting value using the numeric keys.				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	C	Developer sleeve roller AC bias for cyan	0 to 255	155	155
	M	Developer sleeve roller AC bias for magenta	0 to 255	155	155
	Y	Developer sleeve roller AC bias for yellow	0 to 255	155	155
	K	Developer sleeve roller AC bias for black	0 to 255	155	155
	B/W*	Developer sleeve roller AC bias in black/white mode	0 to 255	-	155
	*: 55 ppm model only.				
	3. Press the OK key. The value is set.				
	<b>Setting: [Mag DC]</b>				
	1. Select the item to be set. 2. Change the setting value using the numeric keys.				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	C	Developer magnet roller DC bias for cyan	0 to 255	155	155
	M	Developer magnet roller DC bias for magenta	0 to 255	155	155
	Y	Developer magnet roller DC bias for yellow	0 to 255	155	155
	K	Developer magnet roller DC bias for black	0 to 255	155	155
	B/W*	Developer magnet roller DC bias in black/white mode	0 to 255	-	155
	*: 55 ppm model only.				
	3. Press the OK key. The value is set.				

Item No.	Description				
<b>U140</b>	<b>Setting: [Mag AC]</b>				
	1. Select the item to be set. 2. Change the setting value using the numeric keys.				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	C	Developer magnet roller AC bias for cyan	0 to 255	200	200
	M	Developer magnet roller AC bias for magenta	0 to 255	200	200
	Y	Developer magnet roller AC bias for yellow	0 to 255	200	200
	K	Developer magnet roller AC bias for black	0 to 255	160	160
	B/W*	Developer magnet roller AC bias in black/white mode	0 to 255	-	160
	*: 55 ppm model only.				
	3. Press the OK key. The value is set.				
	<b>Setting: [Sleeve Freq]</b>				
	1. Select the item to be set. 2. Change the setting value using the numeric keys.				
	<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>	
				<b>45ppm</b>	<b>55ppm</b>
	Normal	Developer sleeve roller frequency	0 to 6200	5345	5511
	B/W*	Developer sleeve roller frequency in black/white mode	0 to 6200	-	5345
	Half	Developer sleeve roller frequency (half speed)	0 to 6200	5345	5345
	3/4*	Developer sleeve roller frequency at 3/4 times of line speed	0 to 6200	5345	5345
	*: 55 ppm model only.				
3. Press the OK key. The value is set.					
<b>Setting: [Sleeve Duty]</b>					
1. Select the item to be set. 2. Change the setting value using the numeric keys.					
<b>Display</b>	<b>Description</b>	<b>Setting range</b>	<b>Initial setting</b>		
			<b>45ppm</b>	<b>55ppm</b>	
Normal	Developer sleeve roller duty	0 to 99	68	68	
B/W*	Developer sleeve roller duty in black/white mode	0 to 99	-	68	
*: 55 ppm model only.					
3. Press the OK key. The value is set.					

Item No.	Description																																																											
U140	<p><b>Setting: [Mag Duty]</b></p> <ol style="list-style-type: none"> <li>Select the item to be set.</li> <li>Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 582"> <thead> <tr> <th rowspan="2">Display</th> <th rowspan="2">Description</th> <th rowspan="2">Setting range</th> <th colspan="2">Initial setting</th> </tr> <tr> <th>45ppm</th> <th>55ppm</th> </tr> </thead> <tbody> <tr> <td>Normal</td> <td>Developer magnet roller duty</td> <td>0 to 99</td> <td>43</td> <td>43</td> </tr> <tr> <td>B/W*</td> <td>Developer magnet roller duty in black/white mode</td> <td>0 to 99</td> <td>-</td> <td>43</td> </tr> </tbody> </table> <p>*: 55 ppm model only.</p> <ol style="list-style-type: none"> <li>Press the OK key. The value is set.</li> </ol> <p><b>Method: [AC Calib]</b></p> <ol style="list-style-type: none"> <li>Select the item.</li> </ol> <table border="1" data-bbox="336 734 1401 927"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Calibration</td> <td>Executing the AC calibration</td> </tr> <tr> <td>Magnification</td> <td>AC calibration target bias value setting</td> </tr> <tr> <td>High Altitude</td> <td>Mode setting for AC calibration bias control</td> </tr> </tbody> </table> <p><b>Method: [Calibration]</b></p> <ol style="list-style-type: none"> <li>Turns the items to implement to on.</li> <li>If the machine is installed at high altitudes, turn all of CMYK to On. (Changing Type to 1) Changing Type to 2 cancels the high altitude mode.</li> </ol> <table border="1" data-bbox="336 1079 1401 1417"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Type</td> <td>Setting the mode</td> </tr> <tr> <td>C</td> <td>When replacing the developer unit C or drum unit C</td> </tr> <tr> <td>M</td> <td>When replacing the developer unit M or drum unit M</td> </tr> <tr> <td>Y</td> <td>When replacing the developer unit Y or drum unit Y</td> </tr> <tr> <td>K</td> <td>When replacing the developer unit K or drum unit K</td> </tr> <tr> <td>Execute</td> <td>Executing the calibration</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Select [Execute].</li> <li>Press the OK key. AC calibration is executed.</li> <li>Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol> <p>* : When an error occurs, an error code is displayed.</p> <p><b>Setting: [Magnification]</b></p> <ol style="list-style-type: none"> <li>Select the item to be set.</li> <li>Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1713 1401 1989"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>When replacing the developer unit C or drum unit C</td> <td>-10 to 15</td> <td>15</td> </tr> <tr> <td>M</td> <td>When replacing the developer unit M or drum unit M</td> <td>-10 to 15</td> <td>15</td> </tr> <tr> <td>Y</td> <td>When replacing the developer unit Y or drum unit Y</td> <td>-10 to 15</td> <td>15</td> </tr> <tr> <td>K</td> <td>When replacing the developer unit K or drum unit K</td> <td>-10 to 15</td> <td>12</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Press the OK key. The value is set.</li> </ol>	Display	Description	Setting range	Initial setting		45ppm	55ppm	Normal	Developer magnet roller duty	0 to 99	43	43	B/W*	Developer magnet roller duty in black/white mode	0 to 99	-	43	Display	Description	Calibration	Executing the AC calibration	Magnification	AC calibration target bias value setting	High Altitude	Mode setting for AC calibration bias control	Display	Description	Type	Setting the mode	C	When replacing the developer unit C or drum unit C	M	When replacing the developer unit M or drum unit M	Y	When replacing the developer unit Y or drum unit Y	K	When replacing the developer unit K or drum unit K	Execute	Executing the calibration	Display	Description	Setting range	Initial setting	C	When replacing the developer unit C or drum unit C	-10 to 15	15	M	When replacing the developer unit M or drum unit M	-10 to 15	15	Y	When replacing the developer unit Y or drum unit Y	-10 to 15	15	K	When replacing the developer unit K or drum unit K	-10 to 15	12
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Item No.	Description						
U140	<p data-bbox="288 241 587 275"><b>Method: [High Altitude]</b></p> <p data-bbox="288 277 628 311">1. Select Mode1 or Mode2.</p> <table border="1" data-bbox="336 320 1401 499"> <thead> <tr> <th data-bbox="336 320 639 365">Display</th> <th data-bbox="639 320 1401 365">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 365 639 409">Mode1</td> <td data-bbox="639 365 1401 409">Execute AC calibration by normal bias control</td> </tr> <tr> <td data-bbox="336 409 639 499">Mode2</td> <td data-bbox="639 409 1401 499">If print density is low in an installation at high altitude, execute calibration by fixing the bias potential.</td> </tr> </tbody> </table> <p data-bbox="336 508 580 542">Initial setting: Mode1</p> <p data-bbox="288 544 751 577">2. Press the OK key. The value is set.</p> <p data-bbox="288 580 1426 647">3. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</p> <p data-bbox="288 719 440 752"><b>Completion</b></p> <p data-bbox="288 754 1262 788">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Mode1	Execute AC calibration by normal bias control	Mode2	If print density is low in an installation at high altitude, execute calibration by fixing the bias potential.
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Item No.	Description																																		
U147	<p data-bbox="288 241 746 275"><b>Setting for toner applying operation</b></p> <p data-bbox="288 309 440 342"><b>Description</b></p> <p data-bbox="288 344 1423 445">Sets the mode for removing charged toner in the developing unit (T7 control: Toner applying operation). Defines the action that the toner accumulated on the developer blade is sent back in the developer unit (done by the vibration motor).</p> <p data-bbox="288 448 400 481"><b>Purpose</b></p> <p data-bbox="288 483 1369 546">The setting can be changed to reduce the toner applying quantity. Performed to change the occurrence of the control of the vibration motor.</p> <p data-bbox="288 548 1139 582">If the charged toner stays inside the developing unit, density decreases.</p> <p data-bbox="288 616 387 649"><b>Method</b></p> <ol data-bbox="304 651 632 716" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 730 1399 972"> <thead> <tr> <th data-bbox="336 730 564 779">Display</th> <th data-bbox="564 730 1399 779">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 779 564 824">Mode</td> <td data-bbox="564 779 1399 824">Settings for toner applying operation</td> </tr> <tr> <td data-bbox="336 824 564 869">Upper Limit</td> <td data-bbox="564 824 1399 869">Upper limit printing ratio of toner applying quantity with each mode</td> </tr> <tr> <td data-bbox="336 869 564 913">Minimum</td> <td data-bbox="564 869 1399 913">Toner layer width when cleaning mode is selected</td> </tr> <tr> <td data-bbox="336 913 564 972">Interval Number</td> <td data-bbox="564 913 1399 972">Setting the vibration motor On timing</td> </tr> </tbody> </table> <p data-bbox="288 981 488 1014"><b>Setting: [Mode]</b></p> <ol data-bbox="304 1016 539 1050" style="list-style-type: none"> <li>1. Select the mode.</li> </ol> <table border="1" data-bbox="336 1059 1399 1285"> <thead> <tr> <th data-bbox="336 1059 564 1108">Display</th> <th data-bbox="564 1059 1399 1108">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1108 564 1153">Mode0</td> <td data-bbox="564 1108 1399 1153">Less consumption of toner than a regular toner applying operation</td> </tr> <tr> <td data-bbox="336 1153 564 1198">Mode1</td> <td data-bbox="564 1153 1399 1198">Executes toner applying with the regular amount of toner</td> </tr> <tr> <td data-bbox="336 1198 564 1285">Mode2</td> <td data-bbox="564 1198 1399 1285">Applying more consumption of toner than a regular toner applying operation</td> </tr> </tbody> </table> <p data-bbox="336 1305 580 1339">Initial setting; Mode1</p> <ol data-bbox="304 1341 767 1375" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol> <p data-bbox="288 1408 564 1442"><b>Setting: [Upper Limit]</b></p> <ol data-bbox="304 1444 919 1478" style="list-style-type: none"> <li>1. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1487 1399 1655"> <thead> <tr> <th data-bbox="336 1487 520 1570">Display</th> <th data-bbox="520 1487 1066 1570">Description</th> <th data-bbox="1066 1487 1233 1570">Setting range</th> <th data-bbox="1233 1487 1399 1570">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1570 520 1655">Value</td> <td data-bbox="520 1570 1066 1655">Upper limit printing ratio of toner applying quantity with each mode (%)</td> <td data-bbox="1066 1570 1233 1655">0 to 2.0</td> <td data-bbox="1233 1570 1399 1655">2.0</td> </tr> </tbody> </table> <ol data-bbox="304 1664 751 1697" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1731 533 1765"><b>Setting: [Minimum]</b></p> <ol data-bbox="304 1767 919 1800" style="list-style-type: none"> <li>1. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1809 1399 1977"> <thead> <tr> <th data-bbox="336 1809 520 1892">Display</th> <th data-bbox="520 1809 1066 1892">Description</th> <th data-bbox="1066 1809 1233 1892">Setting range</th> <th data-bbox="1233 1809 1399 1892">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1892 520 1977">Value</td> <td data-bbox="520 1892 1066 1977">Toner layer width when cleaning mode is selected (mm)</td> <td data-bbox="1066 1892 1233 1977">0 to 30</td> <td data-bbox="1233 1892 1399 1977">10</td> </tr> </tbody> </table> <ol data-bbox="304 1986 751 2020" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol>	Display	Description	Mode	Settings for toner applying operation	Upper Limit	Upper limit printing ratio of toner applying quantity with each mode	Minimum	Toner layer width when cleaning mode is selected	Interval Number	Setting the vibration motor On timing	Display	Description	Mode0	Less consumption of toner than a regular toner applying operation	Mode1	Executes toner applying with the regular amount of toner	Mode2	Applying more consumption of toner than a regular toner applying operation	Display	Description	Setting range	Initial setting	Value	Upper limit printing ratio of toner applying quantity with each mode (%)	0 to 2.0	2.0	Display	Description	Setting range	Initial setting	Value	Toner layer width when cleaning mode is selected (mm)	0 to 30	10
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Item No.	Description																
<b>U147</b>	<p><b>Setting: [Interval Number]</b></p> <ol style="list-style-type: none"> <li>Select the item to be set.</li> <li>Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 651"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Print(Normal)</td> <td>During continuous printing (Normal environment)</td> <td>10 to 500</td> <td>250</td> </tr> <tr> <td>Print(H/H)</td> <td>During continuous printing (High humidity environment)</td> <td>10 to 200</td> <td>100</td> </tr> <tr> <td>Print End</td> <td>Print completed</td> <td>10 to 100</td> <td>50</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Press the OK key. The value is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Print(Normal)	During continuous printing (Normal environment)	10 to 500	250	Print(H/H)	During continuous printing (High humidity environment)	10 to 200	100	Print End	Print completed	10 to 100	50
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Print(H/H)	During continuous printing (High humidity environment)	10 to 200	100														
Print End	Print completed	10 to 100	50														
<b>U148</b>	<p><b>Setting drum refresh mode</b></p> <p><b>Description</b> Selects the mode used in drum refreshing</p> <p><b>Purpose</b> Change settings when drum refreshing is too frequently executed.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>Press the OK key.</li> <li>Select the mode.</li> <li>Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1234 1401 1379"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Normal</td> <td>Auto setting drum refresh mode</td> <td>0 to 3</td> <td>2</td> </tr> <tr> <td>Dew Cond</td> <td></td> <td>0 to 3</td> <td>2</td> </tr> </tbody> </table> <p>* : Normal 0: Off / 1: Short / 2: Standard / 3: Long  Dew Cond 0: mode1 / 1: mode2 / 2: mode2 / 3: mode3  0: Inoperable. 1 - 3: the greater the value the more refreshings to take place.</p> <ol style="list-style-type: none"> <li>Press the OK key. The setting is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Normal	Auto setting drum refresh mode	0 to 3	2	Dew Cond		0 to 3	2				
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Item No.	Description																														
<b>U155</b>	<p data-bbox="290 241 643 271"><b>Checking sensors for toner</b></p> <p data-bbox="290 311 440 340"><b>Description</b></p> <p data-bbox="290 344 754 374">Displays the toner sensor output value.</p> <p data-bbox="290 380 400 409"><b>Purpose</b></p> <p data-bbox="290 414 1163 443">To check the output value for each color when any image problems occur.</p> <p data-bbox="290 483 387 512"><b>Method</b></p> <ol data-bbox="306 517 678 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be display.</li> </ol> <table border="1" data-bbox="336 595 1401 775"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Waste Toner</td> <td data-bbox="639 640 1401 685">Control voltage value of the waste toner sensor</td> </tr> <tr> <td data-bbox="336 685 639 775">Toner</td> <td data-bbox="639 685 1401 775">Control voltage value and replenishment level of toner sensor each color</td> </tr> </tbody> </table> <p data-bbox="290 817 579 846"><b>Method: [Waste Toner]</b></p> <ol data-bbox="306 851 1029 880" style="list-style-type: none"> <li>1. Check the status of sensor. The current value is displayed.</li> </ol> <table border="1" data-bbox="336 896 1401 1039"> <thead> <tr> <th data-bbox="336 896 639 940">Display</th> <th data-bbox="639 896 1401 940">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 940 639 985">Full</td> <td data-bbox="639 940 1401 985">Waste toner sensor 1 (WTS1)</td> </tr> <tr> <td data-bbox="336 985 639 1039">Near Full</td> <td data-bbox="639 985 1401 1039">Waste toner sensor 2 (WTS2)</td> </tr> </tbody> </table> <p data-bbox="290 1084 494 1113"><b>Method: [Toner]</b></p> <ol data-bbox="306 1120 1029 1149" style="list-style-type: none"> <li>1. Check the status of sensor. The current value is displayed.</li> </ol> <table border="1" data-bbox="336 1164 1401 1597"> <thead> <tr> <th data-bbox="336 1164 639 1209">Display</th> <th data-bbox="639 1164 1401 1209">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1209 639 1254">Sensor(C)</td> <td data-bbox="639 1209 1401 1254">Toner sensor C output value</td> </tr> <tr> <td data-bbox="336 1254 639 1299">Sensor(M)</td> <td data-bbox="639 1254 1401 1299">Toner sensor M output value</td> </tr> <tr> <td data-bbox="336 1299 639 1344">Sensor(Y)</td> <td data-bbox="639 1299 1401 1344">Toner sensor Y output value</td> </tr> <tr> <td data-bbox="336 1344 639 1388">Sensor(K)</td> <td data-bbox="639 1344 1401 1388">Toner sensor K output value</td> </tr> <tr> <td data-bbox="336 1388 639 1433">Supply(C)</td> <td data-bbox="639 1388 1401 1433">Toner replenishment level for cyan</td> </tr> <tr> <td data-bbox="336 1433 639 1478">Supply(M)</td> <td data-bbox="639 1433 1401 1478">Toner replenishment level for magenta</td> </tr> <tr> <td data-bbox="336 1478 639 1523">Supply(Y)</td> <td data-bbox="639 1478 1401 1523">Toner replenishment level for yellow</td> </tr> <tr> <td data-bbox="336 1523 639 1597">Supply(K)</td> <td data-bbox="639 1523 1401 1597">Toner replenishment level for black</td> </tr> </tbody> </table> <p data-bbox="290 1641 440 1671"><b>Completion</b></p> <p data-bbox="290 1675 1262 1704">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Waste Toner	Control voltage value of the waste toner sensor	Toner	Control voltage value and replenishment level of toner sensor each color	Display	Description	Full	Waste toner sensor 1 (WTS1)	Near Full	Waste toner sensor 2 (WTS2)	Display	Description	Sensor(C)	Toner sensor C output value	Sensor(M)	Toner sensor M output value	Sensor(Y)	Toner sensor Y output value	Sensor(K)	Toner sensor K output value	Supply(C)	Toner replenishment level for cyan	Supply(M)	Toner replenishment level for magenta	Supply(Y)	Toner replenishment level for yellow	Supply(K)	Toner replenishment level for black
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Item No.	Description																																																						
U156	<p data-bbox="288 241 762 275"><b>Setting the toner replenishment level</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 871 374">Sets the toner replenishment level for each color.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 895 443">To change settings according to the original image.</p> <p data-bbox="288 486 387 515"><b>Method</b></p> <ol data-bbox="304 519 632 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 595 1401 741"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Supply</td> <td data-bbox="639 640 1401 685">Setting the toner replenishment level</td> </tr> <tr> <td data-bbox="336 685 639 741">Empty</td> <td data-bbox="639 685 1401 741">Setting the toner empty level</td> </tr> </tbody> </table> <p data-bbox="288 786 512 815"><b>Method: [Supply]</b></p> <ol data-bbox="304 819 922 882" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <p data-bbox="336 887 1350 916">Increasing the setting makes the image lighter; decreasing it makes the image darker.</p> <table border="1" data-bbox="336 929 1401 1249"> <thead> <tr> <th data-bbox="336 929 528 1003">Display</th> <th data-bbox="528 929 1094 1003">Description</th> <th data-bbox="1094 929 1246 1003">Setting range</th> <th data-bbox="1246 929 1401 1003">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1003 528 1055">C</td> <td data-bbox="528 1003 1094 1055">Toner replenishment level for cyan</td> <td data-bbox="1094 1003 1246 1055">0 to 900</td> <td data-bbox="1246 1003 1401 1055">512</td> </tr> <tr> <td data-bbox="336 1055 528 1106">M</td> <td data-bbox="528 1055 1094 1106">Toner replenishment level for magenta</td> <td data-bbox="1094 1055 1246 1106">0 to 900</td> <td data-bbox="1246 1055 1401 1106">512</td> </tr> <tr> <td data-bbox="336 1106 528 1158">Y</td> <td data-bbox="528 1106 1094 1158">Toner replenishment level for yellow</td> <td data-bbox="1094 1106 1246 1158">0 to 900</td> <td data-bbox="1246 1106 1401 1158">512</td> </tr> <tr> <td data-bbox="336 1158 528 1209">K</td> <td data-bbox="528 1158 1094 1209">Toner replenishment level for black</td> <td data-bbox="1094 1158 1246 1209">0 to 900</td> <td data-bbox="1246 1158 1401 1209">512</td> </tr> <tr> <td data-bbox="336 1209 528 1249">B/W*</td> <td data-bbox="528 1209 1094 1249">Toner replenishment level in black/white mode</td> <td data-bbox="1094 1209 1246 1249">0 to 900</td> <td data-bbox="1246 1209 1401 1249">512</td> </tr> </tbody> </table> <p data-bbox="336 1261 595 1290">*: 55 ppm model only.</p> <ol data-bbox="304 1294 751 1323" style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1361 504 1391"><b>Method: [Empty]</b></p> <ol data-bbox="304 1395 922 1458" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <p data-bbox="336 1462 1361 1525">Increasing the setting makes 'toner empty' appear later and decreasing it makes 'toner empty' appear earlier.</p> <table border="1" data-bbox="336 1538 1401 1859"> <thead> <tr> <th data-bbox="336 1538 528 1612">Display</th> <th data-bbox="528 1538 1094 1612">Description</th> <th data-bbox="1094 1538 1246 1612">Setting range</th> <th data-bbox="1246 1538 1401 1612">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1612 528 1664">C</td> <td data-bbox="528 1612 1094 1664">Toner empty level for cyan</td> <td data-bbox="1094 1612 1246 1664">0 to 1023</td> <td data-bbox="1246 1612 1401 1664">100</td> </tr> <tr> <td data-bbox="336 1664 528 1715">M</td> <td data-bbox="528 1664 1094 1715">Toner empty level for magenta</td> <td data-bbox="1094 1664 1246 1715">0 to 1023</td> <td data-bbox="1246 1664 1401 1715">100</td> </tr> <tr> <td data-bbox="336 1715 528 1767">Y</td> <td data-bbox="528 1715 1094 1767">Toner empty level for yellow</td> <td data-bbox="1094 1715 1246 1767">0 to 1023</td> <td data-bbox="1246 1715 1401 1767">100</td> </tr> <tr> <td data-bbox="336 1767 528 1818">K</td> <td data-bbox="528 1767 1094 1818">Toner empty level for black</td> <td data-bbox="1094 1767 1246 1818">0 to 1023</td> <td data-bbox="1246 1767 1401 1818">100</td> </tr> <tr> <td data-bbox="336 1818 528 1859">B/W*</td> <td data-bbox="528 1818 1094 1859">Toner empty level in black/white mode</td> <td data-bbox="1094 1818 1246 1859">0 to 1023</td> <td data-bbox="1246 1818 1401 1859">100</td> </tr> </tbody> </table> <p data-bbox="336 1870 595 1899">*: 55 ppm model only.</p> <ol data-bbox="304 1904 751 1933" style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1971 440 2000"><b>Completion</b></p> <p data-bbox="288 2004 1262 2033">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Supply	Setting the toner replenishment level	Empty	Setting the toner empty level	Display	Description	Setting range	Initial setting	C	Toner replenishment level for cyan	0 to 900	512	M	Toner replenishment level for magenta	0 to 900	512	Y	Toner replenishment level for yellow	0 to 900	512	K	Toner replenishment level for black	0 to 900	512	B/W*	Toner replenishment level in black/white mode	0 to 900	512	Display	Description	Setting range	Initial setting	C	Toner empty level for cyan	0 to 1023	100	M	Toner empty level for magenta	0 to 1023	100	Y	Toner empty level for yellow	0 to 1023	100	K	Toner empty level for black	0 to 1023	100	B/W*	Toner empty level in black/white mode	0 to 1023	100
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Item No.	Description										
<b>U157</b>	<p><b>Checking the developer drive time</b></p> <p><b>Description</b> Displays the developer drive time for checking a figure, which is used as a reference when correcting the toner control.</p> <p><b>Purpose</b> To check the developer drive time after replacing the developer unit.</p> <p><b>Method</b> 1. Press the OK key. The developer drive time is displayed.</p> <table border="1" data-bbox="336 598 1401 837"> <thead> <tr> <th data-bbox="336 598 639 642">Display</th> <th data-bbox="639 598 1401 642">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 642 639 687">C</td> <td data-bbox="639 642 1401 687">Developer drive time for cyan</td> </tr> <tr> <td data-bbox="336 687 639 732">M</td> <td data-bbox="639 687 1401 732">Developer drive time for magenta</td> </tr> <tr> <td data-bbox="336 732 639 777">Y</td> <td data-bbox="639 732 1401 777">Developer drive time for yellow</td> </tr> <tr> <td data-bbox="336 777 639 837">K</td> <td data-bbox="639 777 1401 837">Developer drive time for black</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Developer drive time for cyan	M	Developer drive time for magenta	Y	Developer drive time for yellow	K	Developer drive time for black
Display	Description										
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Y	Developer drive time for yellow										
K	Developer drive time for black										
<b>U158</b>	<p><b>Checking the developer count</b></p> <p><b>Description</b> Displays the developer count for checking.</p> <p><b>Purpose</b> To check the developer unit status.</p> <p><b>Method</b> 1. Press the OK key. The current developer counts is displayed.</p> <table border="1" data-bbox="336 1285 1401 1525"> <thead> <tr> <th data-bbox="336 1285 639 1330">Display</th> <th data-bbox="639 1285 1401 1330">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1330 639 1375">C</td> <td data-bbox="639 1330 1401 1375">Developer count value for cyan</td> </tr> <tr> <td data-bbox="336 1375 639 1420">M</td> <td data-bbox="639 1375 1401 1420">Developer count value for magenta</td> </tr> <tr> <td data-bbox="336 1420 639 1464">Y</td> <td data-bbox="639 1420 1401 1464">Developer count value for yellow</td> </tr> <tr> <td data-bbox="336 1464 639 1525">K</td> <td data-bbox="639 1464 1401 1525">Developer count value for black</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Developer count value for cyan	M	Developer count value for magenta	Y	Developer count value for yellow	K	Developer count value for black
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Item No.	Description																																																									
U161	<p data-bbox="288 241 766 275"><b>Setting the fuser control temperature</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 756 374">Changes the fuser control temperature.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1425 479">Normally no change is necessary. However, can be used to prevent curling or creasing of paper, or solve a fuser problem on thick paper.</p> <p data-bbox="288 517 387 546"><b>Method</b></p> <ol data-bbox="304 553 632 616" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 631 1401 871"> <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">WarmUp</td> <td data-bbox="639 676 1401 721">Control temperature except at printing</td> </tr> <tr> <td data-bbox="336 721 639 766">Print</td> <td data-bbox="639 721 1401 766">Control temperature during printing</td> </tr> <tr> <td data-bbox="336 766 639 810">LowPower Mode</td> <td data-bbox="639 766 1401 810">Heating power reduction control</td> </tr> <tr> <td data-bbox="336 810 639 855">Grain Mode</td> <td data-bbox="639 810 1401 855">Setting the grain mode</td> </tr> </tbody> </table> <p data-bbox="288 965 526 994"><b>Setting: [WarmUp]</b></p> <ol data-bbox="304 1001 922 1064" style="list-style-type: none"> <li>1. Select the item to be set.</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1077 1401 1868"> <thead> <tr> <th data-bbox="336 1077 512 1167" rowspan="2">Display</th> <th data-bbox="512 1077 852 1167" rowspan="2">Description</th> <th data-bbox="852 1077 1002 1167" rowspan="2">Setting range</th> <th colspan="2" data-bbox="1002 1077 1401 1122">Initial setting</th> </tr> <tr> <th data-bbox="1002 1122 1203 1167">45ppm</th> <th data-bbox="1203 1122 1401 1167">55ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1167 512 1256">Ready (C)</td> <td data-bbox="512 1167 852 1256">Control temperature at displaying Ready (Center)</td> <td data-bbox="852 1167 1002 1256">130 to 200 (°C)</td> <td data-bbox="1002 1167 1203 1256">165</td> <td data-bbox="1203 1167 1401 1256">170</td> </tr> <tr> <td data-bbox="336 1256 512 1346">Ready (E)</td> <td data-bbox="512 1256 852 1346">Control temperature at displaying Ready (Edge)</td> <td data-bbox="852 1256 1002 1346">100 to 200 (°C)</td> <td data-bbox="1002 1256 1203 1346">140</td> <td data-bbox="1203 1256 1401 1346">145</td> </tr> <tr> <td data-bbox="336 1346 512 1435">Ready (P)</td> <td data-bbox="512 1346 852 1435">Control temperature at displaying Ready (Press)</td> <td data-bbox="852 1346 1002 1435">0 to 200 (°C)</td> <td data-bbox="1002 1346 1203 1435">80</td> <td data-bbox="1203 1346 1401 1435">80</td> </tr> <tr> <td data-bbox="336 1435 512 1525">Drive (C)</td> <td data-bbox="512 1435 852 1525">Stable temperature during driving (Center)</td> <td data-bbox="852 1435 1002 1525">130 to 200 (°C)</td> <td data-bbox="1002 1435 1203 1525">170</td> <td data-bbox="1203 1435 1401 1525">175</td> </tr> <tr> <td data-bbox="336 1525 512 1615">Wait (C)</td> <td data-bbox="512 1525 852 1615">Stable temperature during halt (Center)</td> <td data-bbox="852 1525 1002 1615">130 to 200 (°C)</td> <td data-bbox="1002 1525 1203 1615">165</td> <td data-bbox="1203 1525 1401 1615">175</td> </tr> <tr> <td data-bbox="336 1615 512 1704">Low Power (P)</td> <td data-bbox="512 1615 852 1704">Control temperature at low power consumption (Press)</td> <td data-bbox="852 1615 1002 1704">0 to 200 (°C)</td> <td data-bbox="1002 1615 1203 1704">150</td> <td data-bbox="1203 1615 1401 1704">150</td> </tr> <tr> <td data-bbox="336 1704 512 1794">F.S. Shift(C)</td> <td data-bbox="512 1704 852 1794">Full speed shift temperature (Center)</td> <td data-bbox="852 1704 1002 1794">0 to 200 (°C)</td> <td data-bbox="1002 1704 1203 1794">50</td> <td data-bbox="1203 1704 1401 1794">50</td> </tr> <tr> <td data-bbox="336 1794 512 1868">Pressure(P)</td> <td data-bbox="512 1794 852 1868">Pressurizing beginning temperature (Press)</td> <td data-bbox="852 1794 1002 1868">0 to 200 (°C)</td> <td data-bbox="1002 1794 1203 1868">155</td> <td data-bbox="1203 1794 1401 1868">160</td> </tr> </tbody> </table> <ol data-bbox="304 1877 753 1906" style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol>	Display	Description	WarmUp	Control temperature except at printing	Print	Control temperature during printing	LowPower Mode	Heating power reduction control	Grain Mode	Setting the grain mode	Display	Description	Setting range	Initial setting		45ppm	55ppm	Ready (C)	Control temperature at displaying Ready (Center)	130 to 200 (°C)	165	170	Ready (E)	Control temperature at displaying Ready (Edge)	100 to 200 (°C)	140	145	Ready (P)	Control temperature at displaying Ready (Press)	0 to 200 (°C)	80	80	Drive (C)	Stable temperature during driving (Center)	130 to 200 (°C)	170	175	Wait (C)	Stable temperature during halt (Center)	130 to 200 (°C)	165	175	Low Power (P)	Control temperature at low power consumption (Press)	0 to 200 (°C)	150	150	F.S. Shift(C)	Full speed shift temperature (Center)	0 to 200 (°C)	50	50	Pressure(P)	Pressurizing beginning temperature (Press)	0 to 200 (°C)	155	160
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Item No.	Description																																	
U161	<p><b>Setting: [Print]</b></p> <ol style="list-style-type: none"> <li>Select the item to be set.</li> <li>Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 616"> <thead> <tr> <th rowspan="2">Display</th> <th rowspan="2">Description</th> <th rowspan="2">Setting range</th> <th colspan="2">Initial setting</th> </tr> <tr> <th>45ppm</th> <th>55ppm</th> </tr> </thead> <tbody> <tr> <td>F.S.Print(C)</td> <td>Temperature at maximum print speed (Center)</td> <td>130 to 200 (°C)</td> <td>170</td> <td>175</td> </tr> <tr> <td>Dup Shift(C)</td> <td>Temperature at duplex printing (Center)</td> <td>-20 to 20 (°C)</td> <td>5</td> <td>5</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Press the OK key. The value is set.</li> </ol> <p><b>Setting: [LowPower Mode]</b></p> <ol style="list-style-type: none"> <li>Select the item to be set.</li> </ol> <table border="1" data-bbox="336 772 1401 1106"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Mode0</td> <td>Not used normally (use when a fusing problem has occurred at continuous printing in mode 1, however, use caution that mode 0, when used continuously, can deteriorate the durability of the fuser rollers).</td> </tr> <tr> <td>Mode1</td> <td>Fuser control temperature reduction mode (For normal users)</td> </tr> <tr> <td>Mode2</td> <td>Large volume output mode (For users who repeatedly print approximately 1500 sheets at a time)</td> </tr> </tbody> </table> <p>Initial setting: Mode1</p> <ol style="list-style-type: none"> <li>Press the OK key. The setting is set.</li> </ol> <p><b>Setting: [Grain Mode]</b></p> <ol style="list-style-type: none"> <li>Select the item to be set.</li> </ol> <table border="1" data-bbox="336 1312 1401 1505"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Mode0</td> <td>Existing level (No special treatment)</td> </tr> <tr> <td>Mode1</td> <td>Setting the grain mode</td> </tr> <tr> <td>Mode2</td> <td>More improvements</td> </tr> </tbody> </table> <p>Initial setting: Mode0</p> <p>Press the OK key. The setting is set.</p> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting		45ppm	55ppm	F.S.Print(C)	Temperature at maximum print speed (Center)	130 to 200 (°C)	170	175	Dup Shift(C)	Temperature at duplex printing (Center)	-20 to 20 (°C)	5	5	Display	Description	Mode0	Not used normally (use when a fusing problem has occurred at continuous printing in mode 1, however, use caution that mode 0, when used continuously, can deteriorate the durability of the fuser rollers).	Mode1	Fuser control temperature reduction mode (For normal users)	Mode2	Large volume output mode (For users who repeatedly print approximately 1500 sheets at a time)	Display	Description	Mode0	Existing level (No special treatment)	Mode1	Setting the grain mode	Mode2	More improvements
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Item No.	Description										
U167	<p><b>Checking/clearing the fuser count</b></p> <p><b>Description</b> Displays and clears the fuser count for checking.</p> <p><b>Purpose</b> To check the fuser count or drive time after replacement of the fuser unit. Also to clear the counts after replacing unit.</p> <p><b>Method</b> 1. Press the OK key. The fuser count is displayed.</p> <table border="1" data-bbox="336 598 1401 837"> <thead> <tr> <th data-bbox="336 598 641 642">Display</th> <th data-bbox="641 598 1401 642">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 642 641 687">Cnt</td> <td data-bbox="641 642 1401 687">Fuser unit count value</td> </tr> <tr> <td data-bbox="336 687 641 732">Release</td> <td data-bbox="641 687 1401 732">Fuser unit drive time (release)</td> </tr> <tr> <td data-bbox="336 732 641 777">Press</td> <td data-bbox="641 732 1401 777">Fuser unit drive time (press)</td> </tr> <tr> <td data-bbox="336 777 641 837">Clear</td> <td data-bbox="641 777 1401 837">Clear the fuser unit count values</td> </tr> </tbody> </table> <p><b>Clearing</b> 1. Select the [Clear]. 2. Press the OK key. The count is cleared.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Cnt	Fuser unit count value	Release	Fuser unit drive time (release)	Press	Fuser unit drive time (press)	Clear	Clear the fuser unit count values
Display	Description										
Cnt	Fuser unit count value										
Release	Fuser unit drive time (release)										
Press	Fuser unit drive time (press)										
Clear	Clear the fuser unit count values										
U169	<p><b>Checking/setting the fuser power source</b></p> <p><b>Description</b> Displays and settings the reference voltage of the fuser IH PWB.</p> <p><b>Purpose</b> To check the reference voltage. When performing U021, use the same voltage as for the IH control PWB.</p> <p><b>Method</b> 1. Press the OK key. 2. Select the mode.</p> <table border="1" data-bbox="336 1498 1401 1594"> <thead> <tr> <th data-bbox="336 1498 564 1543">Display</th> <th data-bbox="564 1498 1171 1543">Description</th> <th data-bbox="1171 1498 1401 1543">Setting range</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1543 564 1594">Mode</td> <td data-bbox="564 1543 1171 1594">Reference voltage</td> <td data-bbox="1171 1543 1401 1594">1 to 4</td> </tr> </tbody> </table> <p>1: 100 V specifications 2: 200 V specifications 3: 120 V specifications 4: 110 V specifications</p> <p>3. Press the OK key. The setting is set.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Mode	Reference voltage	1 to 4				
Display	Description	Setting range									
Mode	Reference voltage	1 to 4									

Item No.	Description										
<b>U199</b>	<p><b>Displaying fuser heater temperature</b></p> <p><b>Description</b> Displays the detected fuser temperature.</p> <p><b>Purpose</b> To check the fuser temperature.</p> <p><b>Method</b> 1. Press the OK key. The fuser temperature is displayed.</p> <table border="1" data-bbox="336 562 1401 801"> <thead> <tr> <th data-bbox="336 562 641 607">Display</th> <th data-bbox="641 562 1401 607">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 607 641 651">Heat Edge1</td> <td data-bbox="641 607 1401 651">Heat roller edge temperature (°C)</td> </tr> <tr> <td data-bbox="336 651 641 696">Heat Edge2</td> <td data-bbox="641 651 1401 696">Heat roller edge temperature (°C)</td> </tr> <tr> <td data-bbox="336 696 641 741">Heat Center</td> <td data-bbox="641 696 1401 741">Heat roller center temperature (°C)</td> </tr> <tr> <td data-bbox="336 741 641 786">Press Center</td> <td data-bbox="641 741 1401 786">Press roller center temperature (°C)</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance mode No. is displayed.</p>	Display	Description	Heat Edge1	Heat roller edge temperature (°C)	Heat Edge2	Heat roller edge temperature (°C)	Heat Center	Heat roller center temperature (°C)	Press Center	Press roller center temperature (°C)
Display	Description										
Heat Edge1	Heat roller edge temperature (°C)										
Heat Edge2	Heat roller edge temperature (°C)										
Heat Center	Heat roller center temperature (°C)										
Press Center	Press roller center temperature (°C)										
<b>U207</b>	<p><b>Checking the operation panel keys</b></p> <p><b>Description</b> Checks operation of the operation panel keys.</p> <p><b>Purpose</b> To check operation of all the keys and LEDs on the operation panel.</p> <p><b>Method</b> 1. Press the OK key.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>										

Item No.	Description						
U208	<p><b>Setting the paper size for the side deck</b></p> <p><b>Description</b> Sets the size of paper used in side deck.</p> <p><b>Purpose</b> To change the setting when installing the side deck or the size of paper used in the side deck is changed.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the paper size (A4, B5 or Letter). Initial setting: Letter (Inch specifications) A4 (Metric specifications)</li> <li>3. Press the OK key. The setting is set.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>						
U211	<p><b>Setting the presence or absence of the job separator</b></p> <p><b>Description</b> Sets the presence or absence of the inner job separator.</p> <p><b>Purpose</b> To run this maintenance item if the inner job separator is installed.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Inner Job Separator].</li> <li>3. Select On or Off.</li> </ol> <table border="1" data-bbox="336 1234 1401 1375"> <thead> <tr> <th data-bbox="336 1234 639 1279">Display</th> <th data-bbox="639 1234 1401 1279">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1279 639 1323">On</td> <td data-bbox="639 1279 1401 1323">The inner job separator is installed</td> </tr> <tr> <td data-bbox="336 1323 639 1375">Off</td> <td data-bbox="639 1323 1401 1375">The inner job separator is not installed</td> </tr> </tbody> </table> <p>Initial setting: Off</p> <ol style="list-style-type: none"> <li>4. Press the OK key. The setting is set.</li> <li>5. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>	Display	Description	On	The inner job separator is installed	Off	The inner job separator is not installed
Display	Description						
On	The inner job separator is installed						
Off	The inner job separator is not installed						

Item No.	Description																	
U221	<p><b>Setting the USB host lock function</b></p> <p><b>Description</b> Specifies ON/OFF the USB host lock function. Setting this to ON causes the machine to be unable to recognize the device connected to the USB host.</p> <p><b>Purpose</b> Set according to the preference of the user.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Host Lock].</li> <li>3. Select On or Off.</li> </ol> <table border="1" data-bbox="336 667 1401 808"> <thead> <tr> <th data-bbox="336 667 639 712">Display</th> <th data-bbox="639 667 1401 712">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 639 757">On</td> <td data-bbox="639 712 1401 757">USB host lock function ON</td> </tr> <tr> <td data-bbox="336 757 639 808">Off</td> <td data-bbox="639 757 1401 808">USB host lock function OFF</td> </tr> </tbody> </table> <p>Initial setting: Off</p> <ol style="list-style-type: none"> <li>4. Press the OK key. The setting is set.</li> <li>5. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>	Display	Description	On	USB host lock function ON	Off	USB host lock function OFF											
Display	Description																	
On	USB host lock function ON																	
Off	USB host lock function OFF																	
U223	<p><b>Operation panel lock</b></p> <p><b>Description</b> Sets the operation panel lock function.</p> <p><b>Purpose</b> This is performed to inhibit operating and canceling the menu on the operation panel which may be done by others then an administrator.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 1357 1401 1550"> <thead> <tr> <th data-bbox="336 1357 639 1402">Display</th> <th data-bbox="639 1357 1401 1402">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1402 639 1447">Unlock</td> <td data-bbox="639 1402 1401 1447">Release the lock of the operation from the menu</td> </tr> <tr> <td data-bbox="336 1447 639 1491">Partial Lock</td> <td data-bbox="639 1447 1401 1491">Lock the operation from the menu</td> </tr> <tr> <td data-bbox="336 1491 639 1550">Lock</td> <td data-bbox="639 1491 1401 1550">Lock the operation from the menu and job cancel</td> </tr> </tbody> </table> <p>Initial setting: Unlock</p> <ol style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol> <table border="1" data-bbox="336 1675 1249 1818"> <thead> <tr> <th data-bbox="336 1675 791 1720">Item</th> <th data-bbox="791 1675 1019 1720">Partial Lock</th> <th data-bbox="1019 1675 1249 1720">Lock</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1720 791 1765">Entering menu</td> <td data-bbox="791 1720 1019 1765">Prohibited</td> <td data-bbox="1019 1720 1249 1765">Prohibited</td> </tr> <tr> <td data-bbox="336 1765 791 1818">Pressing Back key</td> <td data-bbox="791 1765 1019 1818">Permitted</td> <td data-bbox="1019 1765 1249 1818">Prohibited</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Unlock	Release the lock of the operation from the menu	Partial Lock	Lock the operation from the menu	Lock	Lock the operation from the menu and job cancel	Item	Partial Lock	Lock	Entering menu	Prohibited	Prohibited	Pressing Back key	Permitted	Prohibited
Display	Description																	
Unlock	Release the lock of the operation from the menu																	
Partial Lock	Lock the operation from the menu																	
Lock	Lock the operation from the menu and job cancel																	
Item	Partial Lock	Lock																
Entering menu	Prohibited	Prohibited																
Pressing Back key	Permitted	Prohibited																



Item No.	Description										
U234	<p data-bbox="288 241 622 275"><b>Setting punch destination</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1225 374">Sets the destination of punch unit of 1000-sheet finisher or 4000-sheet finisher.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1273 443">To be set when installing a different punch unit from the destination of the machine.</p> <p data-bbox="288 486 383 515"><b>Setting</b></p> <ol data-bbox="304 519 600 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the destination.</li> </ol> <table border="1" data-bbox="336 595 1401 837"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Auto</td> <td data-bbox="639 640 1401 685">Conforms to destination settings.</td> </tr> <tr> <td data-bbox="336 685 639 730">Japan Metric</td> <td data-bbox="639 685 1401 730">Metric (Japan) specifications</td> </tr> <tr> <td data-bbox="336 730 639 775">Inch</td> <td data-bbox="639 730 1401 775">Inch (North America) specifications</td> </tr> <tr> <td data-bbox="336 775 639 837">Europe Metric</td> <td data-bbox="639 775 1401 837">Metric (Europe) specifications</td> </tr> </tbody> </table> <p data-bbox="336 844 1238 873">Initial setting: Inch (Inch specifications)/Europe Metric (Metric specifications)</p> <ol data-bbox="304 880 1426 978" style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>	Display	Description	Auto	Conforms to destination settings.	Japan Metric	Metric (Japan) specifications	Inch	Inch (North America) specifications	Europe Metric	Metric (Europe) specifications
Display	Description										
Auto	Conforms to destination settings.										
Japan Metric	Metric (Japan) specifications										
Inch	Inch (North America) specifications										
Europe Metric	Metric (Europe) specifications										

Item No.	Description																		
U237	<p data-bbox="288 241 675 275"><b>Setting finisher stack quantity</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1412 409">Sets the number of sheets of each stack on the main tray and on the middle tray in 4000-sheet finisher.</p> <p data-bbox="288 414 400 443"><b>Purpose</b></p> <p data-bbox="288 448 1023 479">To change the setting when a stack malfunction has occurred.</p> <p data-bbox="288 515 387 544"><b>Method</b></p> <ol data-bbox="304 551 632 616" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 629 1401 775"> <thead> <tr> <th data-bbox="336 629 639 674">Display</th> <th data-bbox="639 629 1401 674">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 674 639 719">Main Tray</td> <td data-bbox="639 674 1401 719">Number of sheets of stack on the main tray</td> </tr> <tr> <td data-bbox="336 719 639 775">Middle Tray</td> <td data-bbox="639 719 1401 775">Number of sheets of stack on the middle tray for staple mode</td> </tr> </tbody> </table> <p data-bbox="288 819 541 851"><b>Setting: [Main Tray]</b></p> <ol data-bbox="304 855 850 887" style="list-style-type: none"> <li>1. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 898 1401 1043"> <thead> <tr> <th data-bbox="336 898 639 943">Display</th> <th data-bbox="639 898 1401 943">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 943 639 987">0</td> <td data-bbox="639 943 1401 987">Number of sheets of stack on the main tray: 4000 sheets</td> </tr> <tr> <td data-bbox="336 987 639 1043">1</td> <td data-bbox="639 987 1401 1043">Number of sheets of stack on the main tray: 2000 sheets</td> </tr> </tbody> </table> <p data-bbox="336 1055 515 1086">Initial setting: 0</p> <ol data-bbox="304 1090 1426 1189" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> <li>3. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol> <p data-bbox="288 1225 564 1256"><b>Setting: [Middle Tray]</b></p> <ol data-bbox="304 1261 850 1292" style="list-style-type: none"> <li>1. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1303 1401 1516"> <thead> <tr> <th data-bbox="336 1303 639 1348">Display</th> <th data-bbox="639 1303 1401 1348">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1348 639 1435">0</td> <td data-bbox="639 1348 1401 1435">Number of sheets of stack on the middle tray for staple mode: 65 sheets</td> </tr> <tr> <td data-bbox="336 1435 639 1516">1</td> <td data-bbox="639 1435 1401 1516">Number of sheets of stack on the middle tray for staple mode: 30 sheets</td> </tr> </tbody> </table> <p data-bbox="336 1527 515 1559">Initial setting: 0</p> <p data-bbox="336 1563 1275 1594">Number of sheets of stack on the internal tray for non-staple printing: 10 sheets</p> <ol data-bbox="304 1599 1426 1697" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> <li>3. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>	Display	Description	Main Tray	Number of sheets of stack on the main tray	Middle Tray	Number of sheets of stack on the middle tray for staple mode	Display	Description	0	Number of sheets of stack on the main tray: 4000 sheets	1	Number of sheets of stack on the main tray: 2000 sheets	Display	Description	0	Number of sheets of stack on the middle tray for staple mode: 65 sheets	1	Number of sheets of stack on the middle tray for staple mode: 30 sheets
Display	Description																		
Main Tray	Number of sheets of stack on the main tray																		
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Item No.	Description																																																		
U240	<p data-bbox="288 241 775 275"><b>Checking the operation of the finisher</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1246 374">Turns each motor and solenoid of 1000-sheet finisher or 4000-sheet finisher ON.</p> <p data-bbox="288 383 400 412"><b>Purpose</b></p> <p data-bbox="288 416 1420 479">To check the operation of each motor and solenoid of the 1000-sheet finisher or 4000-sheet finisher.</p> <p data-bbox="288 517 387 546"><b>Method</b></p> <ol data-bbox="308 555 695 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be checked.</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="336 665 1399 954"> <thead> <tr> <th data-bbox="336 665 639 710">Display</th> <th data-bbox="639 665 1399 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 710 639 754">Motor</td> <td data-bbox="639 710 1399 754">Checking the motor of the document finisher</td> </tr> <tr> <td data-bbox="336 754 639 799">Solenoid</td> <td data-bbox="639 754 1399 799">Checking the solenoid of the document finisher</td> </tr> <tr> <td data-bbox="336 799 639 844">Mail Box</td> <td data-bbox="639 799 1399 844">Checking the motor of the mailbox</td> </tr> <tr> <td data-bbox="336 844 639 889">Top Mail Box</td> <td data-bbox="639 844 1399 889">Checking the motor of the top mailbox</td> </tr> <tr> <td data-bbox="336 889 639 954">Booklet</td> <td data-bbox="639 889 1399 954">Checking the motor of the center-folding unit</td> </tr> </tbody> </table> <p data-bbox="288 999 496 1028"><b>Method: [Motor]</b></p> <ol data-bbox="308 1037 802 1099" style="list-style-type: none"> <li>1. Select the item to be operated.</li> <li>2. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 1113 1399 2024"> <thead> <tr> <th data-bbox="336 1113 639 1158">Display</th> <th data-bbox="639 1113 1399 1158">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1158 639 1202">Feed In(H)</td> <td data-bbox="639 1158 1399 1202">DF paper entry motor (DFPEM) is turned on at high speed</td> </tr> <tr> <td data-bbox="336 1202 639 1247">Feed In(L)</td> <td data-bbox="639 1202 1399 1247">DF paper entry motor (DFPEM) is turned on at low speed</td> </tr> <tr> <td data-bbox="336 1247 639 1292">Middle(H)</td> <td data-bbox="639 1247 1399 1292">DF middle motor (DFMM) is turned on at high speed</td> </tr> <tr> <td data-bbox="336 1292 639 1337">Middle(L)</td> <td data-bbox="639 1292 1399 1337">DF middle motor (DFMM) is turned on at low speed</td> </tr> <tr> <td data-bbox="336 1337 639 1382">Eject(H)</td> <td data-bbox="639 1337 1399 1382">DF eject motor (DFEM) is turned on at high speed</td> </tr> <tr> <td data-bbox="336 1382 639 1426">Eject(L)</td> <td data-bbox="639 1382 1399 1426">DF eject motor (DFEM) is turned on at low speed</td> </tr> <tr> <td data-bbox="336 1426 639 1471">Save(H)</td> <td data-bbox="639 1426 1399 1471">DF drum motor (DFDRM) is turned on at high speed</td> </tr> <tr> <td data-bbox="336 1471 639 1516">Save(L)</td> <td data-bbox="639 1471 1399 1516">DF drum motor (DFDRM) is turned on at low speed</td> </tr> <tr> <td data-bbox="336 1516 639 1561">Tray</td> <td data-bbox="639 1516 1399 1561">DF tray motor (DFTM) is turned on</td> </tr> <tr> <td data-bbox="336 1561 639 1606">Staple Move</td> <td data-bbox="639 1561 1399 1606">DF slide motor (DFSLM) is turned on</td> </tr> <tr> <td data-bbox="336 1606 639 1650">Staple</td> <td data-bbox="639 1606 1399 1650">DF staple motor (DFSTM) is turned on</td> </tr> <tr> <td data-bbox="336 1650 639 1695">Width Test(A3)</td> <td data-bbox="639 1650 1399 1695">DF side registration motor 1, 2 (DFSRM1, 2) is turned on</td> </tr> <tr> <td data-bbox="336 1695 639 1740">Width Test(LD)</td> <td data-bbox="639 1695 1399 1740">DF side registration motor 1, 2 (DFSRM1, 2) is turned on</td> </tr> <tr> <td data-bbox="336 1740 639 1785">Beat</td> <td data-bbox="639 1740 1399 1785">DF paddle motor (DFPDM) is turned on</td> </tr> <tr> <td data-bbox="336 1785 639 1830">Eject Unlock(HP)</td> <td data-bbox="639 1785 1399 1830">DF eject release motor (DFERM) is turned on to home position</td> </tr> <tr> <td data-bbox="336 1830 639 1874">Sort Test</td> <td data-bbox="639 1830 1399 1874">DF shift motor 1, 2 (DFSFM1, 2) is turned on</td> </tr> <tr> <td data-bbox="336 1874 639 1919">EjectUnlock(30)</td> <td data-bbox="639 1874 1399 1919">DF eject release motor (DFERM) drive position 30-sheet stack</td> </tr> <tr> <td data-bbox="336 1919 639 2024">EjectUnlock(50)</td> <td data-bbox="639 1919 1399 2024">DF eject release motor (DFERM) drive position 50-sheet stack</td> </tr> </tbody> </table>	Display	Description	Motor	Checking the motor of the document finisher	Solenoid	Checking the solenoid of the document finisher	Mail Box	Checking the motor of the mailbox	Top Mail Box	Checking the motor of the top mailbox	Booklet	Checking the motor of the center-folding unit	Display	Description	Feed In(H)	DF paper entry motor (DFPEM) is turned on at high speed	Feed In(L)	DF paper entry motor (DFPEM) is turned on at low speed	Middle(H)	DF middle motor (DFMM) is turned on at high speed	Middle(L)	DF middle motor (DFMM) is turned on at low speed	Eject(H)	DF eject motor (DFEM) is turned on at high speed	Eject(L)	DF eject motor (DFEM) is turned on at low speed	Save(H)	DF drum motor (DFDRM) is turned on at high speed	Save(L)	DF drum motor (DFDRM) is turned on at low speed	Tray	DF tray motor (DFTM) is turned on	Staple Move	DF slide motor (DFSLM) is turned on	Staple	DF staple motor (DFSTM) is turned on	Width Test(A3)	DF side registration motor 1, 2 (DFSRM1, 2) is turned on	Width Test(LD)	DF side registration motor 1, 2 (DFSRM1, 2) is turned on	Beat	DF paddle motor (DFPDM) is turned on	Eject Unlock(HP)	DF eject release motor (DFERM) is turned on to home position	Sort Test	DF shift motor 1, 2 (DFSFM1, 2) is turned on	EjectUnlock(30)	DF eject release motor (DFERM) drive position 30-sheet stack	EjectUnlock(50)	DF eject release motor (DFERM) drive position 50-sheet stack
Display	Description																																																		
Motor	Checking the motor of the document finisher																																																		
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EjectUnlock(50)	DF eject release motor (DFERM) drive position 50-sheet stack																																																		

Item No.	Description																																														
U240	<table border="1" data-bbox="336 286 1401 524"> <thead> <tr> <th data-bbox="336 286 641 331">Display</th> <th data-bbox="641 286 1401 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 331 641 376">EjectUnlock(Fix)</td> <td data-bbox="641 331 1401 376">DF eject release motor (DFERM) fixed drive position</td> </tr> <tr> <td data-bbox="336 376 641 421">EjectUnlock(Full)</td> <td data-bbox="641 376 1401 421">DF eject release motor (DFERM) full-open drive position</td> </tr> <tr> <td data-bbox="336 421 641 465">Punch</td> <td data-bbox="641 421 1401 465">Punch motor (PUM) is turned on</td> </tr> <tr> <td data-bbox="336 465 641 524">Punch Move</td> <td data-bbox="641 465 1401 524">Punch slide motor (PUSLM) is turned on</td> </tr> </tbody> </table> <p data-bbox="288 591 533 622"><b>Method: [Solenoid]</b></p> <ol data-bbox="304 624 802 689" style="list-style-type: none"> <li data-bbox="304 624 699 656">1. Select the item to be operated.</li> <li data-bbox="304 658 802 689">2. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 703 1401 990"> <thead> <tr> <th data-bbox="336 703 641 748">Display</th> <th data-bbox="641 703 1401 748">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 748 641 792">Sub Tray</td> <td data-bbox="641 748 1401 792">DF feedshift solenoid (DFSSOL) is turned on</td> </tr> <tr> <td data-bbox="336 792 641 837">Save Drum</td> <td data-bbox="641 792 1401 837">DF drum solenoid (DFDRSOL) is turned on</td> </tr> <tr> <td data-bbox="336 837 641 882">Booklet</td> <td data-bbox="641 837 1401 882">DF center fold solenoid (DFCFSOL) is turned on</td> </tr> <tr> <td data-bbox="336 882 641 927">Punch</td> <td data-bbox="641 882 1401 927">Punch solenoid (PUSOL) is turned on</td> </tr> <tr> <td data-bbox="336 927 641 990">Three Fold</td> <td data-bbox="641 927 1401 990">CF feedshift solenoid (CFSSOL) is turned on</td> </tr> </tbody> </table> <p data-bbox="288 1034 703 1066"><b>Method: [Mail Box/Top Mail Box]</b></p> <ol data-bbox="304 1068 802 1133" style="list-style-type: none"> <li data-bbox="304 1068 699 1099">1. Select the item to be operated.</li> <li data-bbox="304 1102 802 1133">2. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 1146 1401 1294"> <thead> <tr> <th data-bbox="336 1146 564 1191">Display</th> <th data-bbox="564 1146 1401 1191">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1191 564 1236">Conv</td> <td data-bbox="564 1191 1401 1236">MB drive motor (MBDM) is turned on at paper conveying</td> </tr> <tr> <td data-bbox="336 1236 564 1294">Branch</td> <td data-bbox="564 1236 1401 1294">MB drive motor (MBDM) is turned on at feedshift operation</td> </tr> </tbody> </table> <p data-bbox="288 1339 517 1370"><b>Method: [Booklet]</b></p> <ol data-bbox="304 1373 802 1438" style="list-style-type: none"> <li data-bbox="304 1373 699 1404">1. Select the item to be operated.</li> <li data-bbox="304 1406 802 1438">2. Press the OK key. The operation starts.</li> </ol> <table border="1" data-bbox="336 1451 1401 1886"> <thead> <tr> <th data-bbox="336 1451 641 1496">Display</th> <th data-bbox="641 1451 1401 1496">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1496 641 1541">Folding</td> <td data-bbox="641 1496 1401 1541">CF main motor (CFMM) is turned on</td> </tr> <tr> <td data-bbox="336 1541 641 1585">Blade</td> <td data-bbox="641 1541 1401 1585">CF blade motor (CFBM) is turned on</td> </tr> <tr> <td data-bbox="336 1585 641 1630">Bundle Up</td> <td data-bbox="641 1585 1401 1630">CF adjustment motor 2 (CFADM2) is turned on</td> </tr> <tr> <td data-bbox="336 1630 641 1675">Bundle Down</td> <td data-bbox="641 1630 1401 1675">CF adjustment motor 1 (CFADM1) is turned on</td> </tr> <tr> <td data-bbox="336 1675 641 1720">Staple</td> <td data-bbox="641 1675 1401 1720">CF staple motor (CFSTM) is turned on</td> </tr> <tr> <td data-bbox="336 1720 641 1765">Width Test(A3)</td> <td data-bbox="641 1720 1401 1765">CF side registration motor 1, 2 (CFSRM1, 2) is turned on</td> </tr> <tr> <td data-bbox="336 1765 641 1809">Width Test(LD)</td> <td data-bbox="641 1765 1401 1809">CF side registration motor 1, 2 (CFSRM1, 2) is turned on</td> </tr> <tr> <td data-bbox="336 1809 641 1886">Feed In</td> <td data-bbox="641 1809 1401 1886">CF paper entry motor (CFPEM) is turned on</td> </tr> </tbody> </table> <p data-bbox="288 1930 437 1962"><b>Completion</b></p> <p data-bbox="288 1964 1262 1995">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	EjectUnlock(Fix)	DF eject release motor (DFERM) fixed drive position	EjectUnlock(Full)	DF eject release motor (DFERM) full-open drive position	Punch	Punch motor (PUM) is turned on	Punch Move	Punch slide motor (PUSLM) is turned on	Display	Description	Sub Tray	DF feedshift solenoid (DFSSOL) is turned on	Save Drum	DF drum solenoid (DFDRSOL) is turned on	Booklet	DF center fold solenoid (DFCFSOL) is turned on	Punch	Punch solenoid (PUSOL) is turned on	Three Fold	CF feedshift solenoid (CFSSOL) is turned on	Display	Description	Conv	MB drive motor (MBDM) is turned on at paper conveying	Branch	MB drive motor (MBDM) is turned on at feedshift operation	Display	Description	Folding	CF main motor (CFMM) is turned on	Blade	CF blade motor (CFBM) is turned on	Bundle Up	CF adjustment motor 2 (CFADM2) is turned on	Bundle Down	CF adjustment motor 1 (CFADM1) is turned on	Staple	CF staple motor (CFSTM) is turned on	Width Test(A3)	CF side registration motor 1, 2 (CFSRM1, 2) is turned on	Width Test(LD)	CF side registration motor 1, 2 (CFSRM1, 2) is turned on	Feed In	CF paper entry motor (CFPEM) is turned on
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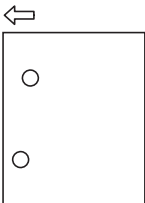
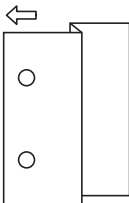
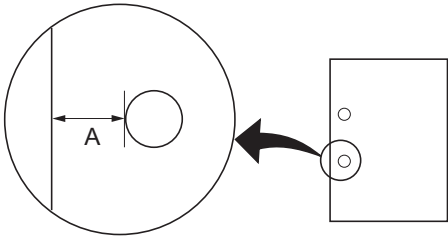
Item No.	Description																		
U241	<p data-bbox="287 241 976 275"><b>Checking the operation of the switches of the finisher</b></p> <p data-bbox="287 309 440 342"><b>Description</b></p> <p data-bbox="287 344 1414 378">Displays the status of each switches and sensors of 1000-sheet finisher or 4000-sheet finisher.</p> <p data-bbox="287 380 400 414"><b>Purpose</b></p> <p data-bbox="287 416 1406 483">To check the operation of each switches and sensors of the 1000-sheet finisher or 4000-sheet finisher.</p> <p data-bbox="287 517 387 551"><b>Method</b></p> <ol data-bbox="304 553 695 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be checked.</li> <li>3. Press the OK key</li> </ol> <table border="1" data-bbox="336 665 1399 954"> <thead> <tr> <th data-bbox="336 665 639 710">Display</th> <th data-bbox="639 665 1399 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 710 639 754">Finisher</td> <td data-bbox="639 710 1399 754">Checking the switch and sensor of the document finisher</td> </tr> <tr> <td data-bbox="336 754 639 799">Mail Box</td> <td data-bbox="639 754 1399 799">Checking the switch and sensor of the mailbox</td> </tr> <tr> <td data-bbox="336 799 639 844">Booklet</td> <td data-bbox="639 799 1399 844">Checking the switch and sensor of the center-folding unit</td> </tr> <tr> <td data-bbox="336 844 639 889">Top Mail Box</td> <td data-bbox="639 844 1399 889">Checking the motor of the top mailbox</td> </tr> <tr> <td data-bbox="336 889 639 954">Punch</td> <td data-bbox="639 889 1399 954">Checking the switch and sensor of the punch unit</td> </tr> </tbody> </table> <p data-bbox="287 999 526 1032"><b>Method: [Finisher]</b></p> <ol data-bbox="304 1034 1426 1133" style="list-style-type: none"> <li>1. Turn each switch or sensor on and off manually to check the status. When a switch/sensor is detected to be in the ON position, the display for that switch/sensor will be "1".</li> </ol> <table border="1" data-bbox="336 1146 1414 1960"> <thead> <tr> <th data-bbox="336 1146 746 1191">Display</th> <th data-bbox="746 1146 1414 1191">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1191 746 1576">           Switch 1      0 0 0 0 0 0 0                      </td> <td data-bbox="746 1191 1414 1576">           1 First digit: DF front cover switch (DFFCSW)            1 Second digit: DF eject cover switch (DFECSW)*1            1 Third digit: DF top cover switch (DFTCSW)*2            1 Fourth digit: DF tray sensor 1 (DFTS1)            1 Fifth: DF tray sensor 2 (DFTS2)*1            1 Sixth: DF tray sensor 3 (DFTS3)            1 Seventh: DF tray sensor 4 (DFTS4)         </td> </tr> <tr> <td data-bbox="336 1576 746 1960">           Switch 2      0 0 0 0 0 0 0                    </td> <td data-bbox="746 1576 1414 1960">           1 First digit: DF tray sensor 5 (DFTS5)*1            1 Second digit: DF tray upper surface sensor (DFTUSS)            1 Third digit: DF paper entry sensor (DFPES)            1 Fourth digit: DF sub eject sensor (DFSES)*1            1 Fifth: DF middle eject sensor (DFMES)            1 Sixth: DF drum sensor (DFDRS)*1            1 Seventh: DF slide sensor (DFSLS)         </td> </tr> </tbody> </table>	Display	Description	Finisher	Checking the switch and sensor of the document finisher	Mail Box	Checking the switch and sensor of the mailbox	Booklet	Checking the switch and sensor of the center-folding unit	Top Mail Box	Checking the motor of the top mailbox	Punch	Checking the switch and sensor of the punch unit	Display	Description	Switch 1      0 0 0 0 0 0 0           	1 First digit: DF front cover switch (DFFCSW) 1 Second digit: DF eject cover switch (DFECSW)*1 1 Third digit: DF top cover switch (DFTCSW)*2 1 Fourth digit: DF tray sensor 1 (DFTS1) 1 Fifth: DF tray sensor 2 (DFTS2)*1 1 Sixth: DF tray sensor 3 (DFTS3) 1 Seventh: DF tray sensor 4 (DFTS4)	Switch 2      0 0 0 0 0 0 0          	1 First digit: DF tray sensor 5 (DFTS5)*1 1 Second digit: DF tray upper surface sensor (DFTUSS) 1 Third digit: DF paper entry sensor (DFPES) 1 Fourth digit: DF sub eject sensor (DFSES)*1 1 Fifth: DF middle eject sensor (DFMES) 1 Sixth: DF drum sensor (DFDRS)*1 1 Seventh: DF slide sensor (DFSLS)
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Switch 1      0 0 0 0 0 0 0           	1 First digit: DF front cover switch (DFFCSW) 1 Second digit: DF eject cover switch (DFECSW)*1 1 Third digit: DF top cover switch (DFTCSW)*2 1 Fourth digit: DF tray sensor 1 (DFTS1) 1 Fifth: DF tray sensor 2 (DFTS2)*1 1 Sixth: DF tray sensor 3 (DFTS3) 1 Seventh: DF tray sensor 4 (DFTS4)																		
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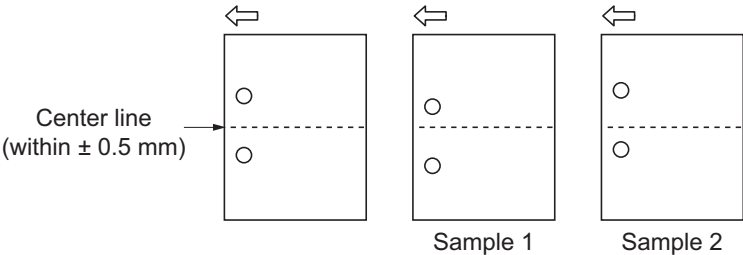
Item No.	Description												
U241	<table border="1" data-bbox="336 286 1415 958"> <thead> <tr> <th data-bbox="336 286 746 331">Display</th> <th data-bbox="746 286 1415 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 331 746 719">           Switch 3      0 0 0 0 0 0 0                      </td> <td data-bbox="746 331 1415 719">           1 First digit: DF middle tray sensor (DFMTR)            1 Second digit: DF side registration sensor 1 (DFSRS1)            1 Third digit: DF side registration sensor 2 (DFSRS2)            1 Fourth digit: DF bundle discharge sensor (DFBDS)*1            1 Fifth: DF adjustment sensor (DFADS)            1 Sixth: DF paddle sensor (DFPDS)*1            1 Seventh: DF shift sensor 1 (DFSFS1)         </td> </tr> <tr> <td data-bbox="336 719 746 958">           Switch 4      0 0 0 0 0 0 0          </td> <td data-bbox="746 719 1415 958">           1 First digit: DF shift sensor 2 (DFSFS2)            1 Second digit: DF shift release sensor (DFSFRS)            1 Third digit: DF sub tray full sensor (DFSTFS)            1 Fourth digit: DF shift set sensor (DFSFS)         </td> </tr> </tbody> </table> <p data-bbox="336 981 1061 1014">* : *1: 4000-sheet finisher only. *2: 1000-sheet finisher only.</p> <p data-bbox="288 1086 534 1120"><b>Method: [Mail Box]</b></p> <p data-bbox="304 1122 1428 1220">1. Turn each switch or sensor on and off manually to check the status. When a switch/sensor is detected to be in the ON position, the display for that switch/sensor will be "1".</p> <table border="1" data-bbox="336 1234 1415 1883"> <thead> <tr> <th data-bbox="336 1234 746 1279">Display</th> <th data-bbox="746 1234 1415 1279">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1279 746 1693">           Switch 1      0 0 0 0 0 0 0                    </td> <td data-bbox="746 1279 1415 1693">           1 First digit: MB eject sensor (MBES)            1 Second digit: MB cover open/close switch (MBCOCSW)            1 Third digit: MB overflow sensor 1 (MBOFS1)            1 Fourth digit: MB overflow sensor 2 (MBOFS2)            1 Fifth: MB overflow sensor 3 (MBOFS3)            1 Sixth: MB overflow sensor 4 (MBOFS4)            1 Seventh: MB overflow sensor 5 (MBOFS5)         </td> </tr> <tr> <td data-bbox="336 1693 746 1883">           Switch 2      0 0 0 0 0 0 0      </td> <td data-bbox="746 1693 1415 1883">           1 First digit: MB overflow sensor 6 (MBOFS6)            1 Second digit: MB overflow sensor 7 (MBOFS7)            1 Third digit: MB paper entry sensor (MBPES)         </td> </tr> </tbody> </table>	Display	Description	Switch 3      0 0 0 0 0 0 0           	1 First digit: DF middle tray sensor (DFMTR) 1 Second digit: DF side registration sensor 1 (DFSRS1) 1 Third digit: DF side registration sensor 2 (DFSRS2) 1 Fourth digit: DF bundle discharge sensor (DFBDS)*1 1 Fifth: DF adjustment sensor (DFADS) 1 Sixth: DF paddle sensor (DFPDS)*1 1 Seventh: DF shift sensor 1 (DFSFS1)	Switch 4      0 0 0 0 0 0 0     	1 First digit: DF shift sensor 2 (DFSFS2) 1 Second digit: DF shift release sensor (DFSFRS) 1 Third digit: DF sub tray full sensor (DFSTFS) 1 Fourth digit: DF shift set sensor (DFSFS)	Display	Description	Switch 1      0 0 0 0 0 0 0          	1 First digit: MB eject sensor (MBES) 1 Second digit: MB cover open/close switch (MBCOCSW) 1 Third digit: MB overflow sensor 1 (MBOFS1) 1 Fourth digit: MB overflow sensor 2 (MBOFS2) 1 Fifth: MB overflow sensor 3 (MBOFS3) 1 Sixth: MB overflow sensor 4 (MBOFS4) 1 Seventh: MB overflow sensor 5 (MBOFS5)	Switch 2      0 0 0 0 0 0 0   	1 First digit: MB overflow sensor 6 (MBOFS6) 1 Second digit: MB overflow sensor 7 (MBOFS7) 1 Third digit: MB paper entry sensor (MBPES)
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Switch 2      0 0 0 0 0 0 0   	1 First digit: MB overflow sensor 6 (MBOFS6) 1 Second digit: MB overflow sensor 7 (MBOFS7) 1 Third digit: MB paper entry sensor (MBPES)												

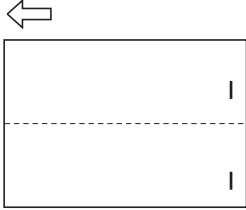
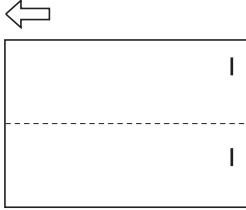


Item No.	Description																								
U246	<p data-bbox="290 241 536 273"><b>Setting the finisher</b></p> <p data-bbox="290 309 440 340"><b>Description</b></p> <p data-bbox="290 344 1326 376">Provides various settings for the 1000-sheet finisher or 4000-sheet finisher, if furnished.</p> <p data-bbox="290 380 400 412"><b>Purpose</b></p> <ol data-bbox="304 416 1426 1173" style="list-style-type: none"> <li>1. <b>Adjustment of registration stop timing in punch mode</b> Adjust if skewed paper conveying occurs or if the print paper is Z-folded in punch mode.</li> <li>2. <b>Adjustment of paper stop timing in the punch mode</b> To adjust this item when the position of a punch hole is different from the specified one.</li> <li>3. <b>Adjustment of center position timing in the punch mode</b> Adjusts the center position of a punch hole in punch mode if the position is not proper.</li> <li>4. <b>Adjustment of front/rear side registration home position</b> Provides optimization when paper jam occurs due to an inferior fitting of the side registration guides to paper.</li> <li>5. <b>Adjustment of front/rear shift home position</b> Performed when adjustment is lost with the ejected paper</li> <li>6. <b>Adjusting of front/back stapling home position</b> Adjusts the stapling position in the staple mode if the position is not proper.</li> <li>7. <b>Adjustment of upper/lower side registration home position</b> Provides optimization when paper jam occurs due to an inferior fitting of the side registration guides to paper.</li> <li>8. <b>Adjustment of booklet stapling position</b> Adjusts the booklet stapling position in the stitching mode if the position is not proper.</li> <li>9. <b>Adjustment of center folding position</b> Adjusts the center folding position in the stitching mode if the position is not proper.</li> <li>10. <b>Adjustment of tri- folding position</b> Adjusts the tri-folding position in the stitching mode if the position is not proper.</li> </ol> <p data-bbox="290 1209 387 1240"><b>Method</b></p> <ol data-bbox="304 1245 595 1344" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="336 1357 1399 1503"> <thead> <tr> <th data-bbox="336 1357 641 1406">Display</th> <th data-bbox="641 1357 1399 1406">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1406 641 1451">Finisher</td> <td data-bbox="641 1406 1399 1451">Adjustment of 1000-sheet finisher and 4000-sheet finisher</td> </tr> <tr> <td data-bbox="336 1451 641 1503">Booklet</td> <td data-bbox="641 1451 1399 1503">Adjustment of center-folding unit</td> </tr> </tbody> </table> <p data-bbox="290 1512 526 1543"><b>Method: [Finisher]</b></p> <ol data-bbox="304 1547 595 1579" style="list-style-type: none"> <li>1. Select the item to set.</li> </ol> <table border="1" data-bbox="336 1592 1399 2022"> <thead> <tr> <th data-bbox="336 1592 641 1641">Display</th> <th data-bbox="641 1592 1399 1641">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1641 641 1686">Punch Regist</td> <td data-bbox="641 1641 1399 1686">1.Adjustment of registration stop timing in punch mode</td> </tr> <tr> <td data-bbox="336 1686 641 1731">Punch Feed</td> <td data-bbox="641 1686 1399 1731">2.Adjustment of the paper stop timing in punch mode</td> </tr> <tr> <td data-bbox="336 1731 641 1776">Punch Width</td> <td data-bbox="641 1731 1399 1776">3.Adjustment of the center position timing in punch mode</td> </tr> <tr> <td data-bbox="336 1776 641 1821">WidthFront HP</td> <td data-bbox="641 1776 1399 1821">4.Adjustment of front side registration home position</td> </tr> <tr> <td data-bbox="336 1821 641 1865">WidthTail HP</td> <td data-bbox="641 1821 1399 1865">4.Adjustment of rear side registration home position</td> </tr> <tr> <td data-bbox="336 1865 641 1910">ShiftFront HP</td> <td data-bbox="641 1865 1399 1910">5.Adjustment of front shift home position</td> </tr> <tr> <td data-bbox="336 1910 641 1955">ShiftTail HP</td> <td data-bbox="641 1910 1399 1955">5.Adjustment of rear shift home position</td> </tr> <tr> <td data-bbox="336 1955 641 2022">Staple HP</td> <td data-bbox="641 1955 1399 2022">6.Adjustment of front and back stapling home position</td> </tr> </tbody> </table>	Display	Description	Finisher	Adjustment of 1000-sheet finisher and 4000-sheet finisher	Booklet	Adjustment of center-folding unit	Display	Description	Punch Regist	1.Adjustment of registration stop timing in punch mode	Punch Feed	2.Adjustment of the paper stop timing in punch mode	Punch Width	3.Adjustment of the center position timing in punch mode	WidthFront HP	4.Adjustment of front side registration home position	WidthTail HP	4.Adjustment of rear side registration home position	ShiftFront HP	5.Adjustment of front shift home position	ShiftTail HP	5.Adjustment of rear shift home position	Staple HP	6.Adjustment of front and back stapling home position
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ShiftTail HP	5.Adjustment of rear shift home position																								
Staple HP	6.Adjustment of front and back stapling home position																								

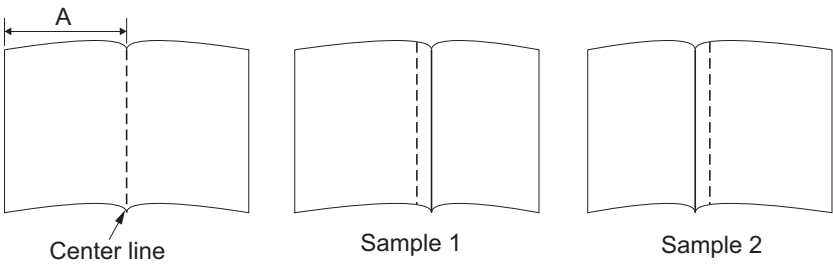
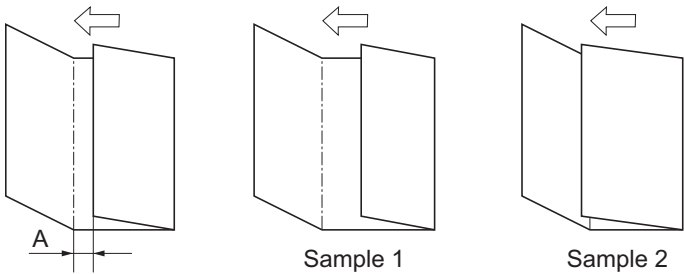


Item No.	Description																
<p><b>U246</b></p>	<p><b>Setting: [Punch Regist]</b></p> <ol style="list-style-type: none"> <li>1. Select [Punch Regist].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 488"> <thead> <tr> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> <th>Change in value per step</th> </tr> </thead> <tbody> <tr> <td>Adjustment of registration stop timing</td> <td>-20 to 20</td> <td>0</td> <td>0.25 mm</td> </tr> </tbody> </table> <p>If skewed paper conveying occurs (sample 1), increase the setting value. If the print paper is Z-folded (sample 2), decrease the setting value.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Sample 1</p> </div> <div style="text-align: center;">  <p>Sample 2</p> </div> </div> <p style="text-align: center;"><b>Figure 1-3-7</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Setting: [Punch Feed]</b></p> <ol style="list-style-type: none"> <li>1. Select [Punch Feed].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1093 1401 1227"> <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>Adjustment of the paper stop timing</td> <td>-10 to 10</td> <td>0</td> <td>0.52 mm</td> </tr> </tbody> </table> <p>If the distance of the position of a punch hole is smaller than the specified value A, increase the setting value. If the distance is larger than the value A, decrease the setting value.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>Preset value A: 13 mm (metric) 9.5 mm (inch)</p> </div> </div> <p style="text-align: center;"><b>Figure 1-3-8</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol>	Description	Setting range	Initial setting	Change in value per step	Adjustment of registration stop timing	-20 to 20	0	0.25 mm	Description	Setting range	Initial setting	Change in value per step	Adjustment of the paper stop timing	-10 to 10	0	0.52 mm
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U246	<p><b>Setting: [Punch Width]</b></p> <ol style="list-style-type: none"> <li>1. Select [Punch Width].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 483"> <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>Adjustment of the punch center position timing</td> <td>-4 to 4</td> <td>0</td> <td>0.52 mm</td> </tr> </tbody> </table> <p>If the punch hole is too close to the front of the machine, increase the setting value. If the punch hole is too close to the rear of the machine, decrease the setting value.</p>  <p><b>Figure 1-3-9</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Setting: [WidthFront HP/WidthTail HP]</b></p> <ol style="list-style-type: none"> <li>1. Select [Width Front HP] or [Width Tail HP].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1108 1401 1285"> <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>Adjustment of front side registration home position</td> <td>-15 to 15</td> <td>0</td> <td>0.19 mm</td> </tr> <tr> <td>Adjustment of rear side registration home position</td> <td>-15 to 15</td> <td>0</td> <td>0.19 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> <li>4. Press the Back key. The screen for selecting a maintenance item No. is displayed.</li> <li>5. Enter maintenance mode U240 and select [Motor], then [Width Test(A3)]. The width guides of the middle tray will move to A3-size position.</li> <li>6. Pull the middle tray, insert paper between the guides and check that paper is about the guides.</li> <li>7. Repeat the above adjustment until paper is properly in position.</li> </ol> <p><b>Setting: [ShiftFront HP/ShiftTail HP]</b></p> <ol style="list-style-type: none"> <li>1. Select [Shift Front HP] or [Shift Tail HP].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1648 1401 1825"> <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>Adjustment of front shift home position</td> <td>-15 to 15</td> <td>0</td> <td>0.19 mm</td> </tr> <tr> <td>Adjustment of rear shift home position</td> <td>-15 to 15</td> <td>0</td> <td>0.19 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> <li>4. Press the Back key. The screen for selecting a maintenance item No. is displayed.</li> <li>5. Enter maintenance mode U240 and select [Motor], then [Sort Test].</li> <li>6. Repeat the above adjustment until eject paper is properly in position.</li> </ol>	Description	Setting range	Initial setting	Change in value per step	Adjustment of the punch center position timing	-4 to 4	0	0.52 mm	Description	Setting range	Initial setting	Change in value per step	Adjustment of front side registration home position	-15 to 15	0	0.19 mm	Adjustment of rear side registration home position	-15 to 15	0	0.19 mm	Description	Setting range	Initial setting	Change in value per step	Adjustment of front shift home position	-15 to 15	0	0.19 mm	Adjustment of rear shift home position	-15 to 15	0	0.19 mm
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<p><b>U246</b></p>	<p><b>Setting: [Staple HP]</b></p> <ol style="list-style-type: none"> <li>1. Select [Staple HP].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 488"> <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>Adjustment of front and back stapling home position</td> <td>-15 to 15</td> <td>0</td> <td>0.19 mm</td> </tr> </tbody> </table> <p>When staple positions are off toward the front side of the machine (sample 1), increase the setting value. When staple positions are off toward the rear side of the machine (sample 2), decrease the setting value.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Sample 1</p> </div> <div style="text-align: center;">  <p>Sample 2</p> </div> </div> <p style="text-align: center;"><b>Figure 1-3-10</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Method: [Booklet]</b></p> <ol style="list-style-type: none"> <li>1. Select the item to set.</li> </ol> <table border="1" data-bbox="336 1115 1401 1624"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>WidthUp HP</td> <td>7.Adjustment of upper side registration home position</td> </tr> <tr> <td>WidthDown HP</td> <td>7.Adjustment of lower side registration home position</td> </tr> <tr> <td>Staple Pos1</td> <td>8.Adjustment of booklet stapling position for A4/Letter size</td> </tr> <tr> <td>Staple Pos2</td> <td>8.Adjustment of booklet stapling position for B4/Legal size</td> </tr> <tr> <td>Staple Pos3</td> <td>8.Adjustment of booklet stapling position for A3/Ledger/8K size</td> </tr> <tr> <td>Booklet Pos1</td> <td>9.Adjustment of center folding position for A4/Letter size</td> </tr> <tr> <td>Booklet Pos2</td> <td>9.Adjustment of center folding position for B4/Legal size</td> </tr> <tr> <td>Booklet Pos3</td> <td>9.Adjustment of center folding position for A3/Ledger/8K size</td> </tr> <tr> <td>Three Fold</td> <td>10.Adjustment of tri-folding position</td> </tr> </tbody> </table>	Description	Setting range	Initial setting	Change in value per step	Adjustment of front and back stapling home position	-15 to 15	0	0.19 mm	Display	Description	WidthUp HP	7.Adjustment of upper side registration home position	WidthDown HP	7.Adjustment of lower side registration home position	Staple Pos1	8.Adjustment of booklet stapling position for A4/Letter size	Staple Pos2	8.Adjustment of booklet stapling position for B4/Legal size	Staple Pos3	8.Adjustment of booklet stapling position for A3/Ledger/8K size	Booklet Pos1	9.Adjustment of center folding position for A4/Letter size	Booklet Pos2	9.Adjustment of center folding position for B4/Legal size	Booklet Pos3	9.Adjustment of center folding position for A3/Ledger/8K size	Three Fold	10.Adjustment of tri-folding position
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<b>U246</b>	<p><b>Setting: [WidthUp HP/WidthDown HP]</b></p> <ol style="list-style-type: none"> <li>1. Select [Width Up HP] or [Width Down HP].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 533"> <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>Adjustment of upper side registration home position</td> <td>-15 to 15</td> <td>0</td> <td>0.34 mm</td> </tr> <tr> <td>Adjustment of lower side registration home position</td> <td>-15 to 15</td> <td>0</td> <td>0.34 mm</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> <li>4. Press the Back key. The screen for selecting a maintenance item No. is displayed.</li> <li>5. Enter maintenance mode U240 and select [Booklet], then [Width Test(A3)]. The width guides of the center-folding unit will move to A3-size position.</li> <li>6. Pull the center-folding unit, insert paper between the guides and check that paper is about the guides.</li> <li>7. Repeat the above adjustment until paper is properly in position.</li> </ol> <p><b>Setting: [Staple Pos]</b></p> <ol style="list-style-type: none"> <li>1. Select [Staple Pos1], [Staple Pos2] or [Staple Pos3].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 929 1401 1261"> <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>Adjustment of booklet stapling position for A4/Letter size</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> <tr> <td>Adjustment of booklet stapling position for B4/Legal size</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> <tr> <td>Adjustment of booklet stapling position for A3/Ledger/8K size</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> </tbody> </table> <p>When staples are placed too far right (sample 1), decrease the preset value. When staples are placed too far left (sample 2), increase the preset value. Reference value: within <math>\pm 2</math> mm</p> <div data-bbox="405 1397 1315 1671" style="text-align: center;"> <p style="display: flex; justify-content: space-around;"> <span>Sample 1</span> <span>Sample 2</span> </p> </div> <p><b>Figure 1-3-11</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol>	Description	Setting range	Initial setting	Change in value per step	Adjustment of upper side registration home position	-15 to 15	0	0.34 mm	Adjustment of lower side registration home position	-15 to 15	0	0.34 mm	Description	Setting range	Initial setting	Change in value per step	Adjustment of booklet stapling position for A4/Letter size	-15 to 15	0	0.32 mm	Adjustment of booklet stapling position for B4/Legal size	-15 to 15	0	0.32 mm	Adjustment of booklet stapling position for A3/Ledger/8K size	-15 to 15	0	0.32 mm
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<p><b>U246</b></p>	<p><b>Setting: [Booklet Pos]</b></p> <ol style="list-style-type: none"> <li>1. Select [Booklet Pos1], [Booklet Pos2] or [Booklet Pos3].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 353 1401 616"> <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>Adjustment of center folding position for A4/Letter size</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> <tr> <td>Adjustment of center folding position for B4/Legal size</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> <tr> <td>Adjustment of center folding position for A3/Ledger/8K size</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> </tbody> </table> <p>When the centerfold position too far right (sample 1), increase the preset value. When the centerfold position too far left (sample 2), decrease the setting value.</p> <p>Reference value A: A4, Letter: Length of paper × 1/2 ± 2 mm                      A3, Ledger, B4: Length of paper × 1/2 ± 3 mm</p>  <p style="text-align: center;"><b>Figure 1-3-12</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Setting: [Three Fold]</b></p> <ol style="list-style-type: none"> <li>1. Select [Three Fold].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1279 1401 1413"> <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>Adjustment of tri-folding position</td> <td>-15 to 15</td> <td>0</td> <td>0.32 mm</td> </tr> </tbody> </table> <p>When the tri-fold position too far right (sample 1), increase the preset value. When the tri-fold position too far left (sample 2), decrease the setting value.</p> <p>Reference value A: 7.0 ± 2 mm</p>  <p style="text-align: center;"><b>Figure 1-3-13</b></p> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Change in value per step	Adjustment of center folding position for A4/Letter size	-15 to 15	0	0.32 mm	Adjustment of center folding position for B4/Legal size	-15 to 15	0	0.32 mm	Adjustment of center folding position for A3/Ledger/8K size	-15 to 15	0	0.32 mm	Description	Setting range	Initial setting	Change in value per step	Adjustment of tri-folding position	-15 to 15	0	0.32 mm
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<b>U247</b>	<p data-bbox="288 241 663 271"><b>Setting the paper feed device</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 911 374">Turns on motor and clutches of paper feeder device.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1078 443">To check the operation of motor and clutches of paper feed device.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 683 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the paper feed device.</li> </ol> <table border="1" data-bbox="336 595 1401 931"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">2PF</td> <td data-bbox="639 640 1401 685">Paper feeder</td> </tr> <tr> <td data-bbox="336 685 639 730">LCF</td> <td data-bbox="639 685 1401 730">Large capacity feeder</td> </tr> <tr> <td data-bbox="336 730 639 775">Side Deck</td> <td data-bbox="639 730 1401 775">Side deck</td> </tr> <tr> <td data-bbox="336 775 639 819">SMT</td> <td data-bbox="639 775 1401 819">Side multi tray</td> </tr> <tr> <td data-bbox="336 819 639 864">Side 2PF</td> <td data-bbox="639 819 1401 864">Side paper feeder</td> </tr> <tr> <td data-bbox="336 864 639 931">Side LCF</td> <td data-bbox="639 864 1401 931">Side large capacity feeder</td> </tr> </tbody> </table> <p data-bbox="288 976 592 1005"><b>Method: [2PF/Side 2PF]</b></p> <ol data-bbox="304 1010 1078 1111" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Motor] or [Device].</li> <li>3. Select the item to be operated using the Left/Right Select keys.</li> </ol> <table border="1" data-bbox="336 1124 1401 1556"> <thead> <tr> <th colspan="2" data-bbox="336 1124 715 1169">Display</th> <th data-bbox="715 1124 1401 1169">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1169 448 1267" rowspan="2">Motor</td> <td data-bbox="448 1169 715 1214">Off</td> <td data-bbox="715 1169 1401 1214">PF paper feed motor (PFPFM) is turned off</td> </tr> <tr> <td data-bbox="448 1214 715 1267">On</td> <td data-bbox="715 1214 1401 1267">PF paper feed motor (PFPFM) is turned on</td> </tr> <tr> <td data-bbox="336 1267 448 1556" rowspan="6">Device</td> <td data-bbox="448 1267 715 1312">C1 Clutch</td> <td data-bbox="715 1267 1401 1312">PF paper conveying clutch 1 (PFPCCL1) is turned on</td> </tr> <tr> <td data-bbox="448 1312 715 1357">C2 Clutch</td> <td data-bbox="715 1312 1401 1357">PF paper conveying clutch 2 (PFPCCL2) is turned on</td> </tr> <tr> <td data-bbox="448 1357 715 1402">V Feed(H) Clutch</td> <td data-bbox="715 1357 1401 1402">PF paper feed clutch 1 (PFPFCL1) is turned on</td> </tr> <tr> <td data-bbox="448 1402 715 1447">V Feed(L) Clutch</td> <td data-bbox="715 1402 1401 1447">PF paper feed clutch 2 (PFPFCL2) is turned on</td> </tr> <tr> <td data-bbox="448 1447 715 1491">Cassette1 Solenoid</td> <td data-bbox="715 1447 1401 1491">PF pickup solenoid 1 (PFPUSOL1) is turned on</td> </tr> <tr> <td data-bbox="448 1491 715 1556">Cassette2 Solenoid</td> <td data-bbox="715 1491 1401 1556">PF pickup solenoid 2 (PFPUSOL2) is turned on</td> </tr> </tbody> </table> <ol data-bbox="304 1568 802 1668" style="list-style-type: none"> <li>4. Select [Execute].</li> <li>5. Press the OK key. The operation starts.</li> <li>6. To stop operation, press the Back key.</li> </ol>	Display	Description	2PF	Paper feeder	LCF	Large capacity feeder	Side Deck	Side deck	SMT	Side multi tray	Side 2PF	Side paper feeder	Side LCF	Side large capacity feeder	Display		Description	Motor	Off	PF paper feed motor (PFPFM) is turned off	On	PF paper feed motor (PFPFM) is turned on	Device	C1 Clutch	PF paper conveying clutch 1 (PFPCCL1) is turned on	C2 Clutch	PF paper conveying clutch 2 (PFPCCL2) is turned on	V Feed(H) Clutch	PF paper feed clutch 1 (PFPFCL1) is turned on	V Feed(L) Clutch	PF paper feed clutch 2 (PFPFCL2) is turned on	Cassette1 Solenoid	PF pickup solenoid 1 (PFPUSOL1) is turned on	Cassette2 Solenoid	PF pickup solenoid 2 (PFPUSOL2) is turned on
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	Cassette2 Solenoid	PF pickup solenoid 2 (PFPUSOL2) is turned on																																		

Item No.	Description																																				
U247	<p><b>Method: [LCF/Side LCF]</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Motor] or [Device].</li> </ol> <ol style="list-style-type: none"> <li>1. Select the item to be operated using the Left/Right Select keys</li> </ol> <table border="1" data-bbox="336 389 1401 869"> <thead> <tr> <th colspan="2">Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Motor</td> <td>Off</td> <td>PF paper feed motor (PFPFM) is turned off</td> </tr> <tr> <td>On</td> <td>PF paper feed motor (PFPFM) is turned on</td> </tr> <tr> <td rowspan="7">Device</td> <td>C1 Clutch</td> <td>PF paper conveying clutch 1 (PFPCCL1) is turned on</td> </tr> <tr> <td>C2 Clutch</td> <td>PF paper conveying clutch 2 (PFPCCL2) is turned on</td> </tr> <tr> <td>V Feed Clutch</td> <td>PF paper conveying clutch 3 (PFPCCL3) is turned on</td> </tr> <tr> <td>H Feed1 Clutch</td> <td>PF paper feed clutch 1 (PFPFCL1) is turned on</td> </tr> <tr> <td>H Feed2 Clutch</td> <td>PF paper feed clutch 2 (PFPFCL2) is turned on</td> </tr> <tr> <td>Cassette1 Solenoid</td> <td>PF pickup solenoid 1 (PFUSOL1) is turned on</td> </tr> <tr> <td>Cassette2 Solenoid</td> <td>PF pickup solenoid 2 (PFUSOL2) is turned on</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>2. Select [Execute].</li> <li>3. Press the OK key. The operation starts.</li> <li>4. To stop operation, press the Back key.</li> </ol> <p><b>Method: [Side Deck]</b></p> <ol style="list-style-type: none"> <li>1. Press [Motor] or [Device] and select the item.</li> </ol> <table border="1" data-bbox="336 1099 1401 1339"> <thead> <tr> <th colspan="2">Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Motor</td> <td>Off</td> <td>SF paper feed motor (SFPFM) is turned off</td> </tr> <tr> <td>On</td> <td>SF paper feed motor (SFPFM) is turned on</td> </tr> <tr> <td rowspan="2">Device</td> <td>C1 Clutch</td> <td>SF paper conveying clutch (SFPCCL) is turned on</td> </tr> <tr> <td>Cassette1 Solenoid</td> <td>SF pickup solenoid (PFUSOL) is turned on</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>2. Select [Execute].</li> <li>3. Press the OK key. The operation starts.</li> <li>4. To stop operation, press the Back key.</li> </ol>	Display		Description	Motor	Off	PF paper feed motor (PFPFM) is turned off	On	PF paper feed motor (PFPFM) is turned on	Device	C1 Clutch	PF paper conveying clutch 1 (PFPCCL1) is turned on	C2 Clutch	PF paper conveying clutch 2 (PFPCCL2) is turned on	V Feed Clutch	PF paper conveying clutch 3 (PFPCCL3) is turned on	H Feed1 Clutch	PF paper feed clutch 1 (PFPFCL1) is turned on	H Feed2 Clutch	PF paper feed clutch 2 (PFPFCL2) is turned on	Cassette1 Solenoid	PF pickup solenoid 1 (PFUSOL1) is turned on	Cassette2 Solenoid	PF pickup solenoid 2 (PFUSOL2) is turned on	Display		Description	Motor	Off	SF paper feed motor (SFPFM) is turned off	On	SF paper feed motor (SFPFM) is turned on	Device	C1 Clutch	SF paper conveying clutch (SFPCCL) is turned on	Cassette1 Solenoid	SF pickup solenoid (PFUSOL) is turned on
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	Cassette1 Solenoid	SF pickup solenoid (PFUSOL) is turned on																																			

Item No.	Description																					
<b>U247</b>	<p><b>Method: [SMT]</b></p> <ol style="list-style-type: none"> <li>Press the OK key.</li> <li>Select [Motor] or [Device].</li> </ol> <ol style="list-style-type: none"> <li>Select the item to be operated using the Left/Right Select keys</li> </ol> <table border="1" data-bbox="336 389 1401 822"> <thead> <tr> <th colspan="2">Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Motor</td> <td>Off</td> <td>SM paper feed motor (SMPFM) is turned off</td> </tr> <tr> <td>On</td> <td>SM paper feed motor (SMPFM) is turned on</td> </tr> <tr> <td rowspan="6">Device</td> <td>C1 Clutch</td> <td>SM paper conveying clutch 1 (SMPCL1) is turned on</td> </tr> <tr> <td>Feed1 Clutch</td> <td>SM paper conveying clutch 2 (SMPCL2) is turned on</td> </tr> <tr> <td>Feed2 Clutch</td> <td>SM paper conveying clutch 3 (SMPCL3) is turned on</td> </tr> <tr> <td>Feed3 Clutch</td> <td>SM paper conveying clutch 4 (SMPCL4) is turned on</td> </tr> <tr> <td>Cassette1 Solenoid</td> <td>SM pickup solenoid (SMPUSOL) is turned on</td> </tr> <tr> <td>Separator Solenoid</td> <td>SM feedshift solenoid (SMFSSOL) is turned on</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Select [Execute].</li> <li>Press the OK key. The operation starts.</li> </ol> <p>To stop operation, press the Back key.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display		Description	Motor	Off	SM paper feed motor (SMPFM) is turned off	On	SM paper feed motor (SMPFM) is turned on	Device	C1 Clutch	SM paper conveying clutch 1 (SMPCL1) is turned on	Feed1 Clutch	SM paper conveying clutch 2 (SMPCL2) is turned on	Feed2 Clutch	SM paper conveying clutch 3 (SMPCL3) is turned on	Feed3 Clutch	SM paper conveying clutch 4 (SMPCL4) is turned on	Cassette1 Solenoid	SM pickup solenoid (SMPUSOL) is turned on	Separator Solenoid	SM feedshift solenoid (SMFSSOL) is turned on
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	Separator Solenoid	SM feedshift solenoid (SMFSSOL) is turned on																				
<b>U250</b>	<p><b>Checking/clearing the maintenance cycle</b></p> <p><b>Description</b> Changes preset values for maintenance cycle.</p> <p><b>Purpose</b> Provides changing the time when the message to acknowledge to conduct maintenance is periodically displayed.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>Press the OK key.</li> <li>Select the item to be set.</li> <li>Change the setting using the Left/Right Select keys or numeric keys.</li> </ol> <table border="1" data-bbox="336 1514 1431 1738"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>M.Cnt A</td> <td>Preset values for maintenance cycle (kit A)</td> <td>0 to 9999999</td> <td>600000</td> </tr> <tr> <td>M.Cnt B</td> <td>Preset values for maintenance cycle (kit B)</td> <td>0 to 9999999</td> <td>600000</td> </tr> <tr> <td>M.Cnt C</td> <td>Preset values for maintenance cycle (kit C)</td> <td>0 to 9999999</td> <td>300000</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Press the OK key. The value is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	M.Cnt A	Preset values for maintenance cycle (kit A)	0 to 9999999	600000	M.Cnt B	Preset values for maintenance cycle (kit B)	0 to 9999999	600000	M.Cnt C	Preset values for maintenance cycle (kit C)	0 to 9999999	300000					
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M.Cnt C	Preset values for maintenance cycle (kit C)	0 to 9999999	300000																			



Item No.	Description																
U251	<p data-bbox="290 241 847 271"><b>Checking/clearing the maintenance counter</b></p> <p data-bbox="290 311 440 340"><b>Description</b></p> <p data-bbox="290 344 951 374">Displays and clears or changes the maintenance count.</p> <p data-bbox="290 380 400 409"><b>Purpose</b></p> <p data-bbox="290 414 1390 443">To verify the maintenance counter count. Also to clear the count during maintenance service.</p> <p data-bbox="290 483 384 512"><b>Setting</b></p> <ol data-bbox="308 517 847 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be changed.</li> <li>3. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 631 1431 857"> <thead> <tr> <th data-bbox="336 631 504 712">Display</th> <th data-bbox="504 631 1035 712">Description</th> <th data-bbox="1035 631 1240 712">Setting range</th> <th data-bbox="1240 631 1431 712">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 504 757">M.Cnt A</td> <td data-bbox="504 712 1035 757">Count value for maintenance cycle (kit A)</td> <td data-bbox="1035 712 1240 757">0 to 9999999</td> <td data-bbox="1240 712 1431 757">0</td> </tr> <tr> <td data-bbox="336 757 504 801">M.Cnt B</td> <td data-bbox="504 757 1035 801">Count value for maintenance cycle (kit B)</td> <td data-bbox="1035 757 1240 801">0 to 9999999</td> <td data-bbox="1240 757 1431 801">0</td> </tr> <tr> <td data-bbox="336 801 504 857">M.Cnt C</td> <td data-bbox="504 801 1035 857">Count value for maintenance cycle (kit C)</td> <td data-bbox="1035 801 1240 857">0 to 9999999</td> <td data-bbox="1240 801 1431 857">0</td> </tr> </tbody> </table> <ol data-bbox="308 891 751 920" style="list-style-type: none"> <li>4. Press the OK key. The value is set.</li> </ol> <p data-bbox="290 960 400 990"><b>Clearing</b></p> <ol data-bbox="308 994 892 1059" style="list-style-type: none"> <li>1. Select [Clear].</li> <li>2. Press the OK key. The setting value is cleared.</li> </ol> <p data-bbox="290 1099 440 1128"><b>Completion</b></p> <p data-bbox="290 1133 1262 1162">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	M.Cnt A	Count value for maintenance cycle (kit A)	0 to 9999999	0	M.Cnt B	Count value for maintenance cycle (kit B)	0 to 9999999	0	M.Cnt C	Count value for maintenance cycle (kit C)	0 to 9999999	0
Display	Description	Setting range	Initial setting														
M.Cnt A	Count value for maintenance cycle (kit A)	0 to 9999999	0														
M.Cnt B	Count value for maintenance cycle (kit B)	0 to 9999999	0														
M.Cnt C	Count value for maintenance cycle (kit C)	0 to 9999999	0														

Item No.	Description																
U252	<p data-bbox="288 241 580 271"><b>Setting the destination</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1254 374">Switches the operations and screens of the machine according to the destination.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1426 479">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="288 519 387 548"><b>Method</b></p> <ol data-bbox="304 553 600 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the destination.</li> </ol> <table border="1" data-bbox="336 631 1401 1014"> <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">Japan Metric</td> <td data-bbox="639 676 1401 721">Metric (Japan) specifications</td> </tr> <tr> <td data-bbox="336 721 639 766">Inch</td> <td data-bbox="639 721 1401 766">Inch (North America) specifications</td> </tr> <tr> <td data-bbox="336 766 639 810">Europe Metric</td> <td data-bbox="639 766 1401 810">Metric (Europe) specifications</td> </tr> <tr> <td data-bbox="336 810 639 855">Asia Pacific</td> <td data-bbox="639 810 1401 855">Metric (Asia Pacific) specifications</td> </tr> <tr> <td data-bbox="336 855 639 900">Australia</td> <td data-bbox="639 855 1401 900">Australia specifications</td> </tr> <tr> <td data-bbox="336 900 639 945">China</td> <td data-bbox="639 900 1401 945">China specifications</td> </tr> <tr> <td data-bbox="336 945 639 1014">Korea</td> <td data-bbox="639 945 1401 1014">Korea specifications</td> </tr> </tbody> </table> <ol data-bbox="304 1025 1426 1124" style="list-style-type: none"> <li>3. Press the OK key.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol> <p data-bbox="336 1128 1059 1158">* : An error code is displayed in case of an initialization error.</p> <p data-bbox="371 1162 1426 1227">When errors occurred, turn main power switch off then on, and execute initialization using maintenance item U252.</p>	Display	Description	Japan Metric	Metric (Japan) specifications	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																
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Item No.	Description																
U253	<p data-bbox="287 241 861 275"><b>Switching between double and single counts</b></p> <p data-bbox="287 309 438 342"><b>Description</b></p> <p data-bbox="287 344 1332 378">Switches the count system for the total counter and other counters for every color mode.</p> <p data-bbox="287 380 399 414"><b>Purpose</b></p> <p data-bbox="287 416 1396 483">Used to select, according to the preference of the user, if A3/Ledger paper is to be counted as one sheet (single count) or two sheets (double count).</p> <p data-bbox="287 517 383 551"><b>Setting</b></p> <ol data-bbox="303 553 598 654" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="335 665 1396 810"> <thead> <tr> <th data-bbox="343 665 638 710">Display</th> <th data-bbox="638 665 1396 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 710 638 754">Full Color</td> <td data-bbox="638 710 1396 754">Count system of full color mode</td> </tr> <tr> <td data-bbox="343 754 638 810">B/W</td> <td data-bbox="638 754 1396 810">Count system of black/white mode</td> </tr> </tbody> </table> <ol data-bbox="303 866 630 900" style="list-style-type: none"> <li>4. Select the count system.</li> </ol> <table border="1" data-bbox="335 911 1396 1153"> <thead> <tr> <th data-bbox="343 911 638 956">Display</th> <th data-bbox="638 911 1396 956">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 956 638 1001">SGL(All)</td> <td data-bbox="638 956 1396 1001">Single count for all size paper</td> </tr> <tr> <td data-bbox="343 1001 638 1046">DBL(A3/Ledger)</td> <td data-bbox="638 1001 1396 1046">Double count for A3/Ledger size or larger</td> </tr> <tr> <td data-bbox="343 1046 638 1090">DBL(B4)</td> <td data-bbox="638 1046 1396 1090">Double count for B4 size or larger</td> </tr> <tr> <td data-bbox="343 1090 638 1153">DBL(Folio)</td> <td data-bbox="638 1090 1396 1153">Double count for Folio size or larger</td> </tr> </tbody> </table> <p data-bbox="335 1164 694 1198">Initial setting: DBL(A3/Ledger)</p> <ol data-bbox="303 1200 766 1234" style="list-style-type: none"> <li>5. Press the OK key. The setting is set.</li> </ol> <p data-bbox="287 1267 438 1301"><b>Completion</b></p> <p data-bbox="287 1303 1260 1337">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Full Color	Count system of full color mode	B/W	Count system of black/white mode	Display	Description	SGL(All)	Single count for all size paper	DBL(A3/Ledger)	Double count for A3/Ledger size or larger	DBL(B4)	Double count for B4 size or larger	DBL(Folio)	Double count for Folio size or larger
Display	Description																
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DBL(Folio)	Double count for Folio size or larger																

Item No.	Description						
<b>U260</b>	<p><b>Selecting the timing for print counting</b></p> <p><b>Description</b> Changes the print count timing for the total counter and other counters.</p> <p><b>Purpose</b> To be set according to user request.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the print count timing.</li> </ol> <table border="1" data-bbox="336 600 1401 741"> <thead> <tr> <th data-bbox="336 600 643 645">Display</th> <th data-bbox="643 600 1401 645">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 645 643 689">Feed</td> <td data-bbox="643 645 1401 689">When secondary paper feed starts</td> </tr> <tr> <td data-bbox="336 689 643 741">Eject</td> <td data-bbox="643 689 1401 741">When the paper is ejected</td> </tr> </tbody> </table> <p>Initial setting: Eject</p> <ol style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol> <p><b>Completion</b> Press the Back 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						
<b>U265</b>	<p><b>Setting OEM purchaser code</b></p> <p><b>Description</b> Sets the OEM purchaser code.</p> <p><b>Purpose</b> Sets the code when replacing the main PWB and the like.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Change the setting value using the numeric keys.</li> <li>3. Press the OK key. The setting is set.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>						

Item No.	Description												
U271	<p><b>Setting the page count</b></p> <p><b>Description</b> Banner counting</p> <p><b>Purpose</b> To change when modifying counting Banner</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> <li>3. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 633 1401 880"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Banner A</td> <td>Counting for Banner A (470.1mm to 915mm/18.51" to 36")</td> <td>2 to 30</td> <td>2</td> </tr> <tr> <td>Banner B</td> <td>Counting for Banner B (915.1mm to 1,220mm/36.01" to 48")</td> <td>2 to 30</td> <td>3</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>4. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Banner A	Counting for Banner A (470.1mm to 915mm/18.51" to 36")	2 to 30	2	Banner B	Counting for Banner B (915.1mm to 1,220mm/36.01" to 48")	2 to 30	3
Display	Description	Setting range	Initial setting										
Banner A	Counting for Banner A (470.1mm to 915mm/18.51" to 36")	2 to 30	2										
Banner B	Counting for Banner B (915.1mm to 1,220mm/36.01" to 48")	2 to 30	3										
U278	<p><b>Setting the delivery date</b></p> <p><b>Description</b> Enter delivery date in month, day, and year.</p> <p><b>Purpose</b> To operate when installing the machine. Perform this to confirm the delivery date.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Today].</li> <li>3. Press the OK key. The delivery date is set.</li> </ol> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Year], [Month] or [Day].</li> <li>3. Change the setting using the numeric keys.</li> <li>4. Press the OK key. The setting is set.</li> </ol> <p><b>Clearing</b></p> <ol style="list-style-type: none"> <li>1. Select [Clear].</li> <li>2. Press the OK key. The delivery date is cleared.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>												

Item No.	Description						
<b>U285</b>	<p><b>Setting service status page</b></p> <p><b>Description</b> Determines displaying the print coverage report on reporting.</p> <p><b>Purpose</b> According to user request, changes the setting.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select On or Off.</li> </ol> <table border="1" data-bbox="336 595 1401 741"> <thead> <tr> <th data-bbox="336 595 641 645">Display</th> <th data-bbox="641 595 1401 645">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 645 641 689">On</td> <td data-bbox="641 645 1401 689">Displays the print coverage</td> </tr> <tr> <td data-bbox="336 689 641 741">Off</td> <td data-bbox="641 689 1401 741">Not to display the print coverage</td> </tr> </tbody> </table> <p>Initial setting: On</p> <ol style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol> <p><b>Completion</b> Press the Back 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						
<b>U323</b>	<p><b>Setting abnormal temperature and humidity warning</b></p> <p><b>Description</b> Specify whether or not a notice is displayed on the operation panel when abnormal temperature and humidity is detected.</p> <p><b>Purpose</b> According to user request, changes the setting.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select On or Off.</li> </ol> <table border="1" data-bbox="336 1328 1401 1473"> <thead> <tr> <th data-bbox="336 1328 641 1377">Display</th> <th data-bbox="641 1328 1401 1377">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1377 641 1422">On</td> <td data-bbox="641 1377 1401 1422">Displays the abnormal temperature and humidity warning</td> </tr> <tr> <td data-bbox="336 1422 641 1473">Off</td> <td data-bbox="641 1422 1401 1473">Not to display the abnormal temperature and humidity warning</td> </tr> </tbody> </table> <p>Initial setting: On</p> <ol style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	On	Displays the abnormal temperature and humidity warning	Off	Not to display the abnormal temperature and humidity warning
Display	Description						
On	Displays the abnormal temperature and humidity warning						
Off	Not to display the abnormal temperature and humidity warning						

Item No.	Description																				
U325	<p data-bbox="288 241 612 271"><b>Setting the paper interval</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1428 409">Determines the interval between pages and the toner replenishment amount when printing pages with high print coverage.</p> <p data-bbox="288 414 400 443"><b>Purpose</b></p> <p data-bbox="288 448 1428 512">Modify the settings only if a spotted background or uneven density appears when printing pages with high print coverage.</p> <p data-bbox="288 553 387 582"><b>Method</b></p> <ol data-bbox="304 586 595 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> </ol> <table border="1" data-bbox="336 665 1399 808"> <thead> <tr> <th data-bbox="336 665 639 710">Display</th> <th data-bbox="639 665 1399 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 710 639 754">Interval</td> <td data-bbox="639 710 1399 754">Paper interval control ON/OFF setting</td> </tr> <tr> <td data-bbox="336 754 639 808">Mode</td> <td data-bbox="639 754 1399 808">Setting mode of the paper interval control</td> </tr> </tbody> </table> <p data-bbox="288 853 512 882"><b>Setting: [Interval]</b></p> <ol data-bbox="304 887 536 916" style="list-style-type: none"> <li>1. Select On or Off.</li> </ol> <table border="1" data-bbox="336 929 1399 1075"> <thead> <tr> <th data-bbox="336 929 639 974">Display</th> <th data-bbox="639 929 1399 974">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 974 639 1019">On</td> <td data-bbox="639 974 1399 1019">Paper interval control is performed</td> </tr> <tr> <td data-bbox="336 1019 639 1075">Off</td> <td data-bbox="639 1019 1399 1075">Paper interval control is not performed</td> </tr> </tbody> </table> <p data-bbox="336 1086 539 1115">Initial setting: Off</p> <ol data-bbox="304 1120 767 1149" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol> <p data-bbox="288 1189 488 1218"><b>Setting: [Mode]</b></p> <ol data-bbox="304 1223 922 1252" style="list-style-type: none"> <li>1. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1265 1399 1400"> <thead> <tr> <th data-bbox="336 1265 528 1350">Display</th> <th data-bbox="528 1265 1094 1350">Description</th> <th data-bbox="1094 1265 1249 1350">Setting range</th> <th data-bbox="1249 1265 1399 1350">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1350 528 1400">Mode</td> <td data-bbox="528 1350 1094 1400">Paper interval control mode</td> <td data-bbox="1094 1350 1249 1400">1 to 10</td> <td data-bbox="1249 1350 1399 1400">1</td> </tr> </tbody> </table> <p data-bbox="288 1514 440 1543"><b>Completion</b></p> <p data-bbox="288 1547 1262 1576">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Interval	Paper interval control ON/OFF setting	Mode	Setting mode of the paper interval control	Display	Description	On	Paper interval control is performed	Off	Paper interval control is not performed	Display	Description	Setting range	Initial setting	Mode	Paper interval control mode	1 to 10	1
Display	Description																				
Interval	Paper interval control ON/OFF setting																				
Mode	Setting mode of the paper interval control																				
Display	Description																				
On	Paper interval control is performed																				
Off	Paper interval control is not performed																				
Display	Description	Setting range	Initial setting																		
Mode	Paper interval control mode	1 to 10	1																		

Item No.	Description								
U327	<p data-bbox="288 241 730 271"><b>Setting the cassette heater control</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 675 374">Sets the cassette heater control.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1147 443">To change the setting according to the machine installation environment.</p> <p data-bbox="288 483 384 512"><b>Setting</b></p> <ol data-bbox="304 517 550 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select On or Off.</li> </ol> <table border="1" data-bbox="336 595 1401 788"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 685">Mode1</td> <td data-bbox="639 640 1401 685">Set to On at 65% RH (during sleep mode or in ready state)</td> </tr> <tr> <td data-bbox="336 685 639 730">Mode2</td> <td data-bbox="639 685 1401 730">Always on (during sleep mode or in ready state)</td> </tr> <tr> <td data-bbox="336 730 639 788">Off</td> <td data-bbox="639 730 1401 788">Cassette heater OFF</td> </tr> </tbody> </table> <p data-bbox="336 808 539 837">Initial setting: Off</p> <ol data-bbox="304 842 767 871" style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol> <p data-bbox="336 911 1390 976">* : To finalize the setting values, exit the maintenance mode, perform shut-down from the normal display, and turn the main power switch off and on again.</p> <p data-bbox="288 1016 440 1046"><b>Completion</b></p> <p data-bbox="288 1050 1262 1079">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Mode1	Set to On at 65% RH (during sleep mode or in ready state)	Mode2	Always on (during sleep mode or in ready state)	Off	Cassette heater OFF
Display	Description								
Mode1	Set to On at 65% RH (during sleep mode or in ready state)								
Mode2	Always on (during sleep mode or in ready state)								
Off	Cassette heater OFF								



Item No.	Description																																				
U332	<p><b>Setting the size conversion factor</b></p> <p><b>Description</b>  <b>Rate:</b> 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 print the service status page.  <b>Mode:</b> Make settings on the color print coverage counter displays, as well as the coverage threshold.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> </ol> <table border="1" data-bbox="336 631 1401 871"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Rate</td> <td>Size coefficient</td> </tr> <tr> <td>Mode</td> <td>Toggling full-color count and color coverage count display</td> </tr> <tr> <td>Level 1</td> <td>Low coverage threshold value</td> </tr> <tr> <td>Level 2</td> <td>Middle coverage threshold value</td> </tr> </tbody> </table> <p><b>Setting: [Rate]</b>  <b>Purpose:</b> To set the coefficient for converting the black ratio for nonstandard sizes in relation to the A4/Letter size.</p> <ol style="list-style-type: none"> <li>1. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1025 1401 1122"> <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 coefficient</td> <td>0.1 to 3.0</td> <td>1.0</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p><b>Setting: [Mode]</b>  <b>Purpose:</b> Make settings on the color print color/coverage counter displays.</p> <ol style="list-style-type: none"> <li>1. Select the mode.</li> </ol> <table border="1" data-bbox="336 1312 1401 1458"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Full-color count display</td> </tr> <tr> <td>1</td> <td>Color coverage count display</td> </tr> </tbody> </table> <p>Initial setting: 0  * : If '0' has been changed to '1', revert the U260 feed/eject counter switch to its initial state (Eject).</p> <ol style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol> <p><b>Setting: [Level 1/2]</b>  <b>Purpose:</b> Make settings on the color print coverage threshold.</p> <ol style="list-style-type: none"> <li>1. Select the item.</li> <li>2. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1787 1401 1928"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Level 1</td> <td>Low coverage threshold value</td> <td>0.1 to 99.8</td> <td>1.0</td> </tr> <tr> <td>Level 2</td> <td>Middle coverage threshold value</td> <td>0.1 to 99.9</td> <td>2.5</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b>  Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Rate	Size coefficient	Mode	Toggling full-color count and color coverage count display	Level 1	Low coverage threshold value	Level 2	Middle coverage threshold value	Display	Description	Setting range	Initial setting	Rate	Size coefficient	0.1 to 3.0	1.0	Display	Description	0	Full-color count display	1	Color coverage count display	Display	Description	Setting range	Initial setting	Level 1	Low coverage threshold value	0.1 to 99.8	1.0	Level 2	Middle coverage threshold value	0.1 to 99.9	2.5
Display	Description																																				
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Level 1	Low coverage threshold value	0.1 to 99.8	1.0																																		
Level 2	Middle coverage threshold value	0.1 to 99.9	2.5																																		

Item No.	Description																
U340	<p data-bbox="288 244 611 275"><b>Setting the applied mode</b></p> <p data-bbox="288 311 440 342"><b>Description</b></p> <p data-bbox="288 344 1406 412">Allocates memory to ensure that there is sufficient memory available for the printer to use as a working area.</p> <p data-bbox="288 414 400 445"><b>Purpose</b></p> <p data-bbox="288 448 1430 515">Modify the memory allocation if insufficient memory for transparency support or XPS direct printing occurs.</p> <p data-bbox="288 551 387 582"><b>Method</b></p> <ol data-bbox="304 584 595 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> </ol> <table border="1" data-bbox="336 663 1401 763"> <thead> <tr> <th data-bbox="336 663 639 707">Display</th> <th data-bbox="639 663 1401 707">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 707 639 763">Adj Memory</td> <td data-bbox="639 707 1401 763">Setting the memory allocation</td> </tr> </tbody> </table> <p data-bbox="288 822 571 853"><b>Setting: [Adj Memory]</b></p> <ol data-bbox="304 855 850 887" style="list-style-type: none"> <li>1. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 898 1401 1151"> <thead> <tr> <th data-bbox="336 898 564 983">Display</th> <th data-bbox="564 898 1066 983">Description</th> <th data-bbox="1066 898 1248 983">Setting range</th> <th data-bbox="1248 898 1401 983">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 983 564 1068">Image</td> <td data-bbox="564 983 1066 1068">Area temporarily used to create output image.</td> <td data-bbox="1066 983 1248 1068">0 to 400 (MB)</td> <td data-bbox="1248 983 1401 1068">190</td> </tr> <tr> <td data-bbox="336 1068 564 1151">Image(Detail)</td> <td data-bbox="564 1068 1066 1151">Area temporarily used to hold down-loaded font and other data.</td> <td data-bbox="1066 1068 1248 1151">0 to 400 (MB)</td> <td data-bbox="1248 1068 1401 1151">1</td> </tr> </tbody> </table> <p data-bbox="336 1162 1225 1229">Set the values below in case print failure occurs with the memory shortage. (recommended value)</p> <p data-bbox="336 1232 496 1263">Image : +190</p> <p data-bbox="336 1265 564 1296">Image(Detail) : +1</p> <ol data-bbox="304 1299 1426 1402" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> <li>3. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol> <p data-bbox="288 1471 440 1503"><b>Completion</b></p> <p data-bbox="288 1505 1262 1536">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Adj Memory	Setting the memory allocation	Display	Description	Setting range	Initial setting	Image	Area temporarily used to create output image.	0 to 400 (MB)	190	Image(Detail)	Area temporarily used to hold down-loaded font and other data.	0 to 400 (MB)	1
Display	Description																
Adj Memory	Setting the memory allocation																
Display	Description	Setting range	Initial setting														
Image	Area temporarily used to create output image.	0 to 400 (MB)	190														
Image(Detail)	Area temporarily used to hold down-loaded font and other data.	0 to 400 (MB)	1														

Item No.	Description								
U345	<p><b>Setting the value for maintenance due indication</b></p> <p><b>Description</b> Sets when to display a message notifying that the time for maintenance is about to be reached, by setting the number of prints that can be made before the current maintenance cycle ends. When the difference between the number of prints of the maintenance cycle and that of the maintenance count reaches the set value, the message is displayed.</p> <p><b>Purpose</b> To change the time for maintenance due indication.</p> <p><b>Setting</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Change the setting using the numeric keys.</li> </ol> <table border="1" data-bbox="336 674 1401 875"> <thead> <tr> <th data-bbox="336 674 491 757">Display</th> <th data-bbox="491 674 1098 757">Description</th> <th data-bbox="1098 674 1249 757">Setting range</th> <th data-bbox="1249 674 1401 757">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 757 491 875">Cnt</td> <td data-bbox="491 757 1098 875">Time for maintenance due indication (Remaining number of prints that can be made before the current maintenance cycle ends)</td> <td data-bbox="1098 757 1249 875">0 to 9999</td> <td data-bbox="1249 757 1401 875">0</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Cnt	Time for maintenance due indication (Remaining number of prints that can be made before the current maintenance cycle ends)	0 to 9999	0
Display	Description	Setting range	Initial setting						
Cnt	Time for maintenance due indication (Remaining number of prints that can be made before the current maintenance cycle ends)	0 to 9999	0						
U410	<p><b>Setting a Gamma table</b></p> <p><b>Description</b> Setting a Gamma table.</p> <p><b>Purpose</b> Setting a Gamma table.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to set.</li> </ol> <table border="1" data-bbox="336 1391 1401 1581"> <thead> <tr> <th data-bbox="336 1391 641 1435">Display</th> <th data-bbox="641 1391 1401 1435">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1435 641 1480">Table1</td> <td data-bbox="641 1435 1401 1480">Gamma table1</td> </tr> <tr> <td data-bbox="336 1480 641 1525">Table2</td> <td data-bbox="641 1480 1401 1525">Gamma table2</td> </tr> <tr> <td data-bbox="336 1525 641 1581">Table3</td> <td data-bbox="641 1525 1401 1581">Gamma table3</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Table1	Gamma table1	Table2	Gamma table2	Table3	Gamma table3
Display	Description								
Table1	Gamma table1								
Table2	Gamma table2								
Table3	Gamma table3								

Item No.	Description																																		
U460	<p data-bbox="288 241 699 275"><b>Adjusting the conveying sensor</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1174 374">Compensates the threshold value of the side multi tray's multi feed sensor.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 1374 443">If more than one sheet is fed at a time, modify the threshold depending on the environment.</p> <p data-bbox="288 486 387 515"><b>Method</b></p> <p data-bbox="308 519 552 584">1. Press the OK key. 2. Select [SMT].</p> <table border="1" data-bbox="336 595 1401 692"> <thead> <tr> <th data-bbox="336 595 639 640">Display</th> <th data-bbox="639 595 1401 640">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 640 639 692">SMT</td> <td data-bbox="639 640 1401 692">Settings of multiple feed sensor on the side multi tray</td> </tr> </tbody> </table> <p data-bbox="288 734 387 763"><b>Method</b></p> <p data-bbox="308 768 521 797">1. Select the item.</p> <table border="1" data-bbox="336 808 1401 958"> <thead> <tr> <th data-bbox="336 808 639 853">Display</th> <th data-bbox="639 808 1401 853">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 853 639 898">Conveying Sensor</td> <td data-bbox="639 853 1401 898">Multi feed sensor settings/Calibration</td> </tr> <tr> <td data-bbox="336 898 639 958">On/Off Config</td> <td data-bbox="639 898 1401 958">Multi feed sensor On/Off settings</td> </tr> </tbody> </table> <p data-bbox="288 1001 652 1030"><b>Setting: [Conveying Sensor]</b></p> <p data-bbox="308 1034 521 1064">1. Select the item.</p> <table border="1" data-bbox="336 1075 1401 1368"> <thead> <tr> <th data-bbox="336 1075 639 1120">Display</th> <th data-bbox="639 1075 1401 1120">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1120 639 1164">Threshold(S)</td> <td data-bbox="639 1120 1401 1164">Paper feeding threshold settings</td> </tr> <tr> <td data-bbox="336 1164 639 1209">Threshold(M)</td> <td data-bbox="639 1164 1401 1209">Multi feed threshold settings</td> </tr> <tr> <td data-bbox="336 1209 639 1254">Sensor(Non-P)</td> <td data-bbox="639 1209 1401 1254">Empty paper sensor display</td> </tr> <tr> <td data-bbox="336 1254 639 1299">Sensor</td> <td data-bbox="639 1254 1401 1299">Displaying sensor value when paper is present</td> </tr> <tr> <td data-bbox="336 1299 639 1368">Execute</td> <td data-bbox="639 1299 1401 1368">Executing the calibration</td> </tr> </tbody> </table> <p data-bbox="288 1420 630 1449"><b>Setting: [Threshold(S)/(M)]</b></p> <p data-bbox="308 1453 922 1518">1. Select the item. 2. Change the setting value using the numeric keys.</p> <table border="1" data-bbox="336 1529 1401 1711"> <thead> <tr> <th data-bbox="336 1529 603 1615">Display</th> <th data-bbox="603 1529 1066 1615">Description</th> <th data-bbox="1066 1529 1233 1615">Setting range</th> <th data-bbox="1233 1529 1401 1615">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1615 603 1659">Threshold(S)</td> <td data-bbox="603 1615 1066 1659">Paper feeding threshold settings</td> <td data-bbox="1066 1615 1233 1659">0 to 254</td> <td data-bbox="1233 1615 1401 1659">0</td> </tr> <tr> <td data-bbox="336 1659 603 1711">Threshold(M)</td> <td data-bbox="603 1659 1066 1711">Multi feed threshold settings</td> <td data-bbox="1066 1659 1233 1711">0 to 254</td> <td data-bbox="1233 1659 1401 1711">0</td> </tr> </tbody> </table> <p data-bbox="308 1722 754 1751">3. Press the OK key. The value is set.</p> <p data-bbox="288 1794 523 1823"><b>Method: [Execute]</b></p> <p data-bbox="308 1827 836 1892">1. Select [Execute]. 2. Press the OK key. Calibration is executed.</p>	Display	Description	SMT	Settings of multiple feed sensor on the side multi tray	Display	Description	Conveying Sensor	Multi feed sensor settings/Calibration	On/Off Config	Multi feed sensor On/Off settings	Display	Description	Threshold(S)	Paper feeding threshold settings	Threshold(M)	Multi feed threshold settings	Sensor(Non-P)	Empty paper sensor display	Sensor	Displaying sensor value when paper is present	Execute	Executing the calibration	Display	Description	Setting range	Initial setting	Threshold(S)	Paper feeding threshold settings	0 to 254	0	Threshold(M)	Multi feed threshold settings	0 to 254	0
Display	Description																																		
SMT	Settings of multiple feed sensor on the side multi tray																																		
Display	Description																																		
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Display	Description	Setting range	Initial setting																																
Threshold(S)	Paper feeding threshold settings	0 to 254	0																																
Threshold(M)	Multi feed threshold settings	0 to 254	0																																

Item No.	Description						
U460	<p data-bbox="287 241 593 275"><b>Setting: [On/Off Config]</b></p> <p data-bbox="287 275 539 309">1. Select On or Off.</p> <table border="1" data-bbox="336 320 1401 465"><thead><tr><th data-bbox="336 320 639 365">Display</th><th data-bbox="639 320 1401 365">Description</th></tr></thead><tbody><tr><td data-bbox="336 365 639 409">On</td><td data-bbox="639 365 1401 409">Multi feed sensor is enabled</td></tr><tr><td data-bbox="336 409 639 465">Off</td><td data-bbox="639 409 1401 465">Multi feed sensor is disabled</td></tr></tbody></table> <p data-bbox="287 472 539 506">Initial setting: Off</p> <p data-bbox="287 506 767 539">2. Press the OK key. The setting is set.</p> <p data-bbox="287 573 440 607"><b>Completion</b></p> <p data-bbox="287 607 1265 640">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	On	Multi feed sensor is enabled	Off	Multi feed sensor is disabled
Display	Description						
On	Multi feed sensor is enabled						
Off	Multi feed sensor is disabled						

Item No.	Description																																
U464	<p data-bbox="287 241 734 275"><b>Setting the ID correction operation</b></p> <p data-bbox="287 309 438 342"><b>Description</b></p> <p data-bbox="287 344 1433 409">Turns ID correction (calibration) on or off. Also, this allows individual settings for calibration operation.</p> <p data-bbox="287 412 399 445"><b>Purpose</b></p> <p data-bbox="287 448 1433 515">Implements various settings of calibration when poor image quality is caused or to allow various settings of calibration depending on the user preference.</p> <p data-bbox="287 517 1029 551">To perform the calibration when replacing the maintenance kit.</p> <p data-bbox="287 553 391 586"><b>Method</b></p> <ol data-bbox="303 589 630 689" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>1. Select the item to be set.</li> <li>2. Press the OK key.</li> </ol> <table border="1" data-bbox="335 696 1401 1697"> <thead> <tr> <th data-bbox="343 707 639 741">Display</th> <th data-bbox="639 707 1393 741">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 752 639 786">Permission</td> <td data-bbox="639 752 1393 786">Setting to turn calibration on/off</td> </tr> <tr> <td data-bbox="343 797 639 831">Time Interval</td> <td data-bbox="639 797 1393 831">Setting the interval time of calibration after printing</td> </tr> <tr> <td data-bbox="343 842 639 875">Mode</td> <td data-bbox="639 842 1393 875">Setting the color print execution mode</td> </tr> <tr> <td data-bbox="343 887 639 965">On/Sleep Out*</td> <td data-bbox="639 887 1393 965">Setting execution parameters for calibration when powered up or reverted from auto-sleep</td> </tr> <tr> <td data-bbox="343 976 639 1055">AP/NE*</td> <td data-bbox="639 976 1393 1055">Paper interval calibration ON/OFF setting at the time of calibration/near end after toner feed</td> </tr> <tr> <td data-bbox="343 1066 639 1167">Leaving Time*</td> <td data-bbox="639 1066 1393 1167">Setting the standard time for judging whether or not to carry out calibration based on the sleep time when the machine recovers from the sleep mode</td> </tr> <tr> <td data-bbox="343 1178 639 1279">Driving Time*</td> <td data-bbox="639 1178 1393 1279">Setting the standard time for judging whether or not to carry out paper interval calibration based on the driving time during printing</td> </tr> <tr> <td data-bbox="343 1290 639 1391">Timing*</td> <td data-bbox="639 1290 1393 1391">Setting the standard time for judging whether or not to carry out calibration based on the continuous print driving time during printing</td> </tr> <tr> <td data-bbox="343 1402 639 1480">Target Value</td> <td data-bbox="639 1402 1393 1480">Setting the sensor target values for toner thick layer calibration and light amount calibration</td> </tr> <tr> <td data-bbox="343 1491 639 1570">Print Rate(B/W)*</td> <td data-bbox="639 1491 1393 1570">Setting the proportion of black/white printing at which black/white calibration is executed during color printing.</td> </tr> <tr> <td data-bbox="343 1581 639 1615">Calib</td> <td data-bbox="639 1581 1393 1615">Executing the calibration</td> </tr> <tr> <td data-bbox="343 1626 639 1693">Edge Reduction</td> <td data-bbox="639 1626 1393 1693">Smoothing edge settings (automatic calibration is implemented after settings are completed)</td> </tr> </tbody> </table> <p data-bbox="335 1709 821 1742">*: Enabled when Mode is set to Custom.</p> <p data-bbox="287 1744 566 1778"><b>Setting: [Permission]</b></p> <ol data-bbox="303 1780 534 1814" style="list-style-type: none"> <li>1. Select On or Off.</li> </ol> <table border="1" data-bbox="335 1821 1401 1966"> <thead> <tr> <th data-bbox="343 1832 639 1865">Display</th> <th data-bbox="639 1832 1393 1865">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="343 1877 639 1910">On</td> <td data-bbox="639 1877 1393 1910">Turns calibration ON</td> </tr> <tr> <td data-bbox="343 1921 639 1955">Off</td> <td data-bbox="639 1921 1393 1955">Turns calibration OFF</td> </tr> </tbody> </table> <p data-bbox="335 1973 534 2007">Initial setting: On</p> <ol data-bbox="303 2009 766 2042" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol>	Display	Description	Permission	Setting to turn calibration on/off	Time Interval	Setting the interval time of calibration after printing	Mode	Setting the color print execution mode	On/Sleep Out*	Setting execution parameters for calibration when powered up or reverted from auto-sleep	AP/NE*	Paper interval calibration ON/OFF setting at the time of calibration/near end after toner feed	Leaving Time*	Setting the standard time for judging whether or not to carry out calibration based on the sleep time when the machine recovers from the sleep mode	Driving Time*	Setting the standard time for judging whether or not to carry out paper interval calibration based on the driving time during printing	Timing*	Setting the standard time for judging whether or not to carry out calibration based on the continuous print driving time during printing	Target Value	Setting the sensor target values for toner thick layer calibration and light amount calibration	Print Rate(B/W)*	Setting the proportion of black/white printing at which black/white calibration is executed during color printing.	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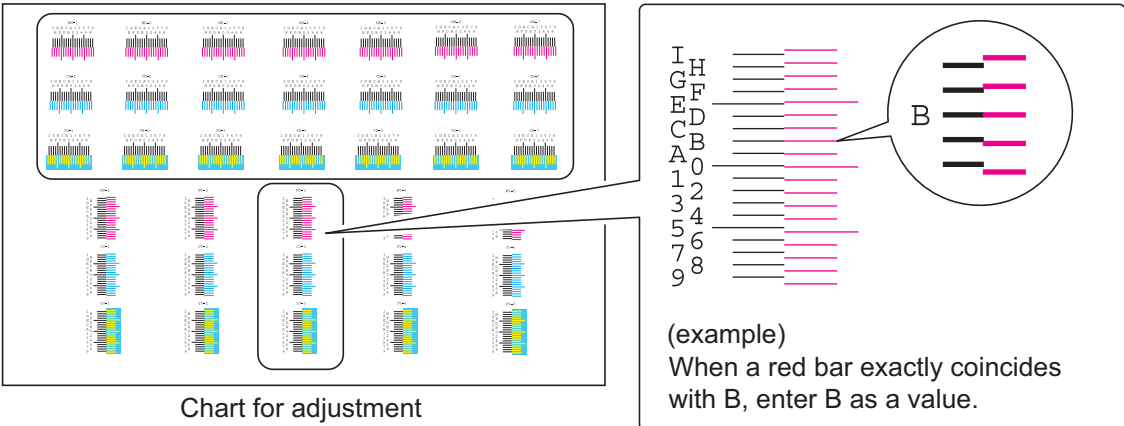
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<b>U464</b>	<p><b>Setting: [Print Rate(B/W)]</b></p> <p>1. Change the setting value using the numeric keys.</p> <table border="1" data-bbox="336 320 1401 450"> <thead> <tr> <th data-bbox="336 320 564 398">Display</th> <th data-bbox="564 320 1067 398">Description</th> <th data-bbox="1067 320 1249 398">Setting range</th> <th data-bbox="1249 320 1401 398">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 398 564 450">Threshold</td> <td data-bbox="564 398 1067 450">Proportion of black/white printing</td> <td data-bbox="1067 398 1249 450">0 to 100 (%)</td> <td data-bbox="1249 398 1401 450">50</td> </tr> </tbody> </table> <p>2. Press the OK key. The value is set.</p> <p><b>Method: [Calib]</b></p> <p>1. Select [Execute].</p> <p>2. Press the OK key. Calibration is executed.</p> <p>* : Duplicates selecting [System Menu] - [Adjustment/Maintenance] - [Calibration]. The same operation as System menu.</p> <p><b>Setting: [Edge Reduction]</b></p> <p>1. Select On or Off.</p> <table border="1" data-bbox="336 813 1401 956"> <thead> <tr> <th data-bbox="336 813 641 860">Display</th> <th data-bbox="641 813 1401 860">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 860 641 907">On</td> <td data-bbox="641 860 1401 907">Enable smoothing edges</td> </tr> <tr> <td data-bbox="336 907 641 956">Off</td> <td data-bbox="641 907 1401 956">Disable smoothing edges</td> </tr> </tbody> </table> <p>Initial setting: On</p> <p>Press the OK key. The setting is set.</p> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Setting range	Initial setting	Threshold	Proportion of black/white printing	0 to 100 (%)	50	Display	Description	On	Enable smoothing edges	Off	Disable smoothing edges
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<b>U465</b>	<p><b>Data reference for ID correction</b></p> <p><b>Description</b></p> <p>References the data related to ID correction.</p> <p><b>Purpose</b></p> <p>To check the corresponding data.</p> <p><b>Method</b></p> <p>1. Press the OK key.</p> <p>2. Select the item to be reference.</p> <p>3. Press the OK key</p> <table border="1" data-bbox="336 1554 1401 1841"> <thead> <tr> <th data-bbox="336 1554 603 1601">Display</th> <th data-bbox="603 1554 1401 1601">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1601 603 1648">TCONT</td> <td data-bbox="603 1601 1401 1648">Developer bias control value after ID correction</td> </tr> <tr> <td data-bbox="336 1648 603 1695">Laser Power</td> <td data-bbox="603 1648 1401 1695">Scaling factor to the value determined in light amount calibration</td> </tr> <tr> <td data-bbox="336 1695 603 1742">Bias Calib</td> <td data-bbox="603 1695 1401 1742">Sensor value for toner thick layer calibration</td> </tr> <tr> <td data-bbox="336 1742 603 1789">T7 CTD</td> <td data-bbox="603 1742 1401 1789">T7 control value</td> </tr> <tr> <td data-bbox="336 1789 603 1841">Stress</td> <td data-bbox="603 1789 1401 1841">Durability</td> </tr> </tbody> </table>	Display	Description	TCONT	Developer bias control value after ID correction	Laser Power	Scaling factor to the value determined in light amount calibration	Bias Calib	Sensor value for toner thick layer calibration	T7 CTD	T7 control value	Stress	Durability		
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U465	<p data-bbox="288 241 574 275"><b>Displaying: [TCOUNT]</b></p> <p data-bbox="288 275 877 309">Select [TCOUNT]. The current value is displayed.</p> <table border="1" data-bbox="336 353 1401 786"> <thead> <tr> <th data-bbox="336 353 603 398">Display</th> <th data-bbox="603 353 1401 398">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 398 603 443">Before(C)</td> <td data-bbox="603 398 1401 443">Developer bias control value for cyan before ID correction</td> </tr> <tr> <td data-bbox="336 443 603 488">Before(M)</td> <td data-bbox="603 443 1401 488">Developer bias control value for magenta before ID correction</td> </tr> <tr> <td data-bbox="336 488 603 533">Before(Y)</td> <td data-bbox="603 488 1401 533">Developer bias control value for yellow before ID correction</td> </tr> <tr> <td data-bbox="336 533 603 577">Before(K)</td> <td data-bbox="603 533 1401 577">Developer bias control value for black before ID correction</td> </tr> <tr> <td data-bbox="336 577 603 622">After(C)</td> <td data-bbox="603 577 1401 622">Developer bias control value for cyan after ID correction</td> </tr> <tr> <td data-bbox="336 622 603 667">After(M)</td> <td data-bbox="603 622 1401 667">Developer bias control value for magenta after ID correction</td> </tr> <tr> <td data-bbox="336 667 603 712">After(Y)</td> <td data-bbox="603 667 1401 712">Developer bias control value for yellow after ID correction</td> </tr> <tr> <td data-bbox="336 712 603 757">After(K)</td> <td data-bbox="603 712 1401 757">Developer bias control value for black after ID correction</td> </tr> </tbody> </table> <p data-bbox="288 831 622 864"><b>Displaying: [Laser Power]</b></p> <p data-bbox="304 864 962 898">1. Select [Laser Power]. The current value is displayed.</p> <table border="1" data-bbox="336 909 1401 1149"> <thead> <tr> <th data-bbox="336 909 491 954">Display</th> <th data-bbox="491 909 1401 954">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 954 491 999">C</td> <td data-bbox="491 954 1401 999">Scaling factor to the value determined in light amount calibration (cyan)</td> </tr> <tr> <td data-bbox="336 999 491 1043">M</td> <td data-bbox="491 999 1401 1043">Scaling factor to the value determined in light amount calibration (magenta)</td> </tr> <tr> <td data-bbox="336 1043 491 1088">Y</td> <td data-bbox="491 1043 1401 1088">Scaling factor to the value determined in light amount calibration (yellow)</td> </tr> <tr> <td data-bbox="336 1088 491 1133">K</td> <td data-bbox="491 1088 1401 1133">Scaling factor to the value determined in light amount calibration (black)</td> </tr> </tbody> </table> <p data-bbox="288 1196 592 1229"><b>Displaying: [Bias Calib]</b></p> <p data-bbox="304 1229 932 1263">1. Select [Bias Calib]. The current value is displayed.</p> <table border="1" data-bbox="336 1274 1401 1514"> <thead> <tr> <th data-bbox="336 1274 564 1319">Display</th> <th data-bbox="564 1274 1401 1319">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1319 564 1364">C</td> <td data-bbox="564 1319 1401 1364">Sensor value for toner thick layer calibration (cyan)</td> </tr> <tr> <td data-bbox="336 1364 564 1408">M</td> <td data-bbox="564 1364 1401 1408">Sensor value for toner thick layer calibration (magenta)</td> </tr> <tr> <td data-bbox="336 1408 564 1453">Y</td> <td data-bbox="564 1408 1401 1453">Sensor value for toner thick layer calibration (yellow)</td> </tr> <tr> <td data-bbox="336 1453 564 1498">K</td> <td data-bbox="564 1453 1401 1498">Sensor value for toner thick layer calibration (black)</td> </tr> </tbody> </table> <p data-bbox="288 1559 555 1592"><b>Displaying: [T7 CTD]</b></p> <p data-bbox="304 1592 904 1626">1. Select [T7 CTD]. The current value is displayed.</p> <table border="1" data-bbox="336 1637 1401 1877"> <thead> <tr> <th data-bbox="336 1637 564 1682">Display</th> <th data-bbox="564 1637 1401 1682">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1682 564 1727">C</td> <td data-bbox="564 1682 1401 1727">T7 control value (cyan)</td> </tr> <tr> <td data-bbox="336 1727 564 1771">M</td> <td data-bbox="564 1727 1401 1771">T7 control value (magenta)</td> </tr> <tr> <td data-bbox="336 1771 564 1816">Y</td> <td data-bbox="564 1771 1401 1816">T7 control value (yellow)</td> </tr> <tr> <td data-bbox="336 1816 564 1861">K</td> <td data-bbox="564 1816 1401 1861">T7 control value (black)</td> </tr> </tbody> </table>	Display	Description	Before(C)	Developer bias control value for cyan before ID correction	Before(M)	Developer bias control value for magenta before ID correction	Before(Y)	Developer bias control value for yellow before ID correction	Before(K)	Developer bias control value for black before ID correction	After(C)	Developer bias control value for cyan after ID correction	After(M)	Developer bias control value for magenta after ID correction	After(Y)	Developer bias control value for yellow after ID correction	After(K)	Developer bias control value for black after ID correction	Display	Description	C	Scaling factor to the value determined in light amount calibration (cyan)	M	Scaling factor to the value determined in light amount calibration (magenta)	Y	Scaling factor to the value determined in light amount calibration (yellow)	K	Scaling factor to the value determined in light amount calibration (black)	Display	Description	C	Sensor value for toner thick layer calibration (cyan)	M	Sensor value for toner thick layer calibration (magenta)	Y	Sensor value for toner thick layer calibration (yellow)	K	Sensor value for toner thick layer calibration (black)	Display	Description	C	T7 control value (cyan)	M	T7 control value (magenta)	Y	T7 control value (yellow)	K	T7 control value (black)
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U465	<p data-bbox="287 241 542 275"><b>Displaying: [Stress]</b></p> <p data-bbox="287 275 885 309">1. Select [Stress]. The current value is displayed.</p> <table border="1" data-bbox="336 320 1401 465"><thead><tr><th data-bbox="336 320 564 365">Display</th><th data-bbox="564 320 1401 365">Description</th></tr></thead><tbody><tr><td data-bbox="336 365 564 409">Front</td><td data-bbox="564 365 1401 409">Durability of the belt (front)</td></tr><tr><td data-bbox="336 409 564 465">Rear</td><td data-bbox="564 409 1401 465">Durability of the belt (rear)</td></tr></tbody></table> <p data-bbox="287 521 438 555"><b>Completion</b></p> <p data-bbox="287 555 1268 589">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Front	Durability of the belt (front)	Rear	Durability of the belt (rear)
Display	Description						
Front	Durability of the belt (front)						
Rear	Durability of the belt (rear)						

Item No.	Description																				
U467	<p data-bbox="288 241 810 275"><b>Setting the color registration adjustment</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1431 409">Sets the color registration adjustment and transfer belt speed correction. Also, determines the conditions by which color registration correction is executed depending on the LSU temperature.</p> <p data-bbox="288 414 400 443"><b>Purpose</b></p> <p data-bbox="288 448 1431 512">If color variance is uneven due to a sensor failure, etc., turn this off and temporarily make a manual adjustment.</p> <p data-bbox="288 553 387 582"><b>Method</b></p> <ol data-bbox="304 586 632 651" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be set.</li> </ol> <table border="1" data-bbox="336 665 1399 880"> <thead> <tr> <th data-bbox="336 665 639 710">Display</th> <th data-bbox="639 665 1399 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 710 639 763">Color Regist</td> <td data-bbox="639 710 1399 763">Setting the color registration correction operation</td> </tr> <tr> <td data-bbox="336 763 639 880">Timing</td> <td data-bbox="639 763 1399 880">After the previous correction is executed, color registration is compensated as the LSU temperature varies by the value determined.</td> </tr> </tbody> </table> <p data-bbox="288 922 576 954"><b>Setting: [Color Regist]</b></p> <ol data-bbox="304 958 536 987" style="list-style-type: none"> <li>1. Select On or Off.</li> </ol> <table border="1" data-bbox="336 1001 1399 1146"> <thead> <tr> <th data-bbox="336 1001 639 1046">Display</th> <th data-bbox="639 1001 1399 1046">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1046 639 1099">On</td> <td data-bbox="639 1046 1399 1099">Enables the color registration correction operation.</td> </tr> <tr> <td data-bbox="336 1099 639 1146">Off</td> <td data-bbox="639 1099 1399 1146">Disables the color registration correction operation.</td> </tr> </tbody> </table> <p data-bbox="336 1160 536 1189">Initial setting: On</p> <ol data-bbox="304 1193 767 1223" style="list-style-type: none"> <li>2. Press the OK key. The setting is set.</li> </ol> <p data-bbox="288 1263 504 1294"><b>Setting: [Timing]</b></p> <ol data-bbox="304 1299 919 1328" style="list-style-type: none"> <li>1. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 1341 1399 1503"> <thead> <tr> <th data-bbox="336 1341 564 1420">Display</th> <th data-bbox="564 1341 1066 1420">Description</th> <th data-bbox="1066 1341 1233 1420">Setting range</th> <th data-bbox="1233 1341 1399 1420">Initial setting</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1420 564 1503">LSU Temp</td> <td data-bbox="564 1420 1066 1503">Conditions for execution depending on the LSU temperature variation</td> <td data-bbox="1066 1420 1233 1503">2 to 10</td> <td data-bbox="1233 1420 1399 1503">10</td> </tr> </tbody> </table> <ol data-bbox="304 1516 751 1545" style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p data-bbox="288 1585 440 1617"><b>Completion</b></p> <p data-bbox="288 1621 1262 1650">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Color Regist	Setting the color registration correction operation	Timing	After the previous correction is executed, color registration is compensated as the LSU temperature varies by the value determined.	Display	Description	On	Enables the color registration correction operation.	Off	Disables the color registration correction operation.	Display	Description	Setting range	Initial setting	LSU Temp	Conditions for execution depending on the LSU temperature variation	2 to 10	10
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U468	<p data-bbox="288 241 751 271"><b>Checking the color registration data</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1299 374">Displays the color registration correction data and transfer belt speed correction data.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 686 443">To check the corresponding data.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 708 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item to be reference.</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="336 629 1399 1014"> <thead> <tr> <th data-bbox="336 629 564 674">Display</th> <th data-bbox="564 629 1399 674">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 674 564 719">V Correction</td> <td data-bbox="564 674 1399 719">Display the transfer speed adjustment value</td> </tr> <tr> <td data-bbox="336 719 564 763">Auto(C)</td> <td data-bbox="564 719 1399 763">Display the auto color registration adjustment value for cyan</td> </tr> <tr> <td data-bbox="336 763 564 808">Auto(M)</td> <td data-bbox="564 763 1399 808">Display the auto color registration adjustment value for magenta</td> </tr> <tr> <td data-bbox="336 808 564 853">Auto(Y)</td> <td data-bbox="564 808 1399 853">Display the auto color registration adjustment value for yellow</td> </tr> <tr> <td data-bbox="336 853 564 898">Manual(C)</td> <td data-bbox="564 853 1399 898">Display the manual color registration adjustment value for cyan</td> </tr> <tr> <td data-bbox="336 898 564 943">Manual(M)</td> <td data-bbox="564 898 1399 943">Display the manual color registration adjustment value for magenta</td> </tr> <tr> <td data-bbox="336 943 564 987">Manual(Y)</td> <td data-bbox="564 943 1399 987">Display the manual color registration adjustment value for yellow</td> </tr> </tbody> </table> <p data-bbox="288 1055 624 1084"><b>Displaying: [V Correction]</b></p> <ol data-bbox="304 1088 959 1120" style="list-style-type: none"> <li>1. Select [V Correction]. The current value is displayed.</li> </ol> <table border="1" data-bbox="336 1133 1399 1229"> <thead> <tr> <th data-bbox="336 1133 639 1178">Display</th> <th data-bbox="639 1133 1399 1178">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1178 639 1229">Status</td> <td data-bbox="639 1178 1399 1229">transfer speed adjustment value</td> </tr> </tbody> </table> <p data-bbox="288 1274 738 1303">Displaying: [Auto(C)/Auto(M)/Auto(Y)]</p> <ol data-bbox="304 1308 1171 1339" style="list-style-type: none"> <li>1. Select [Auto(C)], [Auto(M)] or [Auto(Y)]. The current value is displayed.</li> </ol> <table border="1" data-bbox="336 1352 1399 1615"> <thead> <tr> <th data-bbox="336 1352 639 1397">Display</th> <th data-bbox="639 1352 1399 1397">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1397 639 1480">Main Scan</td> <td data-bbox="639 1397 1399 1480">Auto color registration adjustment value of the main scanning direction</td> </tr> <tr> <td data-bbox="336 1480 639 1563">Sub Scan</td> <td data-bbox="639 1480 1399 1563">Auto color registration adjustment value of the auxiliary scanning direction</td> </tr> <tr> <td data-bbox="336 1563 639 1615">Mag</td> <td data-bbox="639 1563 1399 1615">Auto color registration adjustment value of the magnification</td> </tr> </tbody> </table> <p data-bbox="288 1659 866 1688"><b>Displaying: [Manual(C)/Manual(M)/Manual(Y)]</b></p> <ol data-bbox="304 1693 1289 1724" style="list-style-type: none"> <li>1. Select [Manual(C)], [Manual(M)] or [Manual(Y)]. The current value is displayed.</li> </ol> <table border="1" data-bbox="336 1738 1399 2033"> <thead> <tr> <th data-bbox="336 1738 639 1783">Display</th> <th data-bbox="639 1738 1399 1783">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1783 639 1865">Main Scan</td> <td data-bbox="639 1783 1399 1865">Manual color registration adjustment value of the main scanning direction</td> </tr> <tr> <td data-bbox="336 1865 639 1948">Sub Scan</td> <td data-bbox="639 1865 1399 1948">Manual color registration adjustment value of the auxiliary scanning direction</td> </tr> <tr> <td data-bbox="336 1948 639 2033">Mag1-6</td> <td data-bbox="639 1948 1399 2033">Manual color registration adjustment value of the magnification1-6</td> </tr> </tbody> </table>	Display	Description	V Correction	Display the transfer speed adjustment value	Auto(C)	Display the auto color registration adjustment value for cyan	Auto(M)	Display the auto color registration adjustment value for magenta	Auto(Y)	Display the auto color registration adjustment value for yellow	Manual(C)	Display the manual color registration adjustment value for cyan	Manual(M)	Display the manual color registration adjustment value for magenta	Manual(Y)	Display the manual color registration adjustment value for yellow	Display	Description	Status	transfer speed adjustment value	Display	Description	Main Scan	Auto color registration adjustment value of the main scanning direction	Sub Scan	Auto color registration adjustment value of the auxiliary scanning direction	Mag	Auto color registration adjustment value of the magnification	Display	Description	Main Scan	Manual color registration adjustment value of the main scanning direction	Sub Scan	Manual color registration adjustment value of the auxiliary scanning direction	Mag1-6	Manual color registration adjustment value of the magnification1-6
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U468	<p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>								
U469	<p><b>Adjusting the color registration</b></p> <p><b>Description</b> Performs the color registration correction and transfer belt speed correction.</p> <p><b>Purpose</b> To perform when replacing the transfer belt unit or laser scanner unit.</p> <p><b>Method</b> * : Before excuting this mode, the U464 Calib mode must be executed.</p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> <li>3. Press the OK key.</li> </ol> <table border="1" data-bbox="336 786 1401 976"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Manual</td> <td>Executing the manual color registration correction</td> </tr> <tr> <td>Belt Initialize</td> <td>Executing the transfer belt speed correction</td> </tr> <tr> <td>Belt Check</td> <td>Confirmation of transfer belt position</td> </tr> </tbody> </table> <p><b>Method: [Manual]</b></p> <ol style="list-style-type: none"> <li>1. Select [Print].</li> <li>2. Press the OK key. A chart for adjustment is outputted.</li> </ol> <div data-bbox="295 1234 1422 1659" style="border: 1px solid black; padding: 10px;">  <p style="text-align: center;">Chart for adjustment</p> </div> <p><b>Figure 1-3-14</b></p> <ol style="list-style-type: none"> <li>3. Select [Regist].</li> <li>4. Read figures at MH-1 to 7/CH-1 to 7/YH-1 to 7 and MV-3/CV-3/YV-3 of the reference chart and enter the figure marked at the scale which the BK fine line is in line with the M/C/Y fine lines, using the cursor and 10 keys.</li> </ol>	Display	Description	Manual	Executing the manual color registration correction	Belt Initialize	Executing the transfer belt speed correction	Belt Check	Confirmation of transfer belt position
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Manual	Executing the manual color registration correction								
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<b>U469</b>	<table border="1" style="width: 100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th style="width: 25%;">Codes</th> <th style="width: 25%;">Description</th> <th style="width: 25%;">Codes</th> <th style="width: 25%;">Description</th> </tr> </thead> <tbody> <tr><td>CH-1</td><td>0</td><td>MH-5</td><td>0</td></tr> <tr><td>CH-2</td><td>0</td><td>MH-6</td><td>0</td></tr> <tr><td>CH-3</td><td>0</td><td>MH-7</td><td>0</td></tr> <tr><td>CH-4</td><td>0</td><td>MV-3</td><td>0</td></tr> <tr><td>CH-5</td><td>0</td><td>YH-1</td><td>0</td></tr> <tr><td>CH-6</td><td>0</td><td>YH-2</td><td>0</td></tr> <tr><td>CH-7</td><td>0</td><td>YH-3</td><td>0</td></tr> <tr><td>CV-3</td><td>0</td><td>YH-4</td><td>0</td></tr> <tr><td>MH-1</td><td>0</td><td>YH-5</td><td>0</td></tr> <tr><td>MH-2</td><td>0</td><td>YH-6</td><td>0</td></tr> <tr><td>MH-3</td><td>0</td><td>YH-7</td><td>0</td></tr> <tr><td>MH-4</td><td>0</td><td>YV-3</td><td>0</td></tr> </tbody> </table>				Codes	Description	Codes	Description	CH-1	0	MH-5	0	CH-2	0	MH-6	0	CH-3	0	MH-7	0	CH-4	0	MV-3	0	CH-5	0	YH-1	0	CH-6	0	YH-2	0	CH-7	0	YH-3	0	CV-3	0	YH-4	0	MH-1	0	YH-5	0	MH-2	0	YH-6	0	MH-3	0	YH-7	0	MH-4	0	YV-3	0
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CH-7	0	YH-3	0																																																					
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MH-3	0	YH-7	0																																																					
MH-4	0	YV-3	0																																																					
	<p>5. Press the OK key to finalize the value.</p> <p>6. Press the OK key after all values have been entered. Color registration correction starts.</p> <p>7. Print a chart for adjustment.</p> <p>8. Verify that each scale is within the range of 1 to A.</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>The scale must be corresponding within the range of "A" from "1".</p> <p style="text-align: center;"><b>Figure 1-3-15</b></p>																																																							

Item No.	Description														
<b>U469</b>	<p><b>Method: [Belt Initialize]</b></p> <ol style="list-style-type: none"> <li>1. Select [Execute].</li> <li>2. Press the OK key. Transfer belt speed correction starts.</li> </ol> <p><b>Method:[Belt Check]</b></p> <ol style="list-style-type: none"> <li>1. Select [Mode].</li> <li>2. Change the setting value using the numeric keys.</li> </ol> <table border="1" data-bbox="336 495 1401 734"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Angle</td> <td>Display of cam position</td> </tr> <tr> <td>Belt Position</td> <td>Display of belt position</td> </tr> <tr> <td>Mode</td> <td>Operational mode</td> </tr> <tr> <td>Excute</td> <td>Execution of belt position confirmation</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>3. Select [Execute].</li> <li>4. Press the OK key. Transfer belt position confirmation starts, and the value is displayed.</li> </ol> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Angle	Display of cam position	Belt Position	Display of belt position	Mode	Operational mode	Excute	Execution of belt position confirmation				
Display	Description														
Angle	Display of cam position														
Belt Position	Display of belt position														
Mode	Operational mode														
Excute	Execution of belt position confirmation														
<b>U474</b>	<p><b>Checking LSU cleaning operation</b></p> <p><b>Description</b></p> <p>Provides cleaning LSU by means of the LSU cleaning motor. Also, the cleaning cycle can be adjusted.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 1288 1401 1435"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Excute</td> <td>Executing the cleaning operation</td> </tr> <tr> <td>Cycle</td> <td>Setting the cleaning cycle</td> </tr> </tbody> </table> <p><b>Method: [Execute]</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key. Cleaning the LSU slit glass.</li> </ol> <p><b>Setting: [Cycle]</b></p> <ol style="list-style-type: none"> <li>1. Change the setting value using numeric keys.</li> </ol> <table border="1" data-bbox="336 1659 1401 1792"> <thead> <tr> <th>Display</th> <th>Description</th> <th>Setting range</th> <th>Initial setting</th> </tr> </thead> <tbody> <tr> <td>Cnt</td> <td>Cleaning cycle</td> <td>0 to 5000</td> <td>1000</td> </tr> </tbody> </table> <p>The setting can be changed by 1000 per step.</p> <ol style="list-style-type: none"> <li>2. Press the OK key. The value is set.</li> </ol> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Excute	Executing the cleaning operation	Cycle	Setting the cleaning cycle	Display	Description	Setting range	Initial setting	Cnt	Cleaning cycle	0 to 5000	1000
Display	Description														
Excute	Executing the cleaning operation														
Cycle	Setting the cleaning cycle														
Display	Description	Setting range	Initial setting												
Cnt	Cleaning cycle	0 to 5000	1000												



Item No.	Description										
<b>U485</b>	<p data-bbox="288 241 574 275"><b>Setting the color table</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 681 374">Modify and install the color table.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 858 443">Perform the procedure to modify the color table.</p> <p data-bbox="288 483 395 512"><b>Method.</b></p> <ol data-bbox="304 517 550 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <p data-bbox="288 586 505 616">Press the OK key.</p> <table border="1" data-bbox="336 665 1399 904"> <thead> <tr> <th data-bbox="336 665 639 710">Display</th> <th data-bbox="639 665 1399 710">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 710 639 754">Color Table 1(Prn)</td> <td data-bbox="639 710 1399 754">Setting the printer color table (Default)</td> </tr> <tr> <td data-bbox="336 754 639 799">Color Table 2(Prn)</td> <td data-bbox="639 754 1399 799">Setting the printer color table (Custom)</td> </tr> <tr> <td data-bbox="336 799 639 844">Install</td> <td data-bbox="639 799 1399 844">Install the printer color table</td> </tr> <tr> <td data-bbox="336 844 639 889">Uninstall</td> <td data-bbox="639 844 1399 889">Uninstall the printer color table</td> </tr> </tbody> </table> <p data-bbox="288 952 903 981"><b>Setting: [Color Table 1(Prn)],[Color Table 2(Prn)]</b></p> <ol data-bbox="304 985 887 1086" style="list-style-type: none"> <li>1. Default/Custom printer color tables are shown.</li> <li>2. Select the target color tables for switching</li> <li>3. Press the OK key.</li> </ol> <p data-bbox="288 1126 494 1155"><b>Setting: [Install]</b></p> <p data-bbox="336 1160 1425 1225">* : Before proceeding, make sure that the USB flash device that contains the color table files is inserted.</p> <p data-bbox="368 1229 1214 1258">The color table files must be placed in the root of the USB flash device.</p> <ol data-bbox="304 1263 909 1364" style="list-style-type: none"> <li>1. Press the Excute button.</li> <li>2. Press the OK key.</li> <li>3. Installation is completed when [OK] is displayed.</li> </ol> <p data-bbox="288 1404 529 1433"><b>Setting: [Uninstall]</b></p> <ol data-bbox="304 1438 1120 1503" style="list-style-type: none"> <li>1. The color table currently being installed is displayed.</li> <li>2. Select the color table you want to uninstall, then press the OK key.</li> </ol> <p data-bbox="288 1610 440 1639"><b>Completion</b></p> <p data-bbox="288 1644 1262 1673">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Color Table 1(Prn)	Setting the printer color table (Default)	Color Table 2(Prn)	Setting the printer color table (Custom)	Install	Install the printer color table	Uninstall	Uninstall the printer color table
Display	Description										
Color Table 1(Prn)	Setting the printer color table (Default)										
Color Table 2(Prn)	Setting the printer color table (Custom)										
Install	Install the printer color table										
Uninstall	Uninstall the printer color table										

Item No.	Description																
U486	<p data-bbox="288 241 871 271"><b>Setting color/black and white operation mode</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1358 409">When color and B/W documents are mixed, sets operation mode after a color document is detected.</p> <p data-bbox="288 414 400 443"><b>Purpose</b></p> <p data-bbox="288 448 1417 546"><b>Mode:</b>To ensure productivity when printing color and B/W documents in ACS mode, select Mode3. However, selecting Mode3 will increase the maintenance count for cyan, magenta, and yellow color developer units even when there is a B/W printing after a color printing.</p> <p data-bbox="288 551 1358 616"><b>Permission:</b> During monochrome half-speed printing, which is color printing mode at half speed, the color background problem may occur when printing on envelopes.</p> <p data-bbox="288 656 387 685"><b>Method</b></p> <ol data-bbox="308 689 552 754" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 768 1401 913"> <thead> <tr> <th data-bbox="336 768 639 813">Display</th> <th data-bbox="639 768 1401 813">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 813 639 857">Mode</td> <td data-bbox="639 813 1401 857">Setting color/black and white operation</td> </tr> <tr> <td data-bbox="336 857 639 913">Permission</td> <td data-bbox="639 857 1401 913">Allowing black and white half speed mode</td> </tr> </tbody> </table> <p data-bbox="288 958 488 987"><b>Setting: [Mode]</b></p> <ol data-bbox="308 992 552 1057" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the mode.</li> </ol> <table border="1" data-bbox="336 1070 1401 1906"> <thead> <tr> <th data-bbox="336 1070 475 1115">Display</th> <th data-bbox="475 1070 1401 1115">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1115 475 1323">Mode1</td> <td data-bbox="475 1115 1401 1323">A mode suited for the user with high black-and-white usage in which the occurrence of color printing during continuous printing is minimum.  Once diverted to color printing mode, the subsequent black and white printing is executed in the same linear velocity as in color printing with other processings switched on the fly.</td> </tr> <tr> <td data-bbox="336 1323 475 1554">Mode2</td> <td data-bbox="475 1323 1401 1554">A mode suited for the user with high black-and-white usage in which the occurrence of color printing during continuous printing is maximum.  Printing in color mode resumes up to 9 pages in a row even an interrupt is made to switch to black and white mode, until printing is diverted to black and white mode from color mode at the 10th page (color processing is terminated).</td> </tr> <tr> <td data-bbox="336 1554 475 1753">Mode3</td> <td data-bbox="475 1554 1401 1753">A mode suited for the user with high black-and-white usage in which the occurrence of color printing during continuous printing is maximum.  Mode suited for high color printing volume Once diverted to color mode, the black and white printings are executed in color processing mode (including the linear velocity).</td> </tr> <tr> <td data-bbox="336 1753 475 1906">Auto</td> <td data-bbox="475 1753 1401 1906">Mode that allows to select from modes 1 through 3 depending on the usage. Mode is selected from three modes depending on the percentage of color and black and white printings in the total number of print pages during a pre-determined period.</td> </tr> </tbody> </table> <p data-bbox="336 1928 584 1957">Initial setting: Mode2</p> <ol data-bbox="308 1962 767 1991" style="list-style-type: none"> <li>3. Press the OK key. The setting is set.</li> </ol>	Display	Description	Mode	Setting color/black and white operation	Permission	Allowing black and white half speed mode	Display	Description	Mode1	A mode suited for the user with high black-and-white usage in which the occurrence of color printing during continuous printing is minimum.  Once diverted to color printing mode, the subsequent black and white printing is executed in the same linear velocity as in color printing with other processings switched on the fly.	Mode2	A mode suited for the user with high black-and-white usage in which the occurrence of color printing during continuous printing is maximum.  Printing in color mode resumes up to 9 pages in a row even an interrupt is made to switch to black and white mode, until printing is diverted to black and white mode from color mode at the 10th page (color processing is terminated).	Mode3	A mode suited for the user with high black-and-white usage in which the occurrence of color printing during continuous printing is maximum.  Mode suited for high color printing volume Once diverted to color mode, the black and white printings are executed in color processing mode (including the linear velocity).	Auto	Mode that allows to select from modes 1 through 3 depending on the usage. Mode is selected from three modes depending on the percentage of color and black and white printings in the total number of print pages during a pre-determined period.
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Item No.	Description						
<p><b>U486</b></p>	<p><b>Setting: [Permission]</b>                      1. Select On or Off.</p> <table border="1" data-bbox="336 320 1401 465"> <thead> <tr> <th>Display</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>On</td> <td>Black and white printing (3 colors are released)*</td> </tr> <tr> <td>Off</td> <td>Color printing (4 colors are latched in)</td> </tr> </tbody> </table> <p>Initial setting: Off                      * : Enable this setting if color background printing has occurred when printing on envelopes. Note jitter could result.</p> <p>2. Press the OK key. The setting is set.</p> <p><b>Completion</b>                      Press the Back key. The screen for selecting a maintenance item No. is displayed.</p> <p><b>Details on the modes</b></p> <div data-bbox="288 797 1434 1140"> <p><b>Mode 1</b></p> </div> <div data-bbox="288 1189 1434 1547"> <p><b>Mode 2</b></p> </div> <div data-bbox="288 1597 1434 1968"> <p><b>Mode 3</b></p> </div> <p style="text-align: center;"><b>Figure 1-3-16</b></p>	Display	Description	On	Black and white printing (3 colors are released)*	Off	Color printing (4 colors are latched in)
Display	Description						
On	Black and white printing (3 colors are released)*						
Off	Color printing (4 colors are latched in)						

Item No.	Description																																		
<b>U901</b>	<p data-bbox="288 241 879 275"><b>Checking print counts by paper feed locations</b></p> <p data-bbox="288 309 440 342"><b>Description</b></p> <p data-bbox="288 344 1015 378">Displays or clears paper feed counts by paper feed locations.</p> <p data-bbox="288 380 1356 414">Performs backup when the counters on the engine PWB and PF main PWB do not match.</p> <p data-bbox="288 416 400 450"><b>Purpose</b></p> <p data-bbox="288 452 1418 517">To check the time to replace consumable parts. Also to clear the counts after replacing the consumable parts.</p> <p data-bbox="288 519 1433 553">Backup the counter values after completing changing the PF main PWB and the paper feed unit.</p> <p data-bbox="288 586 387 620"><b>Method</b></p> <p data-bbox="304 622 1149 656">1. Press the OK key. The counts by paper feed locations are displayed.</p> <table border="1" data-bbox="336 667 1399 1144"> <thead> <tr> <th data-bbox="336 667 639 712">Display</th> <th data-bbox="639 667 1399 712">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 639 757">MPT</td> <td data-bbox="639 712 1399 757">MP tray</td> </tr> <tr> <td data-bbox="336 757 639 801">Cassette1</td> <td data-bbox="639 757 1399 801">Cassette 1</td> </tr> <tr> <td data-bbox="336 801 639 846">Cassette2</td> <td data-bbox="639 801 1399 846">Cassette 2</td> </tr> <tr> <td data-bbox="336 846 639 891">Cassette3</td> <td data-bbox="639 846 1399 891">Cassette 3 (paper feeder/large capacity feeder)</td> </tr> <tr> <td data-bbox="336 891 639 936">Cassette4</td> <td data-bbox="639 891 1399 936">Cassette 4 (paper feeder/large capacity feeder)</td> </tr> <tr> <td data-bbox="336 936 639 981">Cassette5</td> <td data-bbox="639 936 1399 981">Cassette 5 (side multi tray/side deck)</td> </tr> <tr> <td data-bbox="336 981 639 1025">Cassette6</td> <td data-bbox="639 981 1399 1025">Cassette 6 (side paper feeder/side large capacity feeder)</td> </tr> <tr> <td data-bbox="336 1025 639 1070">Cassette7</td> <td data-bbox="639 1025 1399 1070">Cassette 7 (side paper feeder/side large capacity feeder)</td> </tr> <tr> <td data-bbox="336 1070 639 1115">Duplex</td> <td data-bbox="639 1070 1399 1115">Duplex unit</td> </tr> </tbody> </table> <p data-bbox="336 1155 1370 1220">* : When an optional paper feed unit is not installed, the corresponding count is not displayed.</p> <p data-bbox="288 1254 400 1288"><b>Clearing</b></p> <p data-bbox="304 1290 1347 1429">1. Select the counts to be cleared. [Cassette3], [Cassette4], [Cassette5], [Cassette6] and [Cassette7] cannot be cleared. 2. Select the counts for all and press [Clear]. 3. Press the OK key. The counts is cleared.</p> <p data-bbox="288 1462 397 1496"><b>Back up</b></p> <p data-bbox="288 1498 1433 1563">If the paper feeding counters of the engine and the paper feeder do not match, the following message will be displayed.</p> <p data-bbox="288 1568 1406 1632">The back up destination will be shown on the list items and 'engine (fixed value)' &lt;-&gt; None &lt;-&gt; 'PF (fixed PF value) are displayed.</p> <p data-bbox="304 1637 1149 1671">1. Press the OK key. The counts by paper feed locations are displayed.</p> <table border="1" data-bbox="336 1682 1399 2020"> <thead> <tr> <th data-bbox="336 1682 639 1727">Display</th> <th data-bbox="639 1682 1399 1727">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1727 639 1771">Cassette3</td> <td data-bbox="639 1727 1399 1771">Cassette 3 (paper feeder/large capacity feeder)</td> </tr> <tr> <td data-bbox="336 1771 639 1816">Cassette4</td> <td data-bbox="639 1771 1399 1816">Cassette 4 (paper feeder/large capacity feeder)</td> </tr> <tr> <td data-bbox="336 1816 639 1861">Cassette5</td> <td data-bbox="639 1816 1399 1861">Cassette 5 (side multi tray/side deck)</td> </tr> <tr> <td data-bbox="336 1861 639 1906">Cassette6</td> <td data-bbox="639 1861 1399 1906">Cassette 6 (side paper feeder/side large capacity feeder)</td> </tr> <tr> <td data-bbox="336 1906 639 1951">Cassette7</td> <td data-bbox="639 1906 1399 1951">Cassette 7 (side paper feeder/side large capacity feeder)</td> </tr> <tr> <td data-bbox="336 1951 639 1995">Duplex</td> <td data-bbox="639 1951 1399 1995">Duplex unit</td> </tr> </tbody> </table>	Display	Description	MPT	MP tray	Cassette1	Cassette 1	Cassette2	Cassette 2	Cassette3	Cassette 3 (paper feeder/large capacity feeder)	Cassette4	Cassette 4 (paper feeder/large capacity feeder)	Cassette5	Cassette 5 (side multi tray/side deck)	Cassette6	Cassette 6 (side paper feeder/side large capacity feeder)	Cassette7	Cassette 7 (side paper feeder/side large capacity feeder)	Duplex	Duplex unit	Display	Description	Cassette3	Cassette 3 (paper feeder/large capacity feeder)	Cassette4	Cassette 4 (paper feeder/large capacity feeder)	Cassette5	Cassette 5 (side multi tray/side deck)	Cassette6	Cassette 6 (side paper feeder/side large capacity feeder)	Cassette7	Cassette 7 (side paper feeder/side large capacity feeder)	Duplex	Duplex unit
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Item No.	Description
U901	<ol style="list-style-type: none"><li>1. Select the paper feed location.</li><li>2. Select engine counter values when changing the PF main PWB. Backup the engine counter values to PF. Select PF counter values when changing the paper feed unit. Backup the PF counter values to engine.</li><li>3. Select [Execute].</li><li>4. Press the start key. Back up the counter values.</li><li>5. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li></ol> <p>* : The values of cassette 4 counter vary in accordance with the cassette 3 counter. The values of cassette 7 counter vary in accordance with the cassette 6 counter. Select [None] if the counter values are not backed up.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>

Item No.	Description						
U903	<p data-bbox="290 241 798 275"><b>Checking/clearing the paper jam counts</b></p> <p data-bbox="290 311 440 340"><b>Description</b></p> <p data-bbox="290 344 890 376">Displays or clears the jam counts by jam locations.</p> <p data-bbox="290 380 400 409"><b>Purpose</b></p> <p data-bbox="290 414 1390 445">To check the paper jam status. Also to clear the jam counts after replacing consumable parts.</p> <p data-bbox="290 483 387 512"><b>Method</b></p> <ol data-bbox="304 517 550 582" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 595 1401 741"> <thead> <tr> <th data-bbox="336 595 641 645">Display</th> <th data-bbox="641 595 1401 645">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 645 641 694">Cnt</td> <td data-bbox="641 645 1401 694">Displays/clears the jam counts</td> </tr> <tr> <td data-bbox="336 694 641 741">Total Cnt</td> <td data-bbox="641 694 1401 741">Displays the total jam counts</td> </tr> </tbody> </table> <p data-bbox="290 786 466 815"><b>Method: [Cnt]</b></p> <ol data-bbox="304 819 1002 1025" style="list-style-type: none"> <li>1. Select [Cnt]. The count of jam code by type is displayed. Codes for which the count value is 0 are not displayed.</li> <li>2. Change the screen using the cursor up/down keys.</li> <li>3. Select the count value for jam code and press [Clear]. The individual counter cannot be cleared.</li> <li>4. Press the OK key. The counter value is cleared.</li> </ol> <p data-bbox="290 1064 534 1093"><b>Method: [Total Cnt]</b></p> <ol data-bbox="304 1097 1149 1198" style="list-style-type: none"> <li>1. Select [Total Cnt]. The total number of jam code by type is displayed.</li> <li>2. Change the screen using the cursor up/down keys. The total number of jam count cannot be cleared.</li> </ol> <p data-bbox="290 1272 805 1301"><b>How to display the history of paper jams</b></p> <p data-bbox="290 1305 432 1335"><b>[Function]</b></p> <p data-bbox="290 1339 1422 1370">To check the variation in the occurrences of paper jams as a consequence of firmware upgrade.</p> <p data-bbox="290 1408 448 1438"><b>[Procedure]</b></p> <ol data-bbox="304 1442 1412 1545" style="list-style-type: none"> <li>1. Retrieves versions of system and engine software at the timing of clearing.</li> <li>2. Displays comparison of the occurrences of paper jams before and after firmware upgrades.</li> <li>3. Displays the date of clearing.</li> </ol> <p data-bbox="290 1583 405 1612"><b>[Method]</b></p> <p data-bbox="290 1617 552 1646"><b>At firmware upgrade</b></p> <ol data-bbox="304 1650 1404 1753" style="list-style-type: none"> <li>1. Perform clearance of the counter following the above before performing firmware upgrade.</li> <li>2. Clearing the counter records the date of clearing.</li> <li>3. Perform firmware upgrade.</li> </ol> <p data-bbox="290 1792 568 1821"><b>At performing service</b></p> <ol data-bbox="304 1825 1426 1890" style="list-style-type: none"> <li>1. Print a maintenance report using mode U000 and check the variance of occurrence of paper jams after firmware upgrade was done.</li> </ol>	Display	Description	Cnt	Displays/clears the jam counts	Total Cnt	Displays the total jam counts
Display	Description						
Cnt	Displays/clears the jam counts						
Total Cnt	Displays the total jam counts						

Item No.	Description																																					
U903	<p data-bbox="288 241 675 275"><b>Detail of history of paper jams</b></p> <div data-bbox="316 304 1398 996" style="border: 1px solid black; padding: 10px;"> <p data-bbox="355 331 794 376"><b>Maintenance Report</b></p> <p data-bbox="355 383 437 409">Printer</p> <p data-bbox="1193 383 1361 409" style="text-align: right;">17/Apr/2011 08:40</p> <p data-bbox="384 441 829 465">Firmware version 2MN_2000.000.000 2011.04.17</p> <p data-bbox="995 441 1361 465" style="text-align: right;">[XXXXXXXX] [XXXXXXXX] [XXXXXXXX]</p> <hr/> <p data-bbox="360 508 647 533"><b>Machine No.: SPXXX00001</b></p> <p data-bbox="900 508 1110 533" style="text-align: right;"><b>Life Count : 001234</b></p> <hr/> <table data-bbox="411 577 999 795"> <tr> <td data-bbox="411 577 606 604"><b>(a)</b> Paper Jam Log</td> <td data-bbox="778 577 917 604"><b>(b)</b> 2011.12.12</td> <td></td> </tr> <tr> <td>JAM0000</td> <td style="text-align: center;">1</td> <td style="text-align: center;">10</td> </tr> <tr> <td>JAM0100</td> <td style="text-align: center;">0</td> <td style="text-align: center;">2</td> </tr> <tr> <td>JAM0101</td> <td style="text-align: center;">0</td> <td style="text-align: center;">2</td> </tr> <tr> <td>JAM0110</td> <td style="text-align: center;">0</td> <td style="text-align: center;">2</td> </tr> <tr> <td>JAM0111</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td>JAM0112</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> </tr> <tr> <td>JAM0131</td> <td style="text-align: center;">5</td> <td style="text-align: center;">89</td> </tr> <tr> <td>JAM0210</td> <td style="text-align: center;">2</td> <td style="text-align: center;">7</td> </tr> </table> </div> <p data-bbox="775 1039 946 1066" style="text-align: center;"><b>Figure 1-3-17</b></p> <table data-bbox="336 1149 1401 1391" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="336 1149 411 1196" style="width: 10%;">No.</th> <th data-bbox="411 1149 1401 1196">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1196 411 1243">a</td> <td data-bbox="411 1196 1401 1243">Paper jam numbers</td> </tr> <tr> <td data-bbox="336 1243 411 1290">b</td> <td data-bbox="411 1243 1401 1290">Date of clearing counter records</td> </tr> <tr> <td data-bbox="336 1290 411 1337">c</td> <td data-bbox="411 1290 1401 1337">Occurrences of paper jams after clearing the paper jam counts</td> </tr> <tr> <td data-bbox="336 1337 411 1391">d</td> <td data-bbox="411 1337 1401 1391">Total number of paper jams</td> </tr> </tbody> </table> <p data-bbox="288 1438 536 1467"><b>Method: [Total Cnt]</b></p> <ol data-bbox="304 1471 1150 1572" style="list-style-type: none"> <li>1. Select [Total Cnt]. The total number of jam code by type is displayed.</li> <li>2. Change the screen using the cursor up/down keys. The total number of jam count cannot be cleared.</li> </ol> <p data-bbox="288 1612 440 1641"><b>Completion</b></p> <p data-bbox="288 1646 1265 1675">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	<b>(a)</b> Paper Jam Log	<b>(b)</b> 2011.12.12		JAM0000	1	10	JAM0100	0	2	JAM0101	0	2	JAM0110	0	2	JAM0111	1	2	JAM0112	0	1	JAM0131	5	89	JAM0210	2	7	No.	Description	a	Paper jam numbers	b	Date of clearing counter records	c	Occurrences of paper jams after clearing the paper jam counts	d	Total number of paper jams
<b>(a)</b> Paper Jam Log	<b>(b)</b> 2011.12.12																																					
JAM0000	1	10																																				
JAM0100	0	2																																				
JAM0101	0	2																																				
JAM0110	0	2																																				
JAM0111	1	2																																				
JAM0112	0	1																																				
JAM0131	5	89																																				
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d	Total number of paper jams																																					

Item No.	Description						
<b>U904</b>	<p data-bbox="288 241 861 275"><b>Checking/clearing the call for service counts</b></p> <p data-bbox="288 309 440 342"><b>Description</b></p> <p data-bbox="288 344 954 378">Displays or clears the service call code counts by types.</p> <p data-bbox="288 380 400 414"><b>Purpose</b></p> <p data-bbox="288 416 839 450">To check the service call code status by types.</p> <p data-bbox="288 452 1177 486">Also to clear the service call code counts after replacing consumable parts.</p> <p data-bbox="288 519 387 553"><b>Method</b></p> <ol data-bbox="304 555 552 622" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 633 1401 779"> <thead> <tr> <th data-bbox="336 633 639 678">Display</th> <th data-bbox="639 633 1401 678">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 678 639 723">Cnt</td> <td data-bbox="639 678 1401 723">Displays/clears the call for service counts</td> </tr> <tr> <td data-bbox="336 723 639 779">Total Cnt</td> <td data-bbox="639 723 1401 779">Displays the total call for service counts</td> </tr> </tbody> </table> <p data-bbox="288 824 467 857"><b>Method: [Cnt]</b></p> <ol data-bbox="304 860 1153 1061" style="list-style-type: none"> <li>1. Select [Cnt]. The count for service call detection by type is displayed. Codes for which the count value is 0 are not displayed.</li> <li>2. Change the screen using the cursor up/down keys.</li> <li>3. Select the count value for service call code and press [Clear]. The individual counter cannot be cleared.</li> <li>4. Press the OK key. The counter value is cleared.</li> </ol> <p data-bbox="288 1099 536 1133"><b>Method: [Total Cnt]</b></p> <ol data-bbox="304 1135 1262 1236" style="list-style-type: none"> <li>1. Select [Total Cnt]. The total number of service call counts by type is displayed.</li> <li>2. Change the screen using the cursor up/down keys. The total number of service call count cannot be cleared.</li> </ol> <p data-bbox="288 1308 852 1341"><b>How to display the history of service counts</b></p> <p data-bbox="288 1344 432 1377"><b>[Function]</b></p> <p data-bbox="288 1379 1433 1413">To check the variation in the occurrences of service calls as a consequence of firmware upgrade.</p> <p data-bbox="288 1447 451 1480"><b>[Procedure]</b></p> <ol data-bbox="304 1482 1428 1583" style="list-style-type: none"> <li>1. Retrieves versions of system and engine software at the timing of clearing.</li> <li>2. Displays comparison of the occurrences of service calls before and after firmware upgrades.</li> <li>3. Displays the date of clearing.</li> </ol> <p data-bbox="288 1619 405 1653"><b>[Method]</b></p> <p data-bbox="288 1655 553 1688"><b>At firmware upgrade</b></p> <ol data-bbox="304 1691 1406 1789" style="list-style-type: none"> <li>1. Perform clearance of the counter following the above before performing firmware upgrade.</li> <li>2. Clearing the counter records the date of clearing.</li> <li>3. Perform firmware upgrade.</li> </ol> <p data-bbox="288 1825 569 1859"><b>At performing service</b></p> <ol data-bbox="304 1861 1406 1928" style="list-style-type: none"> <li>1. Print a maintenance report using mode U000 and check the variance of occurrence of service calls after firmware upgrade was done.</li> </ol>	Display	Description	Cnt	Displays/clears the call for service counts	Total Cnt	Displays the total call for service counts
Display	Description						
Cnt	Displays/clears the call for service counts						
Total Cnt	Displays the total call for service counts						



Item No.	Description																																																						
<p><b>U904</b></p>	<p><b>Detail of history of service counts</b></p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;"><b>Maintenance Report</b></p> <p>Printer <span style="float: right;">17/Apr/2011 08:40</span></p> <p>Firmware version 2MN_2000.000.000 2011.04.17 <span style="float: right;">[XXXXXXXX] [XXXXXXXX] [XXXXXXXX]</span></p> <hr/> <p><b>Machine No.: SPXXX00001</b> <span style="float: right;"><b>Life Count : 001234</b></span></p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Paper Jam Log</td> <td style="width: 20%; text-align: right;">2011.12.12</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td style="padding-left: 20px;">JAM0000</td> <td style="text-align: right;">10</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td><b>(a)</b> Service Call Log</td> <td style="text-align: right;"><b>(b)</b> 2011.12.12</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C0630</td> <td style="text-align: right;">1</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C1000</td> <td style="text-align: right;">0</td> <td style="text-align: right;">50</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C1950</td> <td style="text-align: right;">0</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C2840</td> <td style="text-align: right;">3</td> <td style="text-align: right;">17</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C4300</td> <td style="text-align: right;">1</td> <td style="text-align: right;">2</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C9000</td> <td style="text-align: right;">0</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C9060</td> <td style="text-align: right;">5</td> <td style="text-align: right;">20</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">C9080</td> <td style="text-align: right;">2</td> <td style="text-align: right;">1</td> <td></td> </tr> </table> </div> <p style="text-align: center;"><b>Figure 1-3-18</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 10%;">No</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>a</td> <td>Service call numbers</td> </tr> <tr> <td>b</td> <td>Date of clearing counter records</td> </tr> <tr> <td>c</td> <td>Occurrences of paper jams after clearing the service call counts</td> </tr> <tr> <td>d</td> <td>Total number of service calls</td> </tr> </tbody> </table> <p><b>Method: [Total Cnt]</b></p> <ol style="list-style-type: none"> <li>1. Select [Total Cnt]. The total number of service call counts by type is displayed.</li> <li>2. Change the screen using the cursor up/down keys. The total number of service call count cannot be cleared.</li> </ol> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Paper Jam Log	2011.12.12			JAM0000	10	1		<b>(a)</b> Service Call Log	<b>(b)</b> 2011.12.12			C0630	1	1		C1000	0	50		C1950	0	1		C2840	3	17		C4300	1	2		C9000	0	1		C9060	5	20		C9080	2	1		No	Description	a	Service call numbers	b	Date of clearing counter records	c	Occurrences of paper jams after clearing the service call counts	d	Total number of service calls
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Item No.	Description																				
U905	<p data-bbox="288 241 762 275"><b>Checking counts by optional devices</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 967 374">Displays the counts of 1000-sheet or 4000-sheet finisher.</p> <p data-bbox="288 383 400 412"><b>Purpose</b></p> <p data-bbox="288 416 936 445">To check the use of 1000-sheet or 4000-sheet finisher.</p> <p data-bbox="288 486 387 515"><b>Method</b></p> <ol data-bbox="304 519 979 618" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the device, the count of which is to be checked.</li> <li>3. Press the OK key.</li> </ol> <p data-bbox="336 622 877 651">The count of the selected device is displayed.</p> <table border="1" data-bbox="336 667 1401 763"> <thead> <tr> <th data-bbox="336 667 639 712">Display</th> <th data-bbox="639 667 1401 712">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 712 639 763">DF</td> <td data-bbox="639 712 1401 763">Counts of 1000-sheet or 4000-sheet finisher</td> </tr> </tbody> </table> <p data-bbox="288 822 456 851"><b>Method: [DF]</b></p> <table border="1" data-bbox="336 866 1401 1249"> <thead> <tr> <th data-bbox="336 866 639 911">Display</th> <th data-bbox="639 866 1401 911">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 911 639 956">Sorter</td> <td data-bbox="639 911 1401 956">No. of prints that has passed</td> </tr> <tr> <td data-bbox="336 956 639 1001">Staple</td> <td data-bbox="639 956 1401 1001">Frequency the stapler has been activated</td> </tr> <tr> <td data-bbox="336 1001 639 1046">Punch</td> <td data-bbox="639 1001 1401 1046">Frequency the punch has been activated</td> </tr> <tr> <td data-bbox="336 1046 639 1090">Stack*</td> <td data-bbox="639 1046 1401 1090">Frequency the main tray eject has been activated</td> </tr> <tr> <td data-bbox="336 1090 639 1135">Saddle*</td> <td data-bbox="639 1090 1401 1135">Frequency the saddle eject has been activated</td> </tr> <tr> <td data-bbox="336 1135 639 1180">Fold*</td> <td data-bbox="639 1135 1401 1180">Frequency the center folding has been activated</td> </tr> <tr> <td data-bbox="336 1180 639 1249">Three Fold*</td> <td data-bbox="639 1180 1401 1249">Frequency the tri-folding has been activated</td> </tr> </tbody> </table> <p data-bbox="336 1256 660 1285">* : 4000-sheet finisher only</p> <p data-bbox="288 1326 440 1355"><b>Completion</b></p> <p data-bbox="288 1359 1262 1388">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	DF	Counts of 1000-sheet or 4000-sheet finisher	Display	Description	Sorter	No. of prints that has passed	Staple	Frequency the stapler has been activated	Punch	Frequency the punch has been activated	Stack*	Frequency the main tray eject has been activated	Saddle*	Frequency the saddle eject has been activated	Fold*	Frequency the center folding has been activated	Three Fold*	Frequency the tri-folding has been activated
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Item No.	Description
U906	<p><b>Resetting partial operation control</b></p> <p><b>Description</b> Resets the service call code for partial operation control.</p> <p><b>Purpose</b> To be reset after partial operation is performed due to problems in the cassettes or other sections, and the related parts are serviced.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Press [Execute].</li> <li>3. Press the OK key to reset partial operation control.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>
U908	<p><b>Checking the total counter value</b></p> <p><b>Description</b> Displays the total counter value.</p> <p><b>Purpose</b> To check the total counter value.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key. The total count value is displayed.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>
U910	<p><b>Clearing the print coverage data</b></p> <p><b>Description</b> 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><b>Purpose</b> To clear data as required at times such as during maintenance service.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Execute].</li> <li>3. Press the OK key. The print coverage data is cleared.</li> </ol> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>

Item No.	Description																																
U911	<p data-bbox="288 241 766 275"><b>Checking print counts by paper sizes</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 844 376">Displays the paper feed counts by paper sizes.</p> <p data-bbox="288 380 400 409"><b>Purpose</b></p> <p data-bbox="288 414 930 445">To check the counts after replacing consumable parts.</p> <p data-bbox="288 483 387 512"><b>Method</b></p> <p data-bbox="304 517 1318 548">1. Press the OK key. The screen for the paper feed counts by paper size is displayed.</p> <table border="1" data-bbox="336 562 1401 1016"> <thead> <tr> <th data-bbox="336 562 491 645">Display (metric)</th> <th data-bbox="491 562 868 645">Description</th> <th data-bbox="868 562 1019 645">Display (inch)</th> <th data-bbox="1019 562 1401 645">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 645 491 689">A3</td> <td data-bbox="491 645 868 689">Paper feed counts for A3</td> <td data-bbox="868 645 1019 689">Ledger</td> <td data-bbox="1019 645 1401 689">Paper feed counts for Ledger</td> </tr> <tr> <td data-bbox="336 689 491 734">B4</td> <td data-bbox="491 689 868 734">Paper feed counts for B4</td> <td data-bbox="868 689 1019 734">Legal</td> <td data-bbox="1019 689 1401 734">Paper feed counts for Legal</td> </tr> <tr> <td data-bbox="336 734 491 779">A4</td> <td data-bbox="491 734 868 779">Paper feed counts for A4</td> <td data-bbox="868 734 1019 779">Letter</td> <td data-bbox="1019 734 1401 779">Paper feed counts for Letter</td> </tr> <tr> <td data-bbox="336 779 491 824">B5</td> <td data-bbox="491 779 868 824">Paper feed counts for B5</td> <td data-bbox="868 779 1019 824">Statement</td> <td data-bbox="1019 779 1401 824">Paper feed counts for State-</td> </tr> <tr> <td data-bbox="336 824 491 869">A5</td> <td data-bbox="491 824 868 869">Paper feed counts for A5</td> <td data-bbox="868 824 1019 869"></td> <td data-bbox="1019 824 1401 869">ment</td> </tr> <tr> <td data-bbox="336 869 491 913">Folio</td> <td data-bbox="491 869 868 913">Paper feed counts for Folio</td> <td data-bbox="868 869 1019 913">ETC</td> <td data-bbox="1019 869 1401 913">Paper feed counts for other</td> </tr> <tr> <td data-bbox="336 913 491 1016">ETC</td> <td data-bbox="491 913 868 1016">Paper feed counts for other size</td> <td data-bbox="868 913 1019 1016"></td> <td data-bbox="1019 913 1401 1016">size</td> </tr> </tbody> </table> <p data-bbox="288 1059 400 1088"><b>Clearing</b></p> <p data-bbox="304 1093 873 1124">1. Select the paper size of counts to be cleared.</p> <p data-bbox="304 1128 820 1160">2. Press the OK key. The counts is cleared.</p> <p data-bbox="288 1198 440 1227"><b>Completion</b></p> <p data-bbox="288 1232 1262 1263">Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display (metric)	Description	Display (inch)	Description	A3	Paper feed counts for A3	Ledger	Paper feed counts for Ledger	B4	Paper feed counts for B4	Legal	Paper feed counts for Legal	A4	Paper feed counts for A4	Letter	Paper feed counts for Letter	B5	Paper feed counts for B5	Statement	Paper feed counts for State-	A5	Paper feed counts for A5		ment	Folio	Paper feed counts for Folio	ETC	Paper feed counts for other	ETC	Paper feed counts for other size		size
Display (metric)	Description	Display (inch)	Description																														
A3	Paper feed counts for A3	Ledger	Paper feed counts for Ledger																														
B4	Paper feed counts for B4	Legal	Paper feed counts for Legal																														
A4	Paper feed counts for A4	Letter	Paper feed counts for Letter																														
B5	Paper feed counts for B5	Statement	Paper feed counts for State-																														
A5	Paper feed counts for A5		ment																														
Folio	Paper feed counts for Folio	ETC	Paper feed counts for other																														
ETC	Paper feed counts for other size		size																														

Item No.	Description																		
U917	<p data-bbox="287 241 746 275"><b>Setting backup data reading/writing</b></p> <p data-bbox="287 309 440 342"><b>Description</b></p> <p data-bbox="287 344 1425 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="287 414 400 448"><b>Purpose</b></p> <p data-bbox="287 450 866 483">To store and write data when replacing the HDD.</p> <p data-bbox="287 517 387 551"><b>Method</b></p> <ol data-bbox="304 553 1265 757" style="list-style-type: none"> <li>1. Perform shut-down on the operation panel, turn power off (see page p.1-2-19).</li> <li>2. Insert USB memory in USB memory slot.</li> <li>3. Turn the main power switch on. Wait for 10 seconds to allow the machine to recognize the USB memory.</li> <li>4. Enter maintenance item U917.</li> <li>5. Select [Import] or [Export].</li> </ol> <table border="1" data-bbox="336 768 1401 913"> <thead> <tr> <th data-bbox="336 768 639 813">Display</th> <th data-bbox="639 768 1401 813">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 813 639 857">Import</td> <td data-bbox="639 813 1401 857">Writing data from the USB memory to the machine</td> </tr> <tr> <td data-bbox="336 857 639 913">Export</td> <td data-bbox="639 857 1401 913">Retrieving from the machine to a USB memory</td> </tr> </tbody> </table> <ol data-bbox="304 925 520 958" style="list-style-type: none"> <li>6. Select the item.</li> </ol> <table border="1" data-bbox="336 969 1401 1193"> <thead> <tr> <th data-bbox="336 969 549 1014">Display</th> <th data-bbox="549 969 927 1014">Description</th> <th data-bbox="927 969 1401 1014">Depending data</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1014 549 1059">Job Account</td> <td data-bbox="549 1014 927 1059">Job accounting</td> <td data-bbox="927 1014 1401 1059">-</td> </tr> <tr> <td data-bbox="336 1059 549 1104">User</td> <td data-bbox="549 1059 927 1104">User managements</td> <td data-bbox="927 1059 1401 1104">Job accounting</td> </tr> <tr> <td data-bbox="336 1104 549 1193">Document Box</td> <td data-bbox="549 1104 927 1193">Document box information</td> <td data-bbox="927 1104 1401 1193">Job accountings and user managements</td> </tr> </tbody> </table> <p data-bbox="336 1216 1358 1281">* : Since data are dependent with each other, data other than those assigned are also retrieved or written in.</p> <ol data-bbox="304 1292 1362 1460" style="list-style-type: none"> <li>7. Press the OK 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.</li> <li>8. When normally completed, [Finish] is displayed.</li> <li>9. Turn the main power switch off and on after completing writing when selecting [Import].</li> </ol>	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	Job Account	Job accounting	-	User	User managements	Job accounting	Document Box	Document box information	Job accountings and user managements
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																	
Job Account	Job accounting	-																	
User	User managements	Job accounting																	
Document Box	Document box information	Job accountings and user managements																	

Item No.	Description			
U917	<b>Error Codes</b>			
	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	e321	User managements open error
	e006	Processing error	e322	User managements list error
	e010	Address book clear error (contact)	e324	Shortcut open error
	e011	Address book open error (contact)	e325	Shortcut list error
	e012	Address book list error (contact)	e410	Box file open error
	e013	Address book list error (contact)	e411	Box error in writing
	e014	Address book clear error (group)	e412	Box error in reading
	e015	Address book open error (group)	e413	Box list error
	e016	Address book list error (group)	e414	Box list error
	e017	Address book list error (group)	e415	Box error
	e110	Job accounting clear error	e416	Box error
	e111	Job accounting open error	e417	Box open error
	e112	Job accounting open error	e418	Box close error
	e113	Job accounting error in writing	e419	Box creation error
	e114	Job accounting list error	e41a	Box creation error
	e115	Job accounting list error	e41b	Box deletion error
	e210	One-touch open error	e41c	Box movement error
	e211	One-touch list error	e510	Program error in writing
	e212	One-touch list error	e511	Program error in reading
	e310	User managements backup error	e610	Shortcut error in writing
	e311	User managements clear error	e611	Shortcut error in reading
	e312	User managements open error	e710	Fax memory open error
	e313	User managements open error	e711	Fax memory initialization error
	e314	User managements open error	e712	Fax memory list error
	e315	User managements error in writing	e713	Fax memory error
	e316	User managements list error	e714	Fax memory error
	e317	User managements list error	e715	Fax memory mode error
	e318	User managements list error	e716	Fax memory error
	e319	User managements list error	e717	Fax memory error
	e31a	User managements open error	e718	Fax memory mode error
	e31b	User managements error	e910	File reading error
	e31c	User managements error	e911	File writing error
	e31d	User managements open error	e912	Data mismatch

Item No.	Description			
U917	<b>Error Codes</b>			
	<b>Codes</b>	<b>Description</b>	<b>Codes</b>	<b>Description</b>
	e913	Log file open error	d009	File open error
	e914	Log file error in writing	d00a	File close error
	e915	Directory open error	d00b	File reading error
	e916	Directory error in reading	d00c	File writing error
	e917	Synchronization error	d00d	File copy error
	e918	Synchronization error	d00e	File compressed error
	d000	Unspecified error	d00f	File decompressed error
	d001	HDD unavailable	d010	Directory open error
	d002	USB memory is not inserted	d011	Directory creation error
	d003	File for writing is not found in the USB	d012	File writing error
	d004	File for reading is not found in the HDD	d013	File reading error
	d005	USB error in writing	d014	File deletion error
	d006	USB error in reading	d015	File copy error to the USB
	d007	USB unmount error	d016	File compatibility error
	d008	File rename error		
	<b>Completion</b>			
	Press the Back key. The screen for selecting a maintenance item No. is displayed.			

Item No.	Description										
<b>U920</b>	<p><b>Checking the print counts</b></p> <p><b>Description</b> Checks the print counts.</p> <p><b>Purpose</b> To check the print counts.</p> <p><b>Method</b> 1. Press the OK key. The current counts are displayed.</p> <table border="1" data-bbox="336 562 1401 801"> <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="336 607 639 651">ColorPrn H</td> <td data-bbox="639 607 1401 651">Count value of full color print (coverage: high)</td> </tr> <tr> <td data-bbox="336 651 639 696">ColorPrn M</td> <td data-bbox="639 651 1401 696">Count value of full color print (coverage: middle)</td> </tr> <tr> <td data-bbox="336 696 639 741">ColorPrn L</td> <td data-bbox="639 696 1401 741">Count value of full color print (coverage: low)</td> </tr> <tr> <td data-bbox="336 741 639 786">B/W Prn</td> <td data-bbox="639 741 1401 786">Count value of black/white print</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	ColorPrn H	Count value of full color print (coverage: high)	ColorPrn M	Count value of full color print (coverage: middle)	ColorPrn L	Count value of full color print (coverage: low)	B/W Prn	Count value of black/white print
Display	Description										
ColorPrn H	Count value of full color print (coverage: high)										
ColorPrn M	Count value of full color print (coverage: middle)										
ColorPrn L	Count value of full color print (coverage: low)										
B/W Prn	Count value of black/white print										
<b>U927</b>	<p><b>Clearing the all print counts and machine life counts (one time only)</b></p> <p><b>Description</b> Resets all of the counts back to zero.</p> <p><b>Supplement</b> The total account counter and the machine life counter can be cleared only once if all count values are 1000 or less.</p> <p><b>Method</b> 1. Press the OK key. 2. Select [Execute]. 3. Press the OK key. All print counts and machine life counts are cleared.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>										



Item No.	Description										
U928	<p><b>Checking machine life counts</b></p> <p><b>Description</b> Displays the machine life counts.</p> <p><b>Purpose</b> To check the machine life counts.</p> <p><b>Method</b> 1. Press the OK key. The current machine life counts is displayed.</p> <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">Cnt</td> <td data-bbox="639 607 1401 658">Machine life counts</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Cnt	Machine life counts						
Display	Description										
Cnt	Machine life counts										
U930	<p><b>Checking/clearing the charger roller count</b></p> <p><b>Description</b> Displays the counts of the charger roller counter for checking or clearing.</p> <p><b>Purpose</b> To check the count after replacement of the charger roller unit. To clear the counter value when replacing the charger roller unit.</p> <p><b>Method</b> 1. Press the OK key. The current counts of the charger roller count for each color is displayed.</p> <table border="1" data-bbox="336 1140 1401 1379"> <thead> <tr> <th data-bbox="336 1140 639 1184">Display</th> <th data-bbox="639 1140 1401 1184">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1184 639 1232">C</td> <td data-bbox="639 1184 1401 1232">Count value of cyan charger roller</td> </tr> <tr> <td data-bbox="336 1232 639 1279">M</td> <td data-bbox="639 1232 1401 1279">Count value of magenta charger roller</td> </tr> <tr> <td data-bbox="336 1279 639 1326">Y</td> <td data-bbox="639 1279 1401 1326">Count value of yellow charger roller</td> </tr> <tr> <td data-bbox="336 1326 639 1379">K</td> <td data-bbox="639 1326 1401 1379">Count value of black charger roller</td> </tr> </tbody> </table> <p><b>Clearing</b> 1. Select the counts to be cleared. 2. Select the counts for all and press [Clear]. 3. Press the OK key. The counts is cleared.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Count value of cyan charger roller	M	Count value of magenta charger roller	Y	Count value of yellow charger roller	K	Count value of black charger roller
Display	Description										
C	Count value of cyan charger roller										
M	Count value of magenta charger roller										
Y	Count value of yellow charger roller										
K	Count value of black charger roller										

Item No.	Description																										
U952	<p data-bbox="288 241 657 271"><b>Maintenance mode workflow</b></p> <p data-bbox="288 311 440 340"><b>Description</b></p> <p data-bbox="288 344 1426 409">The maintenance modes configured in the machine or a USB flash device as a workflow must be executed in succession.</p> <p data-bbox="288 414 400 443"><b>Purpose</b></p> <p data-bbox="288 448 983 477">This allows maintenance mode to be preset as a template.</p> <p data-bbox="288 517 384 546"><b>Setting</b></p> <ol data-bbox="304 551 552 616" style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the item.</li> </ol> <table border="1" data-bbox="336 629 1401 967"> <thead> <tr> <th data-bbox="336 629 603 680">Display</th> <th data-bbox="603 629 1401 680">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 680 603 725">Continue</td> <td data-bbox="603 680 1401 725">Restarting an abandoned workflow</td> </tr> <tr> <td data-bbox="336 725 603 770">Exec(USB)</td> <td data-bbox="603 725 1401 770">Executes a workflow housed in a USB flash device</td> </tr> <tr> <td data-bbox="336 770 603 815">Exec</td> <td data-bbox="603 770 1401 815">Executes a workflow stored in the machine</td> </tr> <tr> <td data-bbox="336 815 603 860">Entry(USB)</td> <td data-bbox="603 815 1401 860">Exports a workflow housed in a USB flash device to the machine</td> </tr> <tr> <td data-bbox="336 860 603 904">Entry</td> <td data-bbox="603 860 1401 904">Assigns a workflow in the machine manually</td> </tr> <tr> <td data-bbox="336 904 603 967">Log</td> <td data-bbox="603 904 1401 967">Displays a list of workflows recently executed</td> </tr> </tbody> </table> <p data-bbox="288 1010 485 1039"><b>Method: [Exec]</b></p> <ol data-bbox="304 1043 576 1108" style="list-style-type: none"> <li>1. Select [Execute].</li> <li>2. Select the workflow.</li> </ol> <table border="1" data-bbox="336 1122 1401 1220"> <thead> <tr> <th data-bbox="336 1122 641 1173">Display</th> <th data-bbox="641 1122 1401 1173">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1173 641 1220">Data1 - 6</td> <td data-bbox="641 1173 1401 1220">The area to store workflows in the machine</td> </tr> </tbody> </table> <ol data-bbox="304 1229 1126 1294" style="list-style-type: none"> <li>3. Press the OK key. Executes maintenance modes defined in a workflow in succession.</li> </ol> <p data-bbox="288 1335 491 1364"><b>Method: [Entry]</b></p> <ol data-bbox="304 1368 732 1433" style="list-style-type: none"> <li>1. Select [Entry].</li> <li>2. Select the area to store workflow.</li> </ol> <table border="1" data-bbox="336 1447 1401 1545"> <thead> <tr> <th data-bbox="336 1447 641 1498">Display</th> <th data-bbox="641 1447 1401 1498">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1498 641 1545">Data1 - 6</td> <td data-bbox="641 1498 1401 1545">The area to store workflows in the machine</td> </tr> </tbody> </table> <ol data-bbox="304 1554 1158 1583" style="list-style-type: none"> <li>3. Press the numeric keys to assign a maintenance Nbr. into a workflow.</li> </ol> <table border="1" data-bbox="336 1597 1401 1695"> <thead> <tr> <th data-bbox="336 1597 641 1648">Display</th> <th data-bbox="641 1597 1401 1648">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1648 641 1695">Flow1 - 14</td> <td data-bbox="641 1648 1401 1695">Assign a maintenance Nbr.</td> </tr> </tbody> </table> <ol data-bbox="304 1704 1126 1800" style="list-style-type: none"> <li>4. Press the OK key. The setting is set.</li> <li>5. Press the OK key. Executes maintenance modes defined in a workflow in succession.</li> </ol>	Display	Description	Continue	Restarting an abandoned workflow	Exec(USB)	Executes a workflow housed in a USB flash device	Exec	Executes a workflow stored in the machine	Entry(USB)	Exports a workflow housed in a USB flash device to the machine	Entry	Assigns a workflow in the machine manually	Log	Displays a list of workflows recently executed	Display	Description	Data1 - 6	The area to store workflows in the machine	Display	Description	Data1 - 6	The area to store workflows in the machine	Display	Description	Flow1 - 14	Assign a maintenance Nbr.
Display	Description																										
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Data1 - 6	The area to store workflows in the machine																										
Display	Description																										
Flow1 - 14	Assign a maintenance Nbr.																										

Item No.	Description												
U952	<p><b>Method: [Exec(USB)]</b></p> <ol style="list-style-type: none"> <li>1. Perform shut-down on the operation panel, turn power off(see page P.1-2-19).</li> <li>2. Insert USB memory in USB memory slot.</li> <li>3. Turn the main power switch on.</li> <li>4. Enter maintenance item U952.</li> <li>5. Select [Execute(USB)].</li> <li>6. Select the workflow.</li> </ol> <table border="1" data-bbox="336 495 1401 591"> <thead> <tr> <th data-bbox="336 495 639 539">Display</th> <th data-bbox="639 495 1401 539">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 539 639 591">Data01 - 06</td> <td data-bbox="639 539 1401 591">Workflow data in the USB flash device</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>7. Press the OK key. Executes maintenance modes defined in a workflow in succession.</li> </ol> <p><b>Method: [Entry(USB)]</b></p> <ol style="list-style-type: none"> <li>1. Perform shut-down on the operation panel, turn power off (see page p.1-2-19).</li> <li>2. Insert USB memory in USB memory slot.</li> <li>3. Turn the main power switch on.</li> <li>4. Enter maintenance item U952.</li> <li>5. Select [Entry(USB)].</li> <li>6. Select the workflow.</li> </ol> <table border="1" data-bbox="336 954 1401 1050"> <thead> <tr> <th data-bbox="336 954 639 999">Display</th> <th data-bbox="639 954 1401 999">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 999 639 1050">Data01 - 06</td> <td data-bbox="639 999 1401 1050">Workflow data in the USB flash device</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>7. Select the work flow save area.</li> </ol> <table border="1" data-bbox="336 1104 1401 1200"> <thead> <tr> <th data-bbox="336 1104 639 1149">Display</th> <th data-bbox="639 1104 1401 1149">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1149 639 1200">Data1 - 6</td> <td data-bbox="639 1149 1401 1200">The area to store workflows in the machine</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>8. Select [Execute]. Exports a workflow housed in a USB flash device to the machine.</li> </ol> <p><b>Example</b></p> <p>Registration is feasible when a USB flash device that stores the commands and text/maintenance ID (editable) is inserted. File Format: xxx.mwf</p> <pre> !R! MNFC "WFPS"; 1.SET UP, 464, 469, 000, 927, 278 2.WARRANTY, 089, 000 3.MK-A, 119, 930, 140, 469, 127, 464, 469, 464, 251 4.MK-B, 119, 930, 140, 464, 469, 464, 251 5.MK-C, 167, 464, 469, 251 WRED;EXIT; </pre> <p><b>Completion</b></p> <p>Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Data01 - 06	Workflow data in the USB flash device	Display	Description	Data01 - 06	Workflow data in the USB flash device	Display	Description	Data1 - 6	The area to store workflows in the machine
Display	Description												
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Display	Description												
Data1 - 6	The area to store workflows in the machine												

Item No.	Description																								
U964	<p><b>Checking of log</b></p> <p><b>Description</b> Sends a log file saved on the HDD to a USB memory.</p> <p><b>Purpose</b> To transfer a log file saved on the HDD to a USB memory as a means of investigating malfunctions.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Perform shut-down on the operation panel, turn power off(see page P.1-2-19).</li> <li>2. Insert USB memory in USB memory slot.</li> <li>3. Turn the main power switch on.</li> <li>4. Enter maintenance item U964.</li> <li>5. Select [Execute].</li> <li>6. Press the OK key. Starts sending the log file saved on the HDD to the USB memory. Processing is displayed for approximately 3 to 5 minutes.</li> <li>7. When normally completed, [Completed] is displayed.</li> <li>8. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On. If a problem occurs during auto correction, error code is displayed.</li> </ol> <p><b>Error codes</b></p> <table border="1" data-bbox="336 1081 1399 1464"> <thead> <tr> <th>Error codes</th> <th>Error name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>No Usb Storage</td> <td>USB memory is not inserted</td> </tr> <tr> <td>2</td> <td>No File</td> <td>File is not found</td> </tr> <tr> <td>3</td> <td>Mount Error</td> <td>USB memory mount error</td> </tr> <tr> <td>4</td> <td>File Delete Error</td> <td>File deletion error</td> </tr> <tr> <td>5</td> <td>Copy Error</td> <td>File copy error</td> </tr> <tr> <td>6</td> <td>Unmount Error</td> <td>USB memory unmount error</td> </tr> <tr> <td>7</td> <td>Other Error</td> <td>Other error</td> </tr> </tbody> </table>	Error codes	Error name	Description	1	No Usb Storage	USB memory is not inserted	2	No File	File is not found	3	Mount Error	USB memory mount error	4	File Delete Error	File deletion error	5	Copy Error	File copy error	6	Unmount Error	USB memory unmount error	7	Other Error	Other error
Error codes	Error name	Description																							
1	No Usb Storage	USB memory is not inserted																							
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5	Copy Error	File copy error																							
6	Unmount Error	USB memory unmount error																							
7	Other Error	Other error																							
U969	<p><b>Checking of toner area code</b></p> <p><b>Description</b> Displays the toner area code.</p> <p><b>Purpose</b> To check the toner area code.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key. The toner area code is displayed.</li> </ol> <p><b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>																								

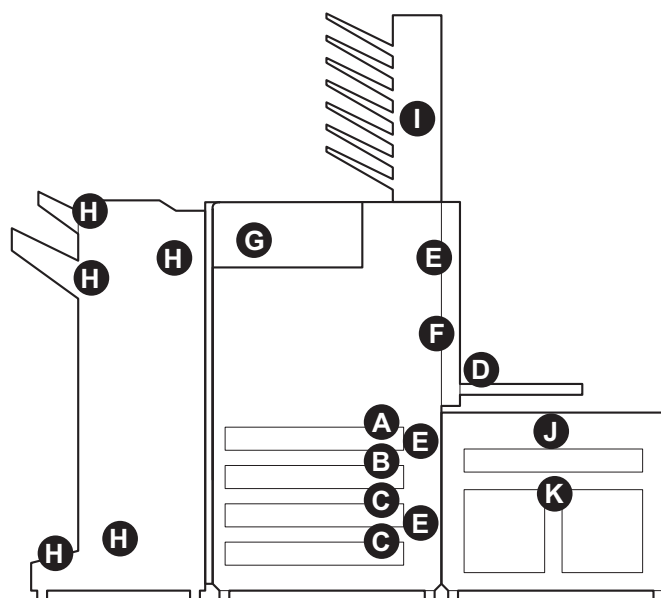
Item No.	Description										
<b>U977</b>	<p><b>Data capture mode</b></p> <p><b>Description</b> Store the print data sent to the machine into USB memory.</p> <p><b>Purpose</b> In case to occur the error at printing, check the print data sent to the machine.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Perform shut-down on the operation panel, turn power off(see page P.1-2-19).</li> <li>2. Insert USB memory in USB memory slot.</li> <li>3. Turn the main power switch on.</li> <li>4. Enter maintenance item U977.</li> <li>5. Select [Execute].</li> <li>6. Press the OK key.</li> <li>7. Send the print data to the machine.</li> </ol> <p>Once the print data is stored into USB memory, [OK] will be displayed.</p> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p> <p><b>Error codes</b></p> <table border="1" data-bbox="336 1010 1401 1240"> <thead> <tr> <th data-bbox="336 1010 639 1055">Error codes</th> <th data-bbox="639 1010 1401 1055">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1055 639 1144">1</td> <td data-bbox="639 1055 1401 1144">The removable memory has been crushed or removed or write-protected</td> </tr> <tr> <td data-bbox="336 1144 639 1189">2</td> <td data-bbox="639 1144 1401 1189">The removable memory is full</td> </tr> <tr> <td data-bbox="336 1189 639 1240">3</td> <td data-bbox="639 1189 1401 1240">Other errors have occurred</td> </tr> </tbody> </table>	Error codes	Description	1	The removable memory has been crushed or removed or write-protected	2	The removable memory is full	3	Other errors have occurred		
Error codes	Description										
1	The removable memory has been crushed or removed or write-protected										
2	The removable memory is full										
3	Other errors have occurred										
<b>U984</b>	<p><b>Checking the developer unit number</b></p> <p><b>Description</b> Displays the developer unit number.</p> <p><b>Purpose</b> To check the developer unit number.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key. The developer unit number for each color is displayed.</li> </ol> <table border="1" data-bbox="336 1637 1401 1877"> <thead> <tr> <th data-bbox="336 1637 639 1682">Display</th> <th data-bbox="639 1637 1401 1682">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1682 639 1727">C</td> <td data-bbox="639 1682 1401 1727">Cyan developer unit number</td> </tr> <tr> <td data-bbox="336 1727 639 1771">M</td> <td data-bbox="639 1727 1401 1771">Magenta developer unit number</td> </tr> <tr> <td data-bbox="336 1771 639 1816">Y</td> <td data-bbox="639 1771 1401 1816">Yellow developer unit number</td> </tr> <tr> <td data-bbox="336 1816 639 1877">K</td> <td data-bbox="639 1816 1401 1877">Black developer unit number</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Cyan developer unit number	M	Magenta developer unit number	Y	Yellow developer unit number	K	Black developer unit number
Display	Description										
C	Cyan developer unit number										
M	Magenta developer unit number										
Y	Yellow developer unit number										
K	Black developer unit number										

Item No.	Description																
<b>U985</b>	<p><b>Displaying the developer unit history</b></p> <p><b>Description</b> Displays the past record of machine number and the developer counter.</p> <p><b>Purpose</b> To check the count value of machine number and the developer counter.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select the color to check.</li> </ol> <table border="1" data-bbox="336 598 1401 837"> <thead> <tr> <th data-bbox="336 598 639 642">Display</th> <th data-bbox="639 598 1401 642">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 642 639 687">C</td> <td data-bbox="639 642 1401 687">Cyan developer unit past record</td> </tr> <tr> <td data-bbox="336 687 639 732">M</td> <td data-bbox="639 687 1401 732">Magenta developer unit past record</td> </tr> <tr> <td data-bbox="336 732 639 777">Y</td> <td data-bbox="639 732 1401 777">Yellow developer unit past record</td> </tr> <tr> <td data-bbox="336 777 639 837">K</td> <td data-bbox="639 777 1401 837">Black developer unit past record</td> </tr> </tbody> </table> <p>The history of a machine number and a developer counter for each color is displayed by three cases.</p> <table border="1" data-bbox="336 925 1401 1068"> <thead> <tr> <th data-bbox="336 925 639 969">Display</th> <th data-bbox="639 925 1401 969">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 969 639 1014">Machine History1 - 3</td> <td data-bbox="639 969 1401 1014">Historical records of the machine number</td> </tr> <tr> <td data-bbox="336 1014 639 1068">Cnt History1 - 3</td> <td data-bbox="639 1014 1401 1068">Historical records of developer counter</td> </tr> </tbody> </table> <p><b>Completion</b> Press the Back key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	C	Cyan developer unit past record	M	Magenta developer unit past record	Y	Yellow developer unit past record	K	Black developer unit past record	Display	Description	Machine History1 - 3	Historical records of the machine number	Cnt History1 - 3	Historical records of developer counter
Display	Description																
C	Cyan developer unit past record																
M	Magenta developer unit past record																
Y	Yellow developer unit past record																
K	Black developer unit past record																
Display	Description																
Machine History1 - 3	Historical records of the machine number																
Cnt History1 - 3	Historical records of developer counter																
<b>U989</b>	<p><b>HDD Scan disk</b></p> <p><b>Description</b> Restores data in the hard disk by scanning the disk.</p> <p><b>Purpose</b> If power is turned off while accessing to the hard disk is performed, the control information in the hard disk drive may be damaged. Use this mode to restore the data.</p> <p><b>Method</b></p> <ol style="list-style-type: none"> <li>1. Press the OK key.</li> <li>2. Select [Execute].</li> <li>3. Press the OK key. When scanning of the disk is complete, the execution result is displayed.</li> <li>4. Exit the maintenance mode, perform shut-down, and turn the main power switch to off and on again. Allow more than 5 seconds between Off and On.</li> </ol>																

## 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 misfeed in the machine, pull out the cassette, open the paper conveying unit or paper conveying cover.



**Figure 1-4-1 Paper misfeed indication**

- A. Misfeed in cassette 1
- B. Misfeed in cassette 2
- C. Misfeed in cassette 3 or 4 (option)
- D. Misfeed in the MP tray
- E. Misfeed in paper conveying unit, paper conveying cover or PF paper conveying cover
- F. Misfeed in the duplex section
- G. Misfeed in bridge unit (option)
- H. Misfeed in document finisher (option)
- I. Misfeed in cassette 5 (option)
- J. Misfeed in cassette 6 or 7 (option)

(2) Paper misfeed detection condition

Machine

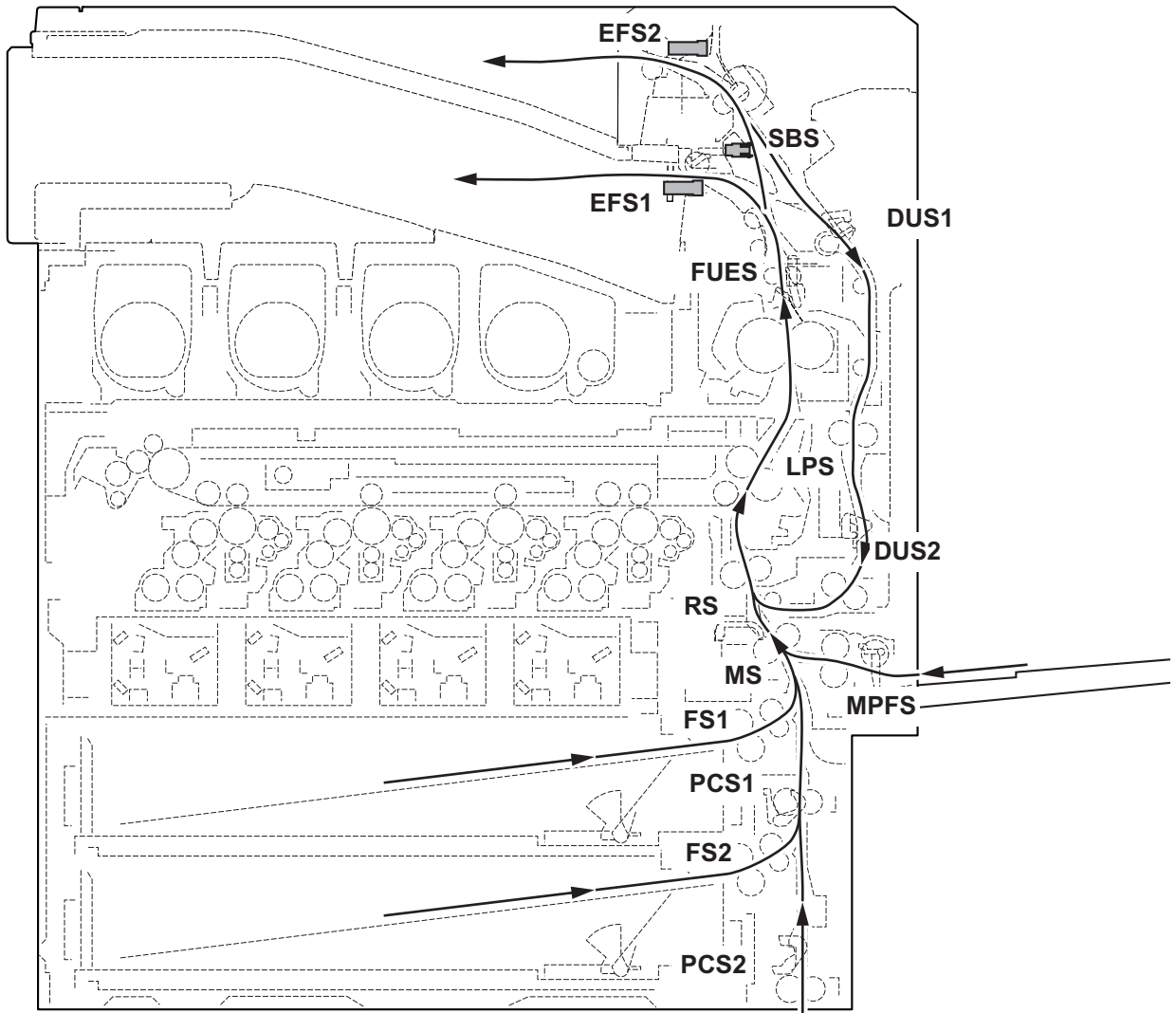


Figure 1-4-2 Paper jam location



\* : This model does not support the following codes:  
0132 /0505 /0515 /9030

Code	Contents	Conditions	Jam location*
0000	Initial jam	The power is turned on when a sensor in the conveying system is on.	-
0100	Secondary paper feed request time out	Secondary paper feed request given by the controller is unreachable.	-
0101	Waiting for process package to become ready	Process package won't become ready.	-
0102	Waiting for toner package to become ready	Toner package won't become ready.	-
0103	Waiting for the image-sustaining package to become ready	The image-sustaining package won't become ready.	-
0104	Waiting for conveying package to become ready	Conveying package won't become ready.	-
0106	Paper feeding request for duplex printing time out	Paper feeding request for duplex printing given by the controller is unreachable.	-
0107	Waiting for fuser package to become ready	Fuser package won't become ready.	-
0108	Waiting for option package to become ready	Option package won't become ready.	-
0110	Paper conveying unit open	The paper conveying unit is opened during printing.	E
0111	Front cover open	The front cover is opened during printing.	-
0112	Duplex cover open	The duplex cover is opened during printing.	F
0113	Paper conveying cover open	The paper conveying cover is opened during printing.	E
0114	BR conveying unit open	The BR conveying unit is opened during printing.	G
0115	BR eject cover open	The BR eject cover is opened during printing.	G
0131	MP lift sensor upper limit detection	MP lift sensor 1 (MPLS1) does not turn on within specified time of the MP lift plate rising.	D
0200	Machine sequence error	A sequence error has caused.	-
0210	PF paper conveying cover open	The PF paper conveying cover is opened during printing.	E

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
0211	SM paper conveying cover open	The SM paper conveying cover is opened during printing.	J
0212	SM top cover open	The SM top cover is opened during printing.	J
0213	SD cover open	The SD cover is opened during printing.	J
0214	PF paper conveying cover (side) open	The PF paper conveying cover (side) is opened during printing.	K
0215	Side multi tray release	The side multi tray is released during printing.	J
0300	Ejection uncompleted	An ejection-completed error has occurred.	-
0501	No paper feed from cassette 1	Feed sensor 1 (FS1) does not turn on during paper feed from cassette 1.	A
0502	No paper feed from cassette 2	Feed sensor 2 (FS2) does not turn on during paper feed from cassette 2.	B
0503	No paper feed from cassette 3	PF feed sensor 1 (PFFS1) does not turn on during paper feed from cassette 3 (paper feeder).	C
0504	No paper feed from cassette 4	PF feed sensor 2 (PFFS2) does not turn on during paper feed from cassette 4 (paper feeder).	C
0505	No paper feed from cassette 5	SM feed sensor (SMFS) does not turn on during paper feed from cassette 5 (side multi tray).	J
0506	No paper feed from cassette 6	PF feed sensor 1 (PFFS1) does not turn on during paper feed from cassette 6 (side paper feeder).	K
0507	No paper feed from cassette 7	PF feed sensor 2 (PFFS2) does not turn on during paper feed from cassette 7 (side paper feeder).	K
0508	No paper feed from duplex section	Registration sensor (RS) does not turn on during paper feed from duplex section.	F
0509	No paper feed from MP tray	MP feed sensor (MPFS) does not turn on during paper feed from MP tray.	D
0511	Multiple sheets in cassette 1	Feed sensor 1 (FS1) does not turn off during paper feed from cassette 1.	A
0512	Multiple sheets in cassette 2	Feed sensor 2 (FS2) does not turn off during paper feed from cassette 2.	B
0513	Multiple sheets in cassette 3	PF feed sensor 1 (PFFS1) does not turn off during paper feed from cassette 3 (paper feeder).	C
0514	Multiple sheets in cassette 4	PF feed sensor 2 (PFFS2) does not turn off during paper feed from cassette 4 (paper feeder).	C

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>0515</b>	Multiple sheets in cassette 5	SM feed sensor (SMFS) does not turn off during paper feed from cassette 5 (side multi tray).	J
<b>0516</b>	Multiple sheets in cassette 6	PF feed sensor 1 (PFFS1) does not turn off during paper feed from cassette 6 (side paper feeder).	K
<b>0517</b>	Multiple sheets in cassette 7	PF feed sensor 2 (PFFS2) does not turn off during paper feed from cassette 7 (side paper feeder).	K
<b>0518</b>	Multiple sheets in duplex section	Registration sensor (RS) does not turn off during paper feed from duplex section.	F
<b>0519</b>	Multiple sheets in MP tray	MP feed sensor (MPFS) does not turn off during paper feed from MP tray.	D
<b>0523</b>	No paper feed from cassette 3	PF feed sensor 1 (PFFS1) does not turn on during paper feed from cassette 3 (large capacity feeder).	C
<b>0524</b>	No paper feed from cassette 4	PF feed sensor 2 (PFFS2) does not turn on during paper feed from cassette 4 (large capacity feeder).	C
<b>0525</b>	No paper feed from cassette 5	SM feed sensor (SMFS) does not turn on during paper feed from cassette 5 (side multi tray).	J
<b>0526</b>	No paper feed from cassette 6	PF feed sensor 1 (PFFS1) does not turn on during paper feed from cassette 6 (side large capacity feeder).	K
<b>0527</b>	No paper feed from cassette 7	PF feed sensor 2 (PFFS2) does not turn on during paper feed from cassette 7 (side large capacity feeder).	K
<b>0533</b>	Multiple sheets in cassette 3	PF feed sensor 1 (PFFS1) does not turn off during paper feed from cassette 3 (large capacity feeder).	C
<b>0534</b>	Multiple sheets in cassette 4	PF feed sensor 2 (PFFS2) does not turn off during paper feed from cassette 4 (large capacity feeder).	C
<b>0535</b>	Multiple sheets in cassette 5	SM feed sensor (SMFS) does not turn off during paper feed from cassette 5 (side multi tray).	J
<b>0536</b>	Multiple sheets in cassette 6	PF feed sensor 1 (PFFS1) does not turn off during paper feed from cassette 6 (side large capacity feeder).	K
<b>0537</b>	Multiple sheets in cassette 7	PF feed sensor 2 (PFFS2) does not turn off during paper feed from cassette 7 (side large capacity feeder).	K

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
0545	No paper feed from side deck	SD feed sensor (SDFS) does not turn on during paper feed from side deck.	J
0555	Multiple sheets in side deck	SD feed sensor (SDFS) does not turn off during paper feed from side deck.	J
1301	Middle sensor non arrival jam	Middle sensor (MS) does not turn on during paper feed from cassette 1.	A
1302		Middle sensor (MS) does not turn on during paper feed from cassette 2.	B
1303		Middle sensor (MS) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	C
1304		Middle sensor (MS) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	C
1305		Middle sensor (MS) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	J
1306		Middle sensor (MS) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	K
1307		Middle sensor (MS) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	K
1311	Middle sensor stay jam	Middle sensor (MS) does not turn off during paper feed from cassette 1.	E
1312		Middle sensor (MS) does not turn off during paper feed from cassette 2.	E
1313		Middle sensor (MS) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	E
1314		Middle sensor (MS) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	E
1315		Middle sensor (MS) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	E
1316		Middle sensor (MS) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	E
1317		Middle sensor (MS) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	E

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
1502	Paper conveying sensor non arrival jam	Paper conveying sensor (PCS) does not turn on during paper feed from cassette 2.	B
1503		Paper conveying sensor (PCS) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	C
1504		Paper conveying sensor (PCS) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	C
1512	Paper conveying sensor stay jam	Paper conveying sensor (PCS) does not turn off during paper feed from cassette 2.	E
1513		Paper conveying sensor (PCS) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	E
1514		Paper conveying sensor (PCS) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	E
1703	PF paper conveying sensor 1 non arrival jam	PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 3 (paper feeder).	C
1704		PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 4 (paper feeder).	C
1713	PF paper conveying sensor 1 stay jam	PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 3 (paper feeder).	E
1714		PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 4 (paper feeder).	E
1904	PF paper conveying sensor 2 non arrival jam	PF paper conveying sensor 2 (PFPCS2) does not turn on during paper feed from cassette 4 (paper feeder).	C
1914	PF paper conveying sensor 2 stay jam	PF paper conveying sensor 2 (PFPCS2) does not turn off during paper feed from cassette 4 (paper feeder).	E
2106	PF paper conveying sensor 1 non arrival jam	PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 6 (side paper feeder).	K
2107		PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 7 (side paper feeder).	K
2116	PF paper conveying sensor 1 stay jam	PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 6 (side paper feeder).	J
2117		PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 7 (side paper feeder).	J
2307	PF paper conveying sensor 2 non arrival jam	PF paper conveying sensor 2 (PFPCS2) does not turn on during paper feed from cassette 7 (side paper feeder).	K

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>2317</b>	PF paper conveying sensor 2 stay jam	PF paper conveying sensor 2 (PFPCS2) does not turn off during paper feed from cassette 7 (side paper feeder).	K
<b>2603</b>	PF paper conveying sensor 1 non arrival jam	PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 3 (large capacity feeder).	C
<b>2604</b>		PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 4 (large capacity feeder).	C
<b>2606</b>		PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 6 (side large capacity feeder).	K
<b>2607</b>		PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 7 (side large capacity feeder).	K
<b>2613</b>	PF paper conveying sensor 1 stay jam	PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 3 (large capacity feeder).	E
<b>2614</b>		PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 4 (large capacity feeder).	E
<b>2616</b>		PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 6 (side large capacity feeder).	J
<b>2617</b>		PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 7 (side large capacity feeder).	J
<b>2704</b>	PF paper conveying sensor 2 non arrival jam	PF paper conveying sensor 2 (PFPCS2) does not turn on during paper feed from cassette 4 (large capacity feeder).	C
<b>2707</b>		PF paper conveying sensor 2 (PFPCS2) does not turn on during paper feed from cassette 7 (side large capacity feeder).	K
<b>2714</b>	PF paper conveying sensor 2 stay jam	PF paper conveying sensor 2 (PFPCS2) does not turn off during paper feed from cassette 4 (large capacity feeder).	E
<b>2717</b>		PF paper conveying sensor 2 (PFPCS2) does not turn off during paper feed from cassette 7 (side large capacity feeder).	J

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
3106	PF paper conveying sensor 1 non arrival jam	PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 6 (side large capacity feeder).	K
3107		PF paper conveying sensor 1 (PFPCS1) does not turn on during paper feed from cassette 7 (side large capacity feeder).	K
3116	PF paper conveying sensor 1 stay jam	PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 6 (side large capacity feeder).	J
3117		PF paper conveying sensor 1 (PFPCS1) does not turn off during paper feed from cassette 7 (side large capacity feeder).	J
3307	PF paper conveying sensor 2 non arrival jam	PF paper conveying sensor 2 (PFPCS2) does not turn on during paper feed from cassette 7 (side large capacity feeder).	K
3317	PF paper conveying sensor 2 stay jam	PF paper conveying sensor 2 (PFPCS2) does not turn off during paper feed from cassette 7 (side large capacity feeder).	J
3405	SM paper conveying sensor 1 non arrival jam	SM paper conveying sensor 1 (SMPCS1) does not turn on during paper feed from cassette 5 (side multi tray).	J
3406		SM paper conveying sensor 1 (SMPCS1) does not turn on during paper feed from cassette 6 (side multi tray).	K
3407		SM paper conveying sensor 1 (SMPCS1) does not turn on during paper feed from cassette 7 (side multi tray).	K
3415	SM paper conveying sensor 1 stay jam	SM paper conveying sensor 1 (SMPCS1) does not turn off during paper feed from cassette 5 (side multi tray).	J
3416		SM paper conveying sensor 1 (SMPCS1) does not turn off during paper feed from cassette 6 (side multi tray).	J
3417		SM paper conveying sensor 1 (SMPCS1) does not turn off during paper feed from cassette 7 (side multi tray).	J

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
3505	SM paper conveying sensor 2 non arrival jam	SM paper conveying sensor 2 (SMPCS2) does not turn on during paper feed from cassette 5 (side multi tray).	J
3506		SM paper conveying sensor 2 (SMPCS2) does not turn on during paper feed from cassette 6 (side multi tray).	K
3507		SM paper conveying sensor 2 (SMPCS2) does not turn on during paper feed from cassette 7 (side multi tray).	K
3515	SM paper conveying sensor 2 stay jam	SM paper conveying sensor 2 (SMPCS2) does not turn off during paper feed from cassette 5 (side multi tray).	J
3516		SM paper conveying sensor 2 (SMPCS2) does not turn off during paper feed from cassette 6 (side multi tray).	J
3517		SM paper conveying sensor 2 (SMPCS2) does not turn off during paper feed from cassette 7 (side multi tray).	J
3605	SM paper conveying sensor 3 non arrival jam	SM paper conveying sensor 3 (SMPCS3) does not turn on during paper feed from cassette 5 (side multi tray).	J
3606		SM paper conveying sensor 3 (SMPCS3) does not turn on during paper feed from cassette 6 (side multi tray).	K
3607		SM paper conveying sensor 3 (SMPCS3) does not turn on during paper feed from cassette 7 (side multi tray).	K
3615	SM paper conveying sensor 3 stay jam	SM paper conveying sensor 3 (SMPCS3) does not turn off during paper feed from cassette 5 (side multi tray).	J
3616		SM paper conveying sensor 3 (SMPCS3) does not turn off during paper feed from cassette 6 (side multi tray).	J
3617		SM paper conveying sensor 3 (SMPCS3) does not turn off during paper feed from cassette 7 (side multi tray).	K

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).



<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>3705</b>	SM eject sensor non arrival jam	SM eject sensor (SMES) does not turn on during paper feed from cassette 5 (side multi tray).	J
<b>3706</b>		SM eject sensor (SMES) does not turn on during paper feed from cassette 6 (side multi tray).	K
<b>3707</b>		SM eject sensor (SMES) does not turn on during paper feed from cassette 7 (side multi tray).	K
<b>3715</b>	SM eject sensor stay jam	SM eject sensor (SMES) does not turn off during paper feed from cassette 5 (side multi tray).	J
<b>3716</b>		SM eject sensor (SMES) does not turn off during paper feed from cassette 6 (side multi tray).	J
<b>3717</b>		SM eject sensor (SMES) does not turn off during paper feed from cassette 7 (side multi tray).	J
<b>4001</b>	Registration sensor non arrival jam	Registration sensor (RS) does not turn on during paper feed from cassette 1.	E
<b>4002</b>		Registration sensor (RS) does not turn on during paper feed from cassette 2.	E
<b>4003</b>		Registration sensor (RS) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	E
<b>4004</b>		Registration sensor (RS) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	E
<b>4005</b>		Registration sensor (RS) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	E
<b>4006</b>		Registration sensor (RS) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	E
<b>4007</b>		Registration sensor (RS) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	E
<b>4009</b>		Registration sensor (RS) does not turn on during paper feed from MP tray.	E

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>4011</b>	Registration sensor stay jam	Registration sensor (RS) does not turn off during paper feed from cassette 1.	E
<b>4012</b>		Registration sensor (RS) does not turn off during paper feed from cassette 2.	E
<b>4013</b>		Registration sensor (RS) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	E
<b>4014</b>		Registration sensor (RS) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	E
<b>4015</b>		Registration sensor (RS) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	E
<b>4016</b>		Registration sensor (RS) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	E
<b>4017</b>		Registration sensor (RS) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	E
<b>4019</b>		Registration sensor (RS) does not turn off during paper feed from MP tray.	E
<b>4101</b>		Loop sensor non arrival jam	Loop sensor (LPS) does not turn on during paper feed from cassette 1.
<b>4102</b>	Loop sensor (LPS) does not turn on during paper feed from cassette 2.		E
<b>4103</b>	Loop sensor (LPS) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).		E
<b>4104</b>	Loop sensor (LPS) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).		E
<b>4105</b>	Loop sensor (LPS) does not turn on during paper feed from cassette 5 (side multi tray/side deck).		E
<b>4106</b>	Loop sensor (LPS) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).		E
<b>4107</b>	Loop sensor (LPS) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).		E
<b>4108</b>	Loop sensor (LPS) does not turn on during paper feed from duplex section.		E
<b>4109</b>	Loop sensor (LPS) does not turn on during paper feed from MP tray.		E

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>4111</b>	Loop sensor stay jam	Loop sensor (LPS) does not turn off during paper feed from cassette 1.	E
<b>4112</b>		Loop sensor (LPS) does not turn off during paper feed from cassette 2.	E
<b>4113</b>		Loop sensor (LPS) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	E
<b>4114</b>		Loop sensor (LPS) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	E
<b>4115</b>		Loop sensor (LPS) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	E
<b>4116</b>		Loop sensor (LPS) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	E
<b>4117</b>		Loop sensor (LPS) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	E
<b>4118</b>		Loop sensor (LPS) does not turn off during paper feed from duplex section.	E
<b>4119</b>		Loop sensor (LPS) does not turn off during paper feed from MP tray.	E

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
4201	Fuser eject sensor non arrival jam	Fuser eject sensor (FUES) does not turn on during paper feed from cassette 1.	E
4202		Fuser eject sensor (FUES) does not turn on during paper feed from cassette 2.	E
4203		Fuser eject sensor (FUES) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	E
4204		Fuser eject sensor (FUES) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	E
4205		Fuser eject sensor (FUES) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	E
4206		Fuser eject sensor (FUES) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	E
4207		Fuser eject sensor (FUES) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	E
4208		Fuser eject sensor (FUES) does not turn on during paper feed from duplex section.	E
4209		Fuser eject sensor (FUES) does not turn on during paper feed from MP tray.	E
4211	Fuser eject sensor stay jam	Fuser eject sensor (FUES) does not turn off during paper feed from cassette 1.	G
4212		Fuser eject sensor (FUES) does not turn off during paper feed from cassette 2.	G
4213		Fuser eject sensor (FUES) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
4214		Fuser eject sensor (FUES) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
4215		Fuser eject sensor (FUES) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	G
4216		Fuser eject sensor (FUES) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
4217		Fuser eject sensor (FUES) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
4218		Fuser eject sensor (FUES) does not turn off during paper feed from duplex section.	G
4219		Fuser eject sensor (FUES) does not turn off during paper feed from MP tray.	G

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>4301</b>	Duplex sensor 1 non arrival jam	Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 1.	G
<b>4302</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 2.	G
<b>4303</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
<b>4304</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
<b>4305</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	G
<b>4306</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>4307</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>4309</b>		Duplex sensor 1 (DUS1) does not turn on during paper feed from MP tray.	G
<b>4311</b>		Duplex sensor 1 stay jam	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 1.
<b>4312</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 2.		F
<b>4313</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).		F
<b>4314</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).		F
<b>4315</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 5 (side multi tray/side deck).		F
<b>4316</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).		F
<b>4317</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).		F
<b>4319</b>	Duplex sensor 1 (DUS1) does not turn off during paper feed from MP tray.		F

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
4401	Duplex sensor 2 non arrival jam	Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 1.	F
4402		Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 2.	F
4403		Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	F
4404		Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	F
4405		Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	F
4406		Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	F
4407		Duplex sensor 2 (DUS2) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	F
4409		Duplex sensor 2 (DUS2) does not turn on during paper feed from MP tray.	F
4411		Duplex sensor 2 stay jam	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 1.
4412	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 2.		F
4413	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).		F
4414	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).		F
4415	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 5 (side multi tray/side deck).		F
4416	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).		F
4417	Duplex sensor 2 (DUS2) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).		F
4418	Duplex sensor 2 (DUS2) does not turn off during paper feed from duplex section.		F
4419	Duplex sensor 2 (DUS2) does not turn off during paper feed from MP tray.		F

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>4601</b>	Eject full sensor non arrival jam	Eject full sensor (EFS) does not turn on during paper feed from cassette 1.	G
<b>4602</b>		Eject full sensor (EFS) does not turn on during paper feed from cassette 2.	G
<b>4603</b>		Eject full sensor (EFS) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
<b>4604</b>		Eject full sensor (EFS) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
<b>4605</b>		Eject full sensor (EFS) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	G
<b>4606</b>		Eject full sensor (EFS) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>4607</b>		Eject full sensor (EFS) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>4608</b>		Eject full sensor (EFS) does not turn on during paper feed from duplex section.	G
<b>4609</b>		Eject full sensor (EFS) does not turn on during paper feed from MP tray.	G
<b>4611</b>	Eject full sensor stay jam	Eject full sensor (EFS) does not turn off during paper feed from cassette 1.	G
<b>4612</b>		Eject full sensor (EFS) does not turn off during paper feed from cassette 2.	G
<b>4613</b>		Eject full sensor (EFS) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
<b>4614</b>		Eject full sensor (EFS) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
<b>4615</b>		Eject full sensor (EFS) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	G
<b>4616</b>		Eject full sensor (EFS) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>4617</b>		Eject full sensor (EFS) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>4618</b>		Eject full sensor (EFS) does not turn off during paper feed from duplex section.	G
<b>4619</b>		Eject full sensor (EFS) does not turn off during paper feed from MP tray.	G

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>4701</b>	Switchback sensor non arrival jam	Switchback sensor (SBS) does not turn on during paper feed from cassette 1.	G
<b>4702</b>		Switchback sensor (SBS) does not turn on during paper feed from cassette 2.	G
<b>4703</b>		Switchback sensor (SBS) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
<b>4704</b>		Switchback sensor (SBS) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
<b>4705</b>		Switchback sensor (SBS) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	G
<b>4706</b>		Switchback sensor (SBS) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>4707</b>		Switchback sensor (SBS) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>4708</b>		Switchback sensor (SBS) does not turn on during paper feed from duplex section.	G
<b>4709</b>		Switchback sensor (SBS) does not turn on during paper feed from MP tray.	G
<b>4711</b>	Switchback sensor stay jam	Switchback sensor (SBS) does not turn off during paper feed from cassette 1.	G
<b>4712</b>		Switchback sensor (SBS) does not turn off during paper feed from cassette 2.	G
<b>4713</b>		Switchback sensor (SBS) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
<b>4714</b>		Switchback sensor (SBS) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
<b>4715</b>		Switchback sensor (SBS) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	G
<b>4716</b>		Switchback sensor (SBS) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>4717</b>		Switchback sensor (SBS) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>4718</b>		Switchback sensor (SBS) does not turn off during paper feed from duplex section.	G
<b>4719</b>		Switchback sensor (SBS) does not turn off during paper feed from MP tray.	G

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).



Code	Contents	Conditions	Jam location*
4901	BR conveying sensor 1 non arrival jam	BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 1.	G
4902		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 2.	G
4903		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
4904		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
4905		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	G
4906		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
4907		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
4908		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from duplex section.	G
4909		BR conveying sensor 1 (BRCS1) does not turn on during paper feed from MP tray.	G
4911	BR conveying sensor 1 stay jam	BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 1.	G
4912		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 2.	G
4913		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
4914		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
4915		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	G
4916		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
4917		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
4918	BR conveying sensor 1 stay jam	BR conveying sensor 1 (BRCS1) does not turn off during paper feed from duplex section.	G
4919		BR conveying sensor 1 (BRCS1) does not turn off during paper feed from MP tray.	G
5001	BR conveying sensor 2 non arrival jam	BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 1.	G
5002		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 2.	G
5003		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
5004		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
5005		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	G
5006		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
5007		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
5008		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from duplex section.	G
5009		BR conveying sensor 2 (BRCS2) does not turn on during paper feed from MP tray.	G
5011		BR conveying sensor 2 stay jam	BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 1.
5012	BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 2.		G
5013	BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).		G
5014	BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).		G
5015	BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 5 (side multi tray/side deck).		G

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

<b>Code</b>	<b>Contents</b>	<b>Conditions</b>	<b>Jam location*</b>
<b>5016</b>	BR conveying sensor 2 stay jam	BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>5017</b>		BR conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>5018</b>		BR conveying sensor 2 (BRCS2) does not turn off during paper feed from duplex section.	G
<b>5019</b>		BR conveying sensor 2 (BRCS2) does not turn off during paper feed from MP tray.	G
<b>5101</b>	BR eject sensor non arrival jam	BR eject sensor (BRES) does not turn on during paper feed from cassette 1.	G
<b>5102</b>		BR eject sensor (BRES) does not turn on during paper feed from cassette 2.	G
<b>5103</b>		BR eject sensor (BRES) does not turn on during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
<b>5104</b>		BR eject sensor (BRES) does not turn on during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
<b>5105</b>		BR eject sensor (BRES) does not turn on during paper feed from cassette 5 (side multi tray/side deck).	G
<b>5106</b>		BR eject sensor (BRES) does not turn on during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
<b>5107</b>		BR eject sensor (BRES) does not turn on during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
<b>5108</b>		BR eject sensor (BRES) does not turn on during paper feed from duplex section.	G
<b>5109</b>		BR eject sensor (BRES) does not turn on during paper feed from MP tray.	G

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
5111	BR eject sensor stay jam	BR eject sensor (BRES) does not turn off during paper feed from cassette 1.	G
5112		BR eject sensor (BRES) does not turn off during paper feed from cassette 2.	G
5113		BR eject sensor (BRES) does not turn off during paper feed from cassette 3 (paper feeder/large capacity feeder).	G
5114		BR eject sensor (BRES) does not turn off during paper feed from cassette 4 (paper feeder/large capacity feeder).	G
5115		BR eject sensor (BRES) does not turn off during paper feed from cassette 5 (side multi tray/side deck).	G
5116		BR eject sensor (BRES) does not turn off during paper feed from cassette 6 (side paper feeder/side large capacity feeder).	G
5117		BR eject sensor (BRES) does not turn off during paper feed from cassette 7 (side paper feeder/side large capacity feeder).	G
5118		BR eject sensor (BRES) does not turn off during paper feed from duplex section.	G
5119		BR eject sensor (BRES) does not turn off during paper feed from MP tray.	G
6000		DF paper entry error	DF paper entry sensor (DFPES) turns on before the eject signal is output from the machine (4000-sheet finisher).
6001	DF paper entry sensor (DFPES) turns on before the eject signal is output from the machine (1000-sheet finisher).		H
6020	DF front cover open	DF front upper cover is opened during operation (4000-sheet finisher).	H
6021		DF front cover is opened during operation (1000-sheet finisher).	H
6041	DF top cover open	DF top cover is opened during operation (1000-sheet finisher).	H
6050	CF eject cover open	CF eject cover is opened during operation (4000-sheet finisher).	H
6060	MB cover open	MB cover is opened during operation (4000-sheet finisher).	H
6070	Center folding unit open	Center folding unit is opened during operation (4000-sheet finisher).	H
6080	CF left guide open	CF left guide is opened during operation (4000-sheet finisher).	H

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
6100	DF paper entry sensor non arrival jam	DF paper entry sensor (DFPES) is not turned on even if a specified time has elapsed after the machine eject signal was received (4000-sheet finisher).	H
6101		DF paper entry sensor (DFPES) is not turned on even if a specified time has elapsed after the machine eject signal was received (1000-sheet finisher).	H
6110	DF paper entry sensor stay jam	DF paper entry sensor (DFPES) is not turned off within specified time of its turning on (4000-sheet finisher).	H
6111		DF paper entry sensor (DFPES) is not turned off within specified time of its turning on (1000-sheet finisher).	H
6200	DF sub eject sensor non arrival jam	DF sub eject sensor (DFSES) does not turn on within specified time of DF paper entry sensor (DFPES) turning on.	H
6210	DF sub eject sensor stay jam	DF sub eject sensor (DFSES) is not turned off within specified time of its turning on.	H
6300	DF middle eject sensor non arrival jam	DF middle eject sensor (DFMES) does not turn on within specified time of DF paper entry sensor (DFPES) turning on (4000-sheet finisher).	H
6301		DF middle eject sensor (DFMES) does not turn on within specified time of DF paper entry sensor (DFPES) turning on (1000-sheet finisher).	H
6310	DF middle eject sensor stay jam	DF middle eject sensor (DFMES) is not turned off within specified time of its turning on (4000-sheet finisher).	H
6311		DF middle eject sensor (DFMES) is not turned off within specified time of its turning on (1000-sheet finisher)	H

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
6400	DF tray upper surface sensor non arrival jam	DF tray upper surface sensor (DFTUSS) does not turn on within specified time of DF middle eject sensor (DFMES) turning on (4000-sheet finisher).	H
6401		DF tray upper surface sensor (DFTUSS) does not turn on within specified time of DF middle eject sensor (DFMES) turning on (1000-sheet finisher).	H
6410	DF tray upper surface sensor stay jam	DF tray upper surface sensor (DFTUSS) is not turned off within specified time of its turning on (4000-sheet finisher).	H
6411		DF tray upper surface sensor (DFTUSS) is not turned off within specified time of its turning on (1000-sheet finisher).	H
6500	DF bundle discharge sensor non arrival jam	DF bundle discharge sensor (DFBDS) does not turn on within specified time of DF middle eject sensor (DFMES) turning on.	H
6510	DF bundle discharge sensor stay jam	DF bundle discharge sensor (DFBDS) is not turned off since the bundle discharge starts (4000-sheet finisher).	H
6511		DF bundle discharge sensor (DFBDS) is not turned off since the bundle discharge starts (1000-sheet finisher).	H
6600	DF drum sensor non arrival jam	DF drum sensor (DFDRS) does not turn on within specified time of DF paper entry sensor (DFPES) turning on.	H
6610	DF drum sensor stay jam	DF drum sensor (DFDRS) is not turned off within specified time of its turning on.	H
6710	Center folding unit stay jam	During paper conveying to center folding unit, DF drum sensor (DFDRS) is not turned off within specified time of its turning on.	H
6810	DF side registration sensor 1 stay jam	DF side registration sensor 1 (DFSRS1) is not turned off within specified time after driving the DF side registration motor 1 (DFSRM1) (4000-sheet finisher).	H
6811		DF side registration sensor 1 (DFSRS1) is not turned off within specified time after driving the DF side registration motor 1 (DFSRM1) (1000-sheet finisher).	H
6910	DF side registration sensor 2 stay jam	DF side registration sensor 2 (DFSRS2) is not turned off within specified time after driving the DF side registration motor 2 (DFSRM2) (4000-sheet finisher).	H
6811		DF side registration sensor 2 (DFSRS2) is not turned off within specified time after driving the DF side registration motor 2 (DFSRM2) (1000-sheet finisher).	H

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
7000	DF staple operation error	DF staple sensor (DFSTS) is not turned on within specified time after driving the DF staple motor (DFSTM) (4000-sheet finisher).	H
7001		DF staple sensor (DFSTS) is not turned on within specified time after driving the DF staple motor (DFSTM) (1000-sheet finisher).	H
7100	CF paper entry sensor non arrival jam	CF paper entry sensor (CFPES) is not turned on even if a specified time has elapsed after the machine eject signal was received.	H
7110	CF paper entry sensor stay jam	CF paper entry sensor (CFPES) is not turned off within specified time of its turning on.	H
7200	CF eject sensor non arrival jam	CF eject sensor (CFES) is not turned on within specified time since centerfold operation starts.	H
7210	CF eject sensor stay jam	During centerfold operation, CF eject sensor (CFES) is not turned off within specified time of its turning on.	H
7300	CF eject sensor non arrival jam	CF eject sensor (CFES) is not turned on within specified time since three fold operation starts.	H
7310	CF eject sensor stay jam	During three fold operation, CF eject sensor (CFES) is not turned off within specified time of its turning on.	H
7400	CF side registration sensor 2 non arrival jam	CF side registration sensor 2 (CFSRS2) is not turned on within specified time after driving the CF side registration motor 2 (CFSRM2).	H
7500	CF side registration sensor 1 non arrival jam	CF side registration sensor 1 (CFSRS1) is not turned on within specified time after driving the CF side registration motor 1 (CFSRM1).	H
7600	CF staple operation error	CF staple sensor (CFSTS) is not turned on within specified time after driving the CF staple motor (CFSTM).	H
7700	CF paper conveying sensor non arrival jam	CF paper conveying sensor (CFPCS) is not turned on even if a specified time has elapsed after the machine eject signal was received.	H
7710	CF paper conveying sensor stay jam	CF paper conveying sensor (CFPCS) is not turned off within specified time of its turning on.	H
7800	MB eject sensor non arrival jam	MB eject sensor (MBES) is not turned on even if a specified time has elapsed after the machine eject signal was received.	I
7810	MB eject sensor stay jam	MB eject sensor (MBES) is not turned off within specified time of its turning on.	I
7950	Paper interval error jam	An illegal inter-page or inter-print interval has occurred (4000-sheet finisher).	H
7951		An illegal inter-page or inter-print interval has occurred (1000-sheet finisher).	H

\*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

## 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.

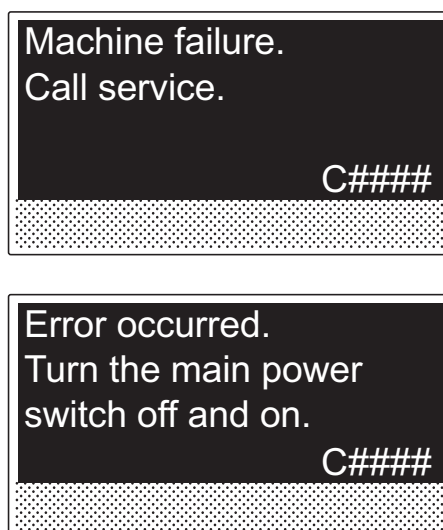


Figure 1-4-3



## (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
0100	<b>Backup memory device error</b>	Defective EEPROM.	Replace the main PWB and check for correct operation (see page 1-5-44).
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-44).
0120	<b>MAC address data error</b> For data in which the MAC address is invalid.	Defective EEPROM.	Replace the main PWB and check for correct operation (see page 1-5-44).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
0150	<b>Backup memory read/write error (engine PWB)</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated 5 times successively. Mismatch of reading data from 2 locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	Improper installation 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 1-5-49).
		Device damage of EEPROM.	Contact the Service Administrative Division.
0160	<b>Backup memory data error (engine PWB)</b> Reading data from EEPROM is abnormal.	Data damage of EEPROM.	Contact the Service Administrative Division.
0170	<b>Billing counting error</b> 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 DF main PWB or the engine PWB and check for correct operation. (see page 1-5-44,1-5-49)
0180	<b>Machine number mismatch</b> Machine number of main and engine does not match.	Data damage of EEPROM.	Contact the Service Administrative Division.
0640	<b>Hard disk error</b> The hard disk cannot be accessed.	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.
		Defective hard disk.	Run U024 (HDD formatting) without turning the power off to initialize the hard disk. Replace the hard disk drive and check for correct operation if the problem is still detected after initialization.
		Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-44).

Code	Contents	Causes	Check procedures/ corrective measures
0800	<b>Image processing error</b> JAM010X is detected twice.	Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-44).
0840	<b>Faults of RTC</b> 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 1-5-44).
		* : Once detected, turning the main power switch off and on lets the machine in disconnection mode, displaying Maintenance T.Execute U906 to reset.	
0970	<b>12 V power down detect</b> Power is disconnected during sleepingDetection of the temporary blackout during sleeping (24V is off, 23V is on, only the controller software is running).	Defective power source PWB.	Replace the power source PWB and check for correct operation.
0980	<b>24 V power down detect</b> <b>24V disconnection signal is detected for 1 s and 12V disconnection signal is not detected.</b>	Defective power source PWB.	Replace the power source PWB and check for correct operation.
1000	<b>MP lift motor error</b> After the MP lift motor is driven, the ON status of MP lift sensors 1 and 2 cannot be detected for 3 s.	Defective MP plate elevation mechanism.	Check to see if the MP 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. MP lift motor and relay PWB (YC3) Relay PWB (YC12) and feed PWB 1 (YC17) Feed PWB 1 (YC1) and engine PWB (YC6)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective MP lift motor.	Replace the MP lift motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>1010</b>	<b>Lift motor 1 error</b> After cassette 1 is inserted, lift sensor 1 does not turn on within 12 s. This error is detected 5 times successively. The lock signal of the motor is detected continuously for 1 s. This error is detected 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 1 and feed PWB 2 (YC3) Feed PWB 2 (YC1) and engine PWB (YC4)
		Defective drive transmission system of 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 1.	Replace the lift motor 1.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>1020</b>	<b>Lift motor 2 error</b> After cassette 2 is inserted, lift sensor 2 does not turn on within 12 s. This error is detected 5 times successively. The lock signal of the motor is detected continuously for 1 s. This error is detected 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 2 and feed PWB 2 (YC3) Feed PWB 2 (YC1) and engine PWB (YC4)
		Defective drive transmission system of 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 2.	Replace the lift motor 2.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>1030</b>	<b>PF lift motor 1 error (paper feeder)</b> After cassette 3 is inserted, PF lift sensor 1 does not turn on within 12 s. This error is detected 5 times successively. During driving the motor, the lift overcurrent protective monitor signal is detected for 1 s or more 5 times successively. However, the first 1 s after motor is turned on is excluded from detection.	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 1 and PF main PWB (YC7)
		Defective drive transmission system of 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 1.	Replace the PF lift motor 1.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
<b>1040</b>	<b>PF lift motor 2 error (paper feeder)</b> After cassette 4 is inserted, PF lift sensor 2 does not turn on within 12 s. This error is detected 5 times successively. During driving the motor, the lift overcurrent protective monitor signal is detected for 1 s or more 5 times successively. However, the first 1 s after motor is turned on is excluded from detection.	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 2 and PF main PWB (YC7)
		Defective drive transmission system of 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 2.	Replace the PF lift motor 2.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
<b>1050</b>	<b>SM lift motor error (side multi tray)</b> [45 ppm/55 ppm model] After cassette 5 is inserted, SM lift sensor does not turn on within 12 s. This error is detected 5 times successively. (Time to detect is 2 seconds at the second time and later.) During driving the motor, the lift overcurrent protective monitor signal is detected for 1 s or more 5 times successively. However, the first 1 s after motor is turned on is excluded from detection.	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. SM lift motor and SM main PWB (YC5)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective SM lift motor.	Replace the SM lift motor.
		Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
<b>1060</b>	<b>PF lift motor 1 error (side paper feeder)</b>  After cassette 6 is inserted, PF lift sensor 1 does not turn on within 12 s. This error is detected 5 times successively. (Time to detect is 2 seconds at the second time and later.) During driving the motor, the lift overcurrent protective monitor signal is detected for 1 s or more 5 times successively. However, the first 1 s after motor is turned on is excluded from detection. *:The software over-current protection monitor signal has been detected for 200ms or longer where LFC is installed.	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 1 and PF main PWB (YC7)
		Defective drive transmission system of 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 1.	Replace the PF lift motor 1.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
<b>1070</b>	<b>PF lift motor 2 error (side paper feeder)</b>  After cassette 7 is inserted, PF lift sensor 2 does not turn on within 12 s. This error is detected 5 times successively. (Time to detect is 2 seconds at the second time and later.) During driving the motor, the lift overcurrent protective monitor signal is detected for 1 s or more 5 times successively. However, the first 1 s after motor is turned on is excluded from detection. *:The software over-current protection monitor signal has been detected for 200ms or longer where LFC is installed.	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 2 and PF main PWB (YC7)
		Defective drive transmission system of 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 2.	Replace the PF lift motor 2.
		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
1100	<p><b>PF lift motor 1 error (large capacity feeder)</b> After cassette 3 is inserted, PF lift sensor 1 does not turn on within 23 s. This error is detected 5 times successively. (Time to detect is 2 seconds at the second time and later.) During driving the motor, the lift overcurrent protective monitor signal is detected for 200 ms or more 5 times successively. However, the first 1 s after PF lift motor 1 is turned on is excluded from detection.</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 lift motor 1 and PF main PWB (YC7)
		Defective drive transmission system of 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 1.	Replace the PF lift motor 1.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
1110	<p><b>PF lift motor 2 error (large capacity feeder)</b> After cassette 4 is inserted, PF lift sensor 2 does not turn on within 23 s. This error is detected 5 times successively. (Time to detect is 2 seconds at the second time and later.) During driving the motor, the lift overcurrent protective monitor signal is detected for 200 ms or more 5 times successively. However, the first 1 s after PF lift motor 2 is turned on is excluded from detection.</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 lift motor 2 and PF main PWB (YC7)
		Defective drive transmission system of 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 2.	Replace the PF lift motor 2.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
1140	<p><b>SD lift motor error (side deck)</b> After cassette 5 is inserted, SD lift sensor does not turn on within 30 s. The lock signal of the motor is detected continuously for 200 ms.</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. SD lift motor and SD main PWB (YC8)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective SD lift motor.	Replace the SD lift motor.
		Defective SD main PWB.	Replace the SD main PWB (Refer to the service manual for the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
1250	<b>SM multi feed sensor communication error (side multi tray)</b>  A communication error is detected 3 times in succession.	Improper installation side multi tray.	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. SM main PWB (YC1) and engine PWB (YC19)
		Defective engine PWB.	Replace the engine PWB a1-5-49nd check for correct operation (see page 1-5-49).
		Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).
1350	<b>SM multi feed sensor error (side multi tray)</b>  The SM multi feed sensor has detected multi feeding 5 times successively.	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. SM multi feed sensor and SM main PWB (YC11)
		Defective SM multi feed sensor.	Replace the SM multi feed sensor.
		Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).
1450	<b>SM multi feed sensor backup error (side multi tray)</b>  When writing the data, read and write data does not match 3 times in succession. Deleting a block has failed three times in a row. Writing won't complete in 200 ms after writing has commenced.	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. SM multi feed sensor and SM main PWB (YC11)
		Defective SM multi feed sensor.	Replace the SM multi feed sensor.
		Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).
1800	<b>Paper feeder communication error</b>  A communication error from paper feeder is detected 10 times in succession.	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 (YC13) and engine PWB (YC19)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
		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
1810	<b>Side multi tray communication error</b>  A communication error from paper feeder is detected 10 times in succession.	Improper installation side multi tray.	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. SM main PWB (YC1) and engine PWB (YC19)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
		Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).
1820	<b>Side paper feeder communication error</b>  A communication error from paper feeder is detected 10 times in succession.	Improper installation side 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 (YC13) and SM main PWB (YC4) SM main PWB (YC1) and engine PWB (YC19)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
		Defective SM main PWB.	Replace the SM main PWB (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).
1900	<b>Paper feeder EEPROM error</b> When writing the data, read and write data does not match 3 times in succession.	Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
		Device damage of EEPROM.	Contact the Service Administrative Division.
1910	<b>Side multi tray EEPROM error</b>  When writing the data, read and write data does not match 3 times in succession.	Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).
		Device damage of EEPROM.	Contact the Service Administrative Division.
1920	<b>Side paper feeder EEPROM error</b>  When writing the data, read and write data does not match 3 times in succession.	Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
		Device damage of EEPROM.	Contact the Service Administrative Division.



Code	Contents	Causes	Check procedures/ corrective measures
1950	<b>Transfer belt unit EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated 5 times successively. Mismatch of reading data from 2 locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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. Transfer belt unit and engine PWB (YC3)
		Defective transfer belt unit.	Replace the transfer belt unit and check for correct operation (see 1-5-34).
2101	<b>Developer motor K error</b> After developer motor K is driven, the ready signal does not turn to L within 5 s. After developer motor K is stabilized, the ready signal is at the H level for 5 s continuously.	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. Developer motor K and motor control PWB (YC7) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective developer motor K.	Replace the developer motor K.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2103	<b>Developer motor MCY error</b> After developer motor MCY is driven, the ready signal does not turn to L within 5 s. After developer motor MCY is stabilized, the ready signal is at the H level for 5 s continuously.	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. Developer motor MCY and motor control PWB (YC7) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective developer motor MCY.	Replace the developer motor MCY.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>2201</b>	<b>Drum motor K steady-state error</b> After drum motor K is stabilized, the ready signal is at the H level for 5 s continuously.	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 K and motor control PWB (YC5) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor K.	Replace the drum motor K.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>2202</b>	<b>Drum motor C steady-state error</b> After drum motor C is stabilized, the ready signal is at the H level for 5 s continuously.	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 C and motor control PWB (YC4) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor C.	Replace the drum motor C.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>2203</b>  <b>Drum motor M steady-state error</b>  After drum motor M is stabilized, the ready signal is at the H level for 5 s continuously.		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 M and motor control PWB (YC5) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor M.	Replace the drum motor M.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>2204</b>  <b>Drum motor Y steady-state error</b>  After drum motor Y is stabilized, the ready signal is at the H level for 5 s continuously.		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 Y and motor control PWB (YC4) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor Y.	Replace the drum motor Y.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>2211</b>	<b>Drum motor K startup error</b> Drum motor K is not stabilized within 5 s since the motor is activated.	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 K and motor control PWB (YC5) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor K.	Replace the drum motor K.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>2212</b>	<b>Drum motor C startup error</b> Drum motor C is not stabilized within 5 s since the motor is activated.	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 C and motor control PWB (YC4) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor C.	Replace the drum motor C.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>2213</b>	<b>Drum motor M startup error</b>  Drum motor M is not stabilized within 5 s since the motor is activated.	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 M and motor control PWB (YC5) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor M.	Replace the drum motor M.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>2214</b>	<b>Drum motor Y startup error</b>  Drum motor Y is not stabilized within 5 s since the motor is activated.	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 Y and motor control PWB (YC4) Motor control PWB (YC3) and engine PWB (YC9)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective drum motor Y.	Replace the drum motor Y.
		Defective Motor control PWB.	Replace the Motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>2300</b>	<b>Fuser motor error</b> After fuser motor is driven, the ready signal does not turn to L within 2 s. After fuser motor is stabilized, the ready signal is at the H level for 1 s continuously.	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 feed PWB 1 (YC18) Feed PWB 1 (YC1) and engine PWB (YC6)
		Defective drive transmission system of motor.	Check if the 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 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>2500</b>	<b>Paper feed motor error</b> After paper feed motor is driven, the ready signal does not turn to L within 2 s. After paper feed motor is stabilized, the ready signal is at the H level for 1 s continuously.	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 feed PWB 2 (YC2) Feed PWB 2 (YC1) and engine PWB (YC4)
		Defective drive transmission system of motor.	Check if the 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 1-5-49).
<b>2600</b>	<b>PF paper feed motor error (large capacity feeder)</b> After PF paper feed motor is driven, the ready signal does not turn to L within 2 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. PF paper feed motor and PF main PWB (YC16)
		Defective drive transmission system of motor.	Check if the 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).
<b>2610</b>	<b>PF paper feed motor error (paper feeder)</b>  After PF paper feed motor is driven, the ready signal does not turn to L within 2 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. PF paper feed motor and PF main PWB (YC16)
		Defective drive transmission system of motor.	Check if the 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
<b>2640</b> <b>SD paper feed motor error (side deck)</b>  After SD paper feed motor is driven, the ready signal does not turn to L within 2 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. SD paper feed motor and SD main PWB (YC16)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective SD paper feed motor.	Replace the SD paper feed motor.
		Defective SD main PWB.	Replace the SD main PWB (Refer to the service manual for the paper feeder).
<b>2650</b> <b>SM paper feed motor error (side multi tray)</b>  After SM paper feed motor is driven, the ready signal does not turn to L within 2 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. SM paper feed motor and SM main PWB (YC5)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective SM paper feed motor.	Replace the SM paper feed motor.
		Defective SM main PWB.	Replace the SM main PWB (Refer to the service manual for the paper feeder).
<b>2660</b> <b>PF paper feed motor error (side large capacity feeder)</b>  After PF paper feed motor is driven, the ready signal does not turn to L within 2 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. PF paper feed motor and PF main PWB (YC16)
		Defective drive transmission system of motor.	Check if the 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
2670	<b>PF paper feed motor error (side paper feeder)</b>  After PF paper feed motor is driven, the ready signal does not turn to L within 2 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. PF paper feed motor and PF main PWB (YC16)
		Defective drive transmission system of motor.	Check if the 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).
2700	<b>Color release motor error</b> When the color release motor is driven, the color release sensor does not turn on/off for 5 s.	Defective connector cable or poor contact in the connector.	Reinsert the transfer belt unit connector if necessary. Check for continuity within the harness and, if none, replace the harness. Color release motor and engine PWB (YC3)
		Defective drive transmission system of motor.	Replace the transfer belt unit.
		Defective color release motor.	Replace the transfer belt unit.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2730	<b>Transfer release motor error</b> When the transfer release motor is driven, the transfer release sensor does not turn on/off for 5 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. Transfer release motor and relay PWB (YC14) Relay PWB (YC14) and feed PWB 1 (YC14) Feed PWB 1 (YC1) and engine PWB (YC6)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective transfer release motor.	Replace the transfer release motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).



Code	Contents	Causes	Check procedures/ corrective measures
2760	<b>Transfer motor startup error</b> Transfer motor is not stabilized within 5 s since the motor is activated.	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. Transfer motor and feed PWB 1 (YC13) Feed PWB 1 (YC2) and engine PWB (YC5)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective transfer motor.	Replace the transfer motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2770	<b>Transfer skew error</b> An abnormal value is detected to transfer skew sensor.	Improper installation transfer belt unit.	Reinstall the transfer belt unit.
		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. Transfer belt unit and engine PWB (YC3)
		Defective transfer skew sensor.	Replace the transfer belt unit.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2780	<b>Transfer skew sensor error</b> An abnormal value is detected to transfer skew sensor.	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. Transfer belt unit and engine PWB (YC3)
		Defective transfer skew sensor.	Replace the transfer belt unit.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2790	<b>Transfer skew motor error</b> When the transfer skew motor is driven, timeouts (300 ms) were detected twice in a row.	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. Transfer skew motor and engine PWB (YC3)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective transfer skew motor.	Replace the transfer skew motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
2810	<b>Waste toner motor error</b> Initialized when an error is constantly observed for 2 s after the waste toner motor is activated. An error is constantly observed for 2.5 s after rebooting. The lock detect signal won't be H level three times in a row within 200 ms at 1.25 ms cycles after the waste toner motor has been driven.	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. Waste toner motor and front PWB (YC16) Front PWB (YC3) and engine PWB (YC7)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective waste toner motor.	Replace the waste toner motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2820	<b>Transfer motor steady-state error</b> After transfer motor is stabilized, the ready signal is at the H level for 5 s continuously. The counter value obtained by timer capture is lower than 2200 for 10 times in a row.	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. Transfer motor and feed PWB 1 (YC13) Feed PWB 1 (YC2) and engine PWB (YC5)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective transfer motor.	Replace the transfer motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2840	<b>Transfer cleaning motor error</b> After transfer cleaning motor is driven, the ready signal does not turn to L within 2 s. After transfer cleaning motor is stabilized, the ready signal is at the H level for 1 s continuously.	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. Transfer cleaning motor and engine PWB (YC3)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective transfer cleaning motor.	Replace the transfer cleaning motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
2850	<b>Transfer belt motor sensor error</b> The signal is not received for 100 ms in succession.	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. Transfer motor and feed PWB (YC13) Feed PWB (YC1) to engine PWB(YC6)
		Defective transfer motor.	Replace the transfer motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2860	<b>Transfer belt sensor error</b> The signal is not received for 100 ms in succession.	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. Transfer belt sensor and engine PWB (YC3)
		Defective transfer belt sensor.	Replace the transfer belt sensor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
2950	<b>Motor control PWB communication error</b> A communication error from the motor control PWB is detected 10 times in succession.	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. Motor control PWB (YC3) and engine PWB (YC9)
		Defective motor control PWB.	Replace the motor control PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4001	<b>Polygon motor K synchronization error</b> After polygon motor K is driven, the ready signal does not turn to L within 30 s. The polygon motor speed won't stabilize within 10 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. Polygon motor K and LSU relay PWB (YC4) LSU relay PWB (YC4) and engine PWB (YC12)
		Defective polygon motor K.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
4002	<b>Polygon motor C synchronization error</b> After polygon motor C is driven, the ready signal does not turn to L within 30 s. The polygon motor speed won't stabilize within 10 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. Polygon motor C and LSU relay PWB (YC9) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective polygon motor C.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4003	<b>Polygon motor M synchronization error</b> After polygon motor M is driven, the ready signal does not turn to L within 30 s. The polygon motor speed won't stabilize within 10 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. Polygon motor M and LSU relay PWB (YC7) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective polygon motor M.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4004	<b>Polygon motor Y synchronization error</b> After polygon motor Y is driven, the ready signal does not turn to L within 30 s. The polygon motor speed won't stabilize within 10 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. Polygon motor Y and LSU relay PWB (YC11) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective polygon motor Y.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4011	<b>Polygon motor K steady-state error</b> After polygon motor K is stabilized, the ready signal is at the H level for 15 s continuously.	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. Polygon motor K and LSU relay PWB (YC4) LSU relay PWB (YC4) and engine PWB (YC12)
		Defective polygon motor K.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
4012	<b>Polygon motor C steady-state error</b> After polygon motor C is stabilized, the ready signal is at the H level for 15 s continuously.	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. Polygon motor C and LSU relay PWB (YC9) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective polygon motor C.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4013	<b>Polygon motor M steady-state error</b> After polygon motor M is stabilized, the ready signal is at the H level for 15 s continuously.	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. Polygon motor M and LSU relay PWB (YC7) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective polygon motor M.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4014	<b>Polygon motor Y steady-state error</b> After polygon motor Y is stabilized, the ready signal is at the H level for 15 s continuously.	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. Polygon motor Y and LSU relay PWB (YC11) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective polygon motor Y.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4101	<b>BD initialization error K</b> After polygon motor K is driven, the BD signal is not detected 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. Laser scanner unit and LSU relay PWB (YC5) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB K.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
4102	<b>BD initialization error C</b> After polygon motor C is driven, the BD signal is not detected 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. Laser scanner unit and LSU relay PWB (YC10) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB C.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4103	<b>BD initialization error M</b> After polygon motor M is driven, the BD signal is not detected 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. Laser scanner unit and LSU relay PWB (YC8) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB M.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4104	<b>BD initialization error Y</b> After polygon motor Y is driven, the BD signal is not detected 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. Laser scanner unit and LSU relay PWB (YC12) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB Y.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4201	<b>BD steady-state error K</b> The BD signal is not 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. Laser scanner unit and LSU relay PWB (YC5) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB K.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
4202	<b>BD steady-state error C</b> The BD signal is not 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. Laser scanner unit and LSU relay PWB (YC10) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB C.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4203	<b>BD steady-state error M</b> The BD signal is not 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. Laser scanner unit and LSU relay PWB (YC8) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB M.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4204	<b>BD steady-state error Y</b> The BD signal is not 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. Laser scanner unit and LSU relay PWB (YC12) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective PD PWB Y.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
4300	<b>Polygon motor phase error</b> ASIC won't settle in completion of phase adjustment for 2 s after a BD signal is detected.	Defective laser scanner unit.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>4600</b>	<b>LSU cleaning motor error</b> After LSU cleaning motor is driven, the ready signal does not turn to L within 2 s. After LSU cleaning motor is stabilized, the ready signal is at the H level for 1 s continuously.	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 (YC21)
		Defective drive transmission system of motor.	Check if the 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 1-5-49).
<b>5101</b>	<b>Main high-voltage error K</b> Measure the inflowing current when Vpp is varied in 3 steps and verify if the difference of the currents of 0 and step 2 is less than 42 (51 if lower high-voltage board).	Improper installation charger roller unit K.	Reinstall the charger roller 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. High voltage PWB 1 (YC4) and engine PWB (YC17)
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 and check for correct operation (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>5102</b>	<b>Main high-voltage error C</b> Measure the inflowing current when Vpp is varied in 3 steps and verify if the difference of the currents of 0 and step 2 is less than 42 (51 if lower high-voltage board).	Improper installation charger roller unit C.	Reinstall the charger roller 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. High voltage PWB 1 (YC2) and engine PWB (YC16)
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 and check for correct operation (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).



Code	Contents	Causes	Check procedures/ corrective measures
5103	<b>Main high-voltage error M</b> Measure the inflowing current when Vpp is varied in 3 steps and verify if the difference of the currents of 0 and step 2 is less than 42 (51 if lower high-voltage board).	Improper installation charger roller unit M.	Reinstall the charger roller 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. High voltage PWB 1 (YC3) and engine PWB (YC17)
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 and check for correct operation (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
5104	<b>Main high-voltage error Y</b> Measure the inflowing current when Vpp is varied in 3 steps and verify if the difference of the currents of 0 and step 2 is less than 42 (51 if lower high-voltage board).	Improper installation charger roller unit Y.	Reinstall the charger roller 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. High voltage PWB 1 (YC1) and engine PWB (YC16)
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 and check for correct operation (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6000	<b>Broken fuser heater wire</b> Fuser thermistor 1 does not reach 100° C/212 °F even after 60 s during warming up. The detected temperature of fuser thermistor 1 does not reach the specified temperature (ready indication temperature) for 420 s in warming up after reached to 100° C/212 °F.	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 (YC3) and fuser IH PWB (YC1) Fuser IH PWB (YC4) and engine PWB (YC26)
		Fuser thermostat triggered.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6020	<b>Abnormally high fuser thermistor 1 temperature</b> Fuser thermistor 1 detects a temperature higher than 240°C/464°F 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 engine PWB (YC26)
		Shorted fuser thermistor 1.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6030	<b>Broken fuser thermistor 1 wire</b> Input from fuser thermistor 1 is 984 or more (A/D value) continuously for 1 s. Verify if A/D read in the differential output won't change by 4 or more when it was turned on for 10 seconds in a low-temperature environment.	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 engine PWB (YC26)
		Broken fuser thermistor 1 wire.	Replace the fuser unit (see page 1-5-40).
		Fuser thermostat triggered.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6040	<b>Fuser heater error</b> Input from fuser thermistor 1 is abnormal 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 engine PWB (YC26)
		Broken fuser thermistor 1 wire.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6050	<b>Abnormally low fuser thermistor 1 temperature</b> Fuser thermistor 1 detects a temperature lower than 100°C/212°F for 1 s after warming up, during ready or during print. Fuser thermistor 1 detects a temperature lower than 70°C/158°F for 1 s during low power mode.	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 engine PWB (YC26)
		Defective fuser thermistor 1.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6120	<b>Abnormally high fuser thermistor 4 temperature</b> Fuser thermistor 4 detects a temperature higher than 190°C/374°F 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 engine PWB (YC26)
		Shorted fuser thermistor 4.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6130	<b>Broken fuser thermistor 4 wire</b> Input from fuser thermistor 4 is 992 or more (A/D value) continuously for 60 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 engine PWB (YC26)
		Broken fuser thermistor 4 wire.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6150	<b>Abnormally low fuser thermistor 4 temperature</b> Fuser thermistor 4 detects a temperature lower than 30°C/86°F for 1 s after warming up.	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 engine PWB (YC26)
		Defective fuser thermistor 4.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6200	<b>Broken fuser edge heater wire</b> Fuser thermistor 2 does not reach 100° C/212 °F even after 60 s during warming up. The detected temperature of fuser thermistor 2 does not reach the specified temperature (ready indication temperature) for 420 s in warming up after reached to 100° C/212 °F.	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 (YC3) and fuser IH PWB (YC1) Fuser IH PWB (YC4) and engine PWB (YC26)
		Fuser thermostat triggered.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6220	<b>Abnormally high fuser thermistor 2 temperature</b> Fuser thermistor 2 detects a temperature higher than 245°C/473°F 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 engine PWB (YC26)
		Shorted fuser thermistor 2.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6230	<b>Broken fuser thermistor 2 wire</b> The Input signal from the fuser thermistor 2 is 992 or more (A/D value) continuously for 1 s when the temperature at the fuser thermistor 1 is greater than 100°C/212°F during warming up.	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 engine PWB (YC26)
		Broken fuser thermistor 2 wire.	Replace the fuser unit (see page 1-5-40).
		Fuser thermostat triggered.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6250	<b>Abnormally low fuser thermistor 2 temperature</b> Fuser thermistor 2 detects a temperature lower than 100°C/212°F for 1 s during ready or print. Fuser thermistor 2 detects a temperature lower than 50°C/122°F for 1 s during warming up.	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 engine PWB (YC26)
		Defective fuser thermistor 2.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6320	<b>Abnormally high fuser thermistor 3 temperature</b> Fuser thermistor 3 detects a temperature higher than 205°C/401°F 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 engine PWB (YC26)
		Shorted fuser thermistor 3.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6330	<b>Broken fuser thermistor 3 wire</b> Fuser thermistor 3 detects a temperature lower than 20°C/68°F 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 engine PWB (YC26)
		Broken fuser thermistor 3 wire.	Replace the fuser unit (see page 1-5-40).
		Fuser thermostat triggered.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6600	<b>Fuser belt rotation error</b> A belt rotating pulse is not received for 1 s. (Engine CPU)	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 engine PWB (YC26)
		Defective fuser belt sensor.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6610	<b>Fuser release motor error</b> When the fuser release motor is driven, the fuser release sensor does not turn on/off for 5 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 engine PWB (YC26)
		Defective drive transmission system of motor.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective fuser release motor.	Replace the fuser unit (see page 1-5-40).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6710	<b>Fuser IH PWB CPU reset error</b> Watch doc timer has been overflowed.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6720	<b>Fuser IH belt rotation error</b> A belt rotating pulse is not received for 2 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 engine PWB (YC26)
		Defective fuser belt sensor.	Replace the fuser unit (see page 1-5-40).
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6730	<b>Abnormally high fuser IH PWB temperature 1</b> The input detect temperature is greater than 105°C/221 °F.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6740	<b>Abnormally high fuser IH PWB temperature 2</b> The input detect temperature is greater than 105°C/221 °F.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6750	<b>Fuser IH output over-current error</b> The output current is greater than 90A for 10 ms in succession.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6760	<b>Fuser IH input over-current error</b> The input current is greater than 20A(100V/120V), 10A(200V) for 100 ms in succession.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6770	<b>Fuser IH low electric power error</b> The preset power is less than 0.6 times of it for 120 ms in succession.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6900	<b>Fuser belt cooling fan error</b> When the fuser edge fan motor 1, 2 is driven, alarm signal is detected for 5 s continuously.	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 edge fan motor 1 and front PWB (YC26)  Fuser edge fan motor 2 and fuser PWB (YC2) Fuser PWB (YC1) and engine PWB (YC26)
		Defective fuser edge fan motor 1 or 2.	Replace the fuser edge fan motor 1 or 2.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6910	<b>Engine software ready error</b> The device won't engage in ready state in 60 minutes after warming-up has began.	Defective engine software.	Install the engine software.
		Defective engine PWB.	Replace the engine PWB and check for correct operation(see page 1-5-49).
6920	<b>Fuser front fan motor error</b> When the fuser front fan motor is driven, alarm signal is detected for 5 s continuously.	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 front fan motor and engine PWB (YC26)
		Defective fuser front fan motor.	Replace fuser front fan motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6930	<b>Fuser rear fan motor error</b> When the fuser rear fan motor is driven, alarm signal is detected for 5 s continuously.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, Fuser rear fan motor and fuser PWB (YC2) Fuser PWB (YC1) and engine PWB (YC26)
		Defective fuser rear fan motor.	Replace fuser rear fan motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6940	<b>IH fan motor error</b> When the IH fan motor is driven, the alarm signal is detected for 5 s continuously.	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. IH fan motor and feed PWB 1 (YC11) Feed PWB 1 (YC2) and engine PWB (YC5)
		Defective IH fan motor.	Replace the IH fan motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
6950	<b>Fuser IH PWB communication error</b> No response is received in 30 ms since a command is sent to IHCPU. A checksum error is detected 10 times in succession.	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 IH PWB (YC4) and engine PWB (YC26)
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
6960	<b>Current PWB error</b> Less than 1A is continuously observed for 5 s.	Defective current PWB.	Replace the current PWB and check for correct operation.
6990	<b>Fuser power supply incompatibility</b> Information won't match between the engine backup and the fuser IH PWB.	Differences in settings after initialization	When this has happened after initialization using U201, make settings identical with the voltages on the IH PWB using U169.
		Defective fuser IH PWB.	Replace the fuser IH PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
		Data damage of EEPROM.	Contact the Service Administrative Division.
7001	<b>Toner motor K error</b> When the toner motor K is driven, the pulse sensor is not detected for 15 times in 200 ms intervals has occurred in 15 times. During the toner motor is driven, an event in which TMOT_LOCK turns to H (locked) 5 times has occurred in 15 sets.	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 (YC27)
		Defective screw sensor K.	Replace the screw sensor K.
		Defective toner motor K.	Replace the toner motor K.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7002	<b>Toner motor C error</b> When the toner motor K is driven, the pulse sensor is not detected for 15 times in 200 ms intervals has occurred in 15 times. During the toner motor is driven, an event in which TMOT_LOCK turns to H (locked) 5 times has occurred in 15 sets.	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 (YC27)
		Defective screw sensor C.	Replace the screw sensor C.
		Defective toner motor C.	Replace the toner motor C.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).



Code	Contents	Causes	Check procedures/ corrective measures
<b>7003</b>	<b>Toner motor M error</b> When the toner motor K is driven, the pulse sensor is not detected for 15 times in 200 ms intervals has occurred in 15 times. During the toner motor is driven, an event in which TMOT_LOCK turns to H (locked) 5 times has occurred in 15 sets.	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 (YC27)
		Defective screw sensor M.	Replace the screw sensor M.
		Defective toner motor M.	Replace the toner motor M.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>7004</b>	<b>Toner motor Y error</b> When the toner motor K is driven, the pulse sensor is not detected for 15 times in 200 ms intervals has occurred in 15 times. During the toner motor is driven, an event in which TMOT_LOCK turns to H (locked) 5 times has occurred in 15 sets.	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 (YC27)
		Defective screw sensor Y.	Replace the screw sensor Y.
		Defective toner motor Y.	Replace the toner motor Y.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>7101</b>	<b>Toner sensor K error</b> Sensor output value of 60 or less or 944 or more continued for 3 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. Toner sensor K and front PWB (YC9) Front PWB (YC2) and engine PWB (YC10)
		Defective toner sensor K.	Replace developer unit K (see page 1-5-29).
		Failure of locking the developer waste slot at setup.	Check whether the developer waste slot has been unlocked and unlock if necessary (see page 1-2-14).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
<b>7102</b>	<b>Toner sensor C error</b> Sensor output value of 60 or less or 944 or more continued for 3 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. Toner sensor C and front PWB (YC13) Front PWB (YC2) and engine PWB (YC10)
		Defective toner sensor C.	Replace developer unit C (see page 1-5-29).
		Failure of locking the developer waste slot at setup.	Check whether the developer waste slot has been unlocked and unlock if necessary (see page 1-2-14).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>7103</b>	<b>Toner sensor M error</b> Sensor output value of 60 or less or 944 or more continued for 3 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. Toner sensor M and front PWB (YC11) Front PWB (YC2) and engine PWB (YC10)
		Defective toner sensor M.	Replace developer unit M (see page 1-5-29).
		Failure of locking the developer waste slot at setup.	Check whether the developer waste slot has been unlocked and unlock if necessary (see page 1-2-14).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
<b>7104</b>	<b>Toner sensor Y error</b> Sensor output value of 60 or less or 944 or more continued for 3 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. Toner sensor Y and front PWB (YC15) Front PWB (YC2) and engine PWB (YC10)
		Defective toner sensor Y.	Replace developer unit Y (see page 1-5-29).
		Failure of locking the developer waste slot at setup.	Check whether the developer waste slot has been unlocked and unlock if necessary (see page 1-2-14).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
7200	<b>Broken outer temperature sensor 2 wire</b> The sensor input sampling is greater than 230.	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. Outer temperature sensor 2 and front PWB (YC19) Front PWB (YC2) and engine PWB (YC10)
		Defective outer temperature sensor 2.	Replace outer temperature sensor 2.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7210	<b>Short-circuited outer temperature sensor 2</b> The sensor input sampling is less than 69.	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. Outer temperature sensor 2 and front PWB (YC19) Front PWB (YC2) and engine PWB (YC10)
		Defective outer temperature sensor 2.	Replace outer temperature sensor 2.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7221	<b>Broken LSU thermistor K wire</b> The sensor input sampling is greater than 230.	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 and LSU relay PWB (YC5) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor K.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
7222	<b>Broken LSU thermistor C wire</b> The sensor input sampling is greater than 230.	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 and LSU relay PWB (YC10) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor C.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7223	<b>Broken LSU thermistor M wire</b> The sensor input sampling is greater than 230.	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 and LSU relay PWB (YC8) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor M.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7224	<b>Broken LSU thermistor Y wire</b> The sensor input sampling is greater than 230.	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 and LSU relay PWB (YC12) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor Y.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7231	<b>Short-circuited LSU thermistor K</b> The sensor input sampling is less than 69.	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 and LSU relay PWB (YC5) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor K.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
7232	<b>Short-circuited LSU thermistor C</b> The sensor input sampling is less than 69.	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 and LSU relay PWB (YC10) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor C.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7233	<b>Short-circuited LSU thermistor M</b> The sensor input sampling is less than 69.	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 and LSU relay PWB (YC8) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor M.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7234	<b>Short-circuited LSU thermistor Y</b> The sensor input sampling is less than 69.	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 and LSU relay PWB (YC12) LSU relay PWB (YC3) and engine PWB (YC12)
		Defective LSU thermistor Y.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7241	<b>Broken developer thermistor K wire</b> The sensor input sampling is greater than 230.	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. Developer unit K and front PWB (YC9) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor K.	Replace developer unit K (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
7242	<b>Broken developer thermistor C wire</b> The sensor input sampling is greater than 230.	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. Developer unit C and front PWB (YC13) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor C.	Replace developer unit C (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7243	<b>Broken developer thermistor M wire</b> The sensor input sampling is greater than 230.	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. Developer unit M and front PWB (YC11) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor M.	Replace developer unit M (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7244	<b>Broken developer thermistor Y wire</b> The sensor input sampling is greater than 230.	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. Developer unit Y and front PWB (YC15) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor Y.	Replace developer unit Y (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7251	<b>Short-circuited developer thermistor K</b> The sensor input sampling is less than 69.	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. Developer unit K and front PWB (YC9) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor K.	Replace developer unit K (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

Code	Contents	Causes	Check procedures/ corrective measures
7252	<b>Short-circuited developer thermistor C</b> The sensor input sampling is less than 69.	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. Developer unit C and front PWB (YC13) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor C.	Replace developer unit C (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7253	<b>Short-circuited developer thermistor M</b> The sensor input sampling is less than 69.	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. Developer unit M and front PWB (YC11) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor M.	Replace developer unit M (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7254	<b>Short-circuited developer thermistor Y wire</b> The sensor input sampling is less than 69.	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. Developer unit Y and front PWB (YC15) Front PWB (YC2) and engine PWB (YC10)
		Defective developer thermistor Y.	Replace developer unit Y (see page 1-5-29).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7401	<b>Developer unit K type mismatch error</b> Absence of the developer unit K 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. Developer unit K and front PWB (YC9) Front PWB (YC2) and engine PWB (YC10)
		Different type of the developer unit is installed.	Install the correct developer unit.
7402	<b>Developer unit C type mismatch error</b> Absence of the developer unit C 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. Developer unit C and front PWB (YC13) Front PWB (YC2) and engine PWB (YC10)
		Different type of the developer unit is installed.	Install the correct developer unit.

Code	Contents	Causes	Check procedures/ corrective measures
7403	<b>Developer unit M type mismatch error</b> Absence of the developer unit M 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. Developer unit M and front PWB (YC11) Front PWB (YC2) and engine PWB (YC10)
		Different type of the developer unit is installed.	Install the correct developer unit.
7404	<b>Developer unit Y type mismatch error</b> Absence of the developer unit Y 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. Developer unit Y and front PWB (YC15) Front PWB (YC2) and engine PWB (YC10)
		Different type of the developer unit is installed.	Install the correct developer unit.
7601	<b>ID sensor 1 error</b> An abnormal value is detected in the input data to ID sensor 1.  Dark potential error FrontDarkP and FrontDarkS are greater than 0.80V. Light potential error FrontBrightS is smaller than FrontDarkS. FrontBrightP is smaller than FrontDarkP + 0.5V.	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. ID sensor 1 and feed PWB 1 (YC10) Feed PWB 1 (YC1) and engine PWB (YC6)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7602	<b>ID sensor 2 error</b> Dark potential error RearDarkP and RearDarkS are greater than 0.80V. Light potential error RearBrightS is smaller than RearDarkS. RearBrightP is smaller than RearDarkP + 0.5V.	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. ID sensor 2 and feed PWB 1 (YC10) Feed PWB 1 (YC1) and engine PWB (YC6)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).



Code	Contents	Causes	Check procedures/ corrective measures
7800	<b>Broken outer temperature sensor 1 wire</b> The device did not respond for more than 5 ms during reading, in 5 times.	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. Outer temperature sensor 1 and front PWB (YC16) Front PWB (YC2) and engine PWB (YC10)
		Defective outer temperature sensor 1.	Replace outer temperature sensor 1.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
7901	<b>Drum K EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 PWB K and front PWB (YC7) Front PWB (YC2) and engine PWB (YC10)
		Defective drum PWB K.	Replace the drum unit K (see page 1-5-29).
7902	<b>Drum C EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 PWB C and front PWB (YC12) Front PWB (YC2) and engine PWB (YC10)
		Defective drum PWB C.	Replace the drum unit C (see page 1-5-29).
7903	<b>Drum M EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 PWB M and front PWB (YC10) Front PWB (YC2) and engine PWB (YC10)
		Defective drum PWB M.	Replace the drum unit M (see page 1-5-29).

Code	Contents	Causes	Check procedures/ corrective measures
7904	<b>Drum Y EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively.	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 PWB Y and front PWB (YC14) Front PWB (YC2) and engine PWB (YC10)
	Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	Defective drum PWB Y.	Replace the drum unit Y (see page 1-5-29).
7911	<b>Developer unit K EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively.	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. Developer unit K and front PWB (YC9) Front PWB (YC2) and engine PWB (YC10)
	Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	Defective developer unit K.	Replace the developer unit K (see page 1-5-29).
7912	<b>Developer unit C EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively.	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. Developer unit C and front PWB (YC13) Front PWB (YC2) and engine PWB (YC10)
	Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	Defective developer unit C.	Replace the developer unit C (see page 1-5-29).

Code	Contents	Causes	Check procedures/ corrective measures
7913	<b>Developer unit M EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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. Developer unit M and front PWB (YC11) Front PWB (YC2) and engine PWB (YC10)
		Defective developer unit M.	Replace the developer unit M (see page 1-5-29).
7914	<b>Developer unit Y EEPROM error</b> No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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. Developer unit Y and front PWB (YC15) Front PWB (YC2) and engine PWB (YC10)
		Defective developer unit Y.	Replace the developer unit Y (see page 1-5-29).
7941	<b>Laser scanner unit K EEPROM error</b>  Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 LSU relay PWB (YC5) LSU relay PWB (YC2) and engine PWB (YC11)
		Defective APC PWB K.	Replace the laser scanner unit (see page 1-5-17).
7942	<b>Laser scanner unit C EEPROM error</b>  Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 LSU relay PWB (YC10) LSU relay PWB (YC2) and engine PWB (YC11)
		Defective APC PWB C.	Replace the laser scanner unit (see page 1-5-17).

Code	Contents	Causes	Check procedures/ corrective measures
7943	<b>Laser scanner unit M EEPROM error</b>  Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 LSU relay PWB (YC8) LSU relay PWB (YC2) and engine PWB (YC11)
		Defective APC PWB M.	Replace the laser scanner unit (see page 1-5-17).
7944	<b>Laser scanner unit Y EEPROM error</b>  Mismatch of reading data from two locations occurs 8 times successively. Mismatch between writing data and reading data occurs 8 times successively.	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 LSU relay PWB (YC12) LSU relay PWB (YC2) and engine PWB (YC11)
		Defective APC PWB Y.	Replace the laser scanner unit (see page 1-5-17).
8010	<b>Punch motor error 1</b> When the punch motor is driven, punch home position sensor does not turn on within 200 ms.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch home position sensor and punch PWB (YC8) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch home position sensor and punch PWB (YC8) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch home position sensor.	Replace the punch home position sensor.
		Defective punch motor.	Replace the punch motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8020	<b>Punch motor error 2</b> Home position is not obtained in 3 s after home position is initialized or in standby.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch motor.	Replace the punch motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8030	<b>Punch motor error 3</b> Home position does not turn from On to Off in 50 ms after home position has been initialized.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch motor.	Replace the punch motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8040	<b>Abnormal simultaneous connection of mailbox</b> When the mailbox is installed in both the main unit and the finisher.	When the mailbox is installed in both the main unit and the finisher.	Uninstall either of the mailboxes.

Code	Contents	Causes	Check procedures/ corrective measures
<b>8090</b>	<b>DF paddle motor error</b> When the DF paddle motor is driven, DF paddle sensor does not turn on within 1 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF paddle motor and DF main PWB (YC15) DF paddle sensor and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF paddle motor and DF main PWB (YC11) DF paddle sensor and DF main PWB (YC20)
		Defective DF paddle sensor.	Replace the DF paddle sensor.
		Defective DF paddle motor.	Replace the DF paddle motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
<b>8100</b>	<b>DF eject release motor error</b> When the DF eject release motor is driven, DF bundle discharge sensor does not turn on within 1 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF eject release motor and DF main PWB (YC12) DF bundle discharge sensor and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF eject release motor and DF main PWB (YC10) DF bundle discharge sensor and DF main PWB (YC20)
		Defective DF bundle discharge sensor.	Replace the DF bundle discharge sensor.
		Defective DF eject release motor.	Replace the DF eject release motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
<b>8110</b>	<b>DF shift motor 1 error</b> (4000-sheet finisher) When the DF shift motor 1 is driven, DF shift sensor 1 does not turn on within 160 ms.	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. DF shift motor 1 and DF main PWB (YC14) DF shift sensor 1 and DF main PWB (YC23)
		Defective DF shift sensor 1.	Replace the DF shift sensor 1.
		Defective DF shift motor 1.	Replace the DF shift motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
<b>8120</b>	<b>DF shift motor 2 error</b> (4000-sheet finisher) When the DF shift motor 2 is driven, DF shift sensor 2 does not turn on within 160 ms.	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. DF shift motor 2 and DF main PWB (YC14) DF shift sensor 2 and DF main PWB (YC23)
		Defective DF shift sensor 2.	Replace the DF shift sensor 2.
		Defective DF shift motor 2.	Replace the DF shift motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
<b>8130</b>	<b>DF shift release motor error</b> (4000-sheet finisher) When the DF shift release motor is driven, DF shift release sensor does not turn on within 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. DF shift release motor and DF main PWB (YC14) DF shift release sensor and DF main PWB (YC23)
		Defective DF shift release sensor.	Replace the DF shift release sensor.
		Defective DF shift release motor.	Replace the DF shift release motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8140	<b>DF tray motor error 1</b> When the main tray has started ascending, DF tray sensor 1 or DF tray upper surface sensor does not turn on within 20 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 1 and DF main PWB (YC22) DF tray upper surface sensor and DF main PWB (YC21, YC13)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 1 and DF main PWB (YC20) DF tray upper surface sensor and DF main PWB (YC18)
		Defective sensor.	Replace DF tray sensor 1 or DF tray upper surface sensor.
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8150	<b>DF tray motor error 2</b> When the main tray has descended, DF tray sensor 1 or DF tray upper surface sensor does not turn off within 5 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 1 and DF main PWB (YC22) DF tray upper surface sensor and DF main PWB (YC21, YC13)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 1 and DF main PWB (YC20) DF tray upper surface sensor and DF main PWB (YC18)
		Defective sensor.	Replace DF tray sensor 1 or DF tray upper surface sensor.
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.



Code	Contents	Causes	Check procedures/ corrective measures
8160	<b>DF tray motor error 3</b> When the main tray has descended, DF tray sensor 3 does not turn on within 20 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 3 and DF main PWB (YC23)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 3 and DF main PWB (YC20)
		Defective DF tray sensor 3.	Replace DF tray sensor 3.
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8170	<b>DF side registration motor 1 error 1</b> When initial operation, DF side registration sensor 1 does not turn on within 3 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC15) DF side registration sensor 1 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC11) DF side registration sensor 1 and DF main PWB (YC20)
		Defective DF side registration sensor 1.	Replace DF side registration sensor 1.
		Defective DF side registration motor 1.	Replace DF side registration motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
<b>8180</b> <b>DF side registration motor 1 error 2</b> JAM6810 is detected twice.		Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC15) DF side registration sensor 1 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC11) DF side registration sensor 1 and DF main PWB (YC20)
		Defective DF side registration sensor 1.	Replace DF side registration sensor 1.
		Defective DF side registration motor 1.	Replace DF side registration motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
<b>8190</b> <b>DF side registration motor 2 error 1</b> When initial operation, DF side registration sensor 2 does not turn on within 3 s.		Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC15) DF side registration sensor 2 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC11) DF side registration sensor 2 and DF main PWB (YC20)
		Defective DF side registration sensor 2.	Replace DF side registration sensor 2.
		Defective DF side registration motor 2.	Replace DF side registration motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8200	<b>DF side registration motor 2 error 2</b> JAM6910 is detected twice.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC15) DF side registration sensor 2 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC11) DF side registration sensor 2 and DF main PWB (YC20)
		Defective DF side registration sensor 2.	Replace DF side registration sensor 2.
		Defective DF side registration motor 2.	Replace DF side registration motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8210	<b>DF slide motor error</b> When initial operation, DF staple sensor does not turn on within 3 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF slide motor and DF main PWB (YC12) DF staple sensor and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF slide motor and DF main PWB (YC10) DF staple sensor and DF main PWB (YC20)
		Defective DF staple sensor.	Replace the DF staple sensor.
		Defective DF slide motor.	Replace the DF slide motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
<b>8230</b>	<b>DF staple motor error 1</b> Staple JAM (DF) has been detected twice in a row. (The home position could not be detected in 600 ms since the motor was driven after jam was detected twice.)	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Staple unit and DF main PWB (YC17)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Staple unit and DF main PWB (YC11)
		Defective DF staple sensor.	Replace the staple unit.
		Defective DF staple motor.	
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
<b>8240</b>	<b>DF staple motor error 2</b> Staple JAM (DF) has been detected twice in a row. (The second JAM detection condition fulfilled with a lock detection signal maintained 1 V for 500 ms continuously, while the stapler motor was driven.)	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Staple unit and DF main PWB (YC17)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Staple unit and DF main PWB (YC11)
		Defective DF staple motor.	Replace the staple unit.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
<b>8250</b>	<b>DF tray motor error 4</b> The lock signal of the motor is detected continuously for 10 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 3 and DF main PWB (YC23)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 3 and DF main PWB (YC20)
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8300	<b>Center-folding unit communication error</b> (4000-sheet finisher) Communication with the center-folding unit is not possible.	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. CF main PWB (YC7) and DF main PWB (YC9)
		Defective CF set sensor.	Replace the CF set sensor.
		Defective PWB.	Replace the CF main PWB or the DF main PWB and check for correct operation.
8310	<b>CF side registration motor 2 error</b> (4000-sheet finisher) When initial operation, CF side registration sensor 2 does not turn on within 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. CF side registration motor 2 and CF main PWB (YC10) CF side registration sensor 2 and CF main PWB (YC20)
		Defective CF side registration sensor 2.	Replace CF side registration sensor 2.
		Defective CF side registration motor 2.	Replace CF side registration motor 2.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.
8320	<b>CF adjustment motor error</b> (4000-sheet finisher) When initial operation, CF adjustment sensor does not turn on within 2.5 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. CF adjustment motor 1, 2 and CF main PWB (YC10) CF adjustment sensor 1, 2 and CF main PWB (YC20)
		Defective CF adjustment sensor 1, 2.	Replace CF adjustment sensor 1, 2.
		Defective CF adjustment motor 1, 2.	Replace CF adjustment motor 1, 2.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
<b>8330</b>	<b>CF blade motor error</b> (4000-sheet finisher) When initial operation, CF blade sensor does not turn on within 3 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. CF blade motor and CF main PWB (YC15) CF blade sensor and CF main PWB (YC20)
		Defective CF blade sensor.	Replace the CF blade sensor.
		Defective CF blade motor.	Replace the CF blade motor.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.
<b>8340</b>	<b>CF staple motor error 1</b> (4000-sheet finisher) Staple JAM (center-folding unit) has been detected twice in a row. (The home position could not be detected in 600 ms since the motor was driven after jam was detected twice.)	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. CF staple unit and CF main PWB (YC13)
		Defective CF staple sensor.	Replace the CF staple unit.
		Defective CF staple motor.	
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.
<b>8350</b>	<b>CF side registration motor 1 error</b> (4000-sheet finisher) When initial operation, CF side registration sensor 1 does not turn on within 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. CF side registration motor 1 and CF main PWB (YC10) CF side registration sensor 1 and CF main PWB (YC20)
		Defective CF side registration sensor 1.	Replace CF side registration sensor 1.
		Defective CF side registration motor 1.	Replace CF side registration motor 1.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.
<b>8360</b>	<b>CF main motor error</b> (4000-sheet finisher) During driving the motor, lock signal is detected for 1 s continuously.	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. CF main motor and CF main PWB (YC16)
		Defective CF main motor.	Replace the CF main motor.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8370	<b>CF staple motor error 2</b> (4000-sheet finisher) Staple JAM (DF) has been detected twice in a row. (The second JAM detection condition fulfilled with a lock detection signal maintained 1 V for 1000 ms continuously, while the stapler motor was driven.)	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. CF staple unit and CF main PWB (YC13)
		Defective CF staple motor.	Replace the CF staple unit.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.
8410	<b>Punch slide motor error 1</b> The punch slide sensor won't turn On when home position has been moved by 30 mm.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch slide sensor and punch PWB (YC6) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch slide sensor and punch PWB (YC6) Punch PWB (YC1) and DF main PWB (YC8)
		Defective slide sensor.	Replace the punch slide sensor.
		Defective punch slide motor.	Replace the punch slide motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8420	<b>Punch slide motor error 2</b> In detection of paper edges, the paper edge cannot be detected in 30 mm move.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch slide motor.	Replace the punch slide motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8430	<b>Punch unit communication error</b> Communication failed to be established after the punch unit was hooked up.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch PWB (YC1) and DF main PWB (YC8)
		Defective PWB.	Replace the punch PWB or the DF main PWB and check for correct operation.
8500	<b>Mailbox communication error</b> (4000-sheet finisher) Communication failed to be established after the mailbox was hooked up.	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. MB main PWB (YC3) and DF main PWB (YC6)
		Defective PWB.	Replace the MB main PWB or the DF main PWB and check for correct operation.
8510	<b>MB conveying motor error 1</b> (4000-sheet finisher) When initial operation, MB home position sensor does not turn on within 5 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. MB conveying motor and MB main PWB (YC5) MB home position sensor and MB main PWB (YC2)
		Defective MB home position sensor.	Replace the MB home position sensor.
		Defective MB conveying motor.	Replace the MB conveying motor.
		Defective MB main PWB.	Replace the MB main PWB and check for correct operation.



Code	Contents	Causes	Check procedures/ corrective measures
8520	<b>MB conveying motor error 2</b> (4000-sheet finisher) When standby operation, MB home position sensor does not turn off within 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. MB conveying motor and MB main PWB (YC5) MB home position sensor and MB main PWB (YC2)
		Defective MB home position sensor.	Replace the MB home position sensor.
		Defective MB conveying motor.	Replace the MB conveying motor.
		Defective MB main PWB.	Replace the MB main PWB and check for correct operation.
8800	<b>Document finisher main program error</b> Document finisher main program error at power up.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC4) and engine PWB (YC18)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC7) and engine PWB (YC18)
		Defective PWB.	Replace the DF main PWB or the engine PWB and check for correct operation.
8900	<b>Document finisher backup error</b> Read and write data does not match 3 times in succession.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC4) and engine PWB (YC18)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC7) and engine PWB (YC18)
		Improper installation EEPROM.	Check the installation of the EEPROM and remedy if necessary.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8930	<b>Center-folding unit backup error</b> (4000-sheet finisher) Read and write data does not match 3 times in succession.	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. CF main PWB (YC7) and DF main PWB (YC9)
		Improper installation EEPROM.	Check the installation of the EEPROM and remedy if necessary.
		Defective CF main PWB.	Replace the CF main PWB and check for correct operation.
F000	<b>Communication error between main PWB and operation PWB</b>	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 1-5-44).
		Defective operation PWB.	Replace the operation PWB and check for correct operation.
F010	<b>Main PWB checksum error</b>	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 1-5-44).
F040	<b>Communication error between main PWB and print engine</b>	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 1-5-44).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
F050	<b>Print engine ROM checksum error</b>	Defective engine software.	Install the engine software.
		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 1-5-49).
F278	<b>Power supply in drive system error</b>	The main power switch was turned off before the machine was shut-down, or a power failure has occurred.	Turn on power. (To switch off power, after confirming the data lamp is turned off, perform shut-down on the operation panel, turn power 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 1-4-86

(2) No image appears (entirely black).



See page 1-4-86

(3) Image is too light.



See page 1-4-87

(4) The background is colored.



See page 1-4-87

(5) White streaks are printed vertically.



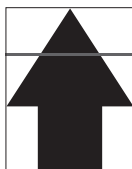
See page 1-4-88

(6) Black streaks are printed vertically.



See page 1-4-88

(7) Streaks are printed horizontally.



See page 1-4-88

(8) Spots are printed.



See page 1-4-89

(9) Image is blurred.



See page 1-4-89

(10) The leading edge of the image is consistently misaligned with the original.



See page 1-4-89

(11) The leading edge of the image is sporadically misaligned with the original.



See page 1-4-89

(12) Paper is wrinkled.



See page

(13) Offset occurs.



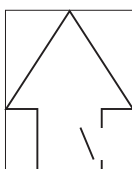
See page 1-4-90

(14) Part of image is missing.



See page 1-4-90

(15) Fusing is loose.



See page 1-4-91

(16) Image is out of focus.



See page 1-4-91

(17) Image center does not align with the original center.



See page 1-4-91

(18) Unevenly repeating horizontal streaks in the printed objects.



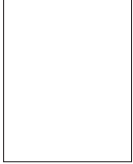
See page 1-4-91

(19) Colored spots in the printed objects.




See page 1-4-91

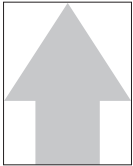
**(1) No image appears (entirely white).**

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 2 (YC1) and engine PWB (YC8)
		Defective high voltage PWB 2.	Replace the high voltage PWB 2 (see page 1-5-55).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).
	Defective developer 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 1 (YC1, 2) and engine PWB (YC16) High voltage PWB 1 (YC3, 4) and engine PWB (YC17)
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).
	No LSU laser is output.	Defective laser scanner unit.	Replace the laser scanner unit (see page 1-5-17).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).

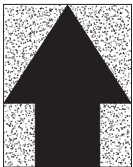
**(2) No image appears (entirely black).**

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 1 (YC1, 2) and engine PWB (YC16) High voltage PWB 1 (YC3, 4) and engine PWB (YC17)
		Defective charger roller unit.	Replace the charger roller unit (see page 1-5-31).
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).
	The laser is activated simultaneously for all colors.	Defective laser scanner unit.	Replace the laser scanner unit (see page 1-5-17).

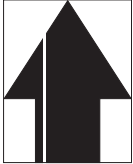
**(3) Image is too light.**

Print example	Causes		Check procedures/corrective measures
	Defective developer bias output.	Defective developer unit.	Run maintenance mode U089 to output four-color bar PG, check the output status of the four colors, and replace the developer unit for any faulty color (see page 1-5-29).
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).
	Dirty drum unit.		Perform the drum refresh.
	Defective transfer bias output.	Defective high voltage PWB 2.	Replace the high voltage PWB 2 (see page 1-5-55).
		Defective transfer belt unit.	Replace the transfer belt unit (see page 1-5-34).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).
	Defective color calibration.		Perform the tone curve adjustment (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.	

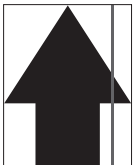
**(4) The background is colored.**

Print example	Causes		Check procedures/corrective measures
	Defective developer bias output.	Defective developer unit.	Run maintenance mode U089 to output four-color bar PG, check the output status of the four colors, and replace the developer unit for any faulty color (see page 1-5-29).
		Defective high voltage PWB 1.	Replace the high voltage PWB 1 (see page 1-5-54).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-49).
	Defective color calibration.		Perform the calibration (Refer to operation guide). Perform the tone curve adjustment (Refer to operation guide).

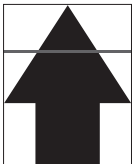
**(5) White streaks are printed vertically.**

Print example	Causes	Check procedures/corrective measures
	Foreign object in one of the developer units.	Run maintenance mode U089 to output four-color bar PG, check the output status of the four colors, and replace the developer unit for any faulty color (see page 1-5-29).
	Dirty transfer belt.	Clean the transfer belt. Replace the transfer belt unit if it is extremely dirty (see page 1-5-34).
	Dirty transfer roller.	Clean the transfer roller. Replace the transfer roller if it is extremely dirty (see page 1-5-38).
	Dirty LSU slit glasses.	Perform the laser scanner cleaning.

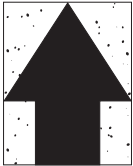
**(6) Black streaks are printed vertically.**

Print example	Causes	Check procedures/corrective measures
	Dirty or flawed drum.	Perform the drum refresh (Refer to operation guide). Flawed drum. Replace the drum unit (see page 1-5-29).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-29).
	Defective transfer belt cleaning.	Clean the cleaning pre brush. Replace the cleaning pre brush if it is extremely dirty (see page 1-5-36).
	Worn transfer belt.	Replace the transfer belt unit (see page 1-5-34).
	Defective transfer roller.	Replace the transfer roller (see page 1-5-38).

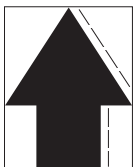
**(7) Streaks are printed horizontally.**

Print example	Causes	Check procedures/corrective measures
	Dirty or flawed drum.	Perform the drum refresh (Refer to operation guide). Flawed drum. Replace the drum unit (see page 1-5-29).
	Dirty developer section.	Clean any part contaminated with toner in the developer section.
	Poor contact of grounding terminal of drum unit.	Check the installation of the drum unit. If it operates incorrectly, replace it (see page 1-5-29).

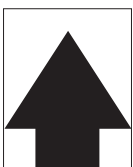
**(8) Spots are printed.**

Print example	Causes	Check procedures/corrective measures
	Dirty or flawed drum.	Perform the drum refresh (Refer to operation guide). Flawed drum. Replace the drum unit (see page 1-5-29).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-29).
	Flawed developer roller.	Replace the developer unit (see page 1-5-29).
	Defective transfer belt cleaning.	Replace the cleaning pre brush (see page 1-5-36).
	Dirty heat roller and press roller.	Clean the heat roller and press roller.

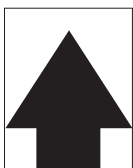
**(9) Image is blurred.**

Print example	Causes	Check procedures/corrective measures
	Deformed press roller.	Replace the fuser unit (see page 1-5-40).
	Paper conveying section drive problem.	Check the gears and belts and, if necessary, grease them.

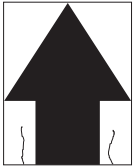
**(10) The leading edge of the image is consistently misaligned with the original.**

Print example	Causes	Check procedures/corrective measures
	Misadjusted leading edge registration.	Run maintenance mode U034 to readjust the leading edge registration (see page 1-3-32).
	Misadjusted the deflection in the paper.	Run maintenance mode U051 to readjust the deflection in the paper (see page 1-3-37).

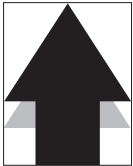
**(11) The leading edge of the image is sporadically misaligned with the original.**

Print example	Causes	Check procedures/corrective measures
	Paper feed clutch, middle motor, registration motor or duplex motor operating incorrectly.	Check the installation of the clutch or motor. 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.
	Faulty width adjusting cursor settings at loading paper.	Check how the cursor is set according to the width.(The gap between the paper and the cursor should be 1mm or less.)
	Unbalanced spring pressures at the left and right registration transporting.	Measure the spring pressures.
	Defective pressure springs.	Replace the fuser unit (see page 1-5-40).

**(13) Offset occurs.**

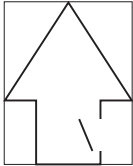
Print example	Causes	Check procedures/corrective measures
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-29).
	Faulty cleaning bias output voltage	Verify the cleaning bias output.If no voltage is indicated, replace the high-voltage PWB 2.
	Defective transfer belt cleaning.	Replace the transfer belt unit (see page 1-5-34).
	Defective fuser unit.	Replace the fuser unit (see page 1-5-40).
	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 refresh (Refer to operation guide).
	Dirty or flawed drum.	Flawed drum. Replace the drum unit (see page 1-5-29).
	Dirty transfer belt.	Clean the transfer belt. Replace the transfer belt unit if it is extremely dirty (see page 1-5-34).
	Dirty transfer roller.	Clean the transfer roller. Replace the transfer roller if it is extremely dirty (see page 1-5-38).




**(15) Fusing is loose.**

Print example	Causes	Check procedures/corrective measures
	Wrong types of paper.	Check if the paper meets specifications, replace paper.
	Faulty media type settings.	Verify the media type accords with the weight of the paper used.
	Flawed heat roller or press roller.	Replace the fuser unit (see page 1-5-40).
	Defective pressure springs.	
	Defective fuser IH.	

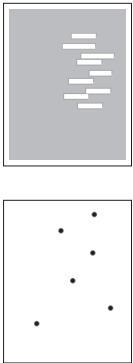
**(16) Image is out of focus.**

Print example	Causes	Check procedures/corrective measures
	Drum condensation.	Perform the drum refresh (Refer to operation guide).

**(17) Image center does not align with the original center.**

Print example	Causes	Check procedures/corrective measures
	Misadjusted image center line.	Run maintenance item U034 to readjust the center line of image printing (see page 1-3-32).
	Paper is not placed correctly.	Place the paper correctly.

**(18) Unevenly repeating horizontal streaks in the printed objects. Colored spots in the printed objects.**

Print example	Causes	Check procedures/corrective measures
	The device is installed in an altitude greater than 1500 m sea level.	Run maintenance mode U140 and run calibration in high altitude mode (see page 1-3-73).

## 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. Broken power cord.	Check for continuity. If none, replace the cord.
	4. Defective main power switch.	Check for continuity across the contacts. If none, replace the main power switch.
	5. Defective power source PWB.	Replace the power source PWB (see page 1-5-51).
(2) MP lift 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. MP lift motor and relay PWB (YC3) Relay PWB (YC12) and feed PWB 1 (YC17) Feed PWB 1 (YC1) and engine PWB (YC6)
	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 MP lift motor.
	4. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(3) Registration 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. Registration motor and feed PWB 1 (YC25) Feed PWB 1 (YC2) and engine PWB (YC5)
	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 registration motor.
	4. Defective PWB.	Replace the feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(4) Middle 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. Middle motor and feed PWB 2 (YC7) Feed PWB 2 (YC1) and engine PWB (YC4)
	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 middle motor.
	4. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).

<b>Problem</b>	<b>Causes</b>	<b>Check procedures/corrective measures</b>
(5) Eject 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. Eject motor and front PWB (YC5) Front PWB (YC3) and engine PWB (YC7)
	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 eject motor.
	4. Defective PWB.	Replace the front PWB or engine PWB and check for correct operation (see page 1-5-49).
(6) Duplex motor 1 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 1 and relay PWB (YC16) Relay PWB (YC13) and feed PWB 1 (YC23) Feed PWB 1 (YC2) and engine PWB (YC5)
	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 1.
	4. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(7) Duplex motor 2 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 2 and relay PWB (YC7) Relay PWB (YC1) and feed PWB 1 (YC14) Feed PWB 1 (YC1) and engine PWB (YC6)
	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 2.
	4. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(8) Toner fan motor 1, 2 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. Toner fan motor 1, 2 and engine PWB (YC19)
	2. Defective motor.	Replace the toner fan motor 1 or 2.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).

<b>Problem</b>	<b>Causes</b>	<b>Check procedures/corrective measures</b>
(9) Developer fan motor 1, 2 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. Developer fan motor 1, 2 and front PWB (YC6) Front PWB (YC3) and engine PWB (YC7)
	2. Defective motor.	Replace the developer fan motor 1 or 2.
	3. Defective PWB.	Replace the front PWB or engine PWB and check for correct operation (see page 1-5-49).
(10) Exhaust fan motor 1, 2 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. Exhaust fan motor 1, 2 and engine PWB (YC19)
	2. Defective motor.	Replace the exhaust fan motor 1 or 2.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
(11) LSU 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. LSU fan motor and front PWB (YC16) Front PWB (YC2) and engine PWB (YC10)
	2. Defective motor.	Replace the LSU fan motor.
	3. Defective PWB.	Replace the front PWB or engine PWB and check for correct operation (see page 1-5-49).
(12) Belt fan motor 1, 2 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. Belt fan motor 1, 2 and engine PWB (YC19)
	2. Defective motor.	Replace the belt fan motor 1 or 2.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
(13) Fuser fan motor 1, 2 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 1, 2 and relay PWB (YC16) Relay PWB (YC13) and feed PWB 1 (YC23) Feed PWB 1 (YC2) and engine PWB (YC5)
	2. Defective motor.	Replace the fuser fan motor 1 or 2.
	3. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(14) Eject fan motor 1, 2 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. Eject fan motor 1, 2 and relay PWB (YC11) Relay PWB (YC13) and feed PWB 1 (YC23) Feed PWB 1 (YC2) and engine PWB (YC5)
	2. Defective motor.	Replace the eject fan motor 1 or 2.
	3. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).

<b>Problem</b>	<b>Causes</b>	<b>Check procedures/corrective measures</b>
(15) Eject front 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. Eject front fan motor and front PWB (YC4) Front PWB (YC3) and engine PWB (YC7)
	2. Defective motor.	Replace the eject front fan motor.
	3. Defective PWB.	Replace the front PWB or engine PWB and check for correct operation (see page 1-5-49).
(16) Eject rear 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. Eject rear fan motor and feed PWB 1 (YC19) Feed PWB 1 (YC1) and engine PWB (YC6)
	2. Defective motor.	Replace the eject rear fan motor.
	3. Defective PWB.	Replace the feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(17) Power source 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. Power source fan motor and engine PWB (YC22)
	2. Defective motor.	Replace the power source fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-49).
(18) 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 (YC23)
	2. Defective motor.	Replace the controller fan motor.
	3. Defective PWB.	Replace the main PWB and check for correct operation (see page 1-5-44).
(19) Paper feed clutch 1, 2 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 1, 2 and feed PWB 2 (YC4) Feed PWB 2 (YC1) and engine PWB (YC4)
	2. Defective clutch.	Replace the paper feed clutch 1 or 2.
	3. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).
(20) Assist clutch 1, 2 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. Assist clutch 1 and feed PWB 2 (YC10) Assist clutch 2 and feed PWB 2 (YC12) Feed PWB 2 (YC1) and engine PWB (YC4)
	2. Defective clutch.	Replace the assist clutch 1 or 2.
	3. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).

<b>Problem</b>	<b>Causes</b>	<b>Check procedures/corrective measures</b>
(21) Paper conveying 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 conveying clutch and feed PWB 2 (YC5) Feed PWB 2 (YC1) and engine PWB (YC4)
	2. Defective clutch.	Replace the paper conveying clutch.
	3. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).
(22) MP 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. MP paper feed clutch and relay PWB (YC3) Relay PWB (YC12) and feed PWB 1 (YC17) Feed PWB 1 (YC1) and engine PWB (YC6)
	2. Defective clutch.	Replace the MP paper feed clutch.
	3. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(23) Pickup solenoid 1, 2 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. Pickup solenoid 1, 2 and feed PWB 2 (YC8) Feed PWB 2 (YC1) and engine PWB (YC4)
	2. Defective solenoid.	Replace the pickup solenoid 1 or 2.
	3. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).
(24) Feedshift 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. Feedshift and front PWB (YC5) Front PWB (YC3) and engine PWB (YC7)
	2. Defective solenoid.	Replace the feedshift solenoid 1 or 2.
	3. Defective PWB.	Replace the front PWB or engine PWB and check for correct operation (see page 1-5-49).
(25) Cleaning 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. Cleaning solenoid and feed PWB 1 (YC10) Feed PWB 1 (YC1) and engine PWB (YC4)
	2. Defective solenoid.	Replace the cleaning solenoid.
	3. Defective PWB.	Replace the feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(26) 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. Paper sensor 1, 2 and feed PWB 2 (YC8) Feed PWB 2 (YC1) and engine PWB (YC4)
	2. Deformed actuator.	Check visually and replace if necessary.
	3. Defective sensor.	Replace the paper sensor 1 or 2.
	4. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).

<b>Problem</b>	<b>Causes</b>	<b>Check procedures/corrective measures</b>
(27) 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 relay PWB (YC3) Relay PWB (YC12) and feed PWB 1 (YC17) Feed PWB 1 (YC1) and engine PWB (YC6)
	2. Deformed actuator.	Check visually and replace if necessary.
	3. Defective sensor.	Replace the MP paper sensor.
	4. Defective PWB.	Replace the feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(28) 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. Paper length switch 1, 2 and feed PWB 2 (YC3) Paper width switch 1, 2 and feed PWB 2 (YC3) Feed PWB 2 (YC1) and engine PWB (YC4)
	2. Defective switch.	Replace the paper length switch 1, 2 or paper width switch 1, 2.
	3. Defective PWB.	Replace the feed PWB 2 or engine PWB and check for correct operation (see page 1-5-49).
(29) The size of paper on the MP tray 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. MP paper length switch and relay PWB (YC2) MP paper width switch and relay PWB (YC2) Relay PWB (YC12) and feed PWB 1 (YC17) Feed PWB 1 (YC1) and engine PWB (YC6)
	2. Defective switch.	Replace the MP paper length switch or MP paper width switch.
	3. Defective PWB.	Replace the relay PWB, feed PWB 1 or engine PWB and check for correct operation (see page 1-5-49).
(30) 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 feed sensor 1, 2, MP feed sensor, middle sensor, paper conveying sensor, registration sensor, loop sensor, fuser eject sensor, duplex sensor 1, 2, eject full sensor or switch-back sensor.	Check visually and remove it, if any.
	2. Defective sensor.	Replace the feed sensor 1, 2, MP feed sensor, middle sensor, paper conveying sensor, registration sensor, loop sensor, fuser eject sensor, duplex sensor 1, 2, eject full sensor or switchback sensor.

<b>Problem</b>	<b>Causes</b>	<b>Check procedures/corrective measures</b>
(31) A message indicating cover open is displayed when the front 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. Front cover switch and front PWB (YC16) Front PWB (YC2) and engine PWB (YC10)
	2. Defective switch.	Replace the front cover switch.
(32) A message indicating unit open is displayed when the paper conveying unit 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. Paper conveying unit switch and feed PWB 1 (YC15) Feed PWB 1 (YC4) and power source PWB (YC12)
	2. Defective switch.	Replace the paper conveying unit switch.
(33) A message indicating cover open is displayed when the duplex 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. Duplex cover switch and relay PWB (YC7) Relay PWB (YC1) and feed PWB 1 (YC14) Feed PWB 1 (YC1) and engine PWB (YC6)
	2. Defective switch.	Replace the duplex cover switch.
(34) A message indicating cover open is displayed when the paper conveying 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. Paper conveying cover switch and feed PWB 2 (YC6) Feed PWB 2 (YC1) and power source PWB (YC4)
	2. Defective switch.	Replace the paper conveying cover switch.



## 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. Forwarding pulley Paper feed pulley MP paper feed pulley	Clean with isopropyl alcohol.
	Check if the following rollers is deformed. Forwarding pulley Paper feed pulley MP paper feed pulley	Check visually and replace any deformed (see page 1-5-7, 1-5-12).
	Defective paper feed clutch 1, 2 or MP 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. Right registration roller Left registration roller	Clean with isopropyl alcohol.
	Defective registration motor installation. (45 ppm/55 ppm model) Defective registration clutch installation. (30 ppm/35 ppm model)	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 separation pulley is worn.	Replace the separation pulley if it is worn (see page 1-5-7, 1-5-12).
(5) Paper jams.	Check if the paper is excessively curled.	Change the paper.
	Check if the contact between the right and left 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 1-5-40).
(6) Toner drops on the paper conveying path.	Check if the drum unit or developer unit is extremely dirty.	Clean the drum unit or developer unit.
(7) 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 1, 2 Assist clutch 1, 2 Paper conveying clutch MP paper feed clutch	

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## 1-5-1 Precautions for assembly and disassembly

### (1) Precautions

Before starting disassembly, after confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle(see page 1-2-19).

When the fax kit is installed, be sure to disconnect the modular cable 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 toner container

As a means of brand protection, the Kyocera 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 branded toner container, otherwise, it is a counterfeit.

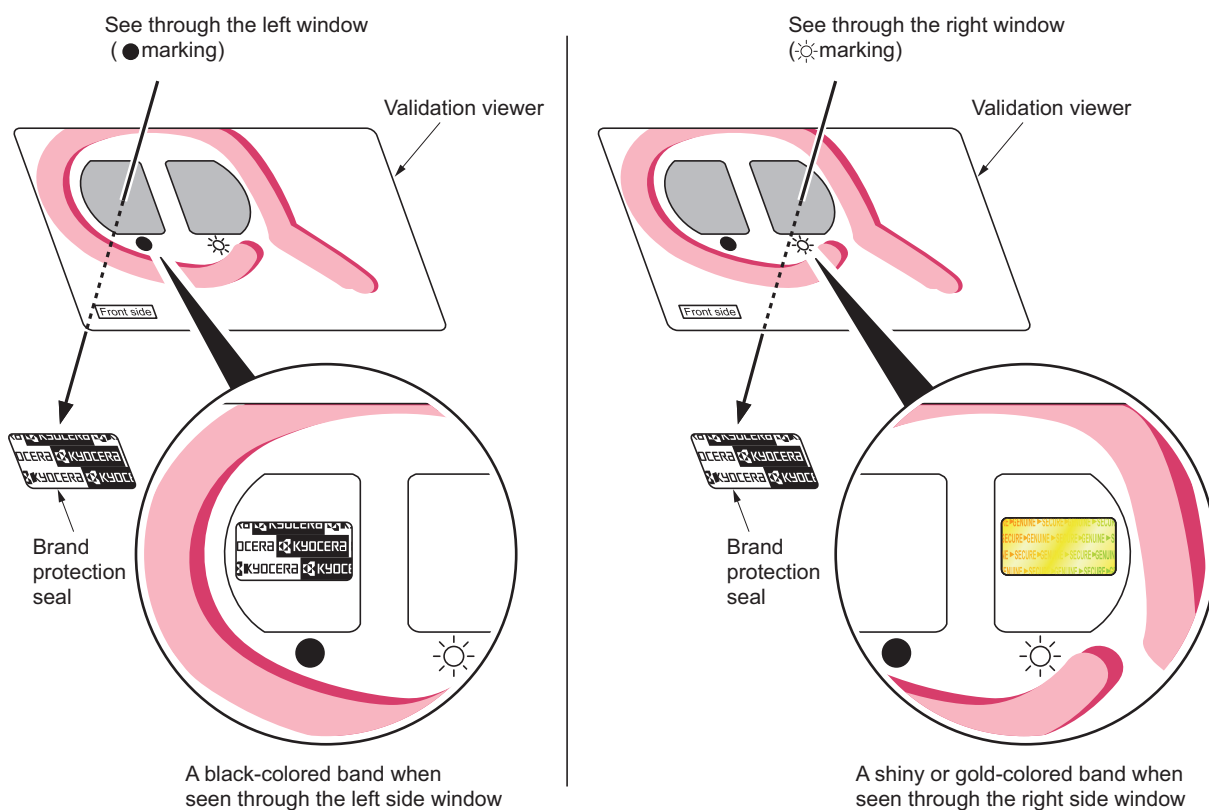


Figure 1-5-1

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

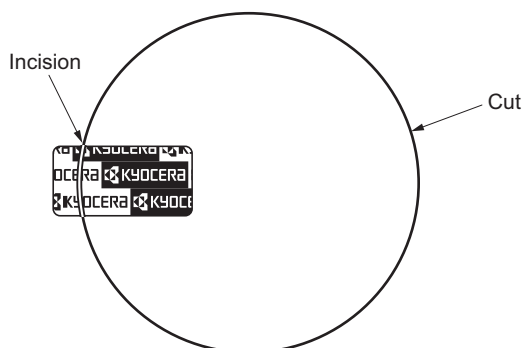


Figure 1-5-2

## 1-5-2 Paper feed section

### (1) Detaching and refitting the primary paper feed unit

#### Procedure

#### Detaching remove the primary paper feed unit

1. Pull the cassette 1 and cassette 2 out completely.
2. Pull the paper conveying unit out.
3. Open the right lower cover.
4. Remove the strap and then remove the right lower cover.

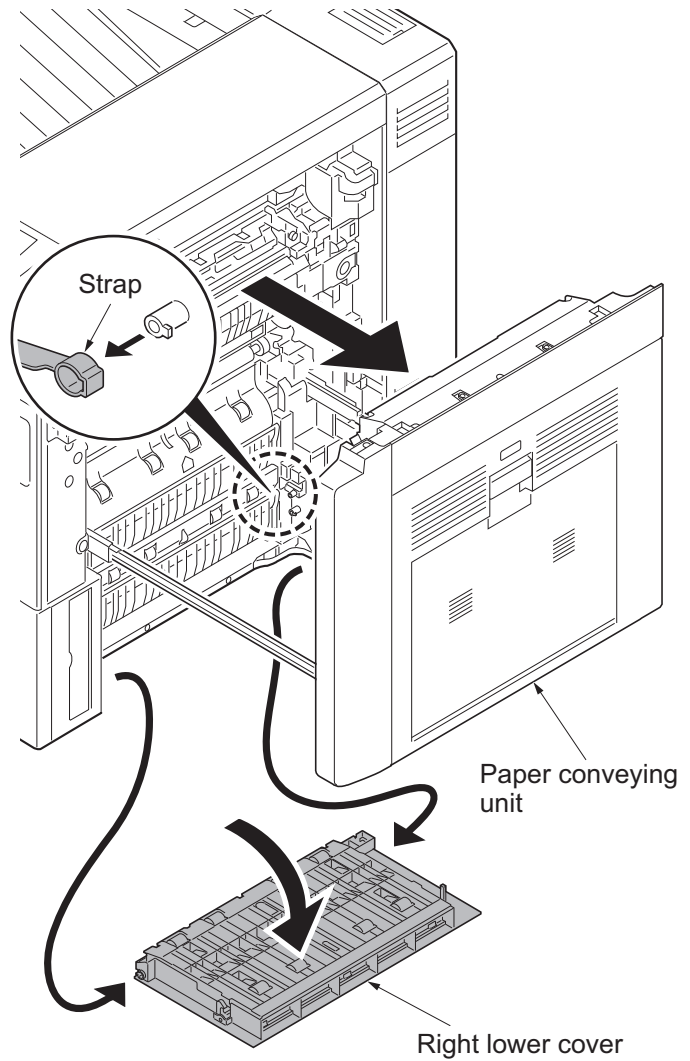


Figure 1-5-3

5. Remove the rear upper cover and the rear lower cover (see page 1-5-56).
6. Remove three screws B and then remove the right lower rear cover.

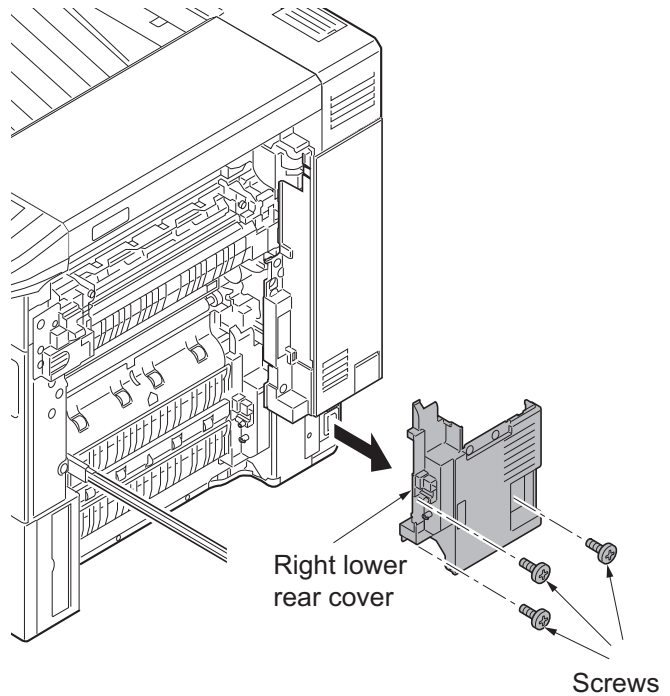


Figure 1-5-4

7. Open the handle cover.
8. Remove three screws.
9. Unhook the hook and then remove the right lower front cover.

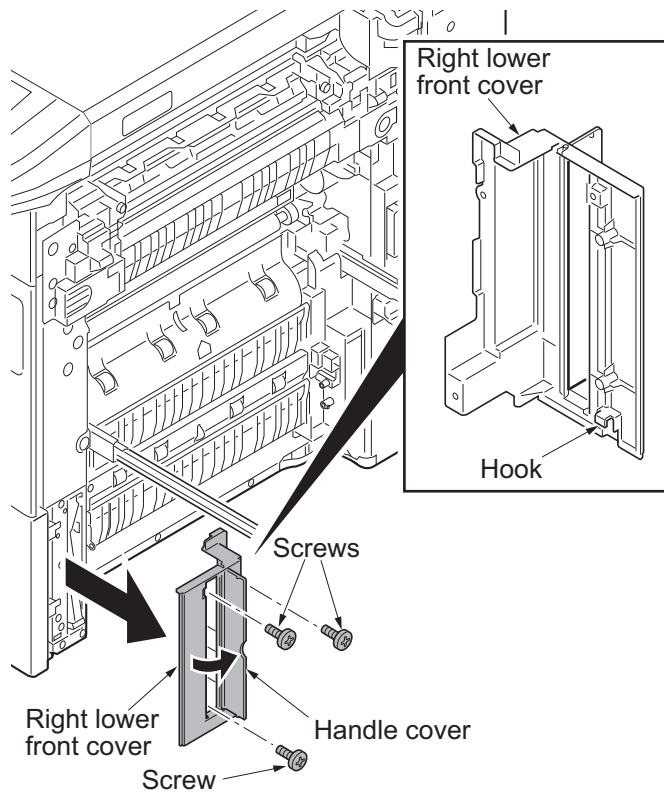


Figure 1-5-5

10. Remove two connectors.

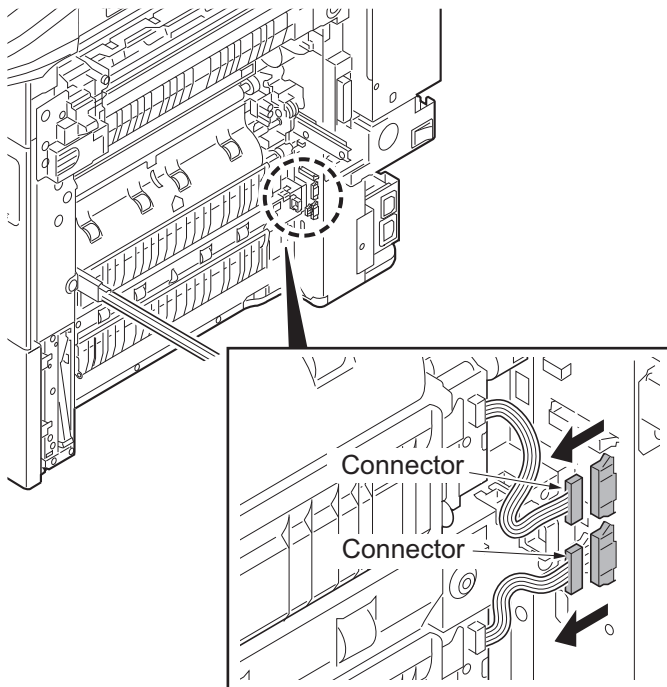


Figure 1-5-6

- 11. Remove two screws each from primary paper feed unit.
- 12. Remove the primary paper feed unit.

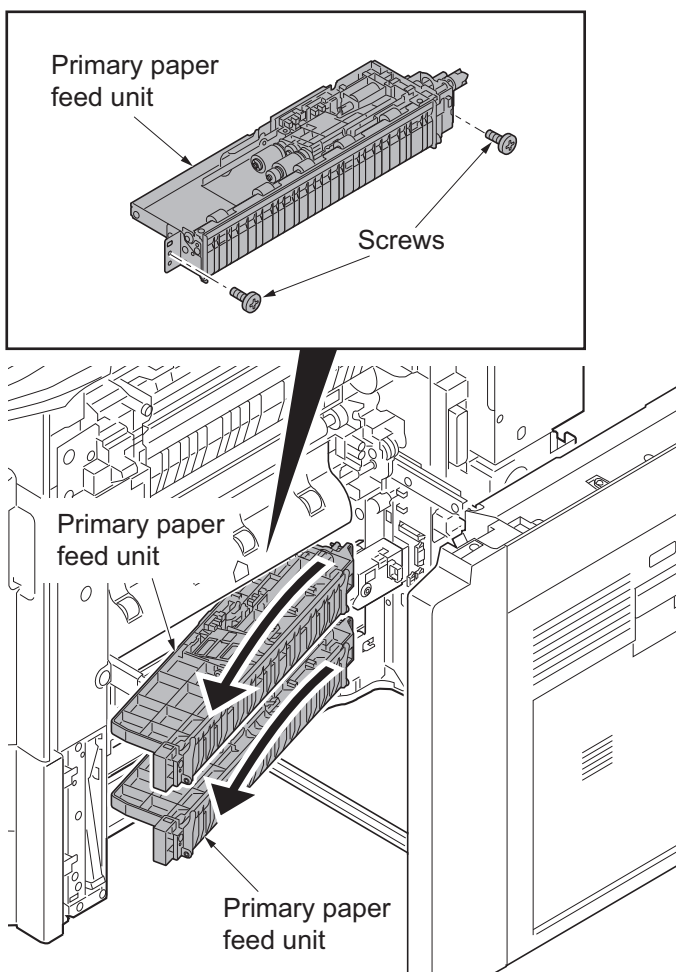


Figure 1-5-7

13. Check or replace the primary paper feed unit and refit all the removed parts.
- \*: When refit the primary paper feed unit, you must confirm the inserted pin to the driving coupler.
  - \*: When refit the primary paper feed unit, you must install the primary paper feed unit while pushing the retard release lever of the lower side.
14. When the primary paper feed unit is replaced, perform maintenance mode U903 (clearing the jam counter) (see page 1-3-134).

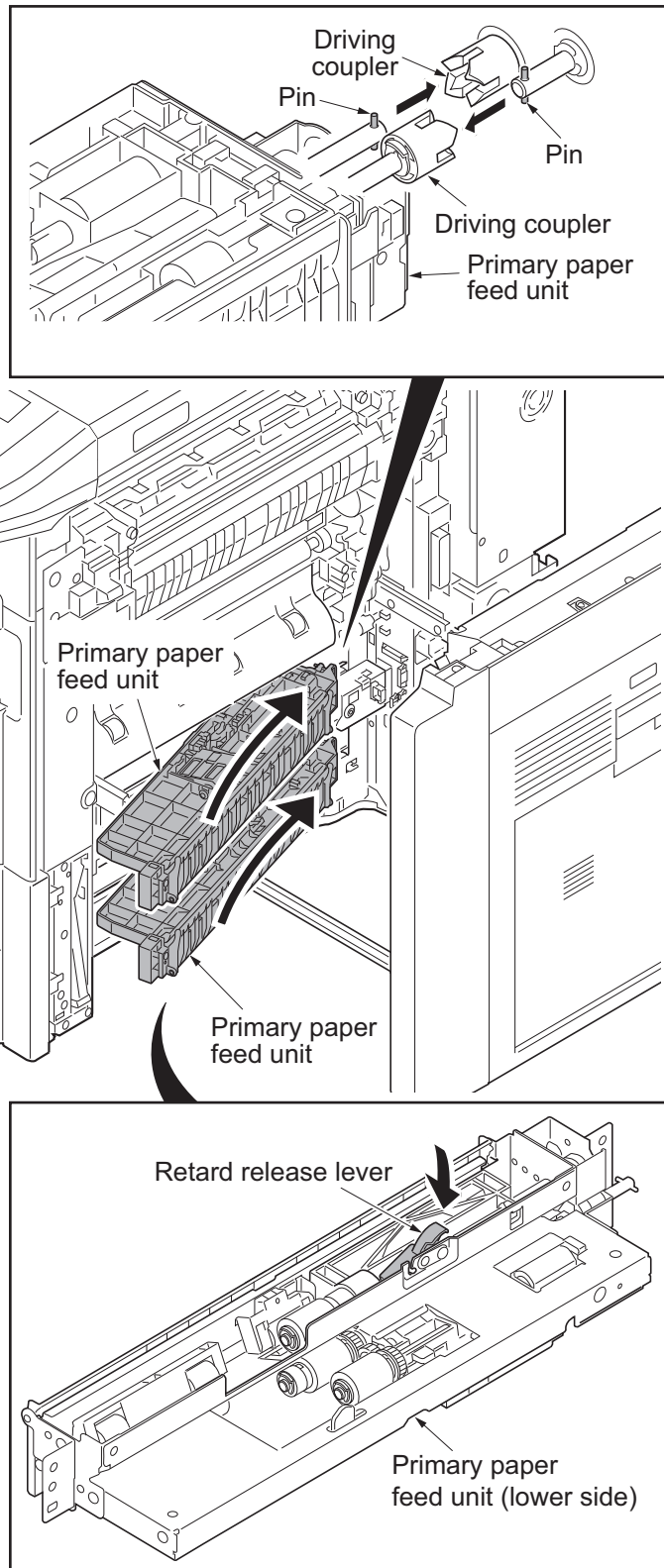


Figure 1-5-8



## (2) Detaching and refitting the forwarding pulley, paper feed pulley and separation pulley.

### Procedure

1. Remove the primary paper feed unit (see page 1-5-3).
2. Remove the stop ring A and then remove the one way clutch and the paper feed pulley.
3. Remove the stop ring B and then remove the forwarding pulley.

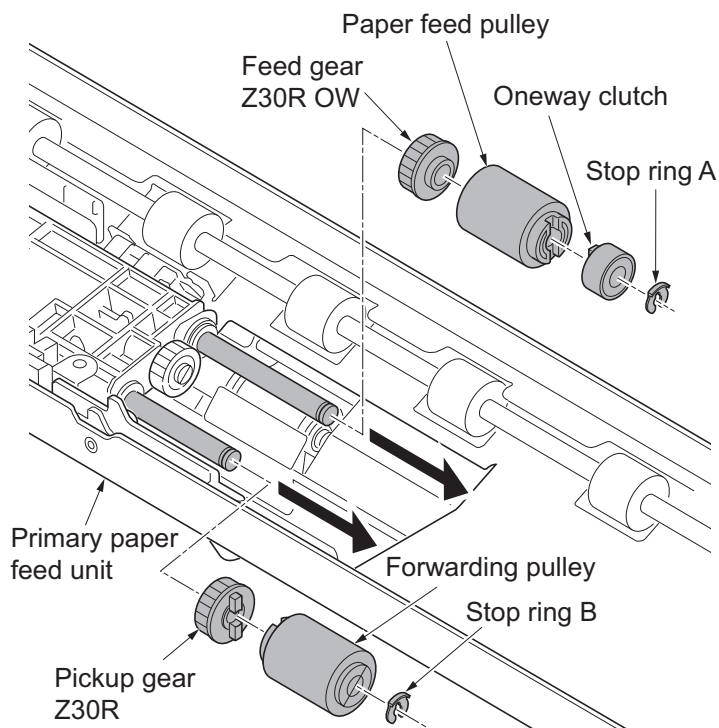


Figure 1-5-9

4. Remove the stop ring.
5. Remove the separation pulley while pushing the retard release lever.
6. Clean or replace the forwarding pulley, paper feed pulley and separation pulley.
7. Refit the forwarding pulley, paper feed pulley and separation pulley to the primary paper feed unit.
8. When the forwarding pulley, paper feed pulley or separation pulley is replaced, perform maintenance mode U903 (clearing the jam counter) (see page 1-3-134).

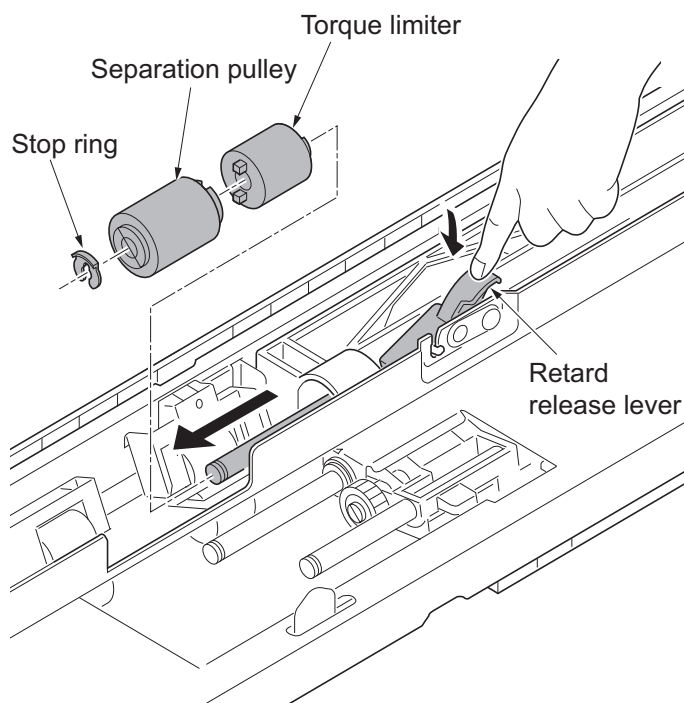


Figure 1-5-10

### (3) Detaching and refitting the MP tray paper feed unit

#### Procedure

1. Pull the paper conveying unit out.
2. Remove screw.
3. Unhook two hooks and then remove the right cover.
4. Remove the right front cover.  
(see page 1-5-32)
5. Remove two screws and then remove the right middle cover.

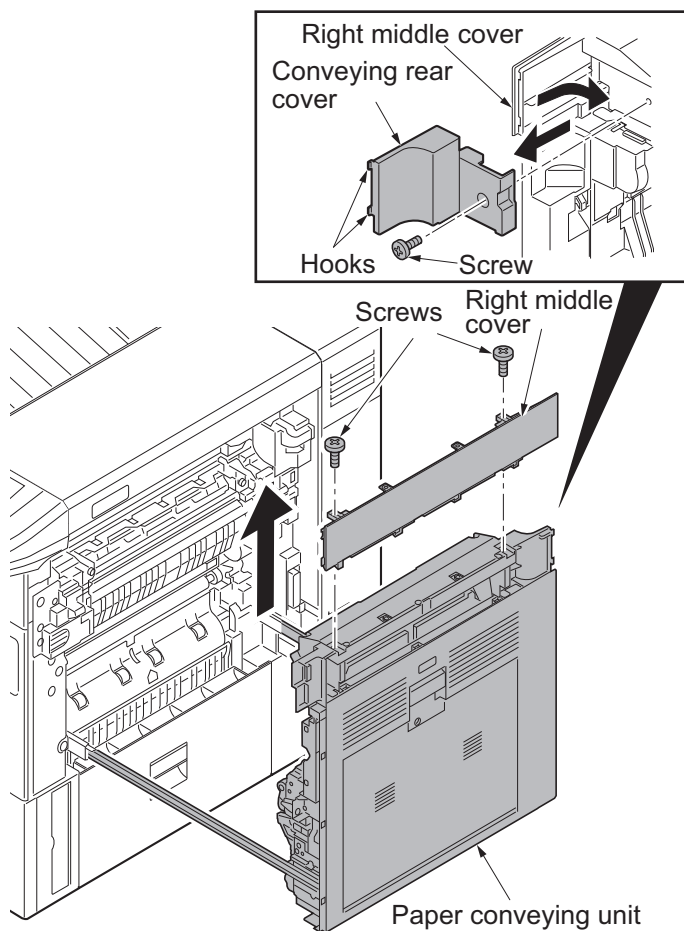
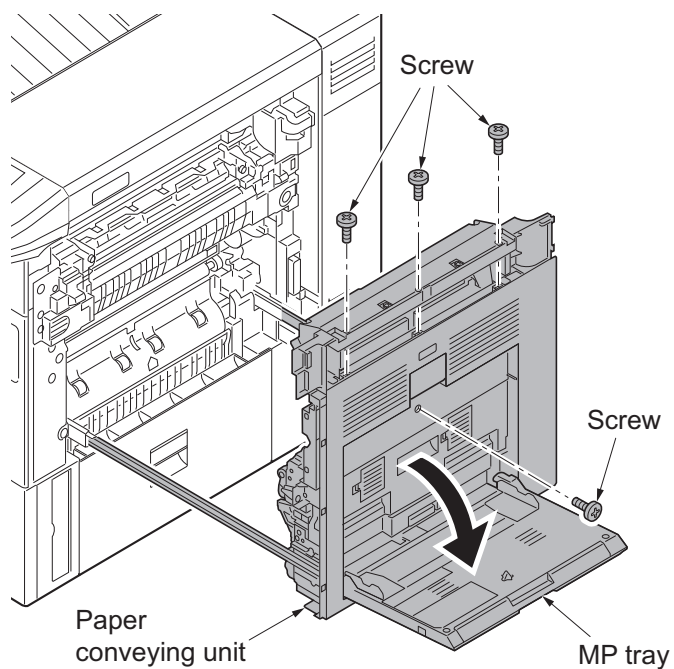


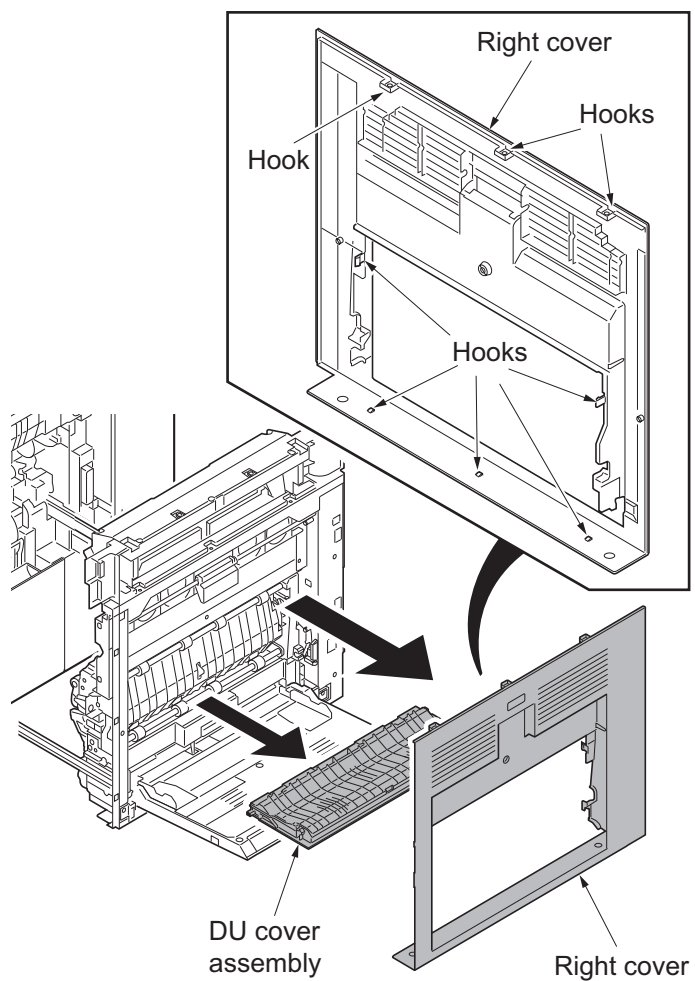
Figure 1-5-11

6. Open the MP tray.
7. Remove four screws.



**Figure 1-5-12**

8. Unhook eight hooks and then remove the right cover and DU cover assembly.



**Figure 1-5-13**

- 9. Remove two connectors.
- 10. Release the wire saddle.
- 11. Remove the wire saddle.
- \*: To refit the wire saddle, be sure to fit in the positioning hole that was previously used.

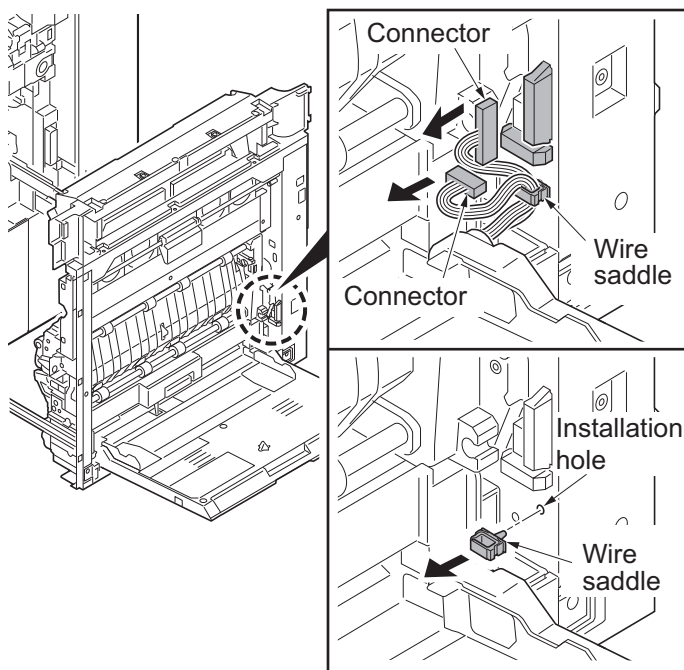


Figure 1-5-14

- 12. Remove the MP tray.
- \*: When refitting the MP tray, insert it in the MP tray paper feed unit side by turning the lift arm.

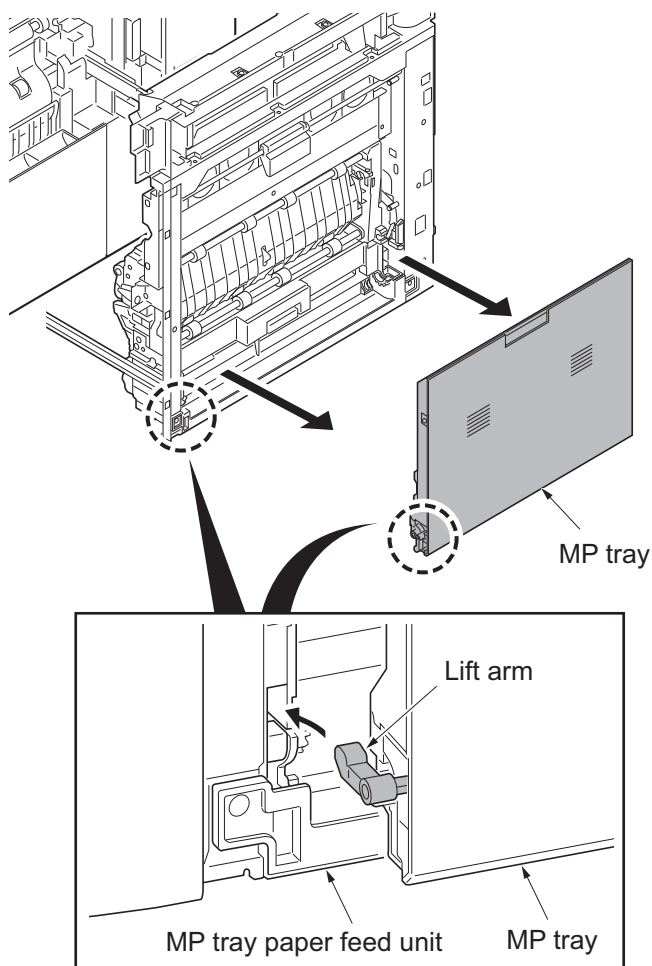
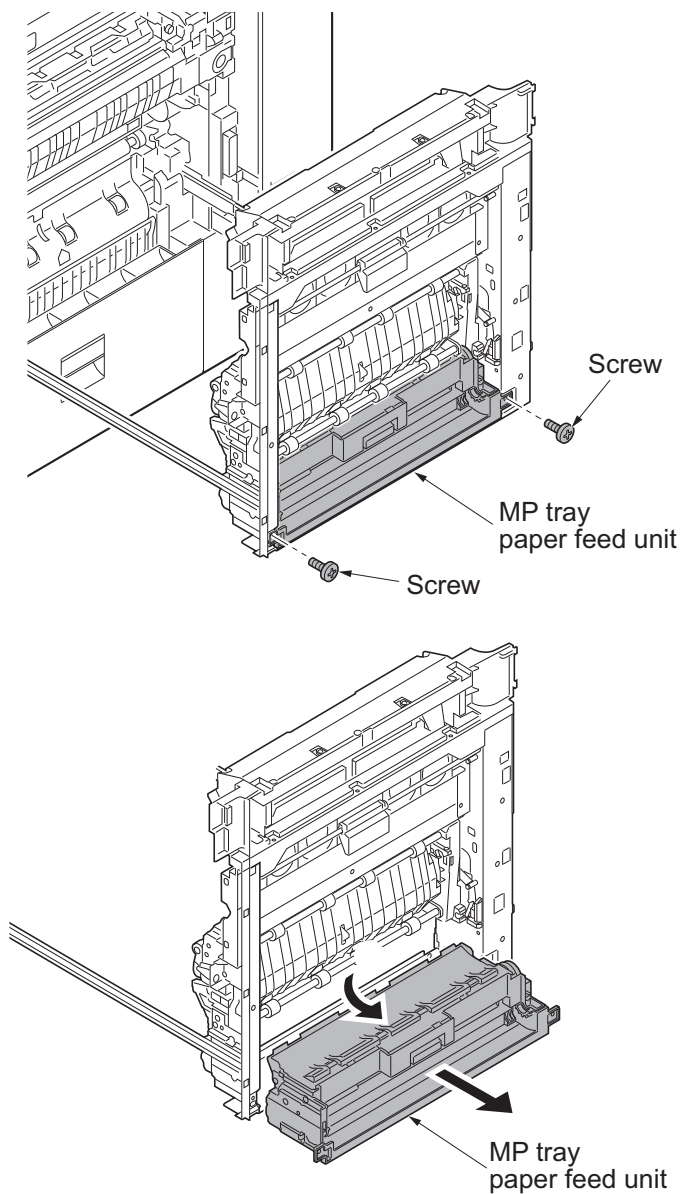


Figure 1-5-15

13. Remove two screws.
14. Remove the MP tray paper feed unit.

\*: To reinstall the MP tray feed unit, align it with the opening in the front left bottom frame of the feed unit, install the MP tray feed unit, and raise it so that it is correctly seated.



**Figure 1-5-16**

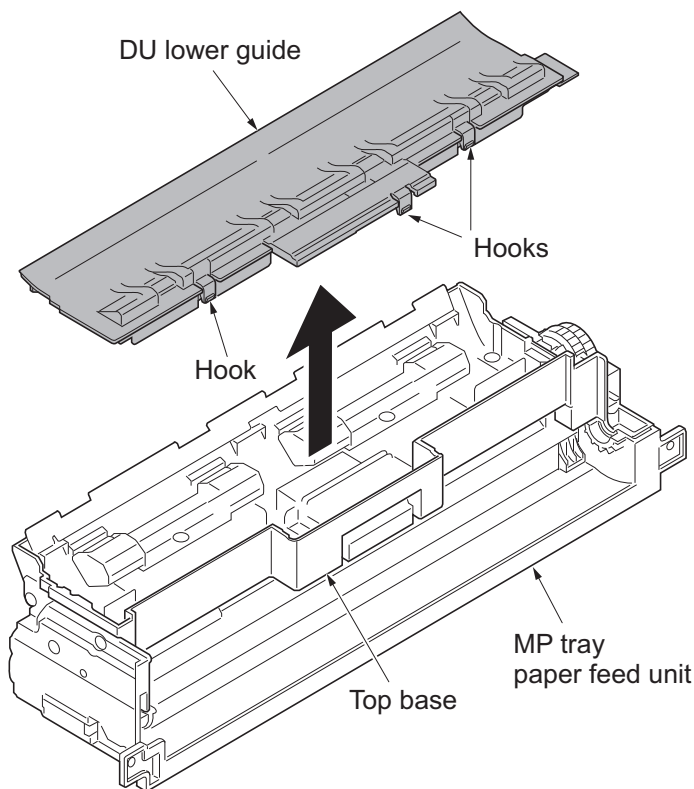
**(4) Detaching and refitting the MP forwarding pulley, MP paper feed pulley and MP separation pulley**

**Procedure**

1. Remove the MP tray paper feed unit (see page 1-5-8).

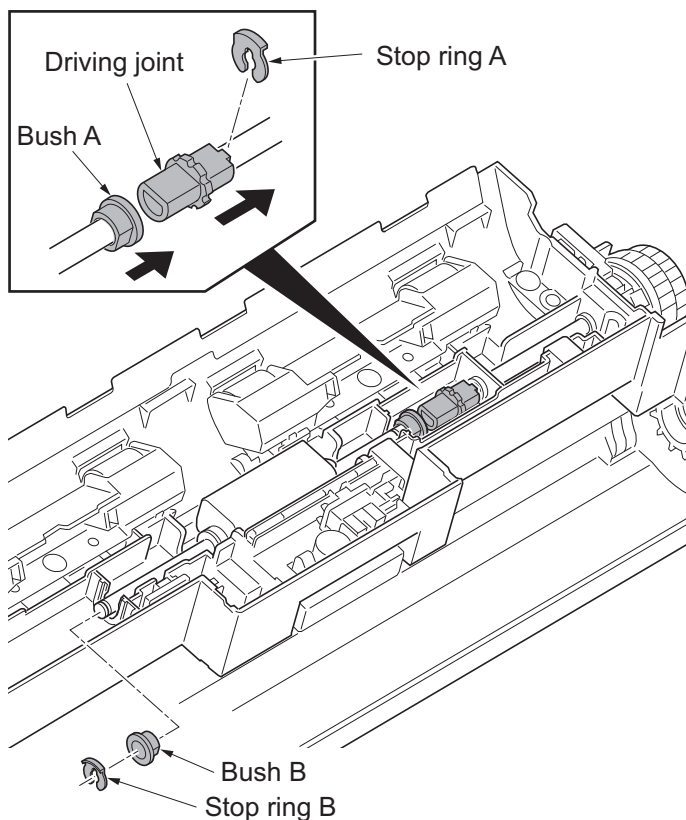
**Detaching forwarding pulley and paper feed pulley**

2. Unhook three hooks and then remove the Du lower guide.
- \*: Remove the DU lower guide easy by bending the top base that the hook is hooking because the hook of the DU lower guide lacks flexibility.



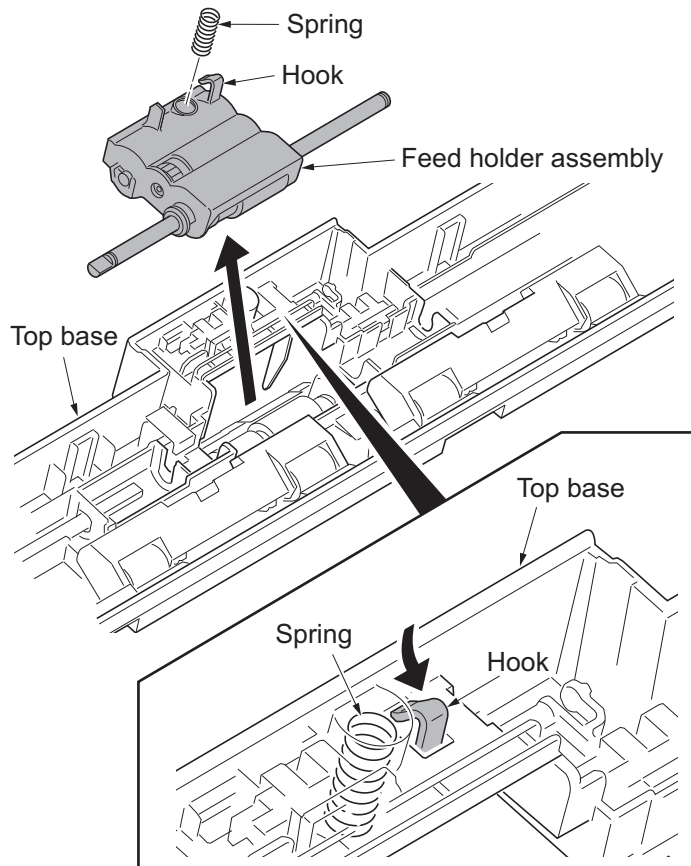
**Figure 1-5-17**

3. Remove the stop ring A and then slide the driving joint.
4. Slide the bush A.
5. Remove the stop ring B and then remove the bush B.



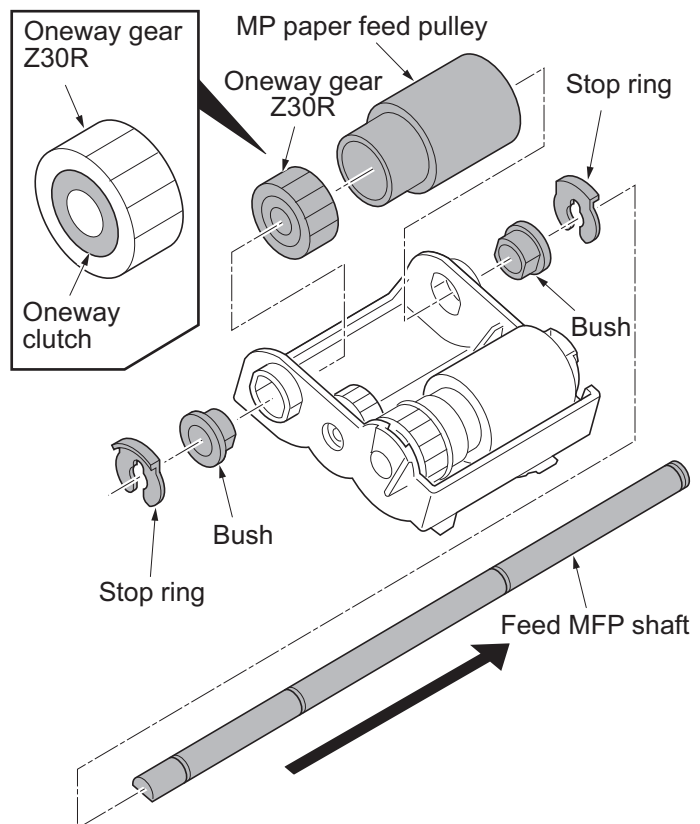
**Figure 1-5-18**

6. Unhook the hook of the feed holder assembly.
7. Remove the spring and the feed holder assembly from the top base.



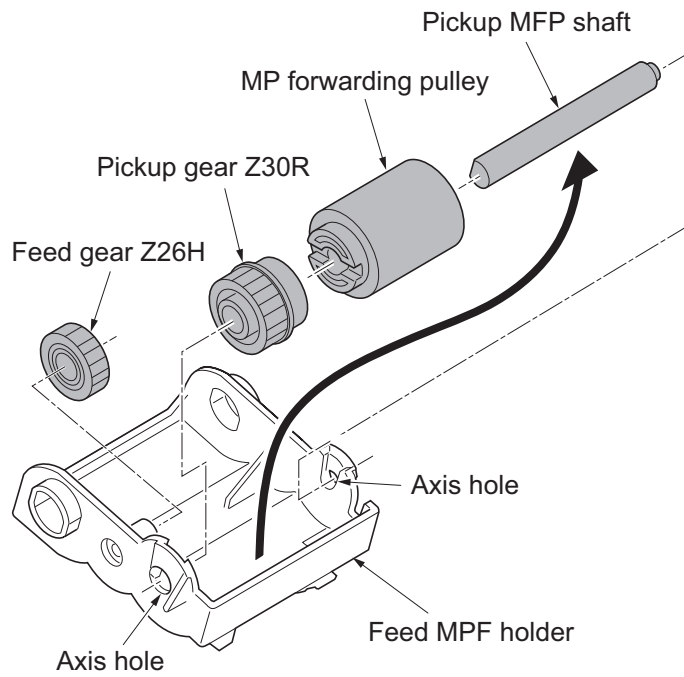
**Figure 1-5-19**

8. Remove two stop rings.
  9. Pull the feed MPF shaft out.
  10. Remove two bushes, one way gear Z30R and MP paper feed pulley.
- \*: To refit the one-way gear Z30R, mount the gear in the correct direction as shown.



**Figure 1-5-20**

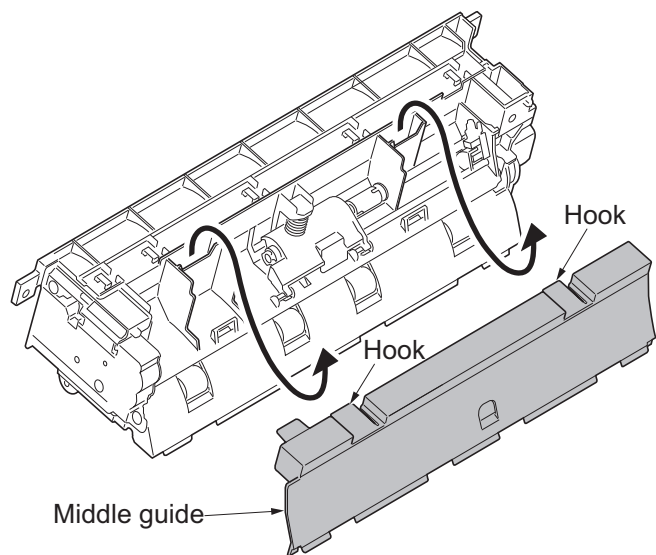
11. Remove the pickup MFP shaft from the axis holes of feed MFP holder.
12. Pull the pickup gear Z30R and MP forwarding pulley out from the pickup MFP shaft.



**Figure 1-5-21**

#### **Detaching the MP separation pulley**

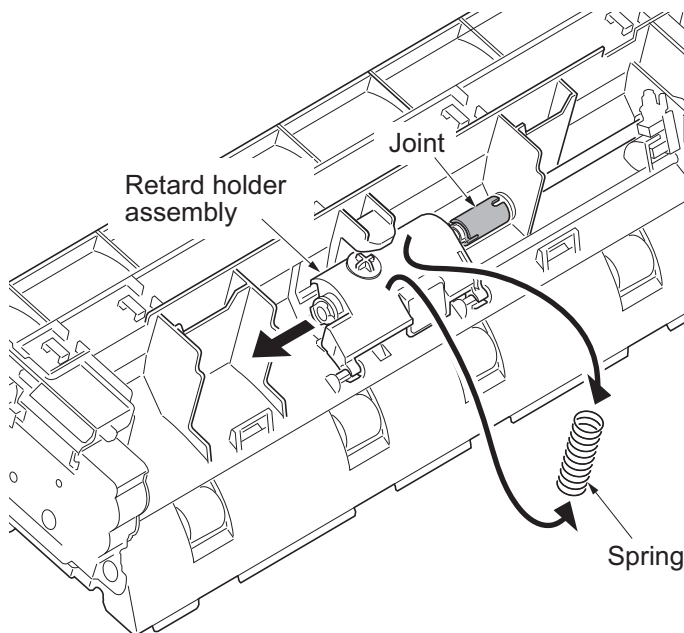
13. Unhook two hooks and then remove the middle guide.



**Figure 1-5-22**

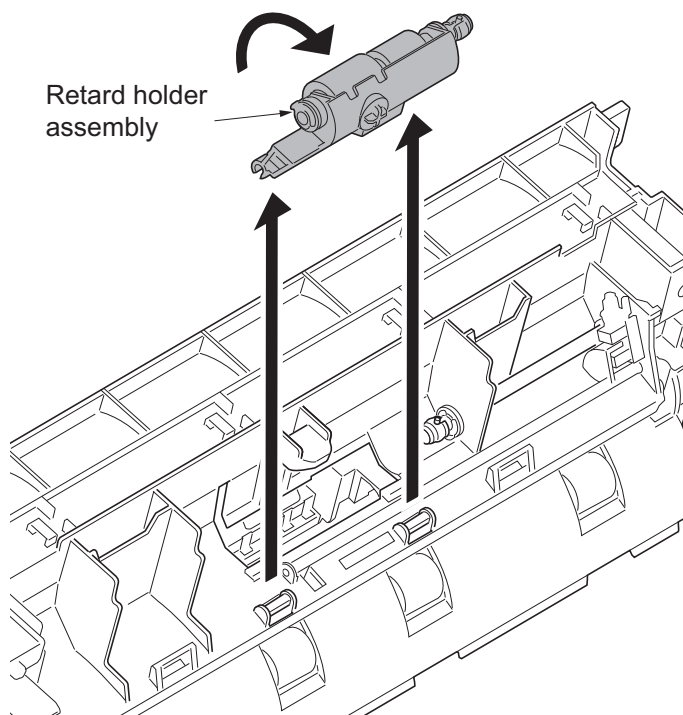


14. Remove the spring.
15. Release the uniting of joint by sliding the retard holder assembly.



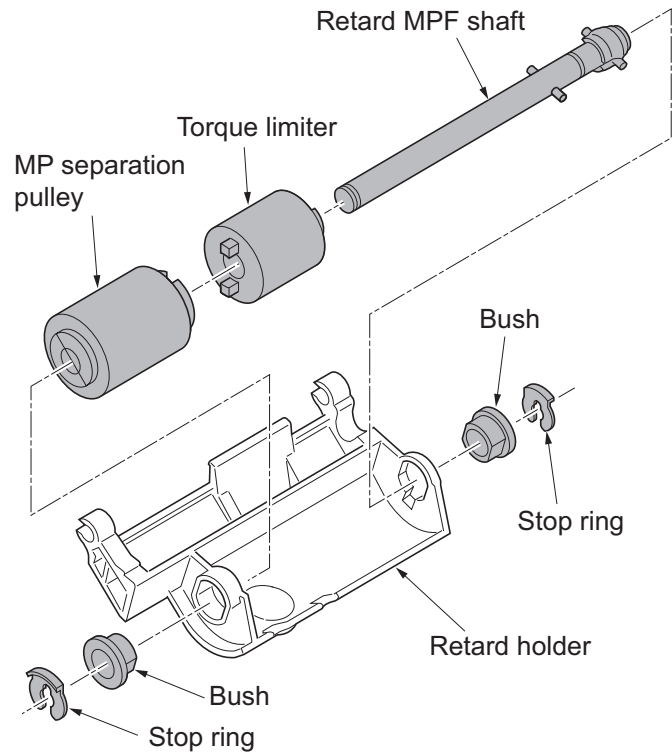
**Figure 1-5-23**

16. Remove the retard holder assembly by turning it as shown.



**Figure 1-5-24**

17. Remove two stop rings.
18. Remove two bushes.
19. Pull the retard MPF shaft out and then remove the torque limiter and the MP separation pulley.
20. Clean or replace the MP forwarding pulley, MP paper feed pulley and MP separation pulley.
21. Refit the MP forwarding pulley, MP paper feed pulley and MP separation pulley to the MP tray paper feed unit.
22. When the MP forwarding pulley, MP paper feed pulley or MP separation pulley is replaced, perform maintenance mode U903 (clearing the jam counter) (see page 1-3-134).



**Figure 1-5-25**

## 1-5-3 Optical section

### (1) Detaching and refitting the LSU

#### Procedure

1. Remove the paper conveying unit (see page 1-5-32).
2. Remove the left upper cover (see page 1-5-44).
3. Remove the toner filter.
4. Remove the left filter cover and the left filter.
5. Remove two transfer belt filters.
6. Remove the left cover lid.
7. Open the front cover and remove screw A.
8. Remove four screws B and then remove the left cover.

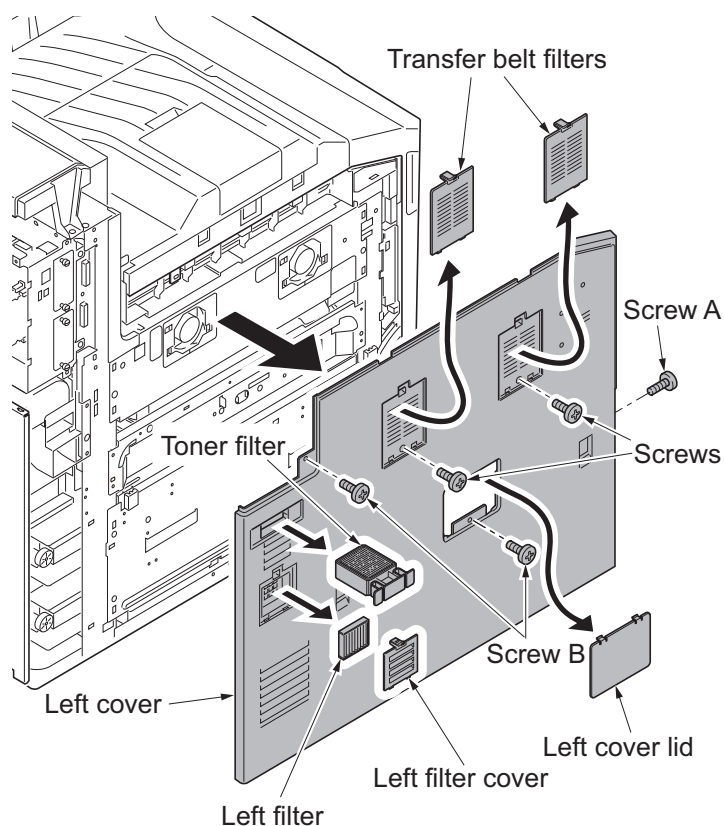
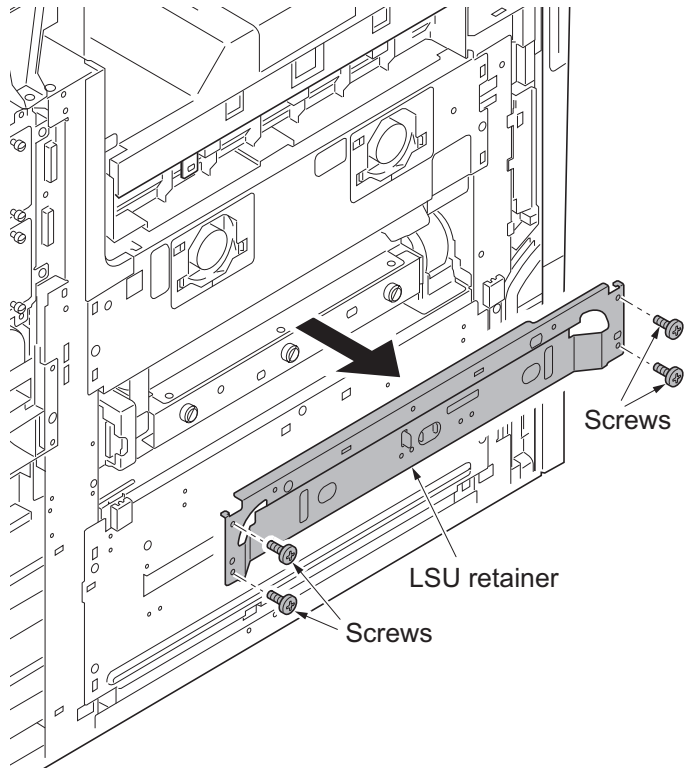


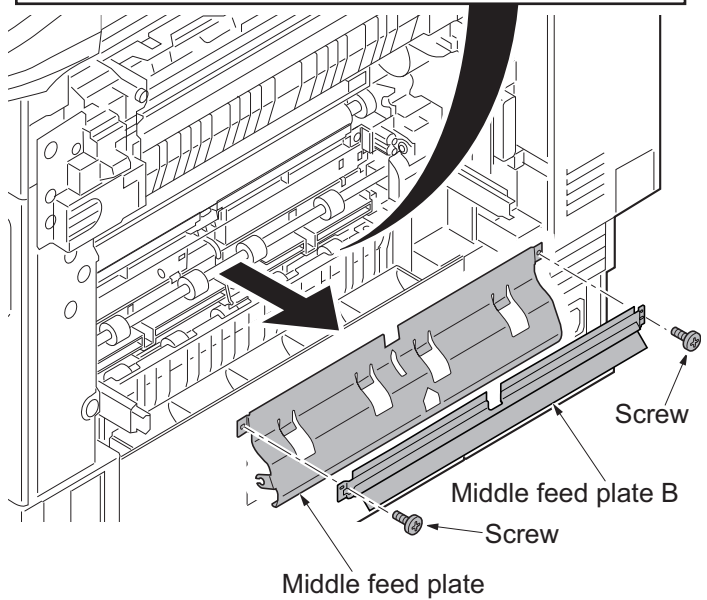
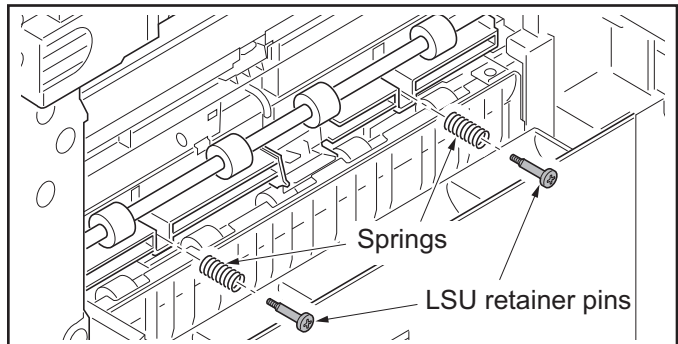
Figure 1-5-26

9. Remove four screws and then remove the LSU retainer.



**Figure 1-5-27**

10. Remove two screws and then remove the middle feed plate and middle feed plate B.
11. Remove two LSU retainer pins and two springs.



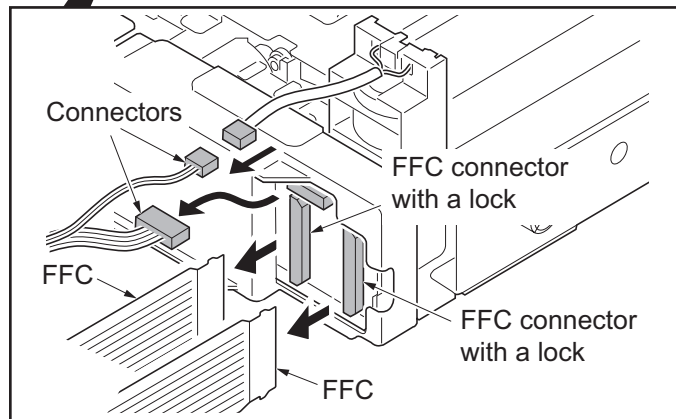
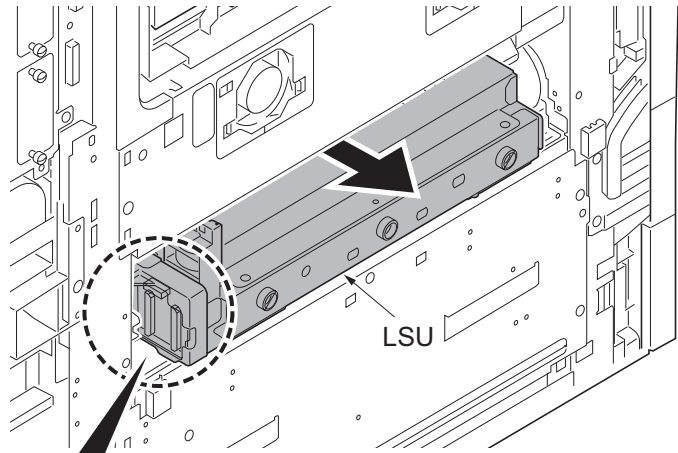
**Figure 1-5-28**

12. Pull the LSU out a little.  
 13. Remove the following connector from the LSU.

30 ppm model/35 ppm model:  
 FFC connector with a lock: 1pcs  
 Connector: 2pcs

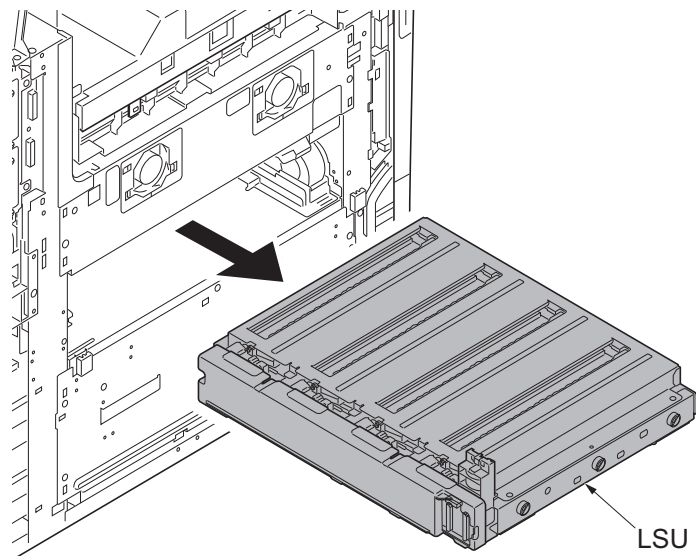
45 ppm model/55 ppm model:  
 FFC connector with a lock: 2pcs  
 Connector: 2pcs

- \*: When remove the FFC from the FFC connector with a lock, removing it after release the lock by lifting the lock lever up.



**Figure 1-5-29**

14. Pull the LSU out from the body of the machine.



**Figure 1-5-30**

15. Remove seven screws and then remove the LSU mount lid.

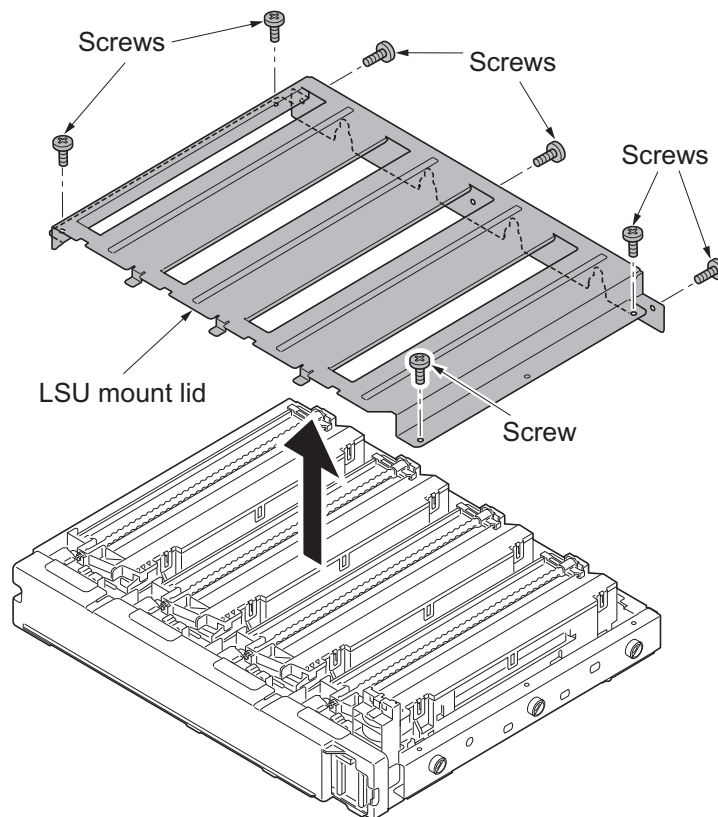


Figure 1-5-31

16. Remove the screw.  
17. Unhook four hooks and then remove the LSU relay PWB cover.

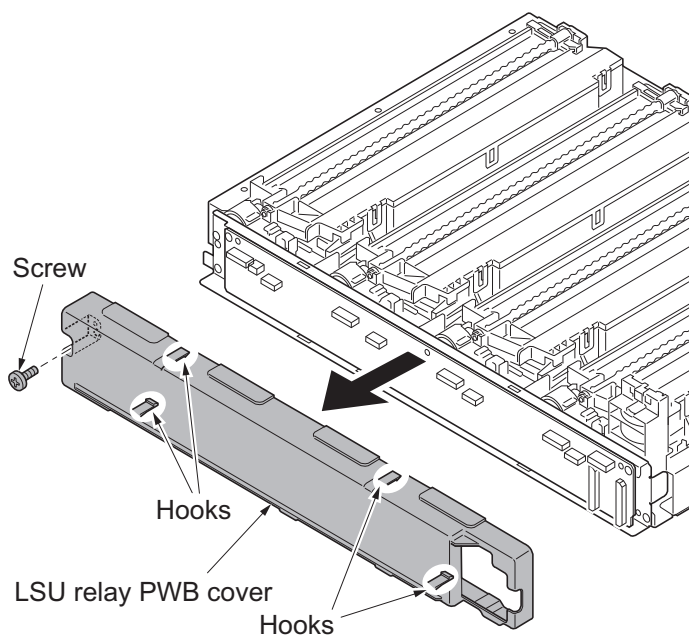
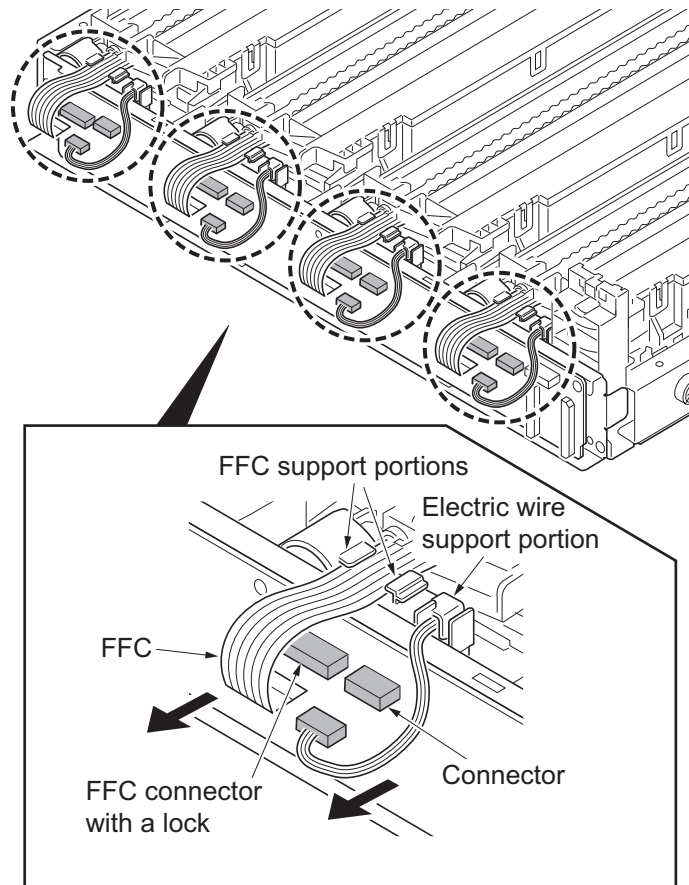


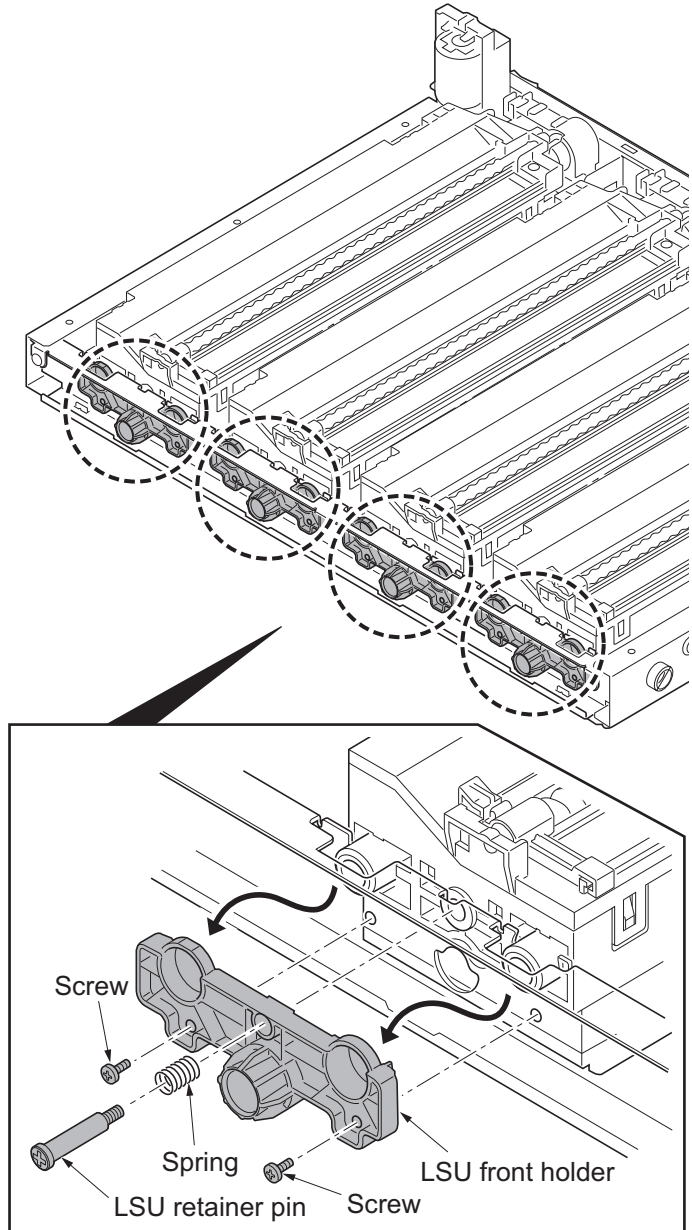
Figure 1-5-32

18. Remove all the connectors and the FFC connectors with a lock.
- \*: When remove the FFC from the FFC connector with a lock, removing it after release the lock by lifting the lock lever up.
19. Remove the electric wire from the electric wire support portion.
20. Remove the FFC from the FFC support portion.



**Figure 1-5-33**

21. Remove the LSU retainer pins and the springs.
22. Remove two screws each and then remove the LSU front holder.



**Figure 1-5-34**



23. Wrap an antistatic discharging belt around your wrist to prevent damage to the LSU.

\*: Do not touch terminals and FFC contacts in the APC PWB of the LSU.

24. Remove four LSUs, following the precautions and instructions below.

(1) Lift the far end of the LSU.

(2) Unhook the protrusions at the front of the LSU.

\*: Be sure to handle the front and rear handholds when handling the LSU.

\*: Do not get the LSU in direct contact with the holding frame subsequently applying shocks to the polygon motor inside.

25. Check or replace the LSU and refit all the removed parts.

\*: When reconnecting FFCs, be sure to insert the FFC all the way in with the FFC connector. This is to avoid a lengthy servicing due to a possible error which could cause re-disassembly and -assembly.

26. When replacing the new LSU, proceed as follows:

1) Performs maintenance mode U469 (Color registration correction) (see page 1-3-126).

2) Performs maintenance mode U119 (Setting the drum) (see page 1-3-65).

3) Performs maintenance mode U464 (Calibration) (see page 1-3-118).

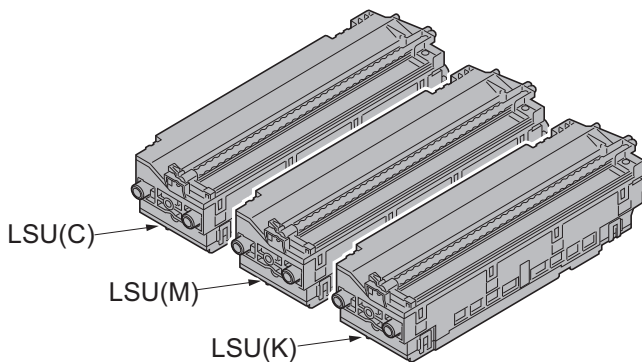
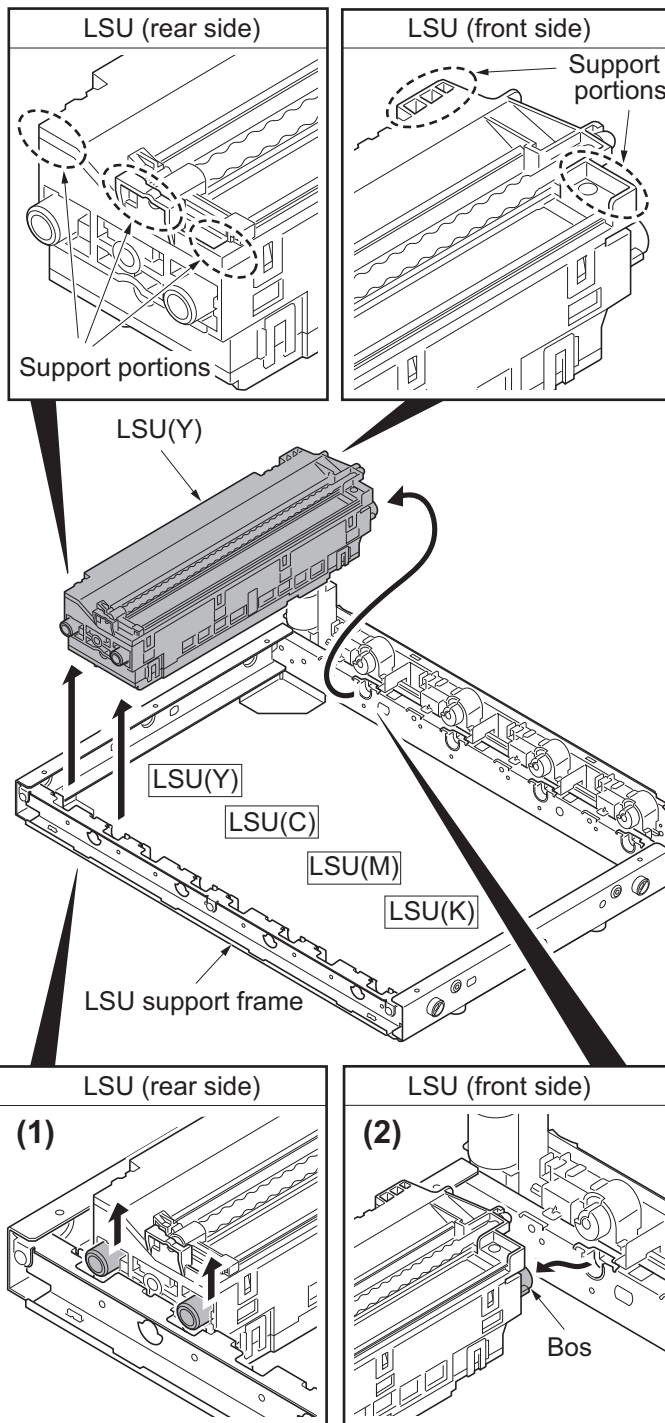


Figure 1-5-35

## (2) Color registration adjustment

Follow the procedure below to replace the laser scanner unit.

### Procedure

1. Press the menu key.
2. Performs maintenance mode U464 (Calibration) (see page 1-3-118).
3. Select [Adjustment/Maintenance], [Color Registration], [Detail], [Chart printing] and then press the OK key. In the confirmation screen, press [Yes] ([Left select key]). A chart is printed.
4. Select [Adjustment/Maintenance], [Color Registration], [Detail], [Magenta registration] and then press the OK key.
5. Read figures at H-1 to 7 and V-3 of the reference chart and enter the figure marked at the scale which the BK fine line is in line with the magenta fine lines, using the up/down keys.
6. Press OK key. A preset value is saved.
7. Select [Cyan registration] or [Yellow registration] and then repeat steps 3 through 5.

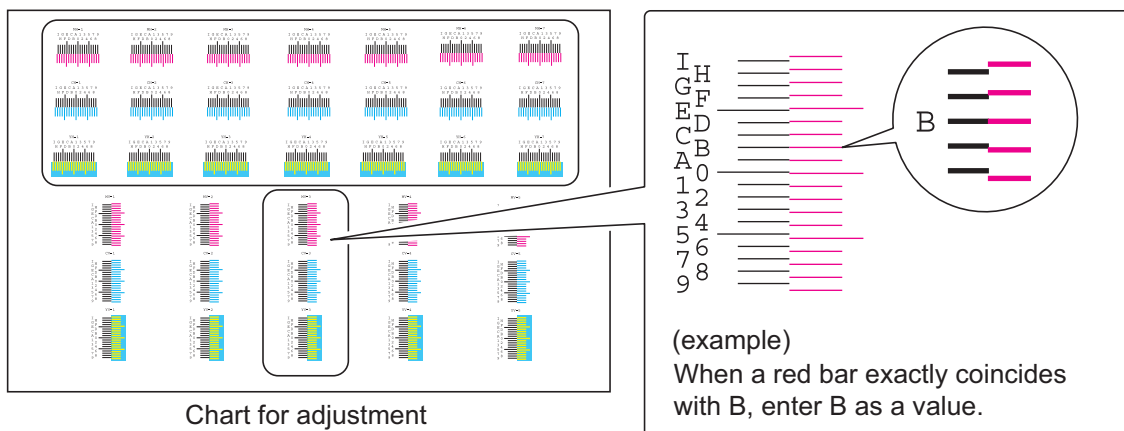


Figure 1-5-36

8. Output the chart by Procedure 2 again.
9. Verify that each scale is within the range of 1 to A. If they are within the range, proceed to step 9. If scales are out of range, repeat steps 3 through 6.

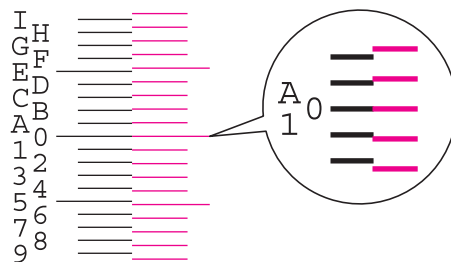


Figure 1-5-37

10. Verify that scales of MV-1,2,4,5/CV-1,2,4,5/YV-1,2,4,5 coincide within the range of 1 to A.  
 If they are within the range, adjustment is complete.  
 If they are out of range, proceed to step 10.

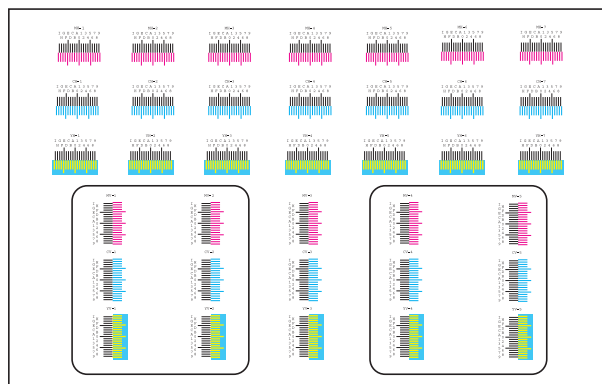


Chart for adjustment

Figure 1-5-38

**If manual color registration has failed:**

11. If the balance between V-1 and V-5 is more than 2 scales (sample 1) or less than -2 scales (sample 2), perform the following steps:

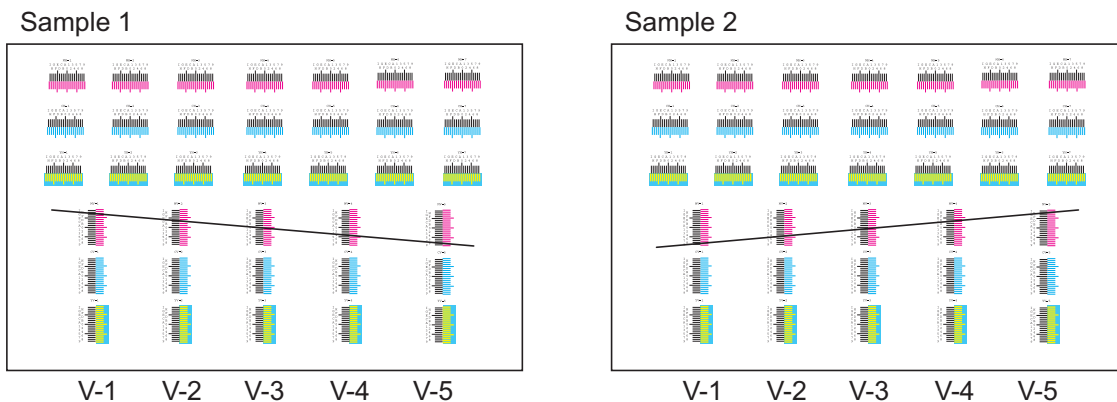


Figure 1-5-39

12. Open the front cover and then pull out the waste toner box tray (see page 1-5-27).
13. Rotate the adjustment knob using a 5 mm hex wrench.
  - Direction of rotation
  - (V-1 - V-5)  $\geq 2$  scales (sample 1): rotate counterclockwise.
  - (V-1 - V-5)  $\leq -2$  scales (sample 2): rotate clockwise.
  - Number of rotation
  - (V-1 - V-5) x 4 clicks
14. Refit the waste toner box tray as before and then close the front cover.
15. Perform shut-down on the operation panel, turn power off (see page p.1-2-19).
  - Correction automatically starts.
16. Print a reference chart and verify the result.

### Caution

After the adjustment for the angle of the mirror has been made, run the maintenance mode U464 (Calibration). (see page 1-3-118)

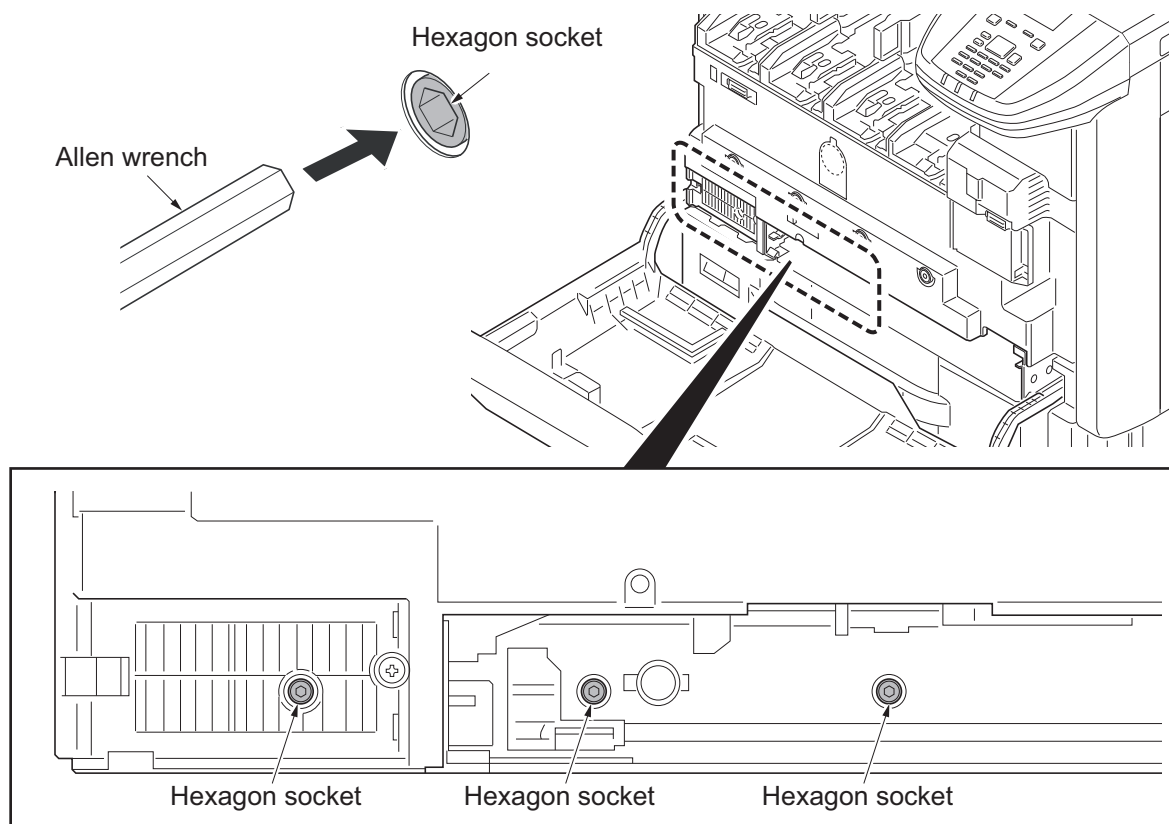


Figure 1-5-40

## 1-5-4 Image formation section

### (1) Detaching and refitting the inner unit

#### Procedure

1. Open the front cover.
2. Remove all toner container each.
3. Remove the waste toner box tray by lifting upwards and from the right side.

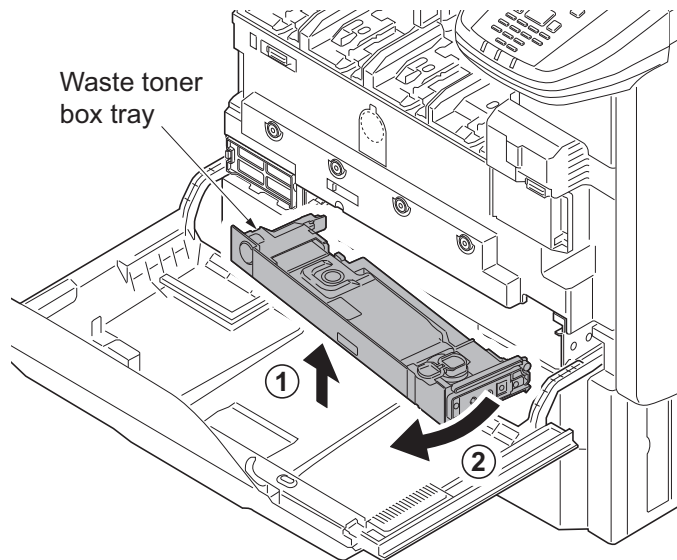


Figure 1-5-41

4. Remove the screw and then open the connector cover.
5. Remove the connector.
6. Remove three fixed screws of inner unit.
7. Turn the bandage sheet over and remove the fixed screw B.

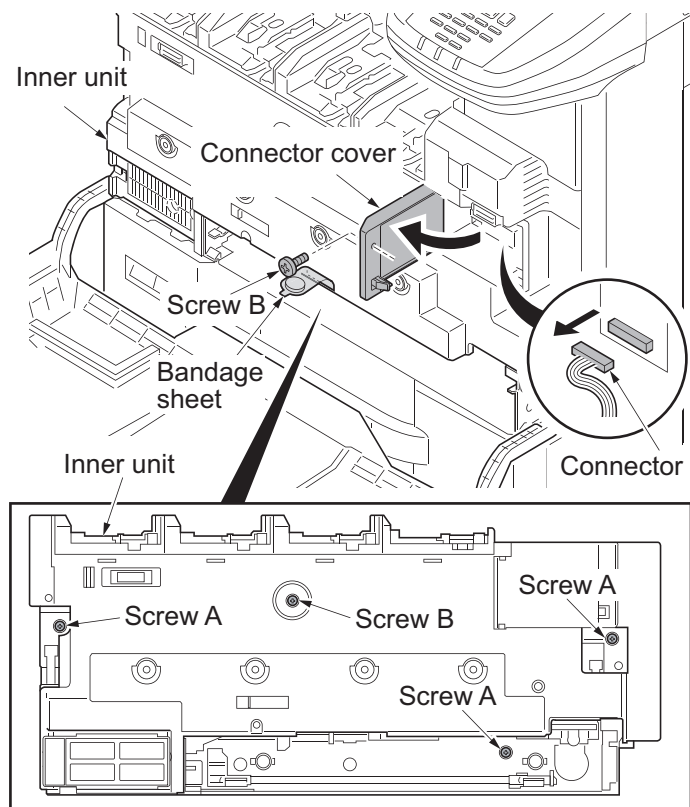


Figure 1-5-42

8. Release the lock by pushing the fixed levers at the right and left of inner unit.
9. Remove the inner unit.

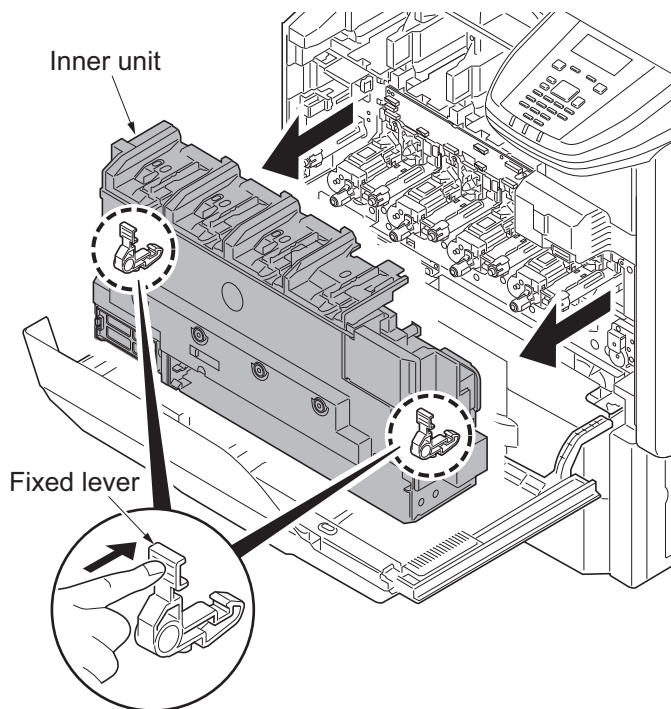


Figure 1-5-43

## (2) Detaching and refitting the developer unit and drum unit

Detaching example: Developer unit Y and Drum unit Y

### Procedure

1. Remove the fuser unit (see page 1-5-40).
2. Pull the transfer belt unit out a little (see page 1-5-34).
3. Remove the inner unit (see page 1-5-27).
4. Close the toner supply shutter.
5. Remove two connectors.

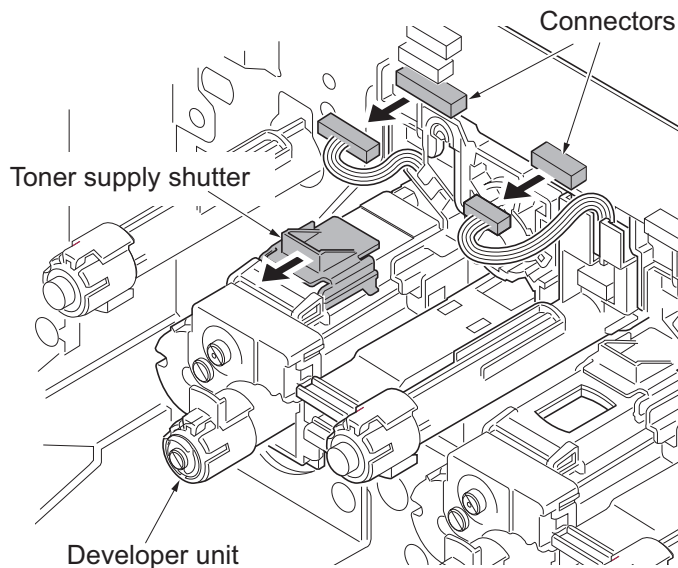


Figure 1-5-44

6. Pull out as one body the developer unit and the drum unit.  
(The developer unit becomes basic and the drum units are combined.)
7. Detach the developer unit while supporting bottom.

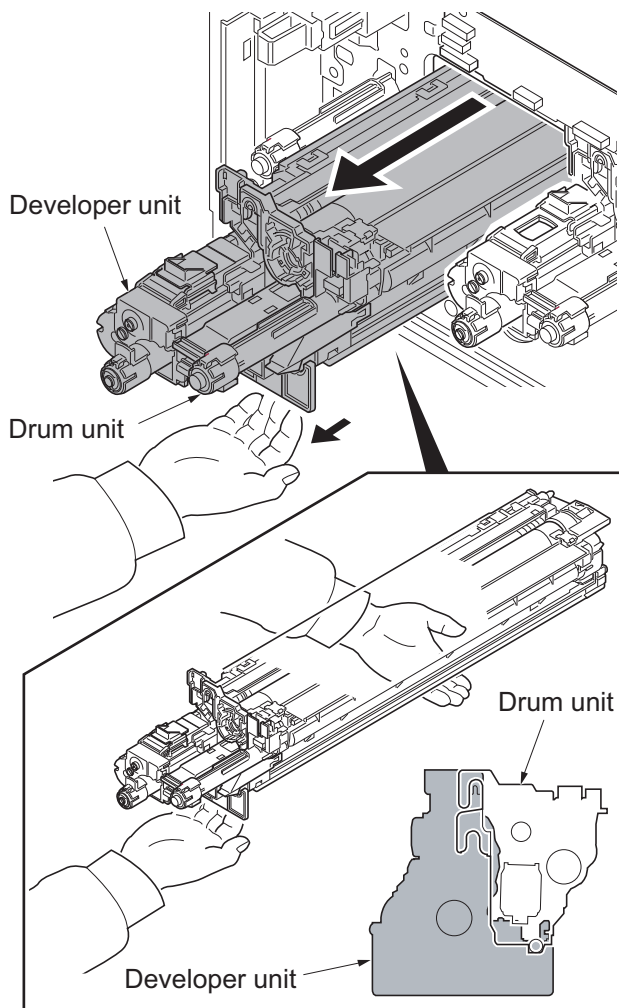
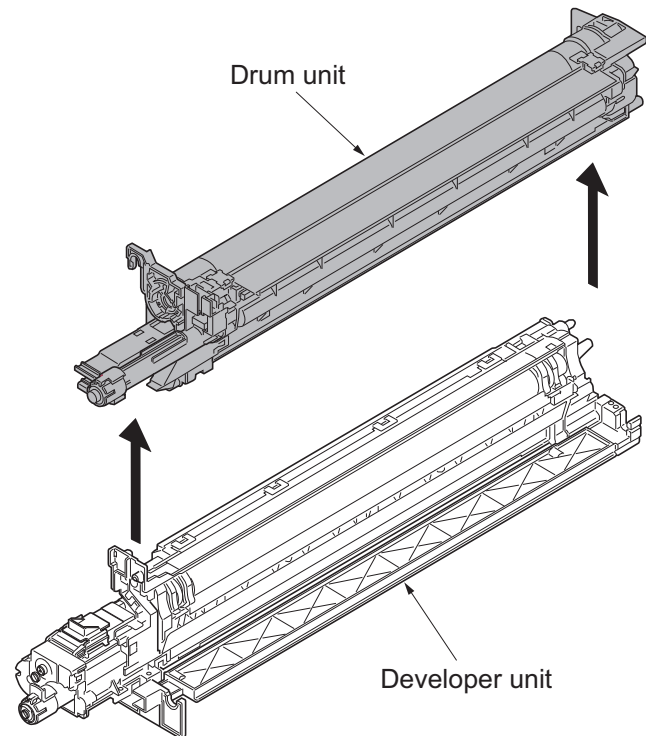


Figure 1-5-45

8. Remove the drum unit from the developer unit.
9. Check or replace the drum unit and the developer unit and refit all the removed parts.
10. When replacing the new developer unit, proceed as follows:
  - 1) Performs maintenance mode U140 (AC calibration) (see page 1-3-73).
  - 2) Performs maintenance mode U464 (Calibration) (see page 1-3-118).
  - 3) Performs maintenance mode U469 (Auto color registration correction) (see page 1-3-126).



**Figure 1-5-46**

11. When replacing the new drum unit, proceed as follows:
  - 1) Performs maintenance mode U119 (drum setup) (see page 1-3-65).
  - 2) Performs maintenance mode U930 (checking/clearing the charger roller count) and checking the counter value (see page 1-3-145).
  - 3) Performs maintenance mode U140 (AC calibration) (see page 1-3-73).
  - 4) Performs maintenance mode U464 (Calibration) (see page 1-3-118).
  - 5) Performs maintenance mode U469 (Auto color registration correction) (see page 1-3-126).
  - 6) Performs maintenance mode U464 (Calibration) (see page 1-3-118).



### (3) Detaching and refitting the charger roller unit

Detaching example: Charger roller unit Y

#### Procedure

1. Remove the inner unit (see page 1-5-27).
2. Pull out the charger roller unit by picking and releasing the MC lock lever.
3. Check or replace the charger roller unit and refit all the removed parts.

\*: When refitting the charger roller unit, that must hook the hook certain by operating the MC lock lever after inserting the charger roller unit until bumping.

4. When replacing the new charger roller unit, proceed as follows:  
Performs maintenance mode U930 (clearing the charger roller count) (see page 1-3-145).

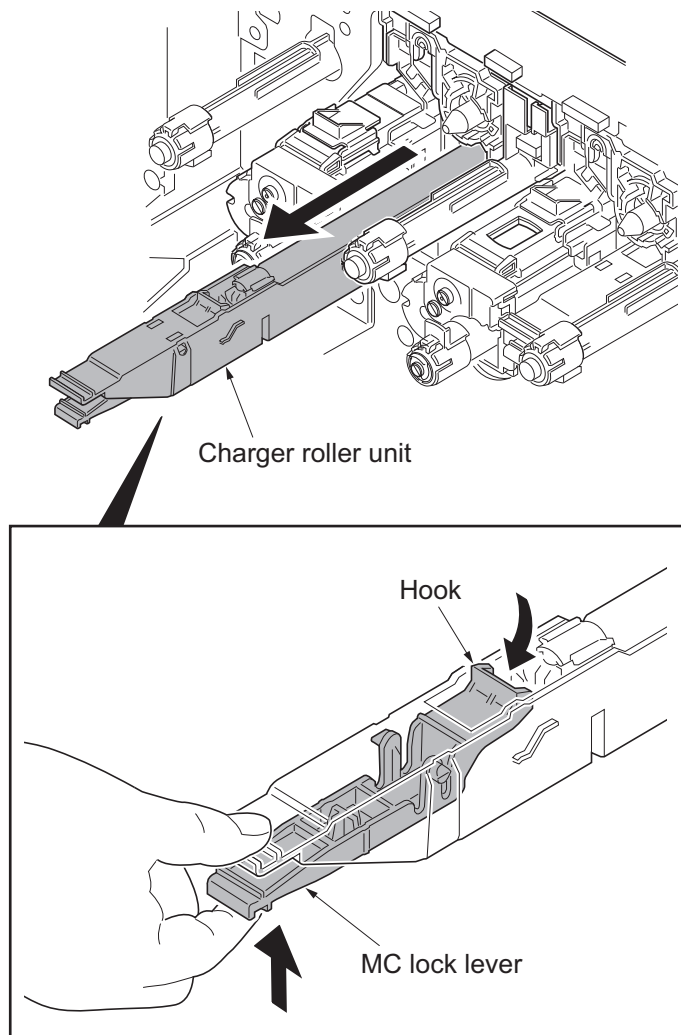


Figure 1-5-47

## 1-5-5 Transfer section

### (1) Detaching and refitting the paper conveying unit

#### Procedure

1. Pull the paper conveying unit out.
2. Remove four screws.
3. Unhook three hooks and then remove the right front cover.

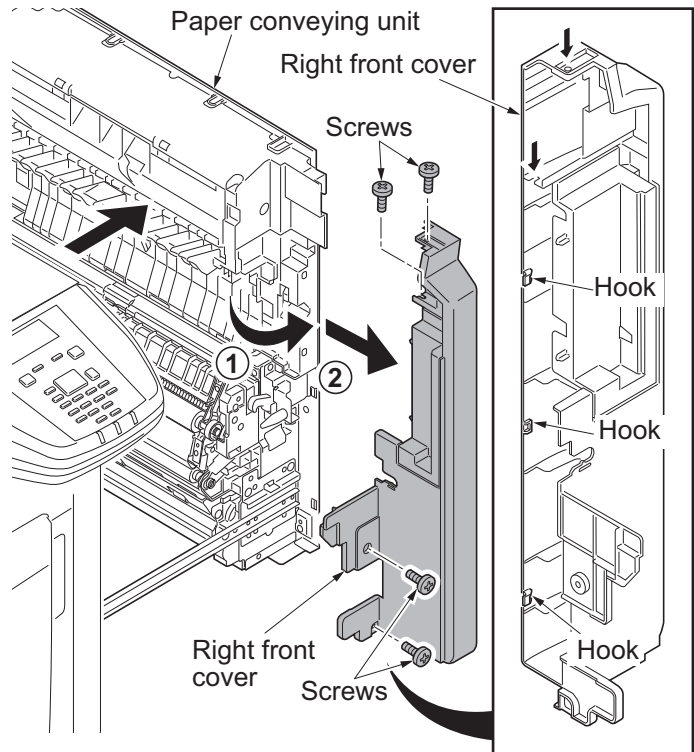


Figure 1-5-48

4. Unhook two hooks and then remove the conveying inner cover from the paper conveying unit.

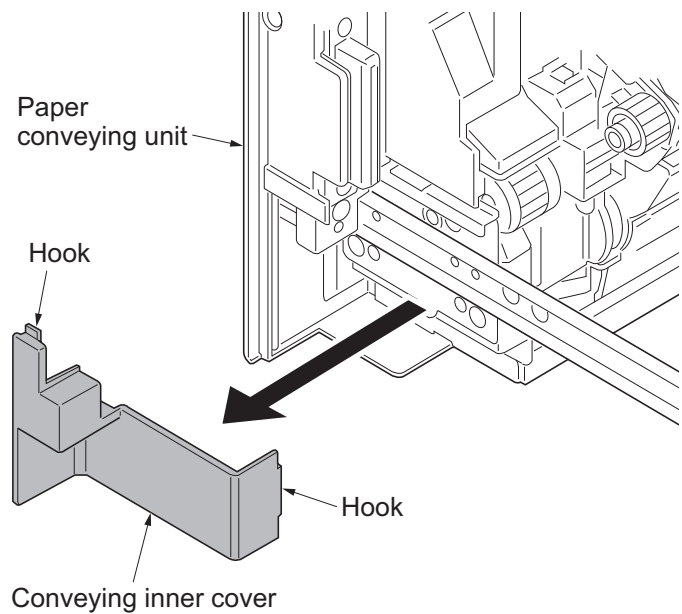


Figure 1-5-49

- 5. Remove four screws.
- 6. Remove the paper conveying unit by lifting upward.

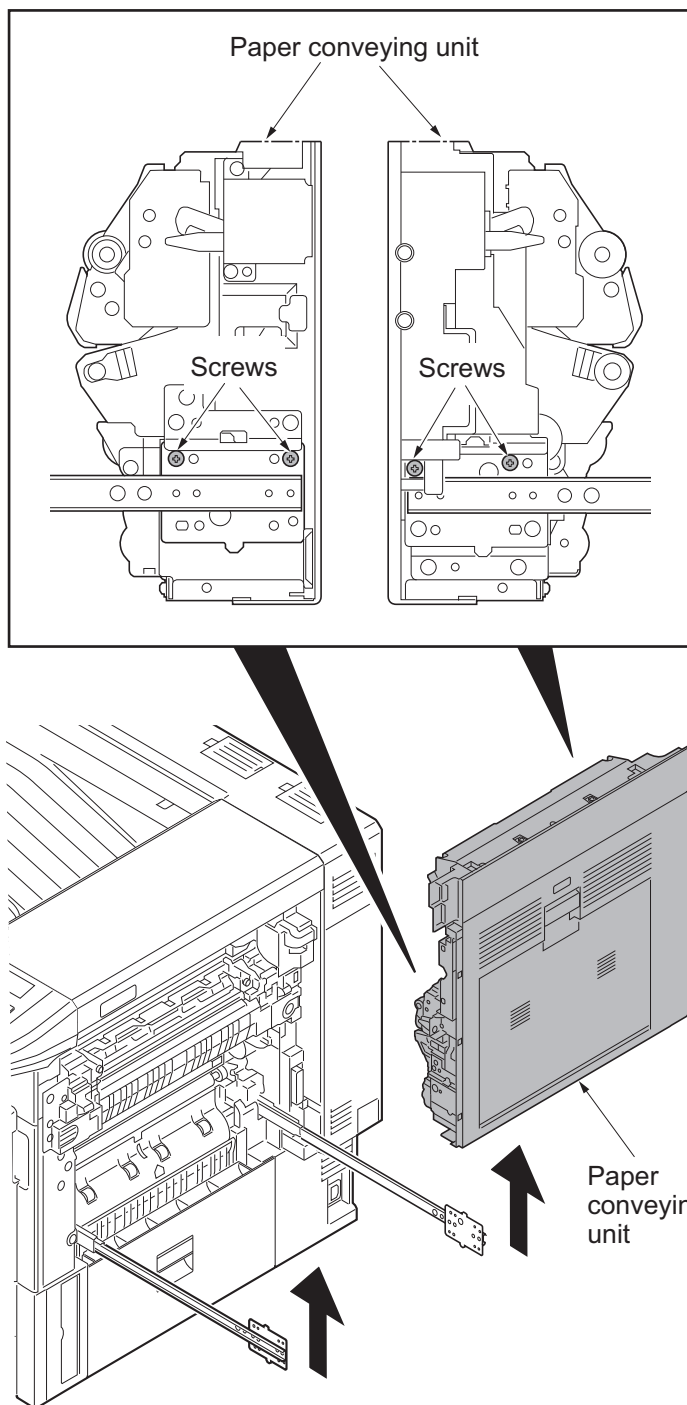


Figure 1-5-50

## (2) Detaching and refitting the transfer belt unit

### Procedure

1. Remove the paper conveying unit (see page 1-5-32).
2. Remove the fuser unit (see page 1-5-40).
3. Remove the connector.

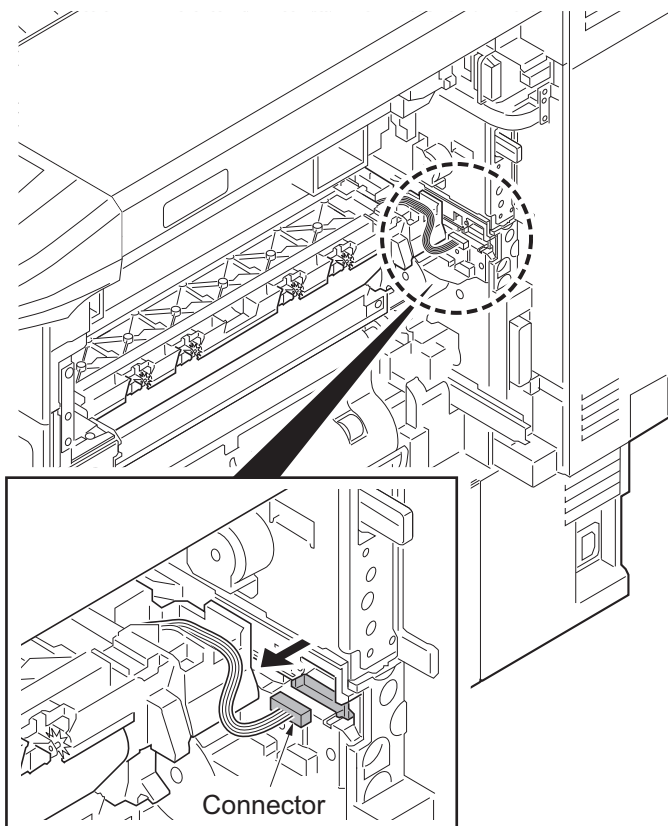


Figure 1-5-51

4. Pull out the transfer belt unit by lifting up both ends.

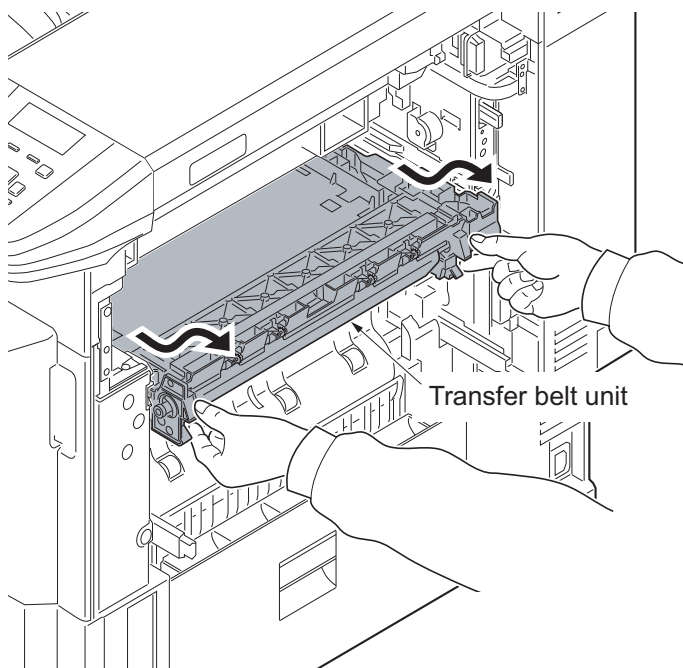


Figure 1-5-52

5. Remove the transfer belt unit.
6. Check or replace the transfer belt unit and refit all the removed parts.

\*: When refitting the new transfer belt unit, set the projected part aligned with the rail entrance.

7. When replacing the new transfer belt unit, proceed as follows:
  - 1) Performs maintenance mode U469 (Transfer belt speed correction) (see page 1-3-126).
  - 2) Performs maintenance mode U464 (Calibration) (see page 1-3-118).
  - 3) Performs maintenance mode U469 (Auto color registration correction) (see page 1-3-126).

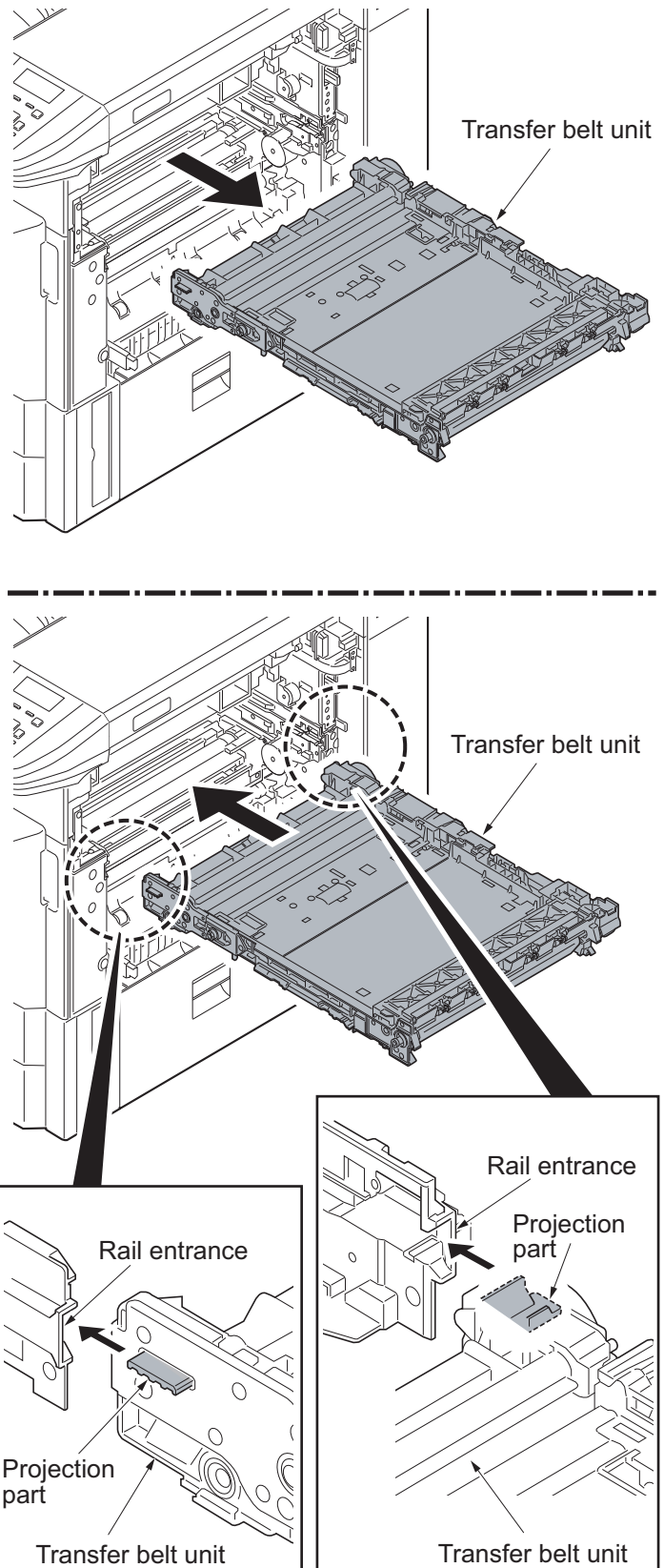


Figure 1-5-53

### (3) Detaching and refitting the cleaning pre brush

#### Procedure

1. Remove the transfer belt unit (see page 1-5-34).
2. Unhook the front and back springs from the hooks.

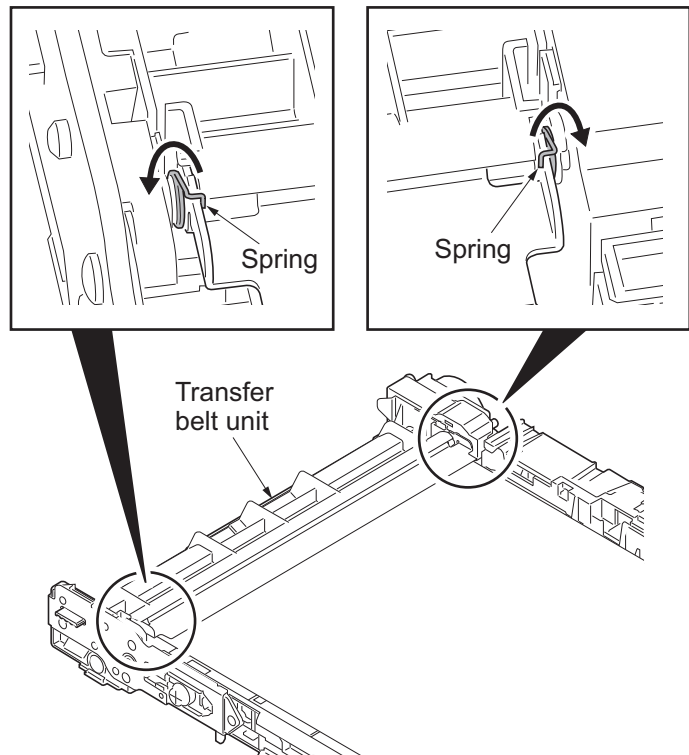


Figure 1-5-54

3. Unhook two hooks and then remove the cleaning cover.

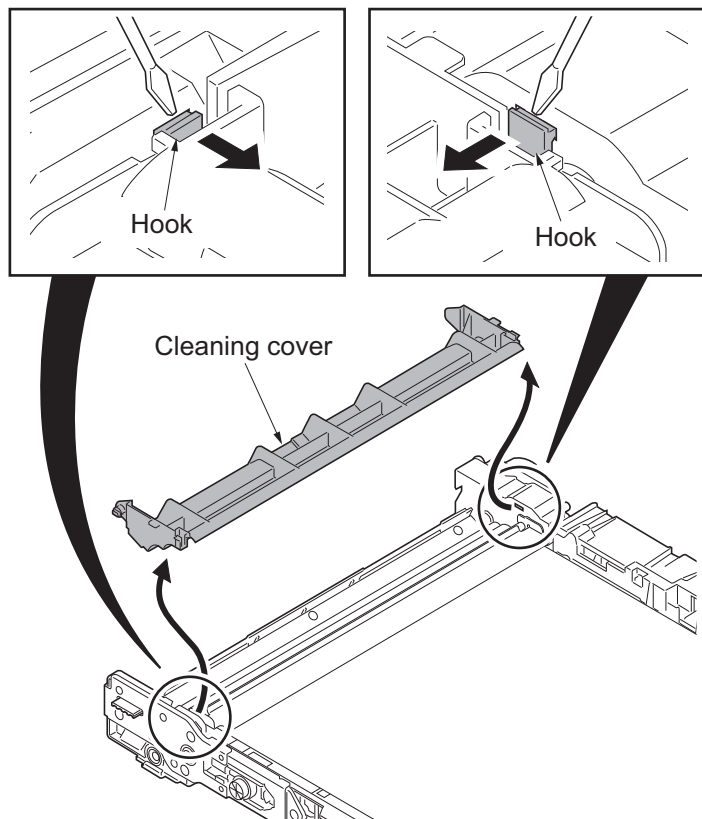
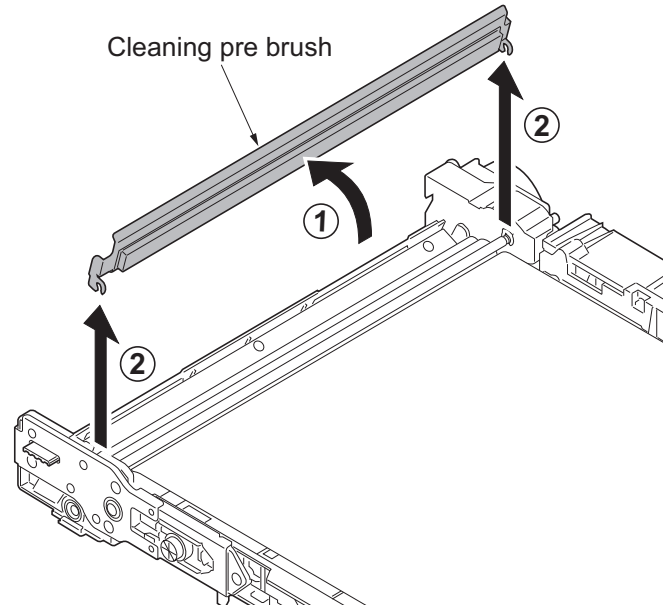
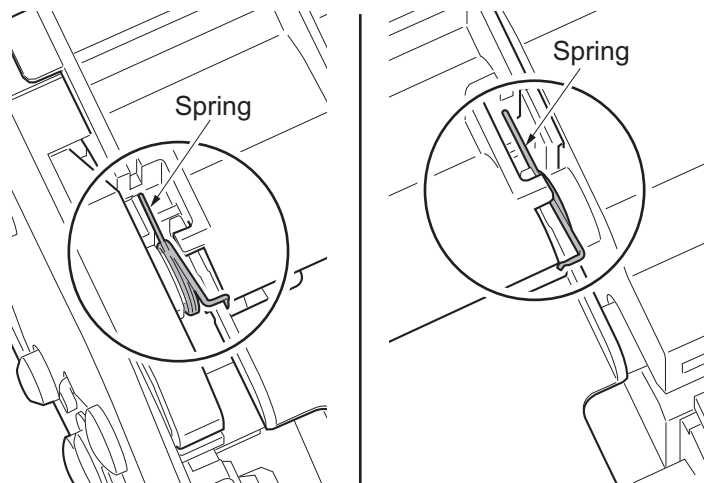


Figure 1-5-55

4. Remove the cleaning pre brush by turning it as shown.
5. Check or replace the cleaning pre brush and refit all the removed parts.

**Figure 1-5-56**

\*: Hook the springs back in place onto the cleaning pre brush when installing.

**Figure 1-5-57**

#### (4) Detaching and refitting the transfer roller

##### Procedure

1. Pull out the paper conveying unit.

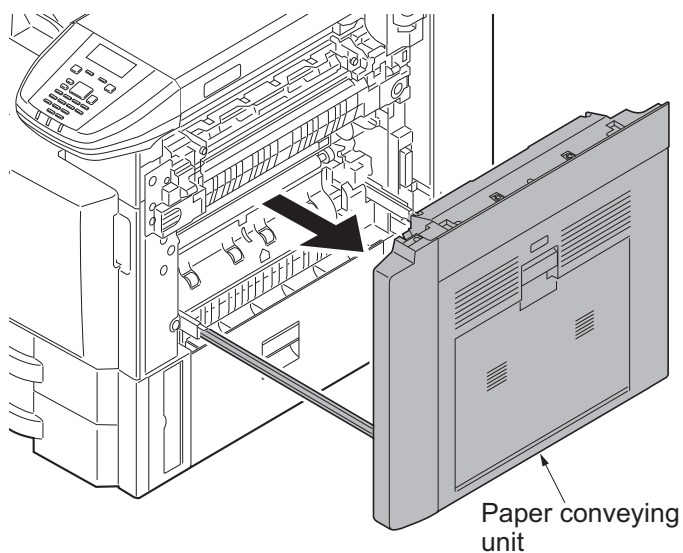


Figure 1-5-58

2. Loosen two fixed screws on the TC guide.
3. Remove the stop ring.
4. Unhook the hook and remove the TC gear Z29R.
5. Remove two bearings.
6. Remove the transfer roller.

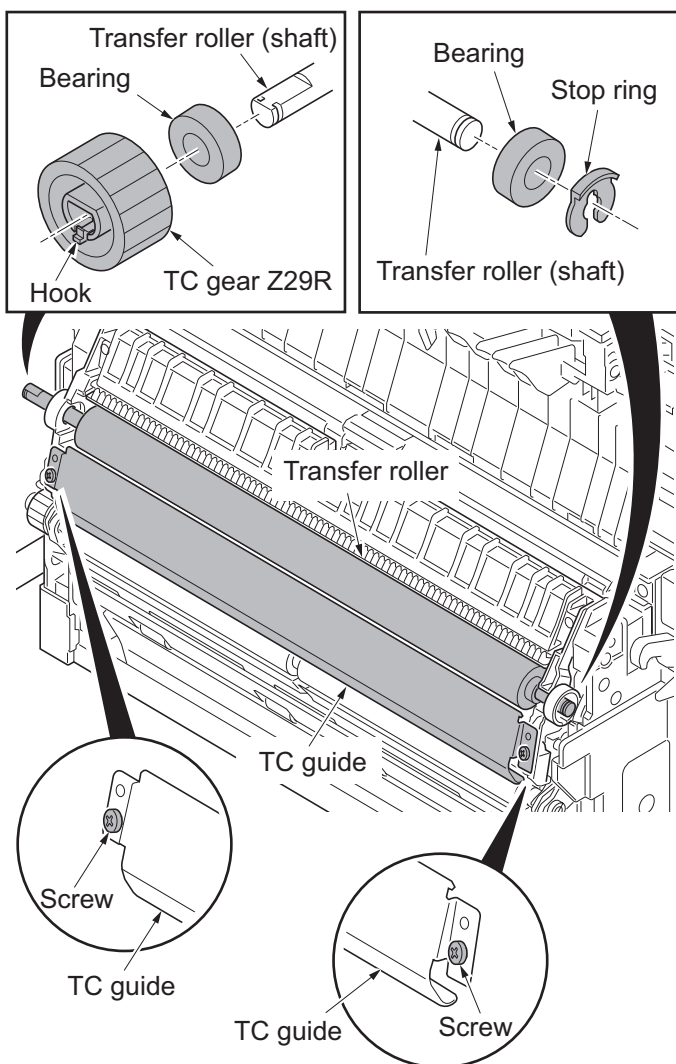


Figure 1-5-59

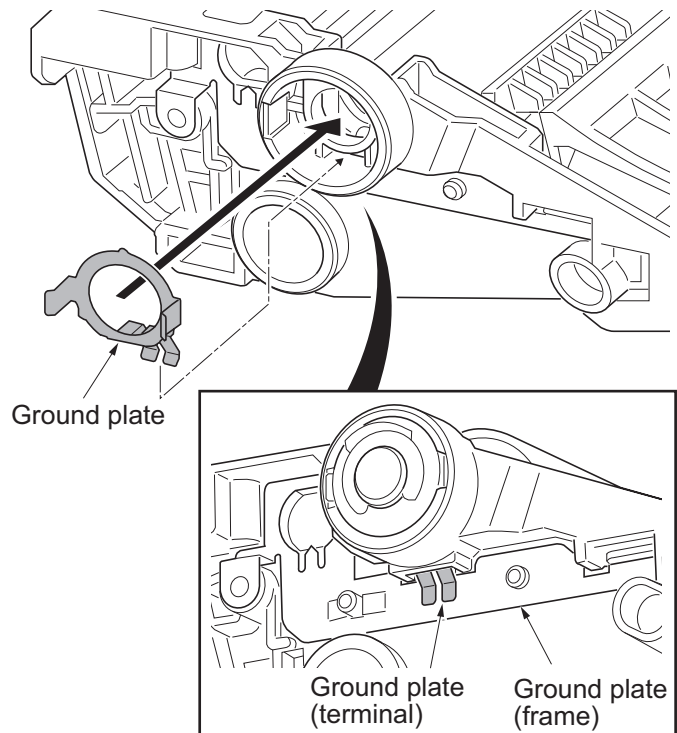


7. Check or replace the transfer roller and refit all the removed parts.

\*: When refitting the transfer roller, confirm that the terminal of the ground plate is in contact with the ground plate in the frame.

8. When replacing the new transfer roller, proceed as follows:

- 1) Performs maintenance mode U127 (clearing the transfer counter) (see page 1-3-67).
- 2) Performs maintenance mode U464 (Calibration) (see page 1-3-118).
- 3) Performs maintenance mode U469 (Auto color registration correction) (see page 1-3-126).



**Figure 1-5-60**

## 1-5-6 Fuser section

### (1) Detaching and refitting the fuser unit

#### Procedure

1. Pull out the paper conveying unit.
2. Remove the screw and then the fuser wire cover.
3. Remove two connectors

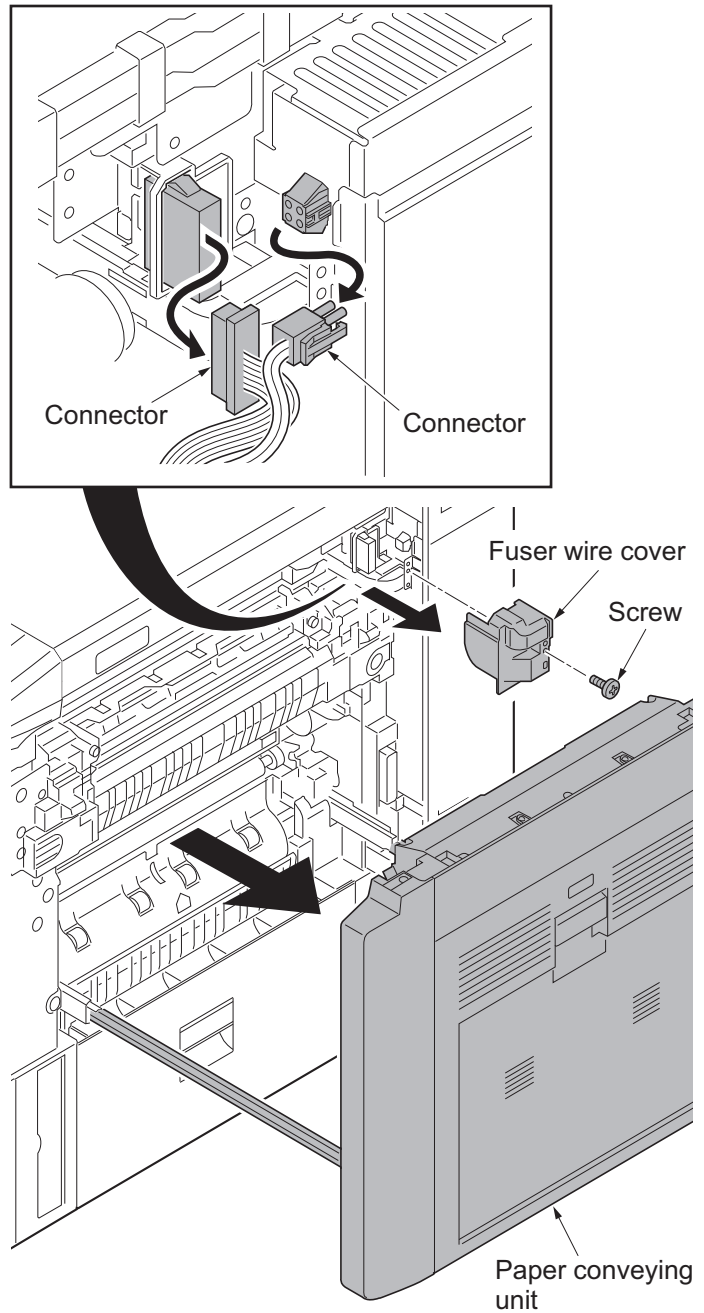
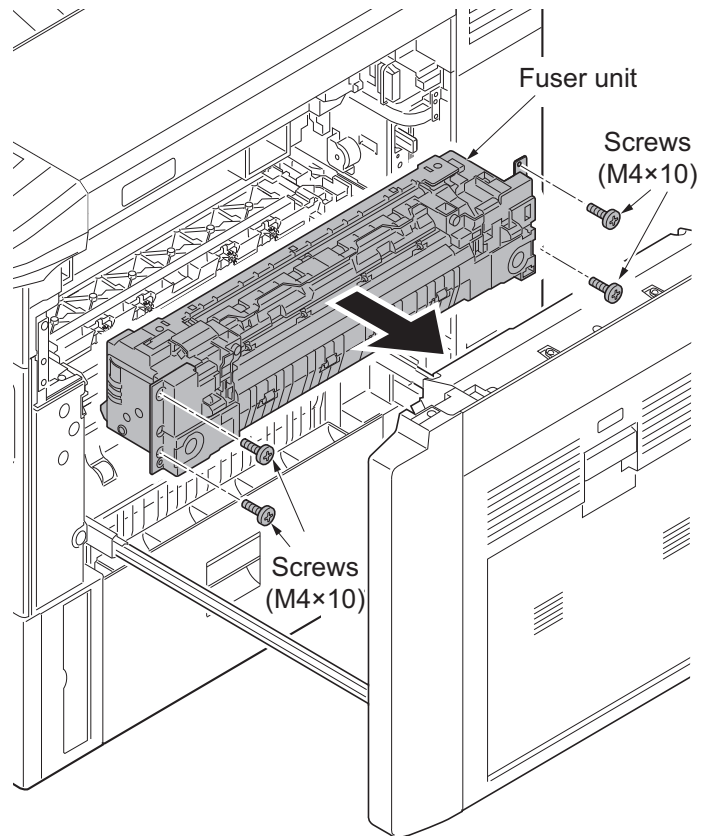


Figure 1-5-61

4. Remove four screws (M4 × 10) and then remove the fuser unit.
5. Check or replace the fuser unit and refit all the removed parts.
6. When replacing the new fuser unit, proceed as follows:
  - 1) Performs maintenance mode U167 (clearing the fuser count) (see page 1-3-85).
  - 2) Performs maintenance mode U464 (Calibration) (see page 1-3-118).
  - 3) Performs maintenance mode U469 (Auto color registration correction) (see page 1-3-126).

**Figure 1-5-62**

## (2) Detaching and refitting fuser IH unit

### Procedure

1. Remove the left upper cover.
2. Remove the rear upper cover and the rear lower cover (see page 1-5-56).
3. Remove the fuser unit (see page 1-5-40).
4. Remove the right upper cover (see page 1-5-56).
5. Remove the tray rear cover.
6. Remove the right middle rear cover (see page 1-5-56).
7. Remove four screws and then remove the fuser IH PWB cover (see page 1-5-56).
8. Remove the IH electric wire cover (see page 1-5-56).
9. Remove the top cover.
10. Remove the wire holder.
11. Release the wire saddle.
12. Remove two connectors from the fuser IH PWB according to the following notes.

- \*: Confirm the power plug is removed from the outlet without fail when you remove the connector because a high current is supplied to fuser IH unit by this connector.
- \*: Confirm the connected connector was surely locked when you connect this connector again.

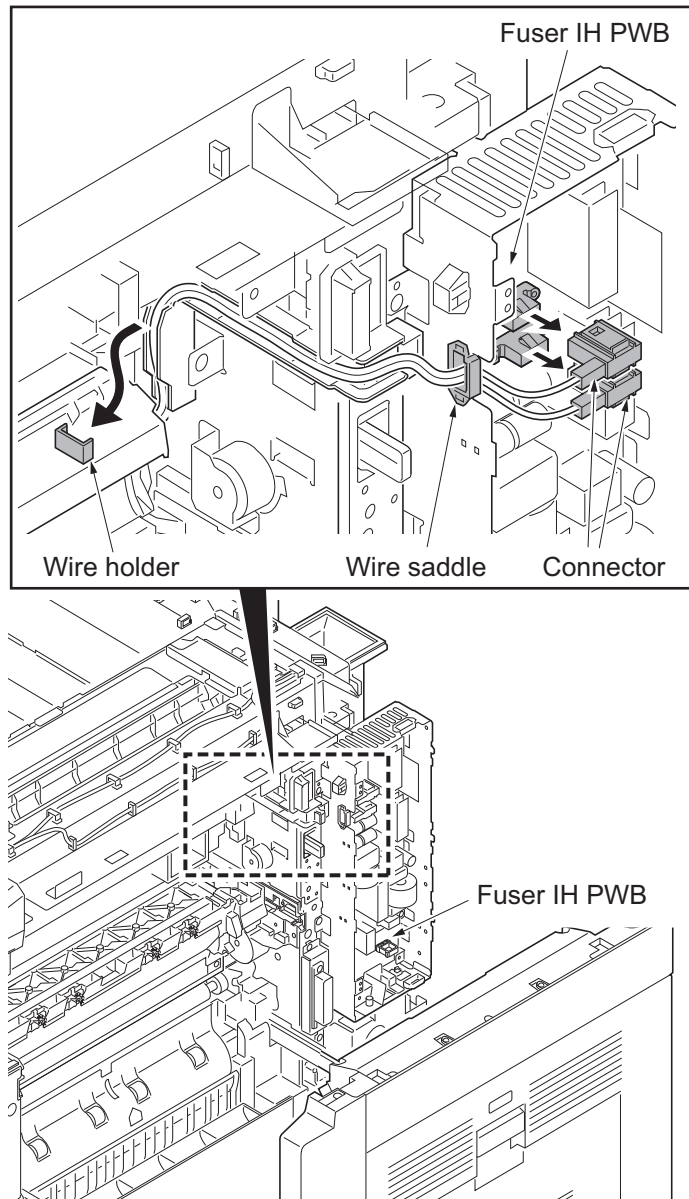
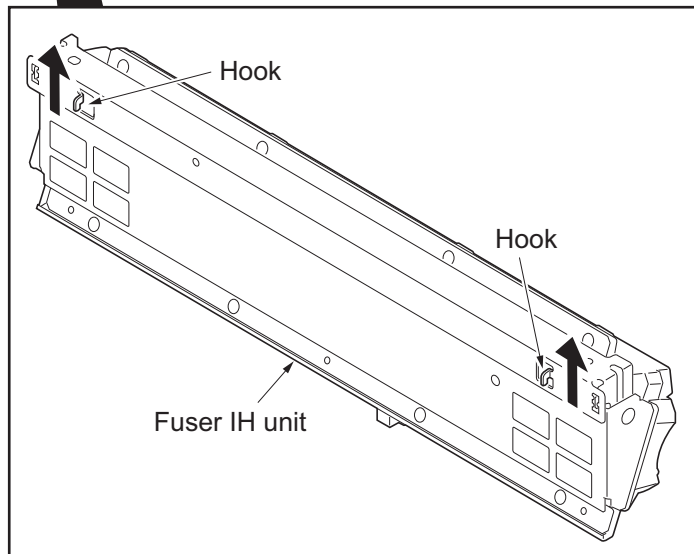
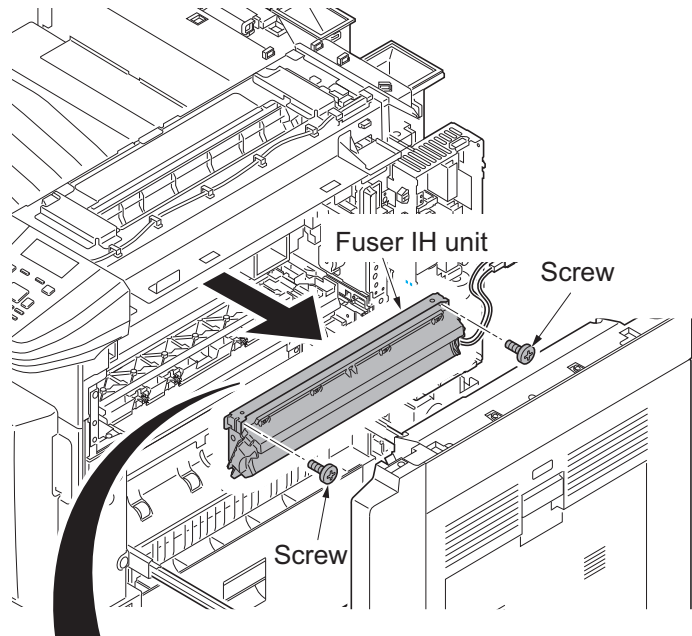


Figure 1-5-63

13. Remove two screws.
14. Unhook the hook by lifting up the fuser IH unit a little and then remove it.



**Figure 1-5-64**

## 1-5-7 PWBs

### (1) Detaching and refitting the main PWB

#### Procedure

1. Remove two screws.
2. Unhook three hooks and then remove the left upper cover.
3. Remove the rear upper cover (see page 1-5-56).

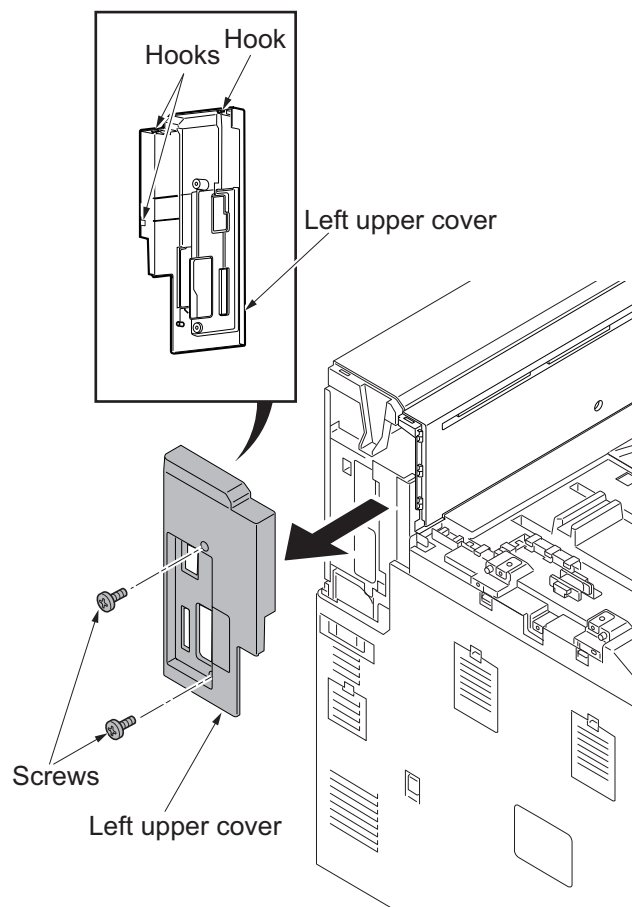


Figure 1-5-65

4. Release five wire saddles on the controller box.

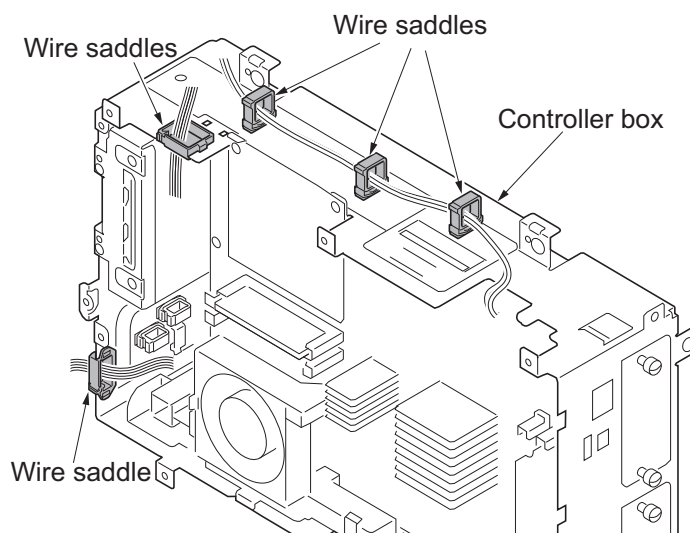


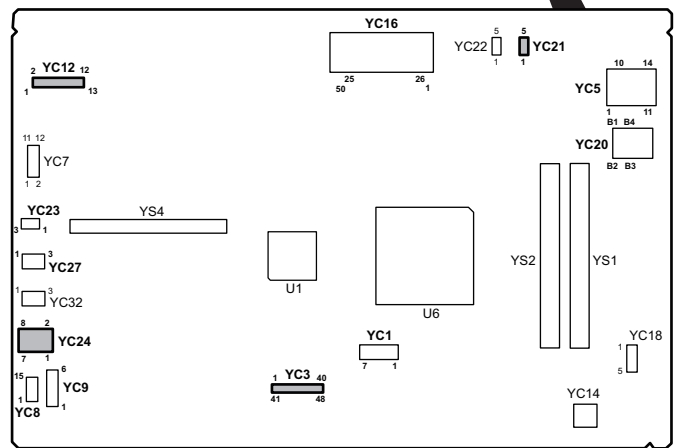
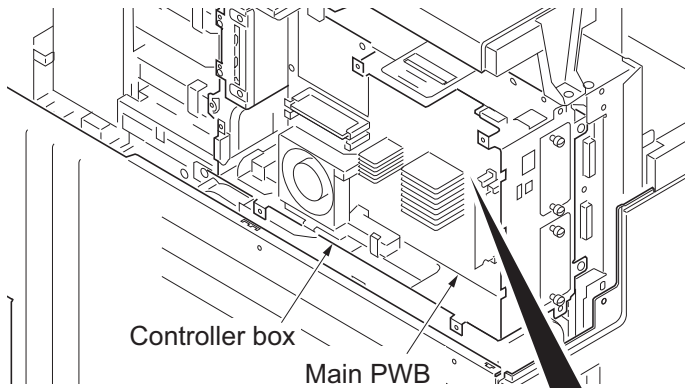
Figure 1-5-66

5. Remove the following connectors that connected to the main PWB from the outside of the control box.

- YC24
- YC3 (FFC connector with a lock)
- YC21 (WH)
- YC12

\*: When removing the FFC from the FFC connector with a lock, remove the FFC after released by lifting down the lock lever (see figure a and b).

\*: When connecting an FFC furnished with the protrusions at both ends, address the side with a blue-colored tape towards the locking lever, insert the FFC into the connector until the protrusions are recessed, and raise the lock lever to lock the FFC (see figure c).



Main PWB      FFC connector with a lock

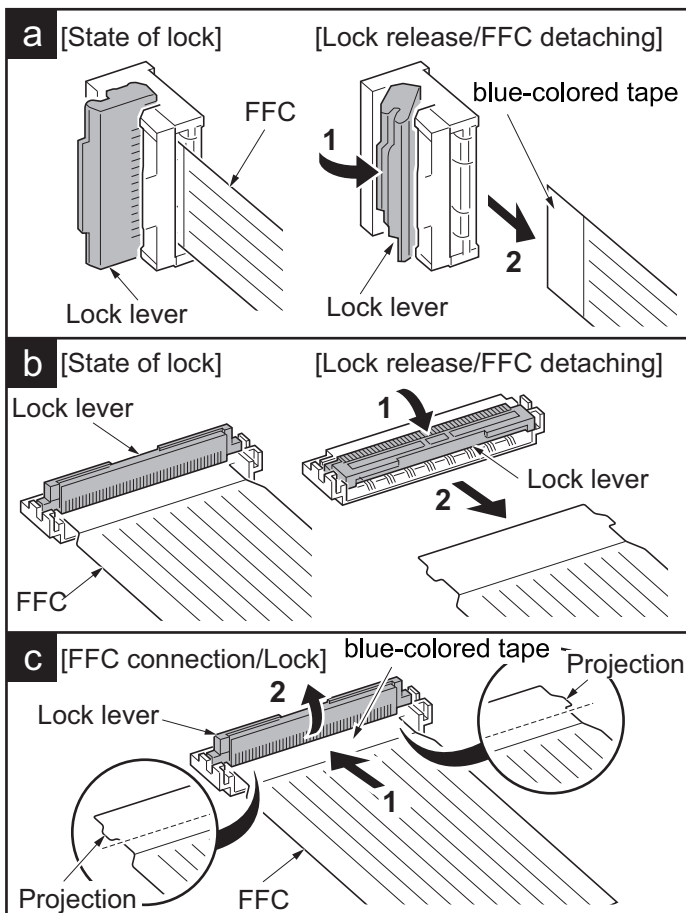


Figure 1-5-67

- 6. Remove five screws.
- 7. Unhook two hooks and then remove the controller box.

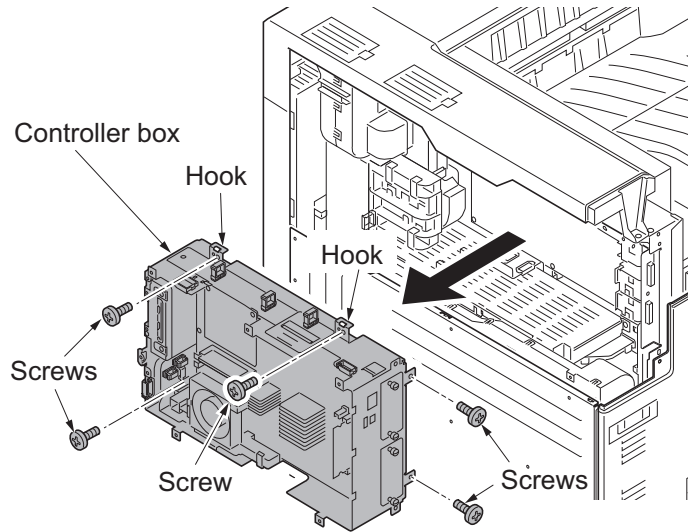


Figure 1-5-68

- 8. Remove the following connectors that connected to the main PWB.
- YC23
- YC27
- YC8 (FFC connector with a lock)
- YC9
- YC1 [BLACK] (with a lock)

\*: When removing the FFC from the FFC connector with a lock, remove the FFC after released by lifting down the lock lever (see page 1-5-45)

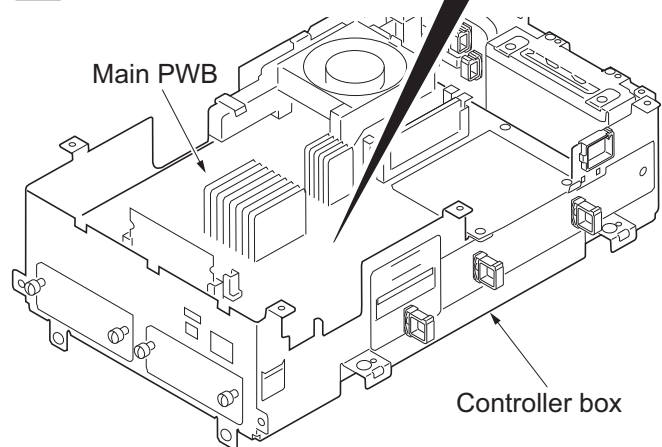
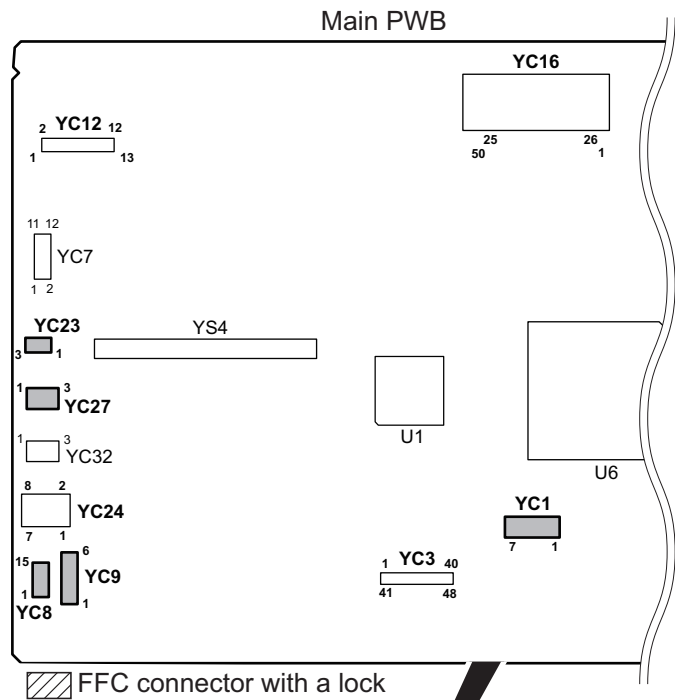
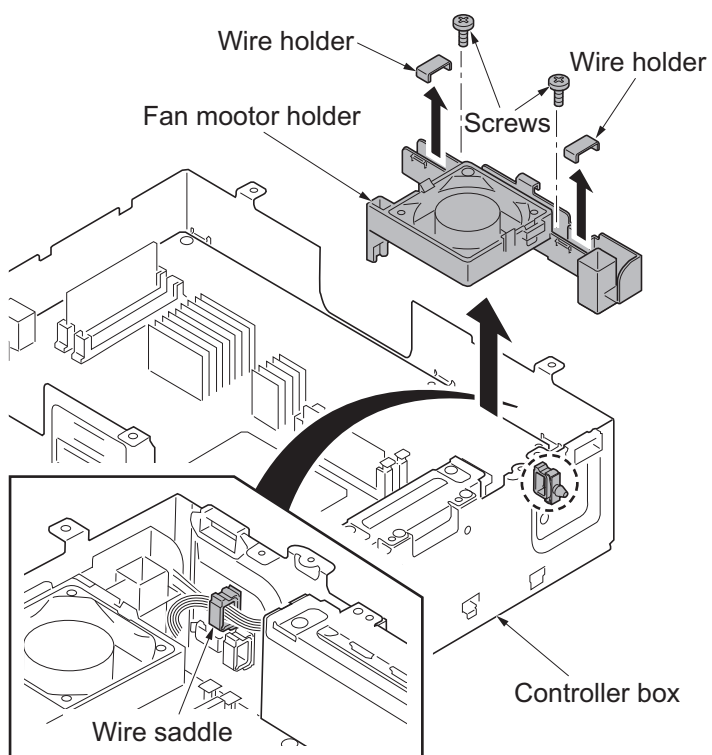


Figure 1-5-69

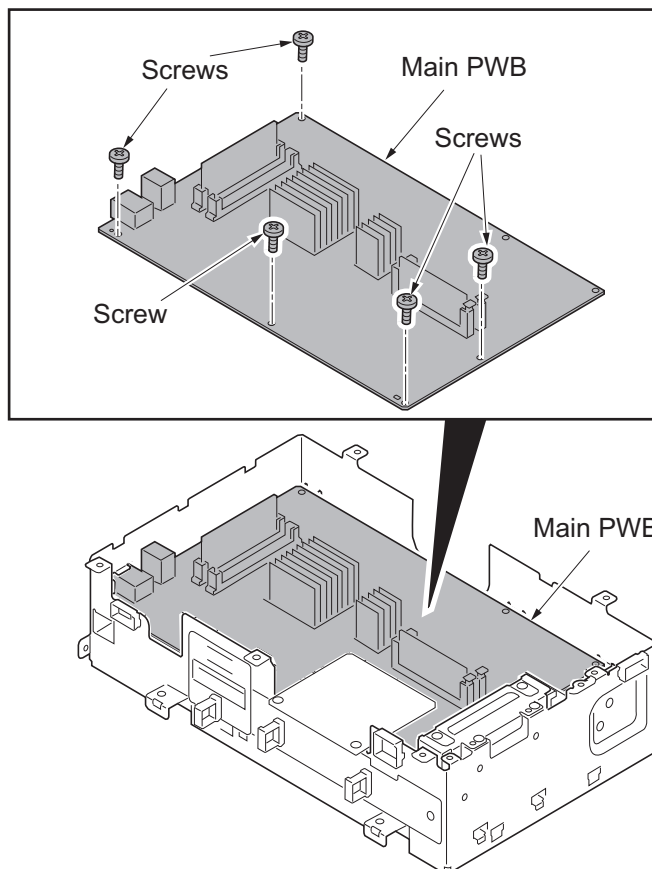


9. Release the wire saddle.
10. Remove two wire holders.
11. Remove two screws.
12. Remove the fan motor holder.



**Figure 1-5-70**

13. Remove five screws from the main PWB.



**Figure 1-5-71**

14. Remove the main PWB by releasing the projection of ground plate in the network connector.
15. Check or replace the main PWB and refit all the removed parts.

\*: When replacing the main PWB, remove the following devices from the main PWB and then reattach it to the new main PWB. (see page 1-6-2)

EEPROM (YC14)  
Code DIMM (YS4)  
Memory DDR (YS1)

\*: Exchange EEPROM (YC14) and code DIMM (YS4) by the set.

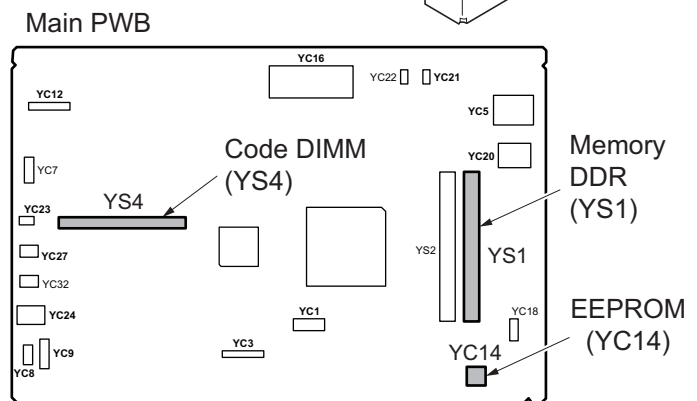
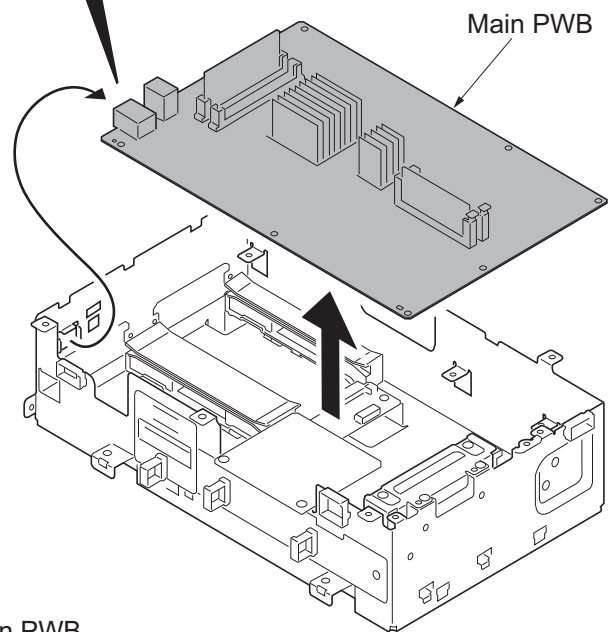
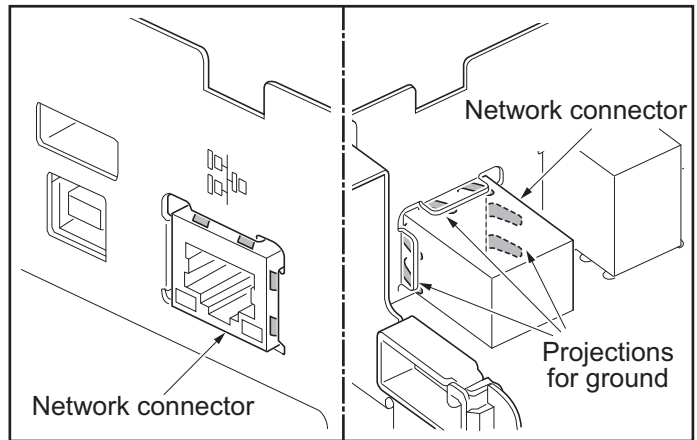


Figure 1-5-72

## (2) Detaching and refitting the engine PWB

### Procedure

1. Remove the controller box (see page 1-5-44).
2. Remove twenty two connectors of following from the engine PWB.

- YC1
- YC2
- YC3
- YC4
- YC5 (FFC connector with a lock)
- YC6 (FFC connector with a lock)
- YC7 (FFC connector with a lock)
- YC10 (FFC connector with a lock)
- YC26
- YC9
- YC8
- YC46 (FFC connector with a lock)
- YC11 (FFC connector with a lock)
- YC12 (FFC connector with a lock)
- YC15
- YC16
- YC18
- YC17
- YC19
- YC20
- YC21
- YC22

- \*: When removing the FFC from the FFC connector with a lock, remove the FFC after released by lifting down the lock lever (see page 1-5-45)
- \*: When removing the FFC from the YC-46, remove the FFC after released by lifting up the lock lever.
- \*: When connecting an FFC furnished with the protrusions at both ends, address the side with a blue-colored tape towards the locking lever, insert the FFC into the connector until the protrusions are recessed, and raise the lock lever to lock the FFC (see page 1-5-45)

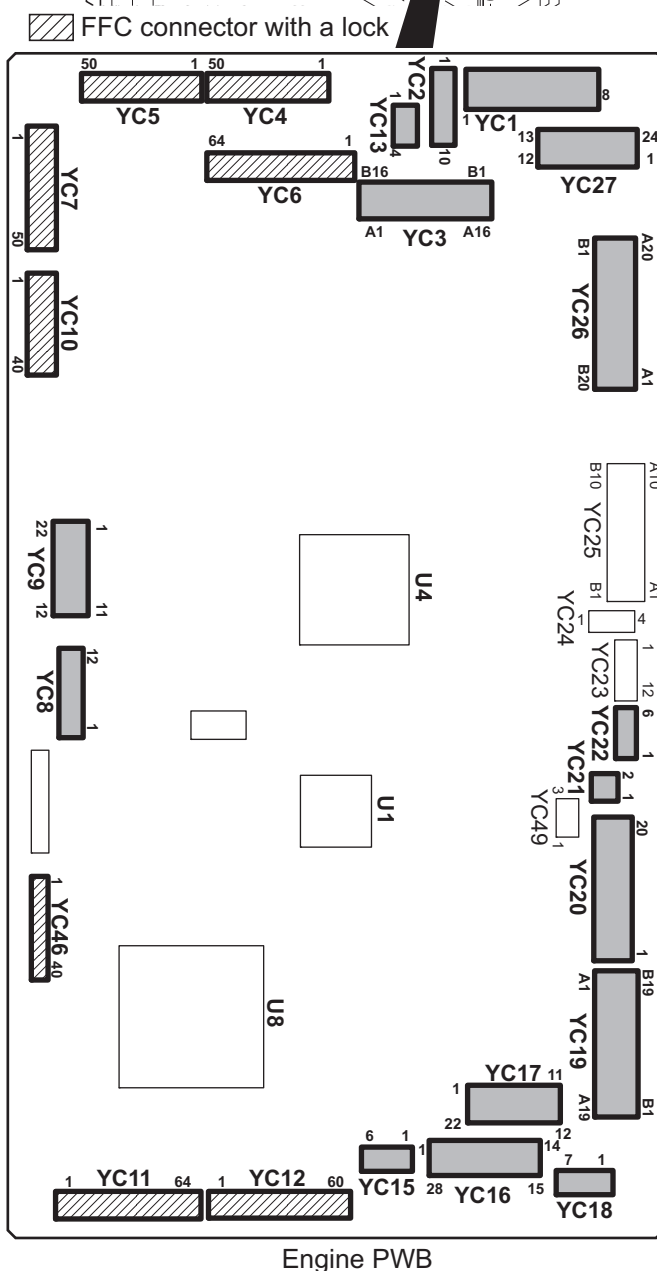
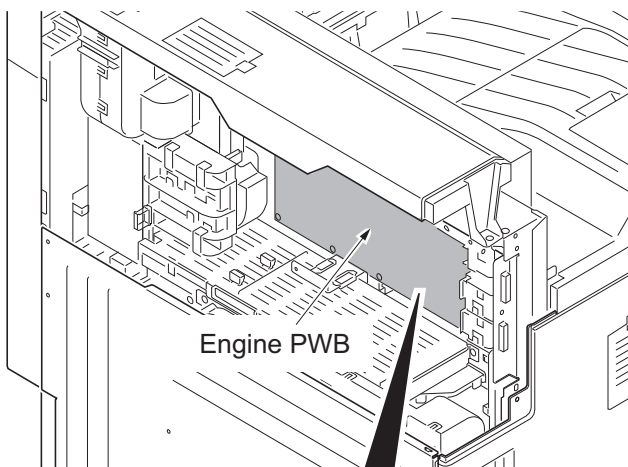


Figure 1-5-73

3. Remove six screws.
4. Unhook two hooks and then remove the engine PWB.
5. Check or replace the engine PWB and refit all the removed parts.

\*: When replacing the engine PWB, remove the EEPROM (U100) from the engine PWB and then reattach it to the new engine PWB.

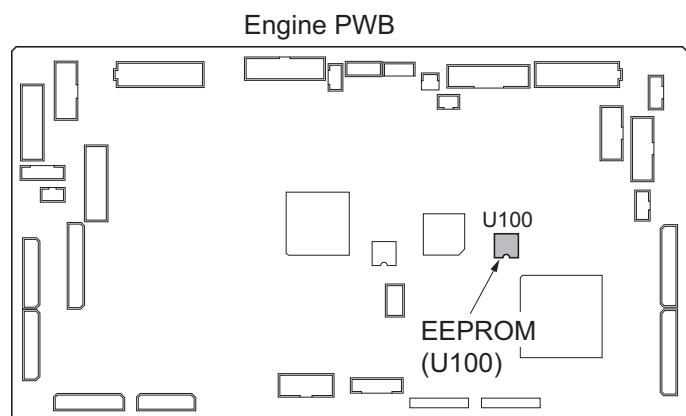
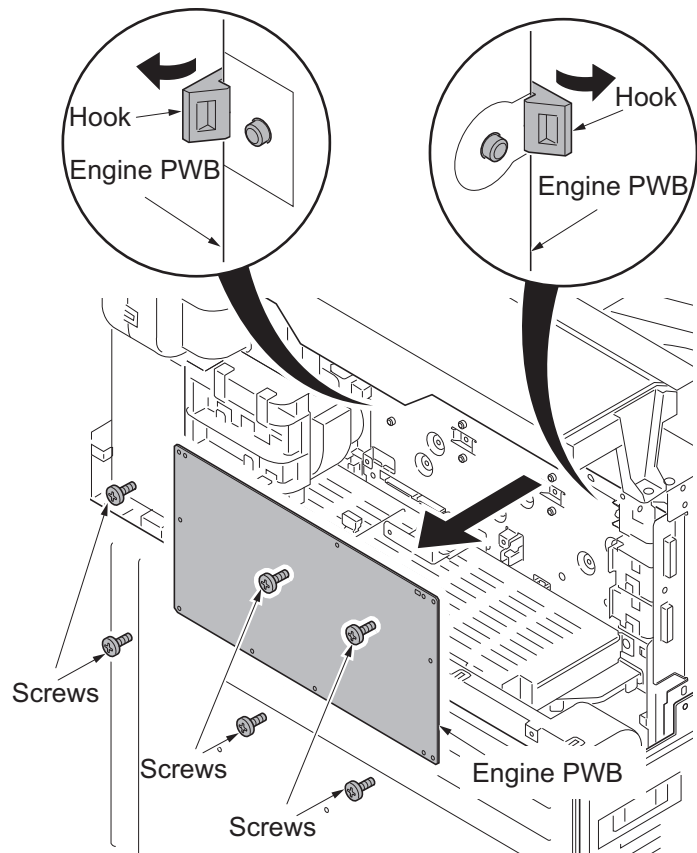
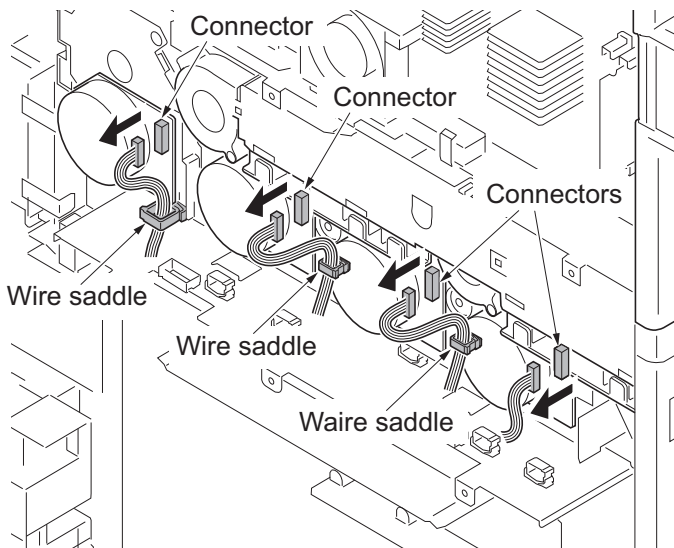


Figure 1-5-74

### (3) Detaching and refitting the power source PWB

**Procedure**

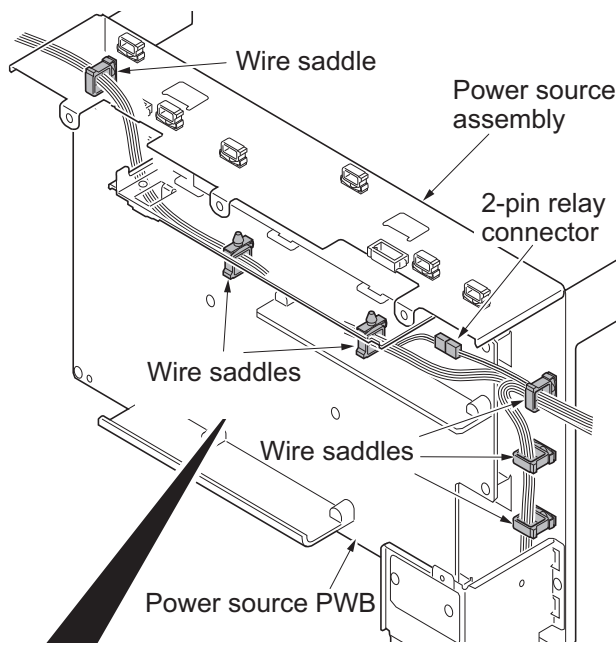
1. Remove the rear lower cover (see page 1-5-56).
2. Release three wire saddles.
3. Remove four connectors.



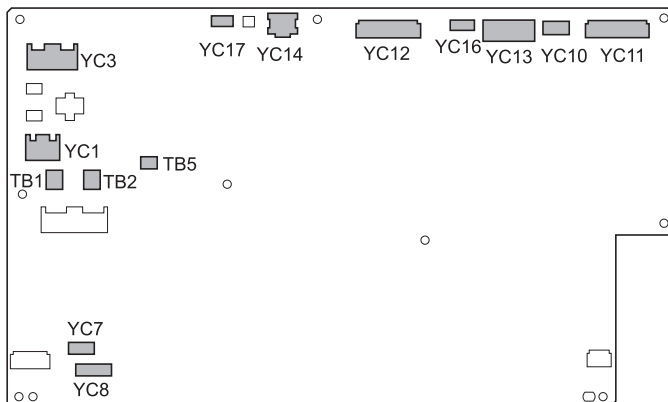
**Figure 1-5-75**

4. Release six wire saddles.
5. Remove the following eleven connectors and three tabs from the power source PWB.

- YC3
- YC1
- TB1
- TB2
- TB5
- YC7
- YC8
- YC17
- YC14
- YC12
- YC16
- YC13
- YC10
- YC11



6. Remove 2-pin relay connector.



**Power source PWB**

**Figure 1-5-76**

7. Release the wire saddle.
8. Remove the connector from the coin vender plate.

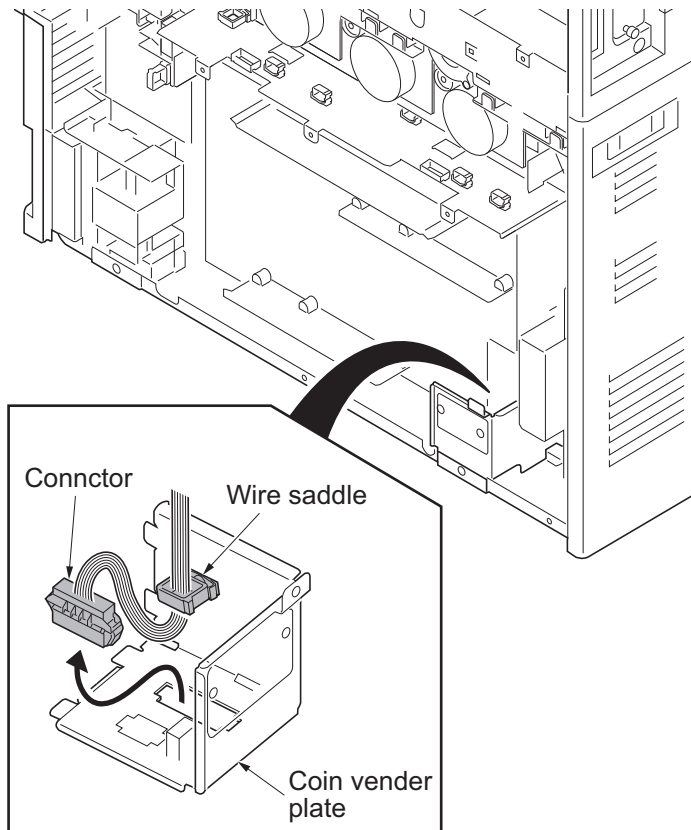


Figure 1-5-77

9. Remove screw.
10. Remove cooling duct1.
11. Remove two screws.
12. Remove the power source assembly.

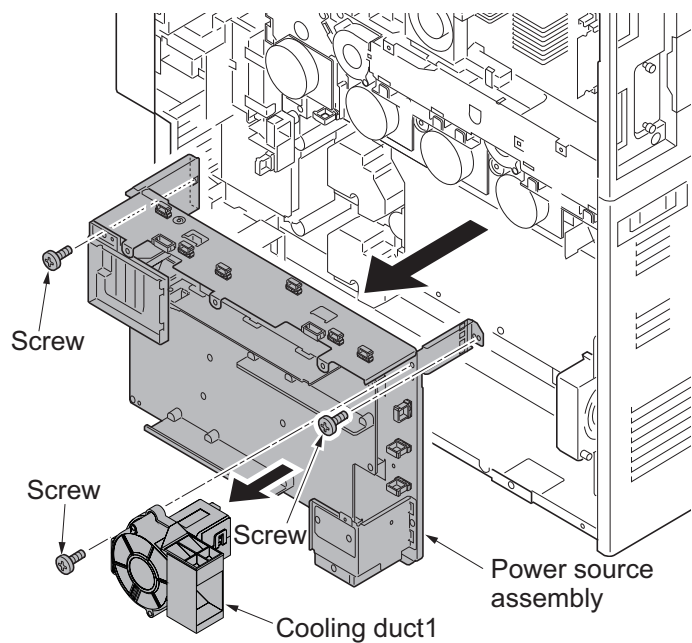
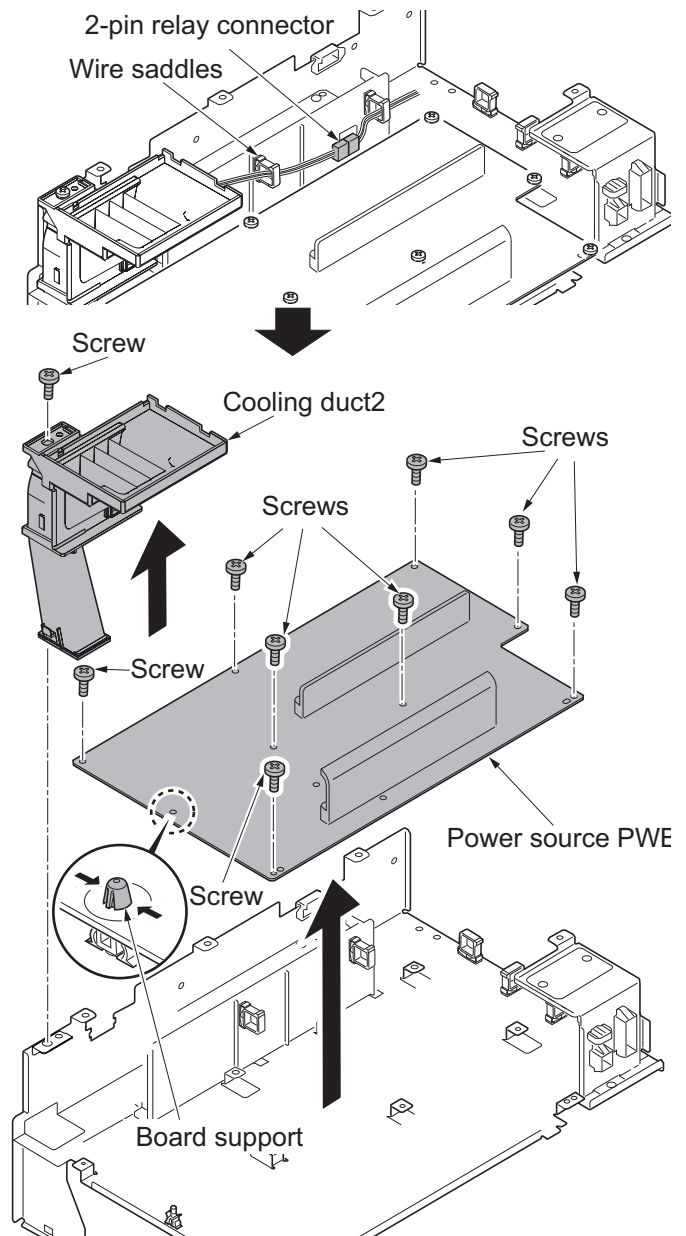


Figure 1-5-78

13. Release wire saddle.
14. Remove 2-pin relay connector.
15. Remove screw.
16. Remove cooling duct2.
17. Remove eight screws.
18. Remove the power source PWB.
19. Check or replace the power source PWB and refit all the removed parts.



**Figure 1-5-79**

#### (4) Detaching and refitting the high voltage PWB 1

##### Procedure

1. Remove the power source PWB (see page 1-5-51).
2. Remove the main drive unit (see page 1-5-64).
3. Remove six connectors from high voltage PWB.

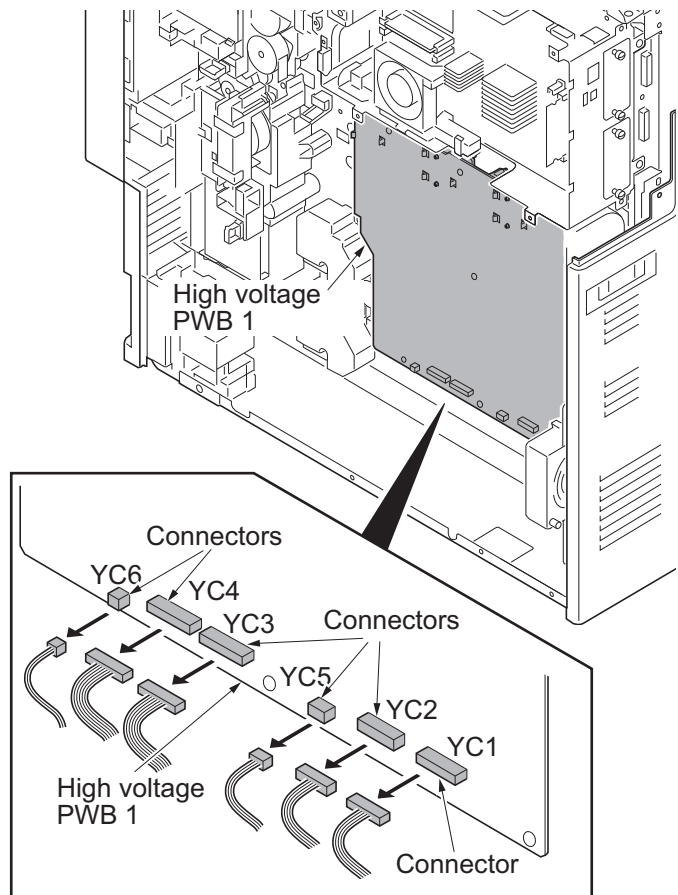


Figure 1-5-80

4. Remove eight screws.
5. Unhook two hooks of PWB spacer and then remove the high voltage PWB 1.
6. Check or replace the high voltage PWB 1 and refit all the removed parts.

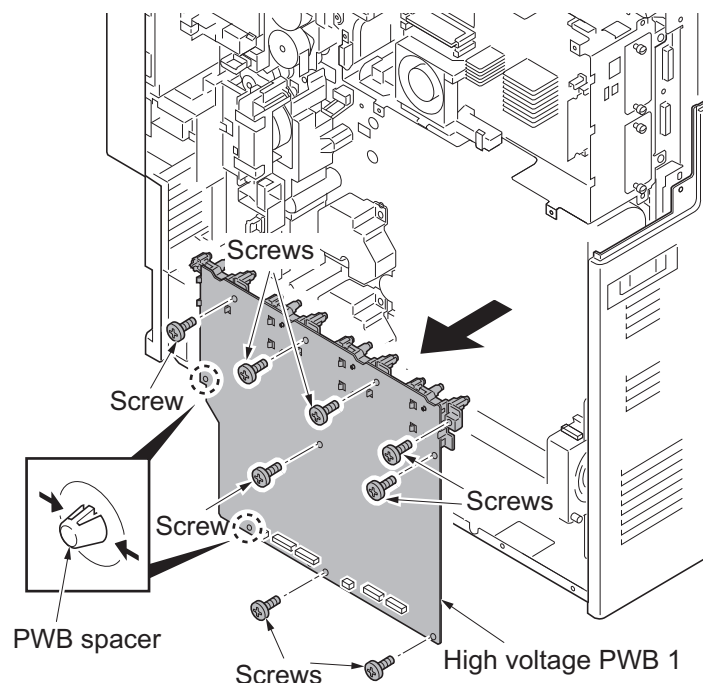


Figure 1-5-81



## (5) Detaching and refitting the high voltage PWB 2

### Procedure

1. Remove the main drive unit (see page 1-5-64).
2. Pull the transfer belt unit out a little (see page 1-5-34).
3. Remove two connectors from the high voltage PWB 2 assembly.

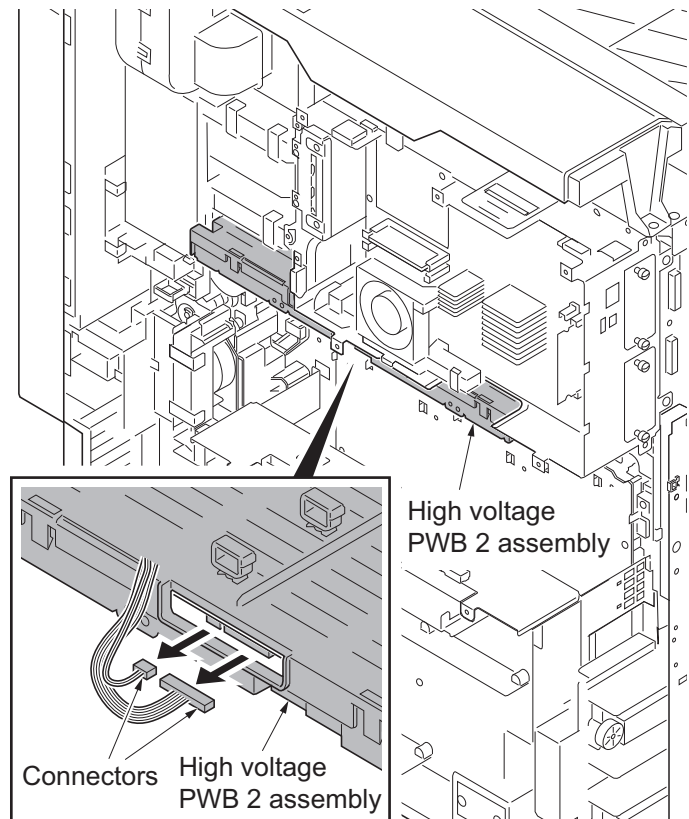


Figure 1-5-82

4. Remove two screws.
5. Unhook two hooks and then remove the high voltage PWB 2.
6. Check or replace the high voltage PWB 2 and refit all the removed parts.

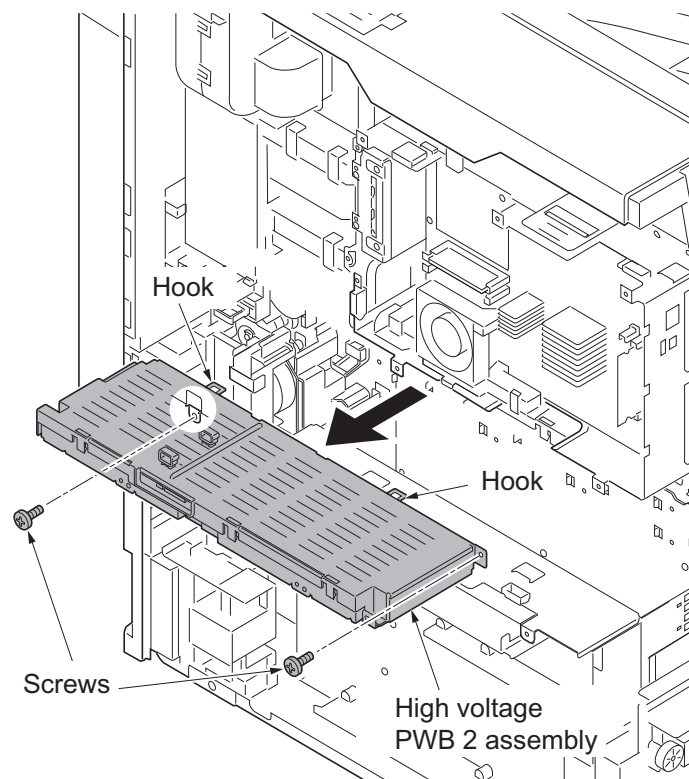


Figure 1-5-83

## (6) Detaching and refitting the fuser IH PWB

### Procedure

1. Remove seven screws and then remove the rear upper cover.

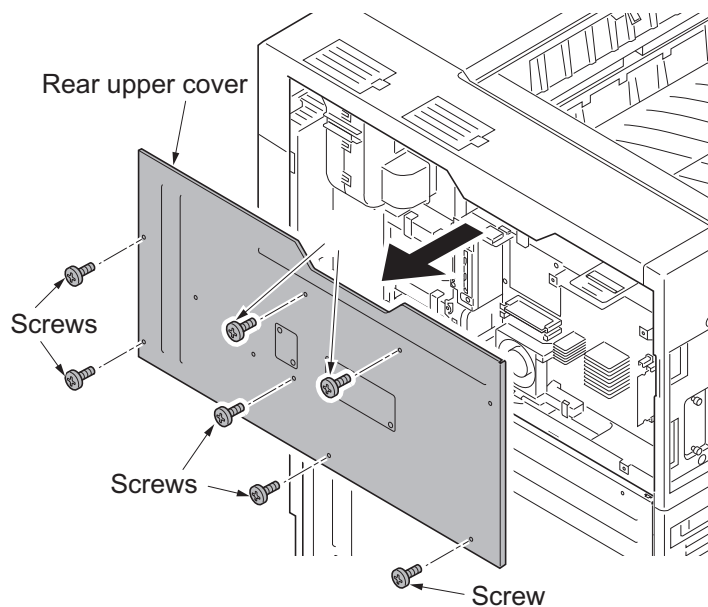


Figure 1-5-84

2. Remove eight screws.
3. Release two hanging parts and then remove the rear lower cover.
4. Remove the fuser unit (see page 1-5-40).

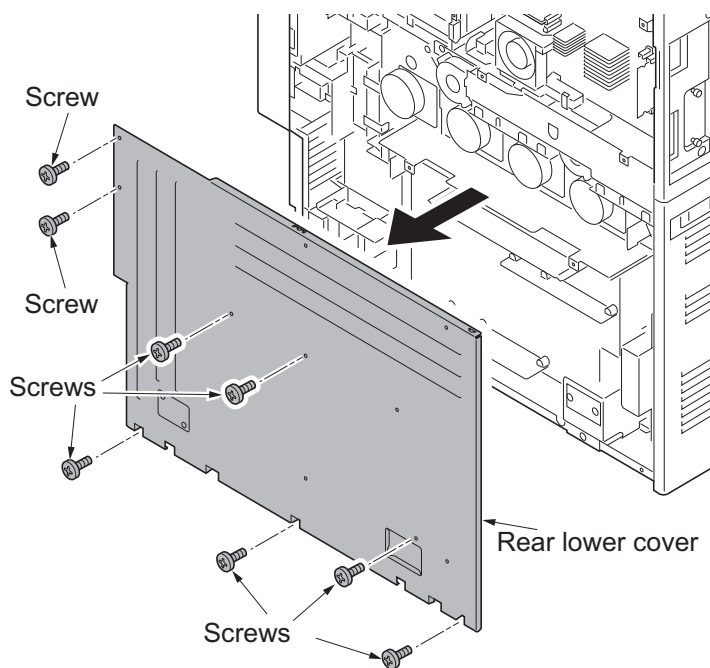
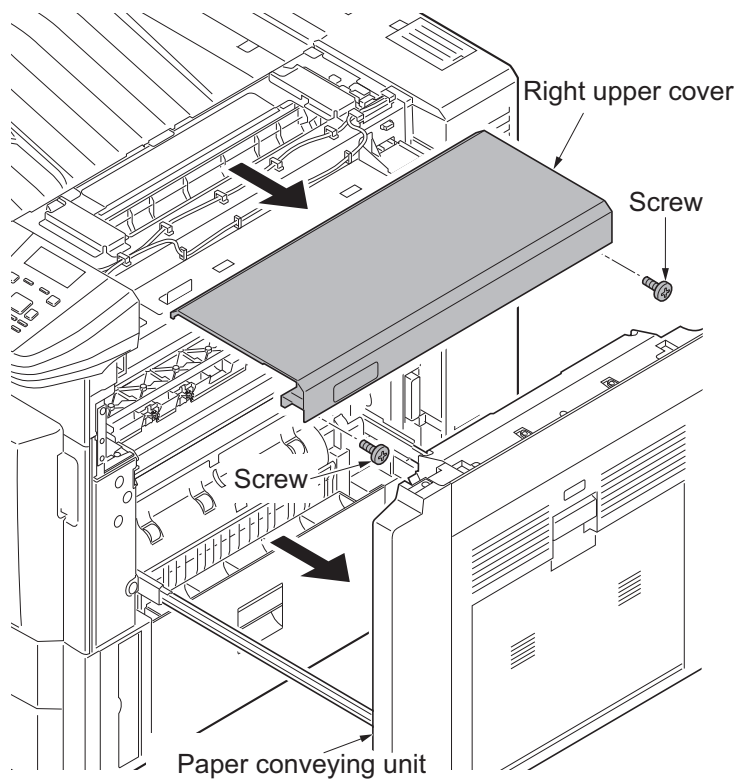
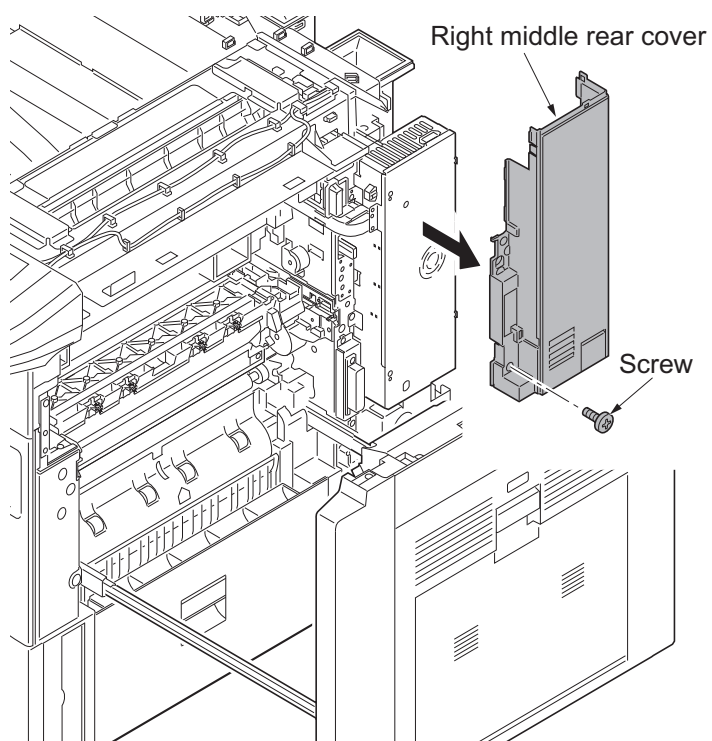


Figure 1-5-85

5. Remove two screws and then remove the ISU right cover.
6. Remove the screw and five hooks and then remove the right upper cover.

**Figure 1-5-86**

7. Remove the screw.
8. Unhook two hooks and then remove the right middle rear cover.

**Figure 1-5-87**

9. Remove four screws and then remove the fuser IH PWB cover.
10. Remove the IH electric wire cover.

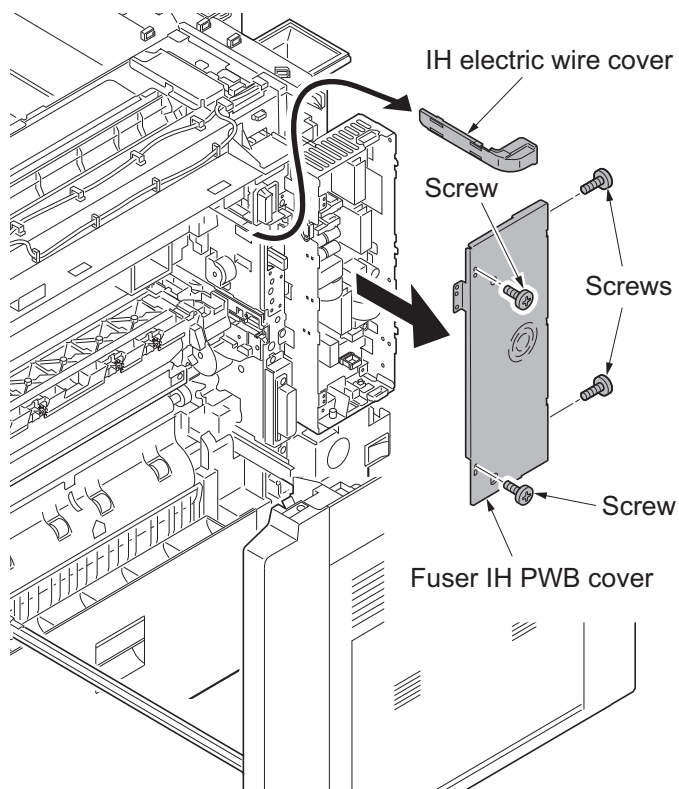


Figure 1-5-88

11. Release two wire saddles.
12. Remove four connectors from the fuser IH PWB.

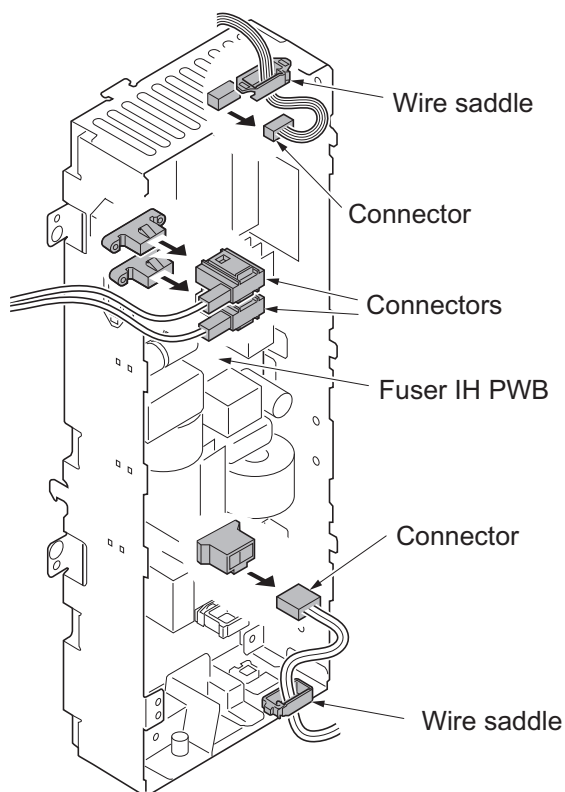


Figure 1-5-89

- 13. Remove two wire holders.
- 14. Remove the connector (YC27) from feed PWB 1.

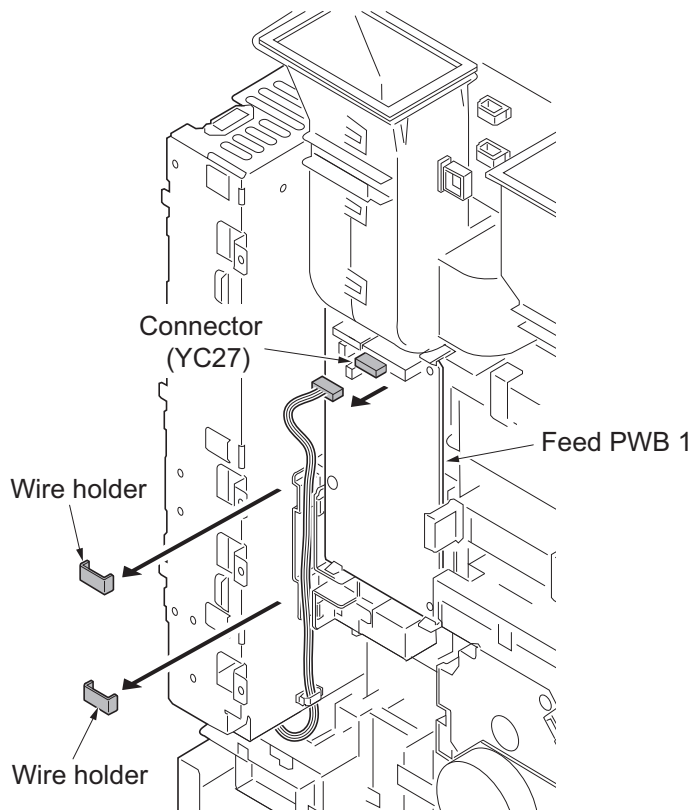


Figure 1-5-90

- 15. Remove three screws.
- 16. Unhook two hooks and then remove IH box assembly.

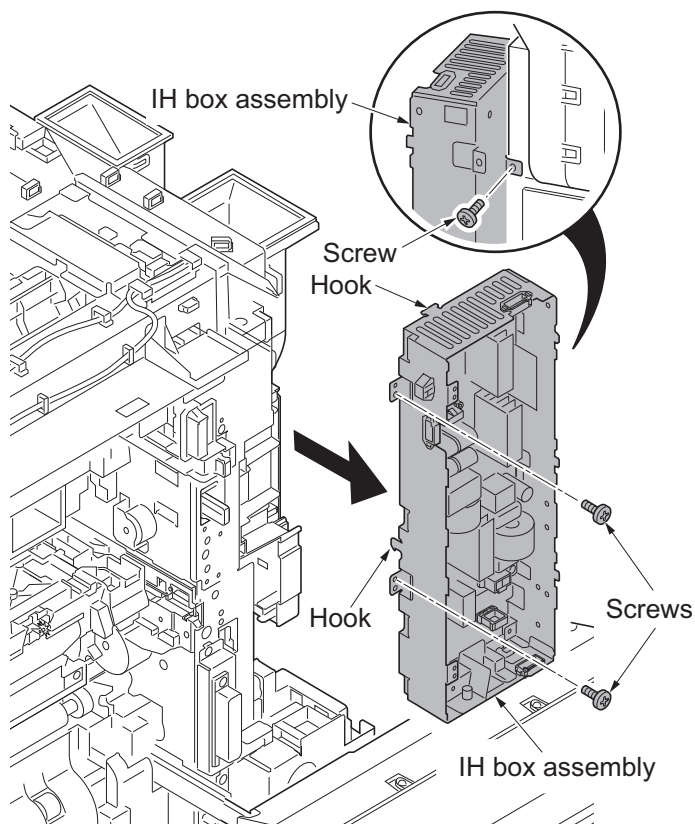
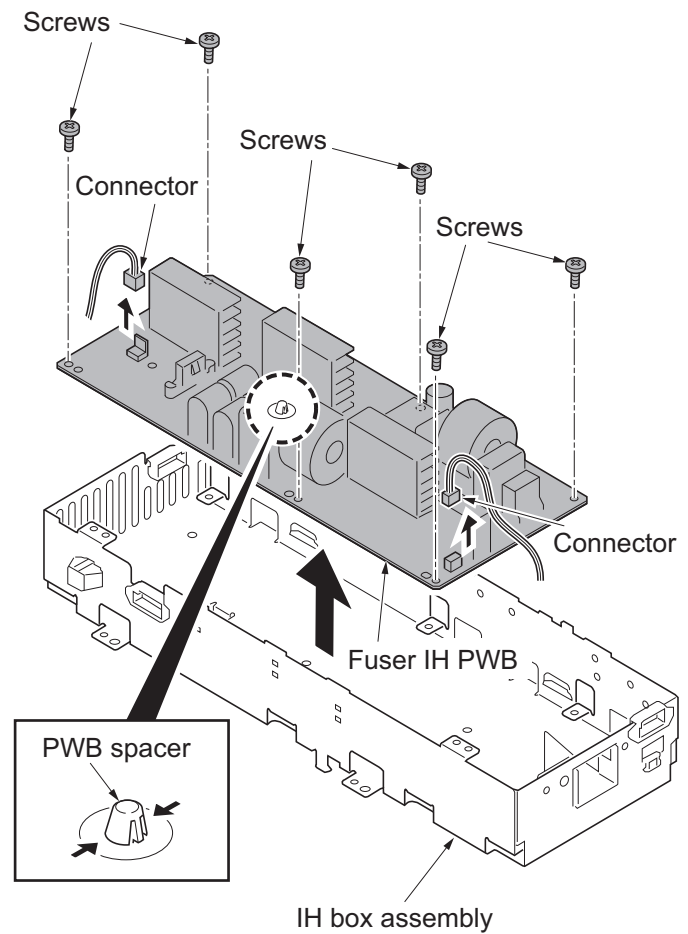


Figure 1-5-91

17. Remove two connectors.
18. Remove six screws.
19. Unhook the hook of the PWB spacer and then remove the fuser IH PWB.
20. Check or replace the fuser IH PWB and refit all the removed parts.



**Figure 1-5-92**

## 1-5-8 Drive section

### (1) Detaching and refitting the drum drive unit K and the drum drive unit MCY

#### Procedure

#### Detaching the drum drive unit K

1. Remove the rear upper cover and the rear lower cover (see page 1-5-56).
2. Remove the connector.
3. Release the wire saddle.

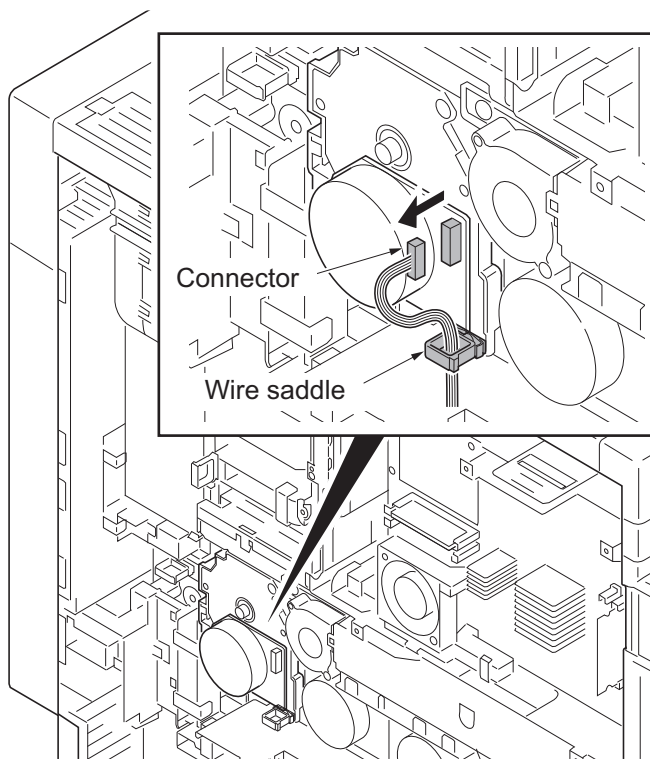


Figure 1-5-93

4. Remove three screws.
  5. Remove the drum drive unit K.
- \*: Do not have a shaft part alone when you carry drum drive unit K. (Have the housing.)
- \*: Put support on the tip of the shaft so that the shaft may become the horizontal when you put drum drive unit K on the table etc.

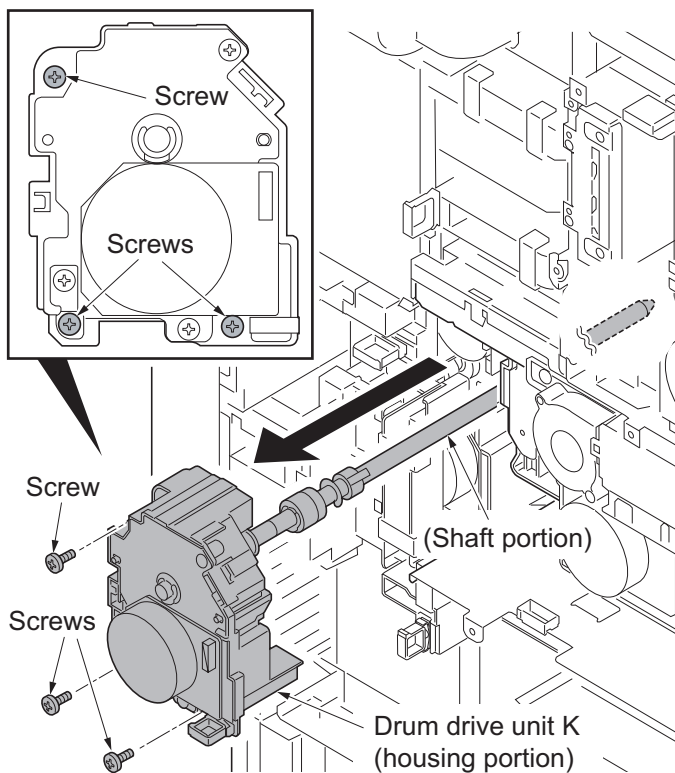
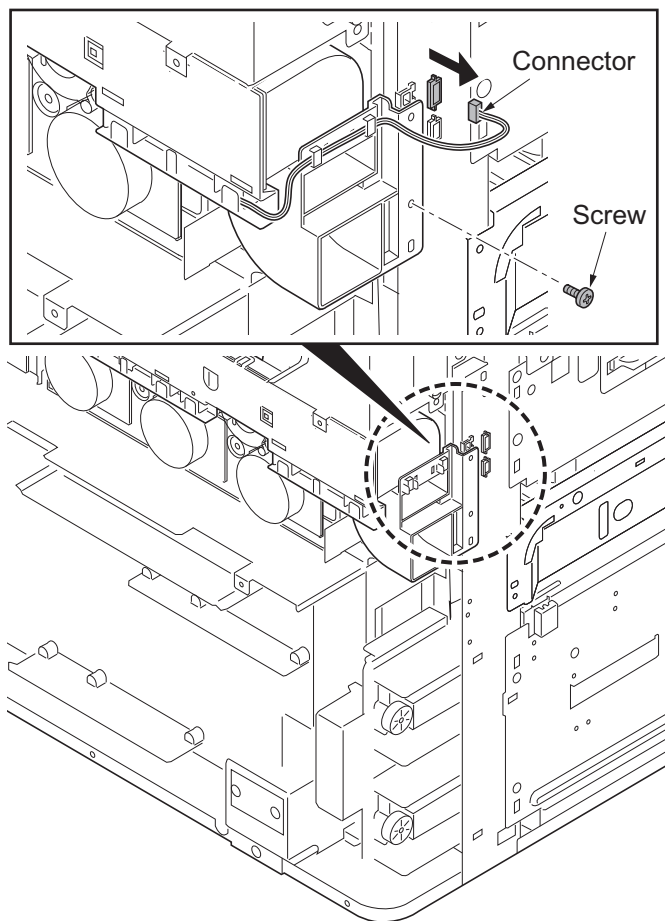


Figure 1-5-94



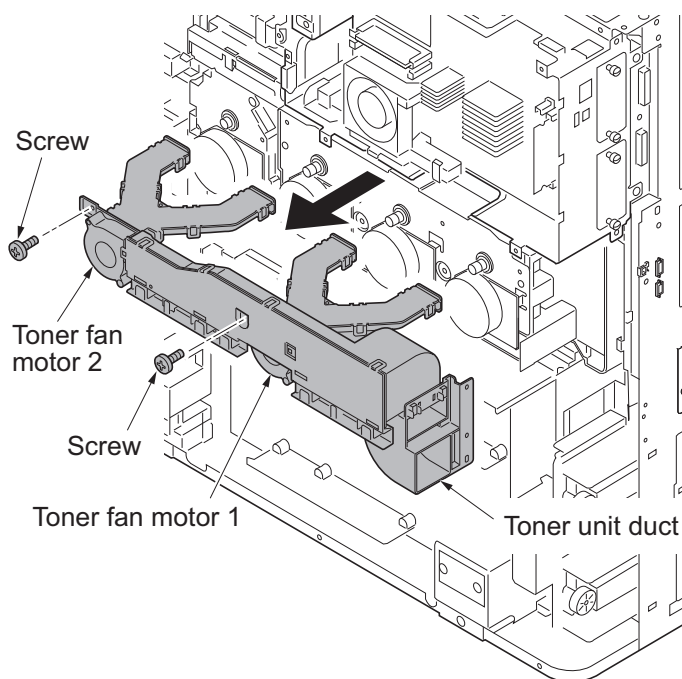
### Detaching the drum drive unit MCY

6. Remove the left upper cover (see page 1-5-44).
7. Remove the left cover (see page 1-5-17).
8. Remove the connector.
9. Remove the screw.



**Figure 1-5-95**

10. Remove as one body the toner unit duct, the toner fan motor 1 and the toner fan motor 2.



**Figure 1-5-96**



- 11. Release wire saddles.  
 30ppm model/35ppm model: 1  
 45ppm model/55ppm model: 2
- 12. Remove connectors.  
 30ppm model/35ppm model: 1  
 45ppm model/55ppm model: 3

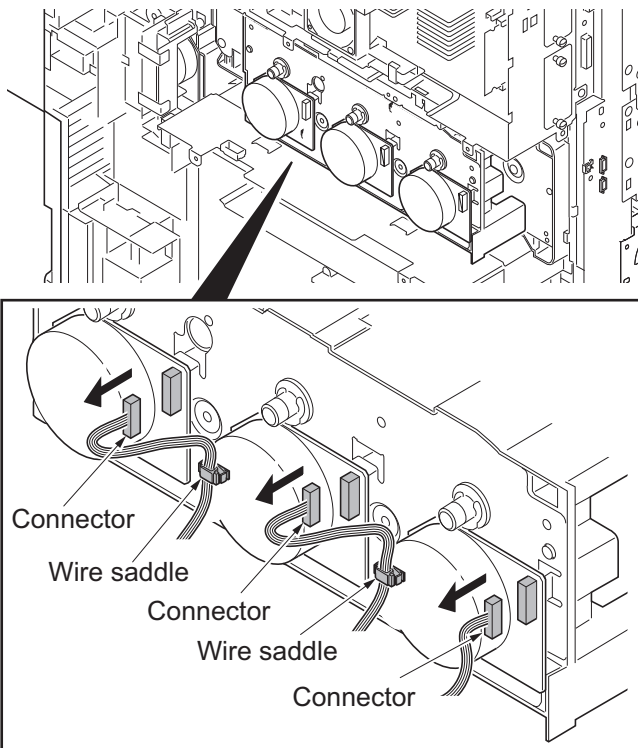


Figure 1-5-97

- 13. Remove five screws and then remove the drum drive unit MCY.  
 \*: Do not have a shaft part alone when you carry drum drive unit MCY. (Have the housing.)  
 \*: Put support on the tip of the shaft so that the shaft may become the horizontal when you put drum drive unit MCY on the table etc.
- 14. Check or replace the drum drive unit K and the drum drive unit MCY and refit all the removed parts.

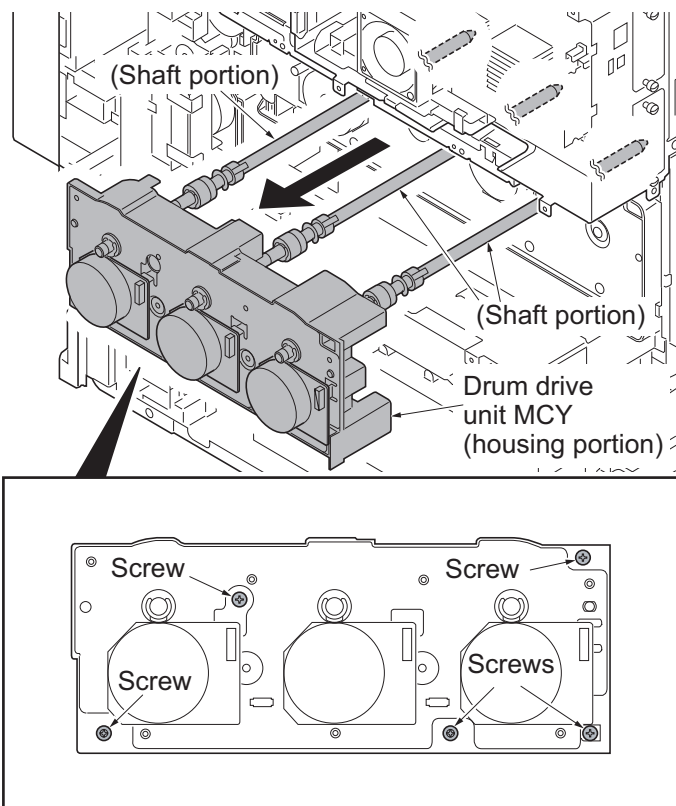


Figure 1-5-98

## (2) Detaching and refitting the main drive unit

### Procedure

1. Remove the drum drive unit K and the drum drive unit MCY (see page 1-5-61).
2. Release three wire saddles on the main drive unit.
3. Remove two connectors.

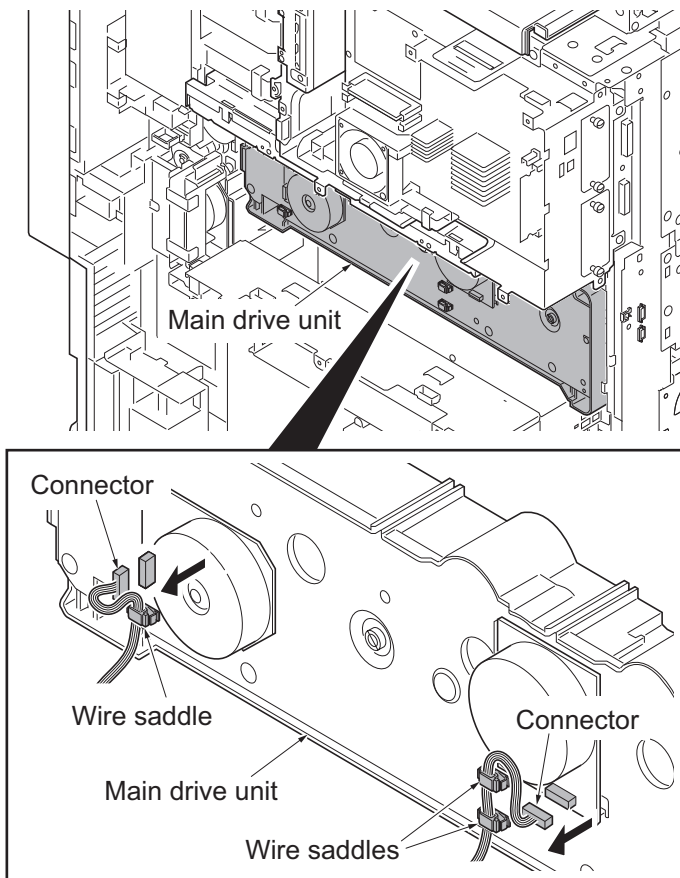


Figure 1-5-99

4. Remove five screws.
5. Remove the main drive unit.
6. Check or replace the main drive unit and refit all the removed parts.

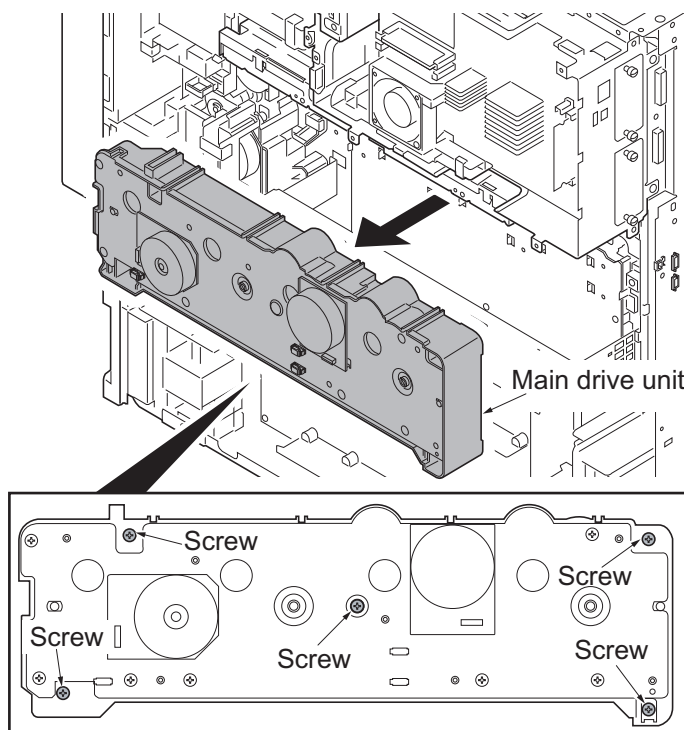


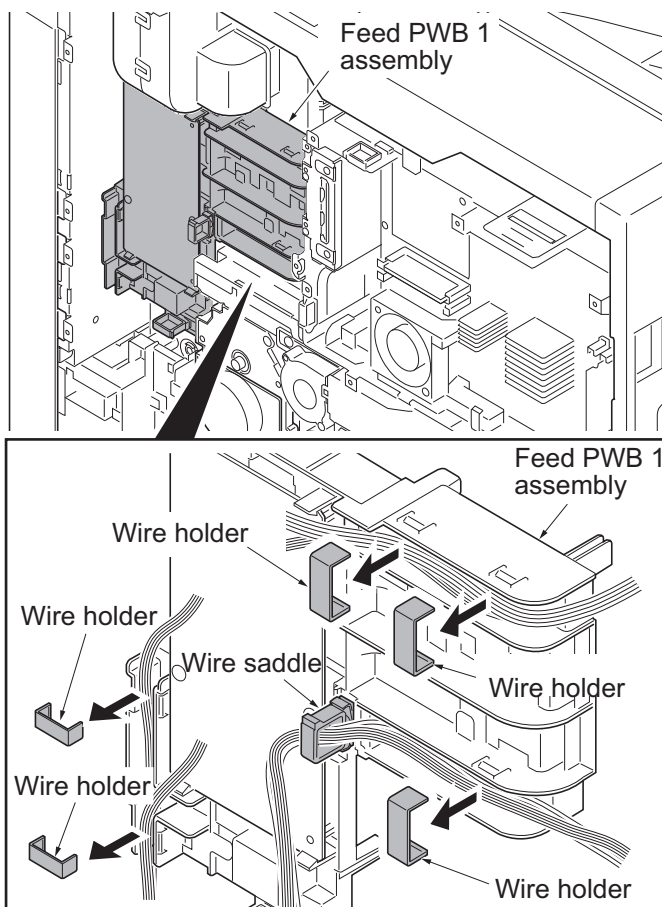
Figure 1-5-100

### (3) Detaching and refitting the fuser drive unit, transfer drive unit and feed drive unit

**Procedure**

**Detaching the fuser drive unit**

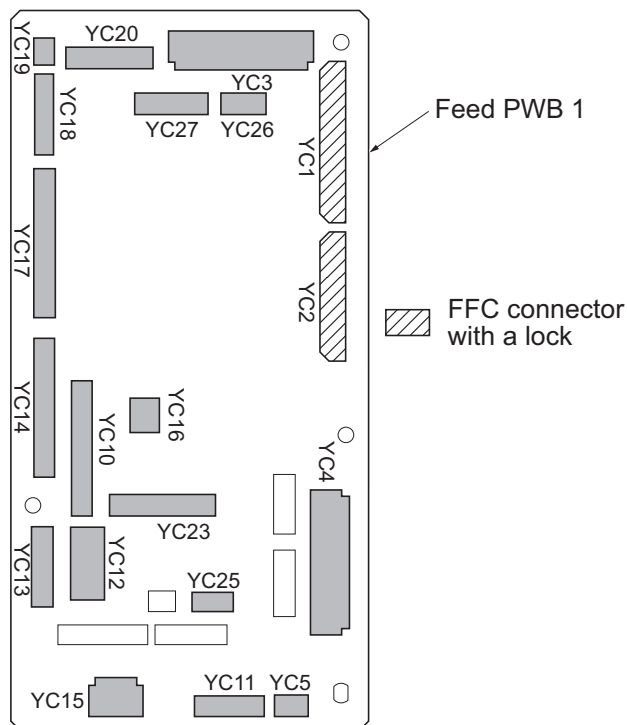
1. Remove the rear upper cover and the rear lower cover (see page 1-5-56).
2. Remove five wire holders of feed PWB 1 assembly.
3. Release the wire saddle.



**Figure 1-5-101**

4. Remove the following twenty connectors from the feed PWB 1.
  - YC18, YC19
  - YC20, YC27
  - YC26, YC3
  - YC17, YC14
  - YC10, YC16
  - YC13, YC12
  - YC23, YC25
  - YC15, YC11
  - YC5, YC4
  - YC1 (FFC connector with a lock)
  - YC2 (FFC connector with a lock)

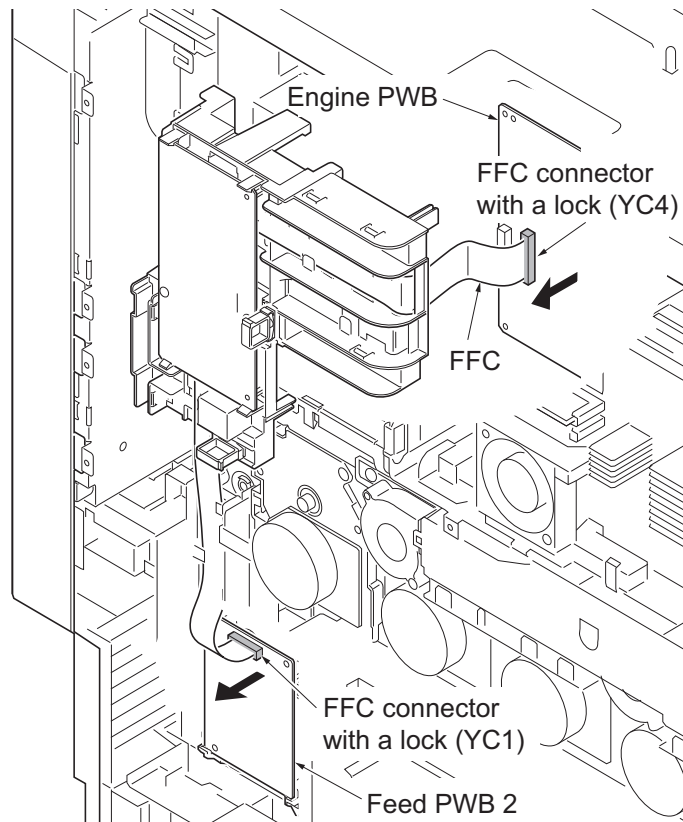
\*: When removing the FFC from the FFC connector with a lock, remove the FFC after released by lifting down the lock lever (see page 1-5-45).



**Figure 1-5-102**

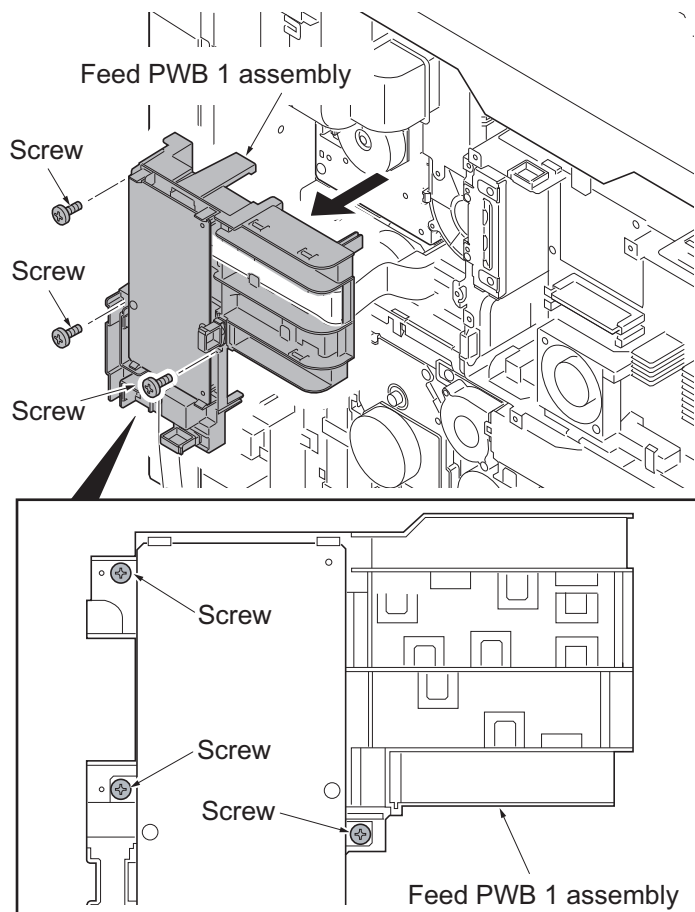
5. Remove the FFC from the FFC connector with a lock (YC4) on the engine PWB.  
Remove the FFC from the FFC connector with a lock (YC1) on the feed PWB 2.

\*: When removing the FFC from the FFC connector with a lock, remove the FFC after released by lifting down the lock lever (see page 1-5-45).



**Figure 1-5-103**

6. Remove three screws.
7. Remove the feed PWB 1 assembly.



**Figure 1-5-104**

- 8. Remove the connector.
- 9. Remove three screws.
- 10. Remove the fuser drive unit.

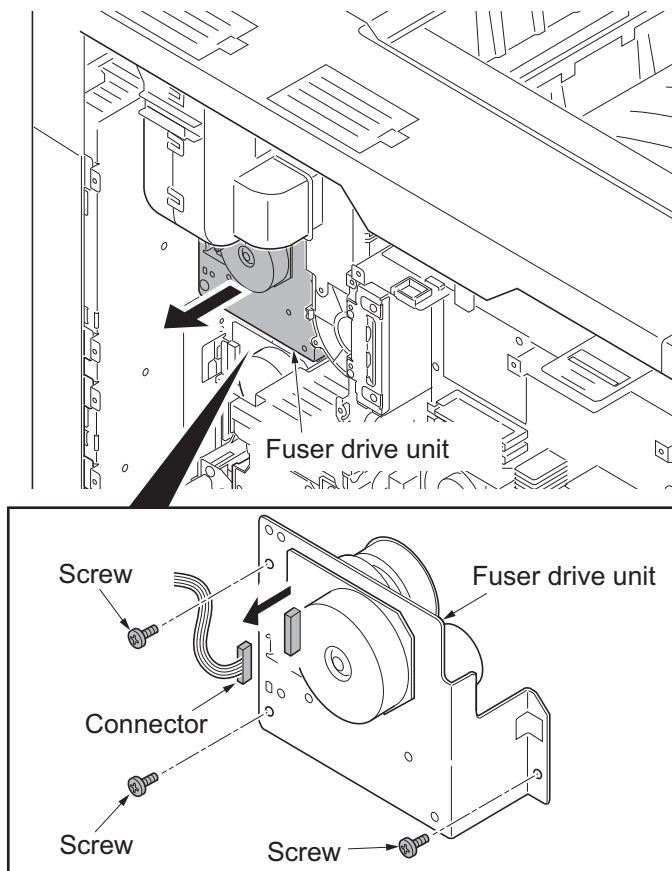


Figure 1-5-105

**Detaching the transfer drive unit**

- 11. Pull out the transfer belt unit a little (see page 1-5-34).
- 12. Release the clamp.
- 13. Remove the connector.
- 14. Remove three screws.
- 15. Remove the transfer drive unit.

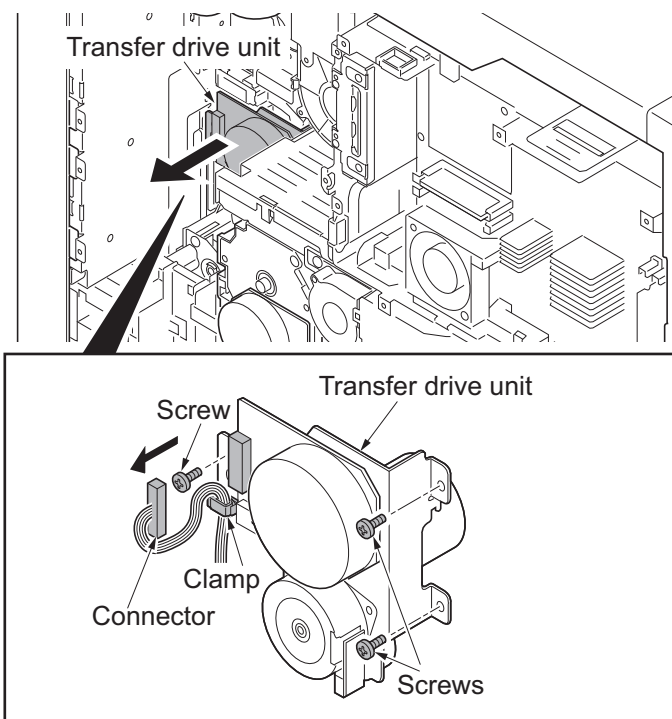


Figure 1-5-106

### Detaching the feed drive unit

16. Remove three wire holders from the feed 2 FFC guide.

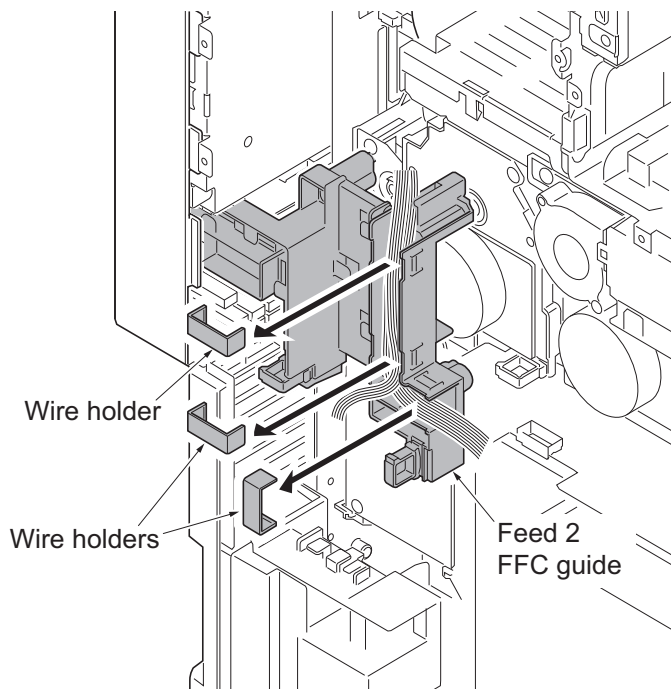


Figure 1-5-107

17. Remove two screws and then remove the feed 2 FFC guide.

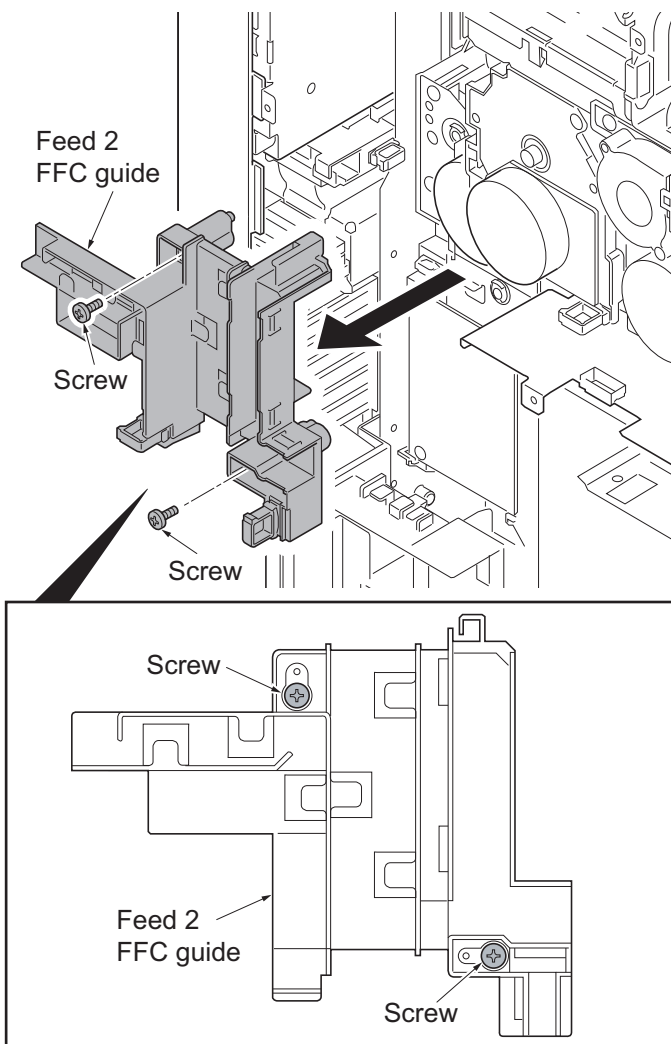


Figure 1-5-108

18. Remove the following nine connectors from the feed PWB 2.

- YC10
- YC11
- YC7
- YC8
- YC3
- YC5
- YC6
- YC13
- YC12

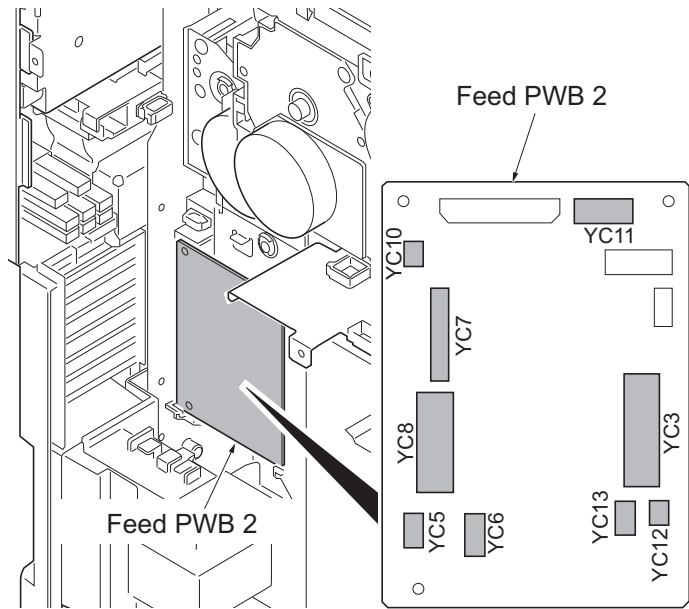


Figure 1-5-109

19. Remove three screws.  
20. Remove the feed drive unit.

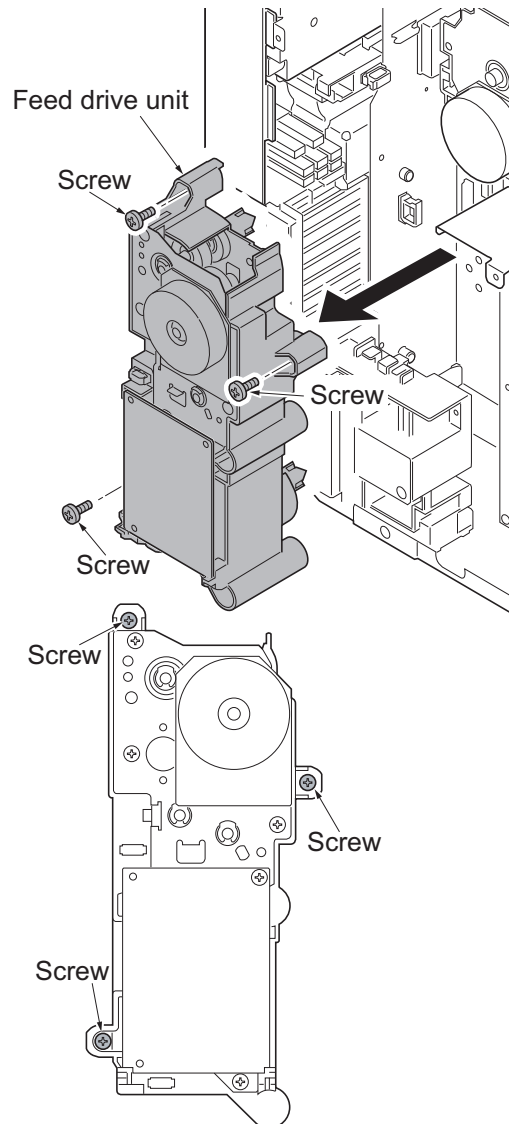


Figure 1-5-110



21. Check or replace the feed drive unit and refit all the removed parts.

\*: Connect the connector (yellow) to the connector of paper feed clutch 1 on stamp [YELLOW] side as before, when removing the connector of the paper feed clutch as the check of the feed drive unit etc.

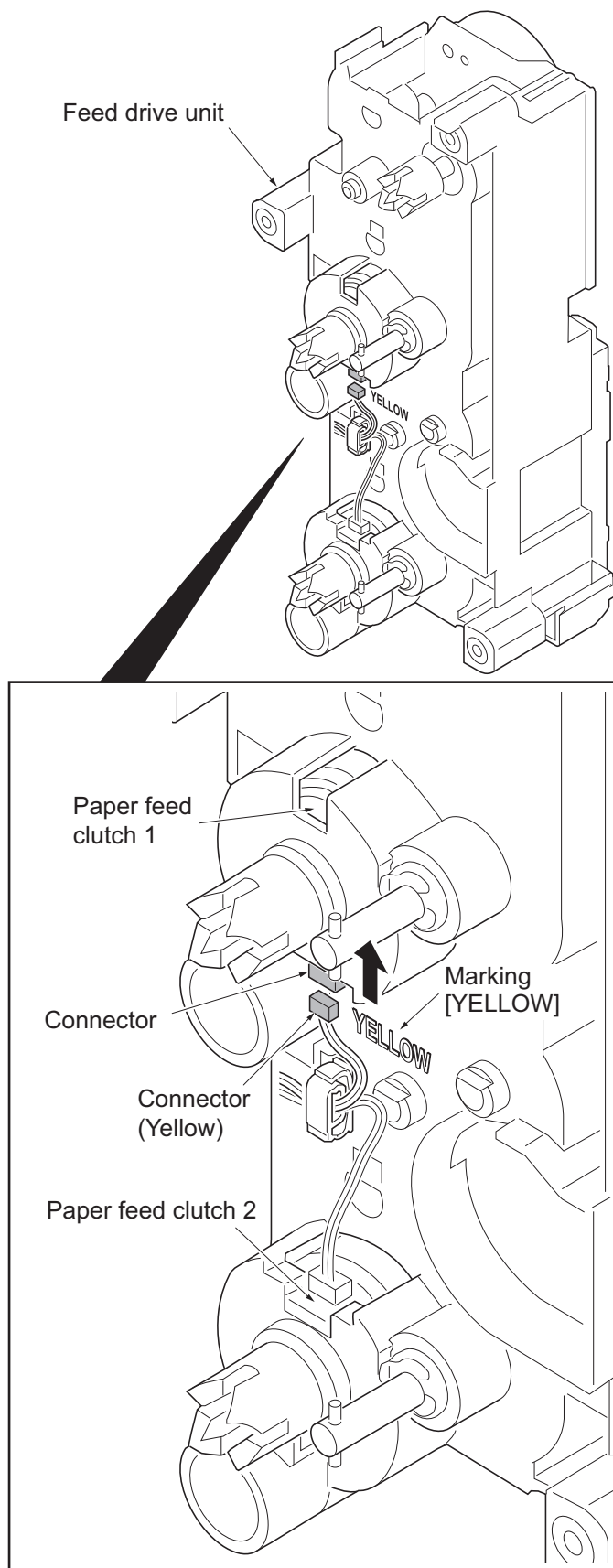


Figure 1-5-111



#### (4) Detaching and refitting the lift motor 1 and 2

##### Procedure

1. Remove the rear lower cover (see page 1-5-56).
2. Remove the power source assembly (see page 1-5-51).
3. Remove the connector each.
4. Remove two screws each.
5. Remove the lift motor 1 and 2.
6. Check or replace the lift motor and refit all the removed parts.

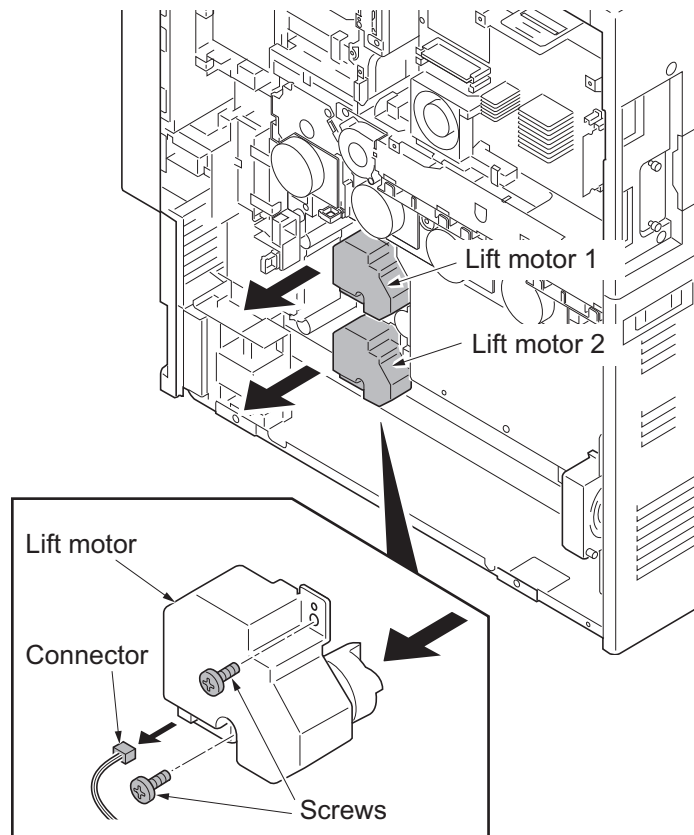


Figure 1-5-112

## 1-5-9 Others

### (1) Detaching the eject filter

#### Procedure

1. Unhook the hook each and remove two eject filter units.
2. Remove the eject filter from the eject cover.
3. Clean or replace the eject filter and refit the filter.

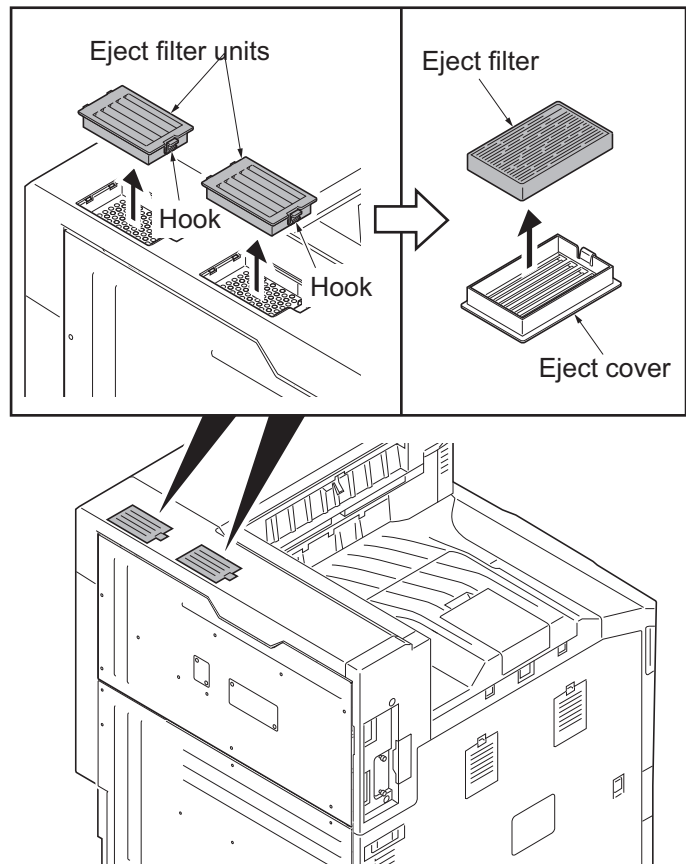


Figure 1-5-113

## (2) Detaching and refitting the toner filter

### Procedure

1. Remove the toner filter unit while gripping the levers.
2. Clean or replace the toner filter unit and refit the filter.

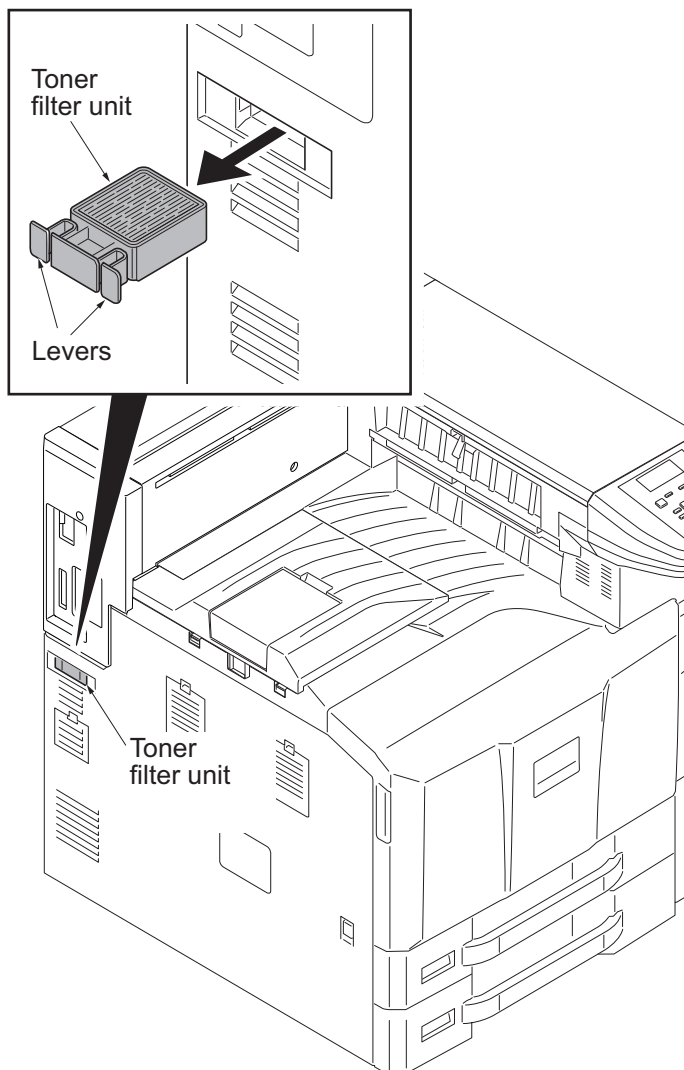


Figure 1-5-114

### (3) Detaching and refitting the fan filter

#### Procedure

1. Open the front cover.
2. Remove the fan filter by releasing the lever.
3. Clean the fan filter.
4. Refit the fan filter.

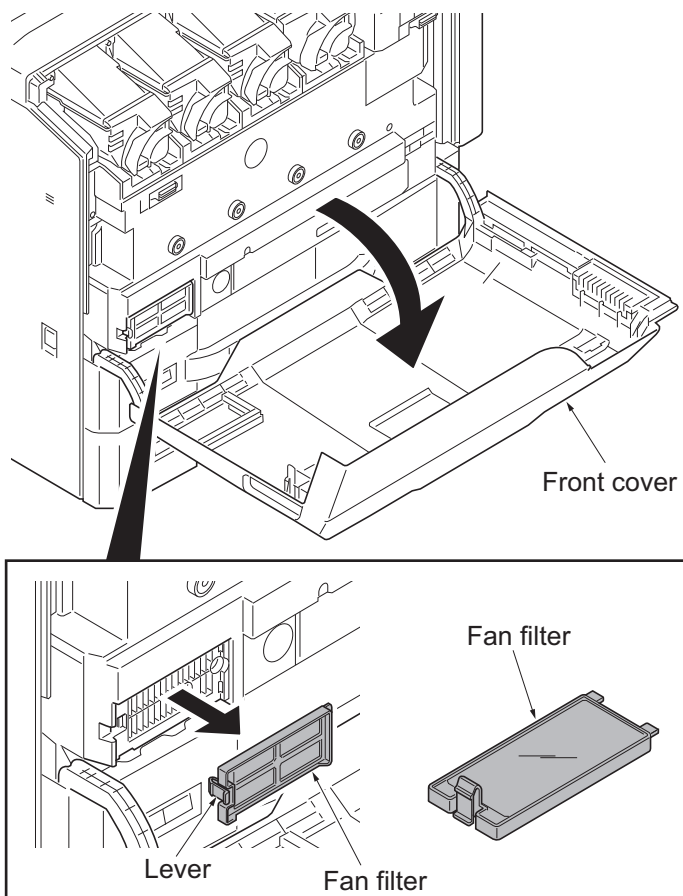


Figure 1-5-115

#### (4) Detaching and refitting the transfer belt filter

##### Procedure

1. Remove two transfer belt filters by releasing the lever.
2. Clean the transfer belt filter.
3. Refit the transfer belt filter.

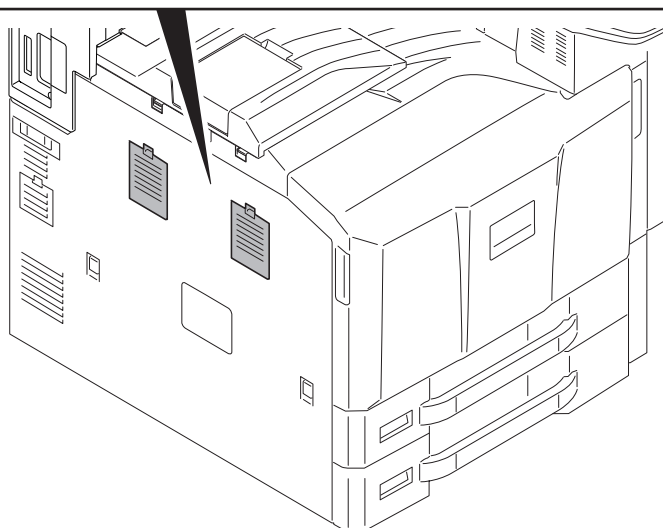
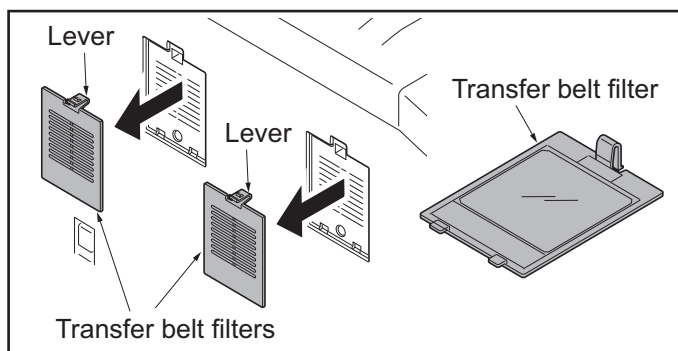


Figure 1-5-116

## (5) Detaching and refitting the left filter

### Procedure

1. Remove the left filter cover by releasing the lever.
2. Remove the left filter.
3. Clean or replace the left filter and refit the filter.

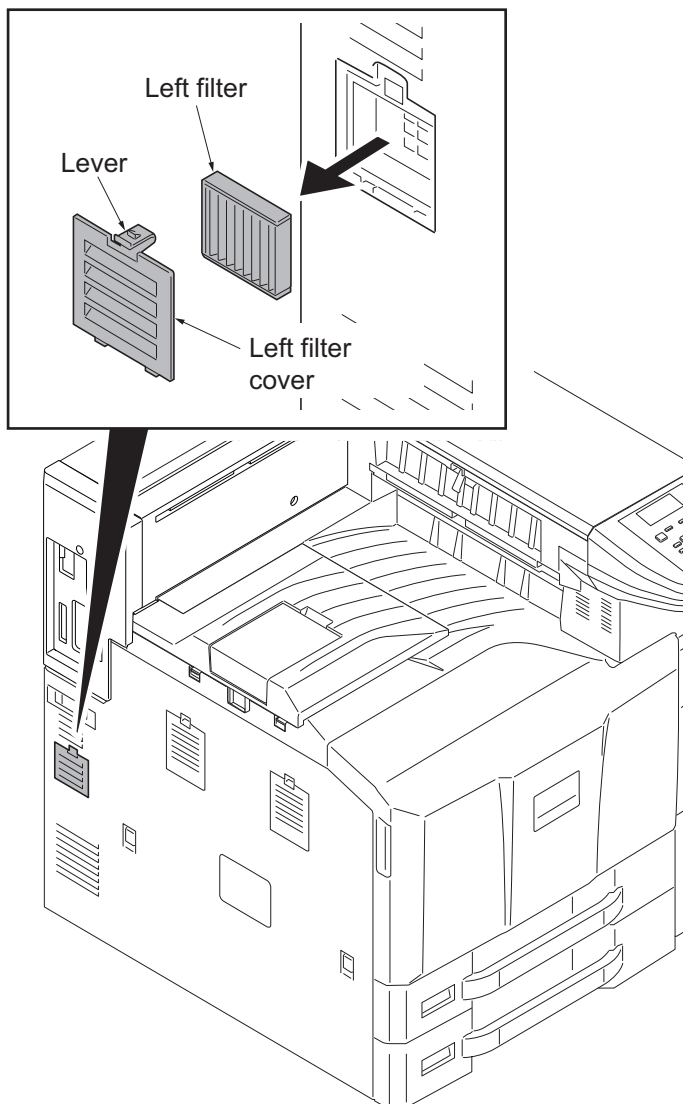


Figure 1-5-117

## (6) Detaching and refitting the developer filter

### Procedure

1. Remove the developer filter cover by releasing the lever.
2. Remove the developer filter.
3. Clean the developer filter and refit the filter.

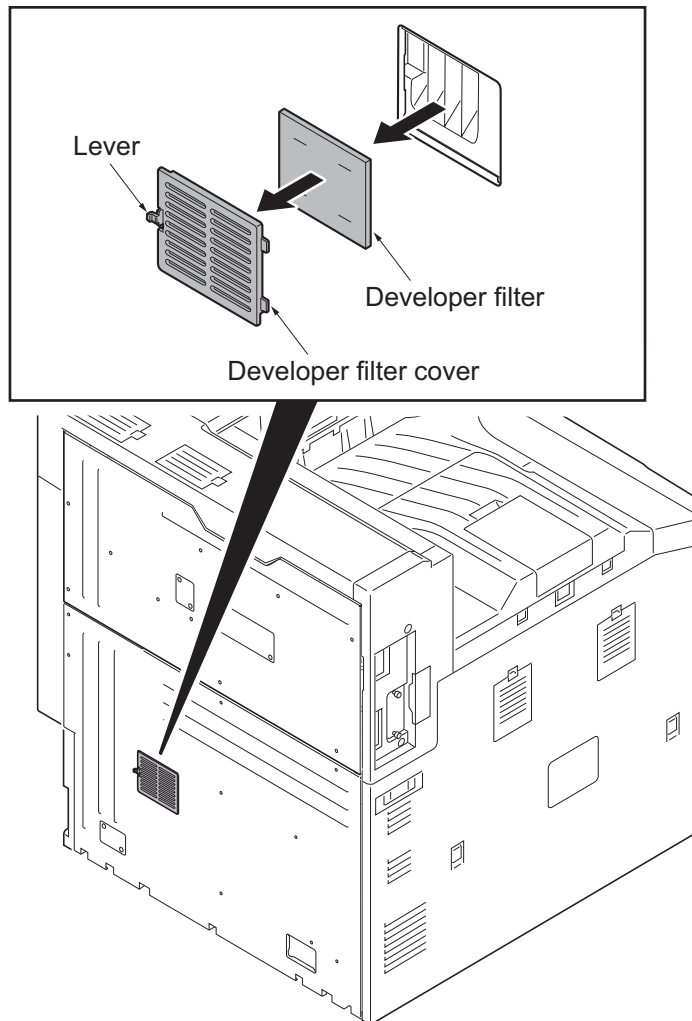
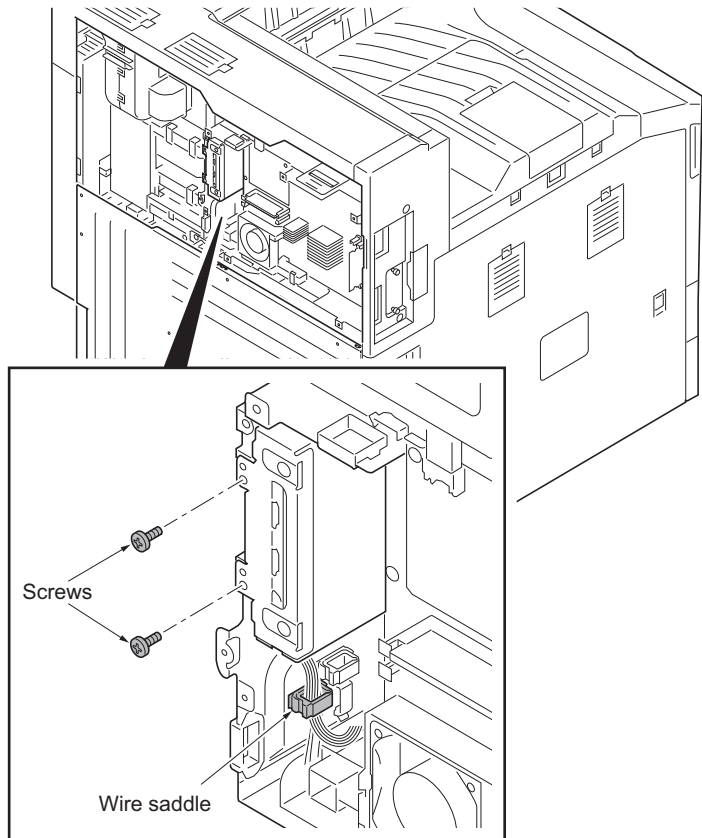


Figure 1-5-118

## (7) Detaching and refitting the hard disk unit

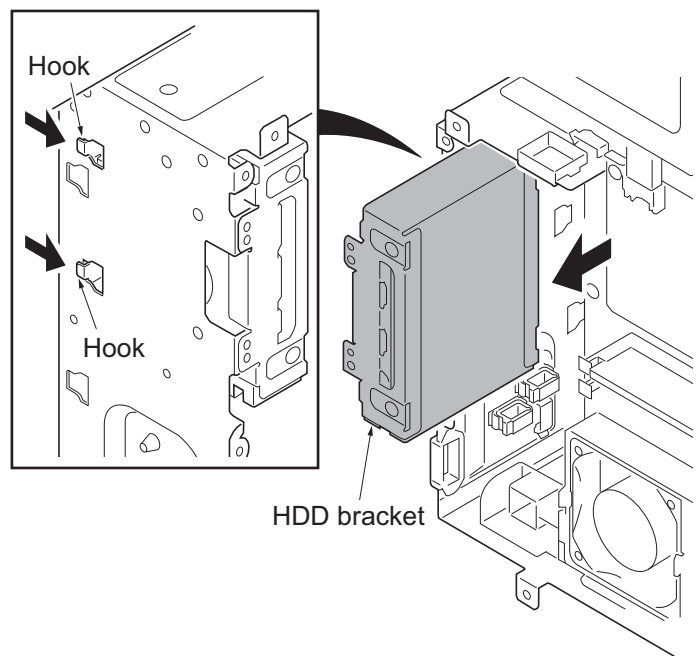
### Procedure

1. Perform maintenance mode U917 (backup data reading) (see page 1-3-141).
2. Remove the rear upper cover (see page 1-5-56).
3. Release the wire saddle.
4. Remove two screws.



**Figure 1-5-119**

5. Unhook two hooks and pull out the HDD bracket a little.



**Figure 1-5-120**



6. Remove two connectors from the hard disk unit while pushing the lock lever.  
Number of hard disk unit equipment: 1

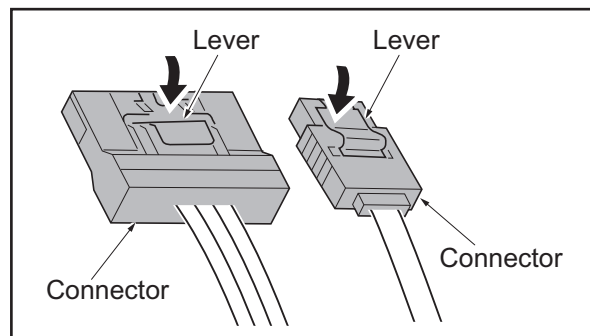
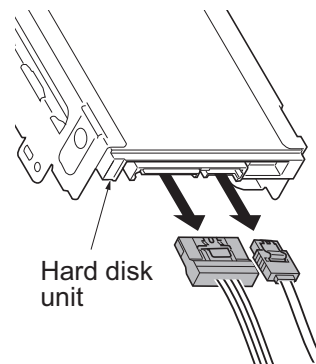


Figure 1-5-121

7. Remove four screws and then remove the hard disk unit from the HDD bracket.
8. Replace the hard disk unit and refit all the removed parts.
9. Perform maintenance mode U024 (HDD formatting) (see page 1-3-27).
10. Install the firmwares by the following procedure.
- 1) Connects to the machine the USB memory that preserved Software LANGUAGE BR, JP (Opt Font, Opt Msg), and the PDF1.7 resource. The firmware is installed by switching the main power switch to ON/OFF.
11. Perform maintenance mode U917 (backup data writing) (see page 1-3-141).

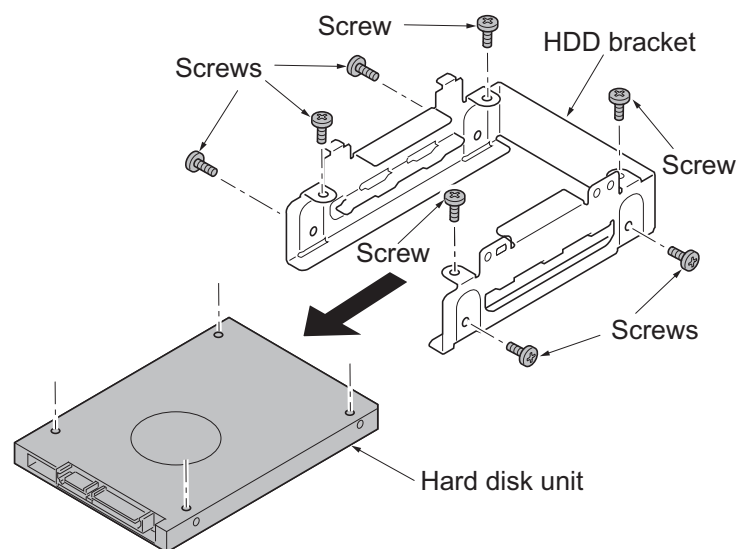


Figure 1-5-122

## (8) Detaching and refitting the eject unit

### Procedure

1. Pull out the paper conveying unit.
2. Remove the fuser unit (see page 1-5-40).
3. Remove the connector.
4. Remove four screws and then remove the eject unit.
5. Check or replace the eject unit and refit all the removed parts.

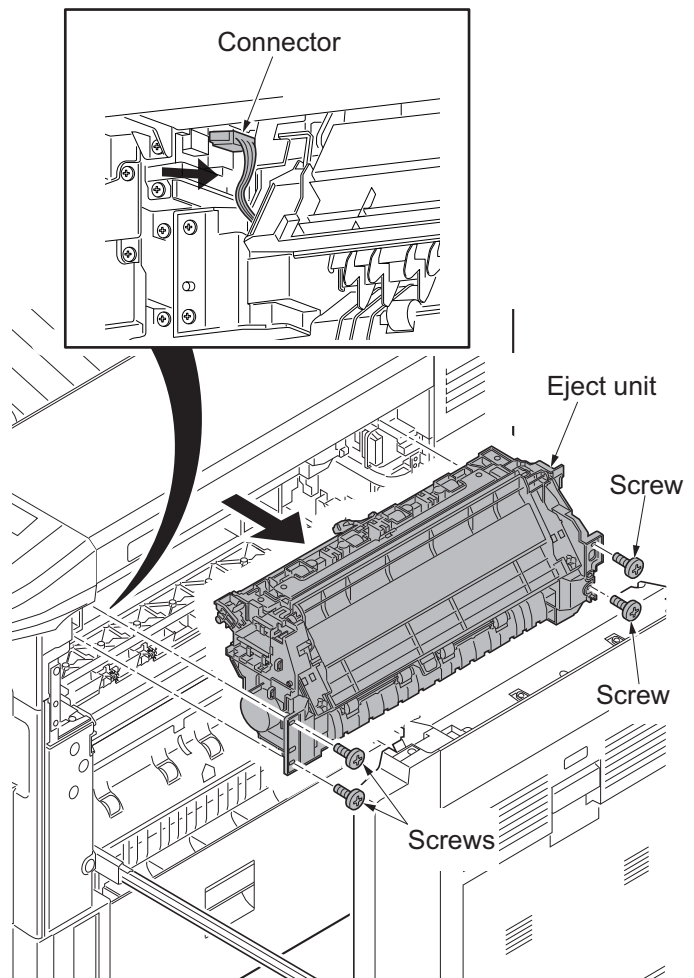


Figure 1-5-123

### Cautions on installing the eject unit

When an additional actuator is installed at the upper actuator while installing the bridge unit, inserting the eject unit into the device, use care that the eject unit does not get in contact with the eject guide, by keeping its actuator lifted while inserting.

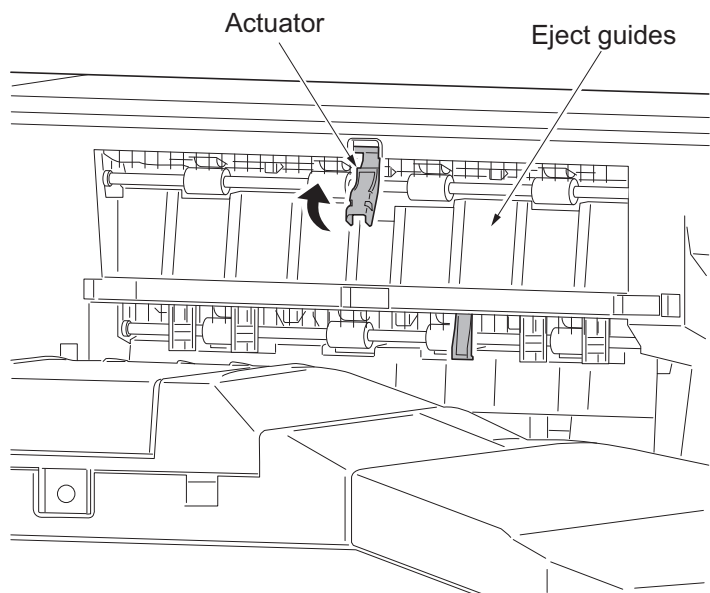


Figure 1-5-124

### (9) Direction of installing the principal fan motors

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

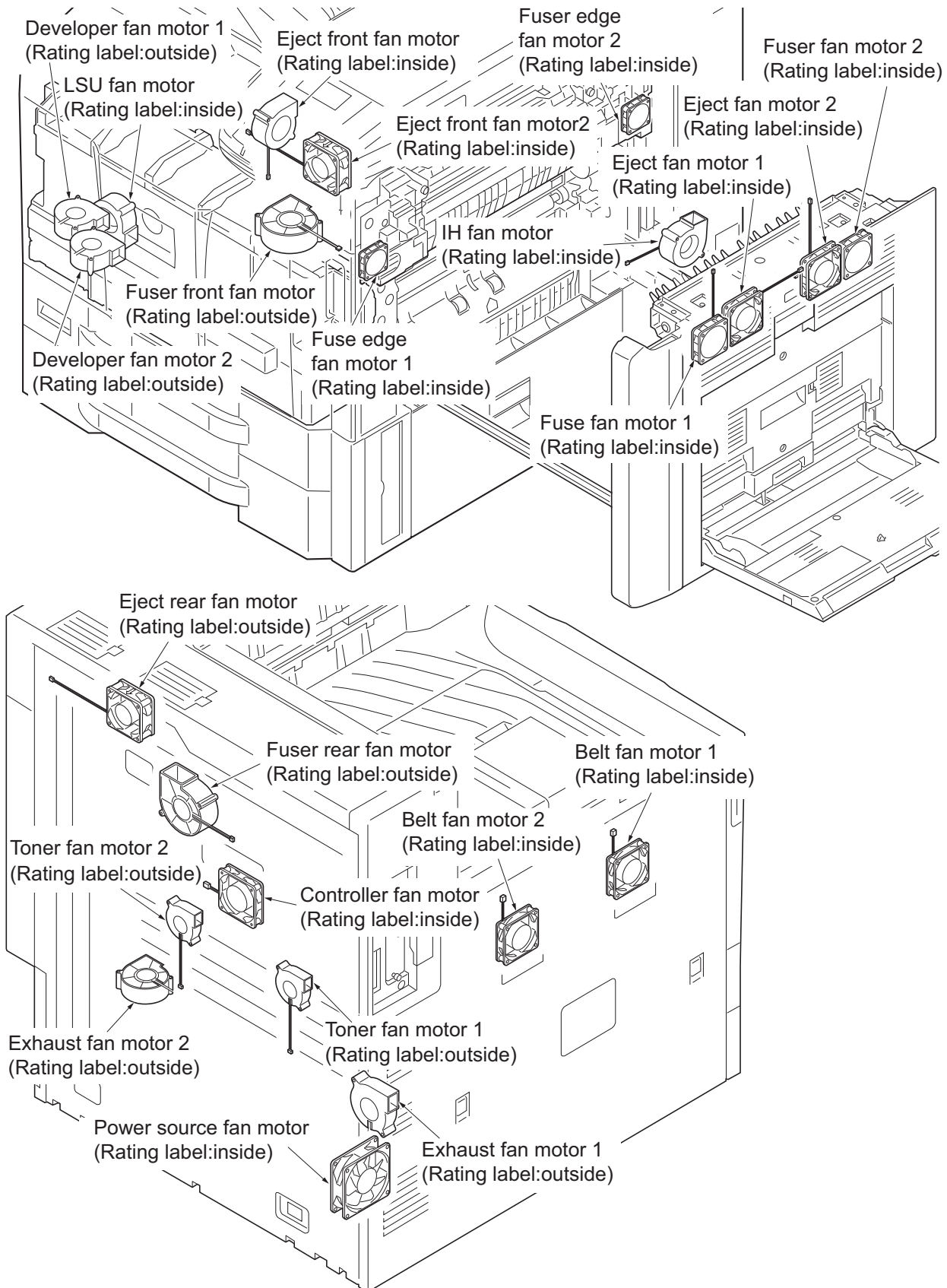


Figure 1-5-125

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## 1-6-1 Upgrading the firmware

Follow the procedure below to upgrade the firmware of main PWB, engine PWB, fuser IH PWB, motor control PWB, PDF Resource, optional language, color table and optional devices.

### Preparation

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

### Procedure

1. Perform maintenance item U000 (maintenance report output) and check U019 ROM version.
2. After confirming the data lamp is turned off, perform shut-down on the operation panel, turn power off, and unplug the power receptacle (see page P.1-2-19).
3. Insert the USB flash device in which the firmware has been written into a notch hole of the machine.
4. Turn the main power switch on. Upgrading firmware starts (blinking the memory LED).

#### Caution:

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

5. [ROM version] is displayed on the touch panel when upgrading is complete.
6. Perform shut-down, and turn the main power switch to off.
7. Wait for several seconds and then remove the USB flash device from the machine.
8. Turn the main power switch on.
9. Perform maintenance item U000 (maintenance report output) and check that U019 ROM version has been upgraded.

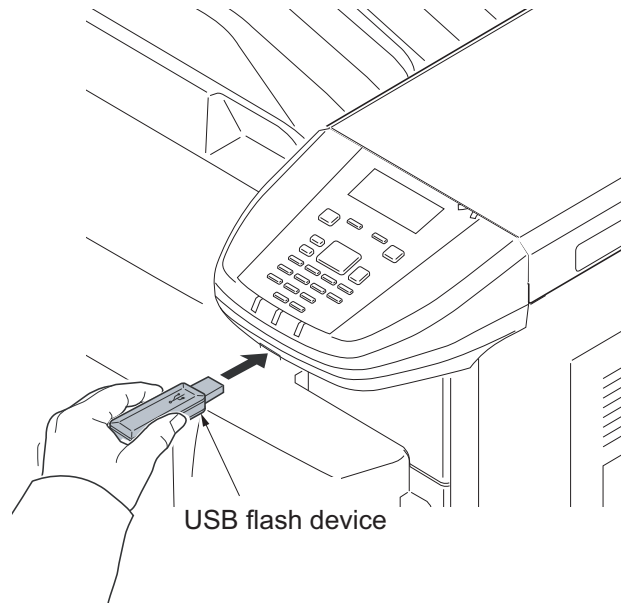


Figure 1-6-1

## 1-6-2 Remarks on main PWB replacement

When replacing the main PWB, remove the EEPROM (YC14) and code DIMM (YS4) from the main PWB that has been removed and then reattach it to the new main PWB.

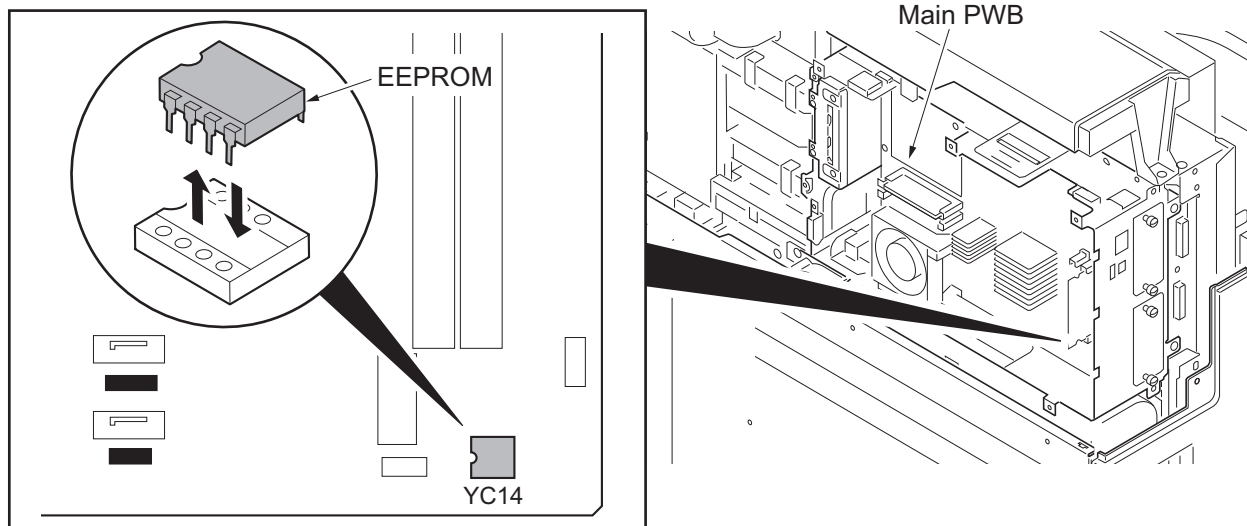


Figure 1-6-2

When refitting DIMM, check “CODE” marked on the PWB and refit them to the original position.

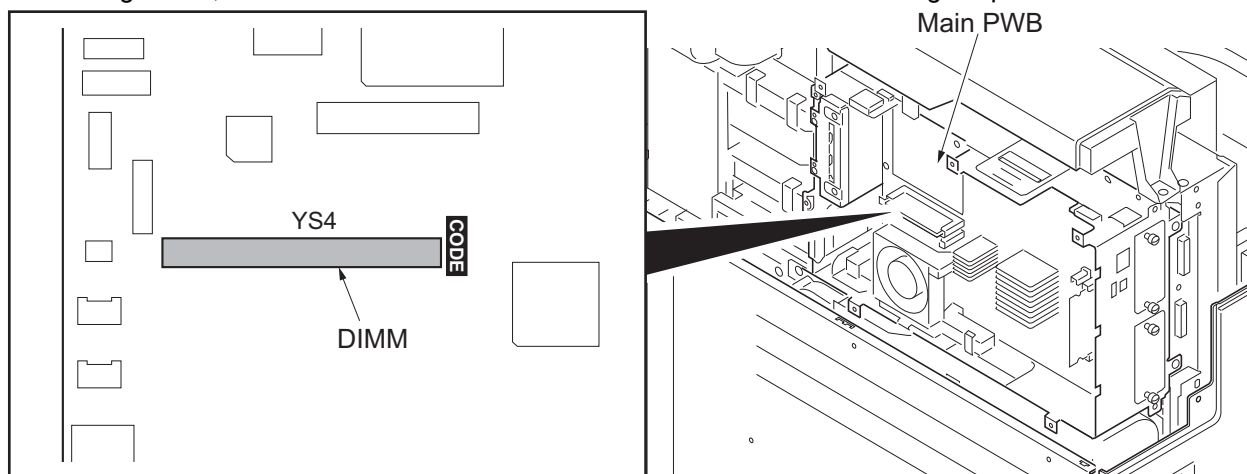


Figure 1-6-3

If the code DIMM (YS4) was replaced with a service supplied part, perform the following.

1. Insert the USB flash device in which the latest firmware was copied, into the slot on the machine and turn power on.(see page P.1-6-1)
2. Referring to the U000 maintenance report printed previously, enter the following values.
  - U278 Setting the delivery date
  - U952 Maintenance mode workflow
3. Reset machine settings.(Resets system menu settings modified at setup to their defaults.)
  - Main items for settings
  - [Date Setting] - Date and time settings.
  - [User/Job accounting] - Defaults for user authentication and job accounting only.
    - Resettings are not required as the data are stored in harddisk.
  - [Network] - Network settings (IP address)
  - [Adjustment/Maintenance] - Silent Mode setting

4. Run the maintenance mode for image adjustments which follows.
  1. Performs maintenance mode U464 (Calibration) (see page P.1-3-118).
  2. Performs maintenance mode U469 (Auto color registration correction) (see page P.1-3-126).

### 1-6-3 Remarks on engine PWB replacement

When replacing the engine PWB, remove the EEPROM (U100) from the engine PWB that has been removed and then reattach it to the new engine PWB.

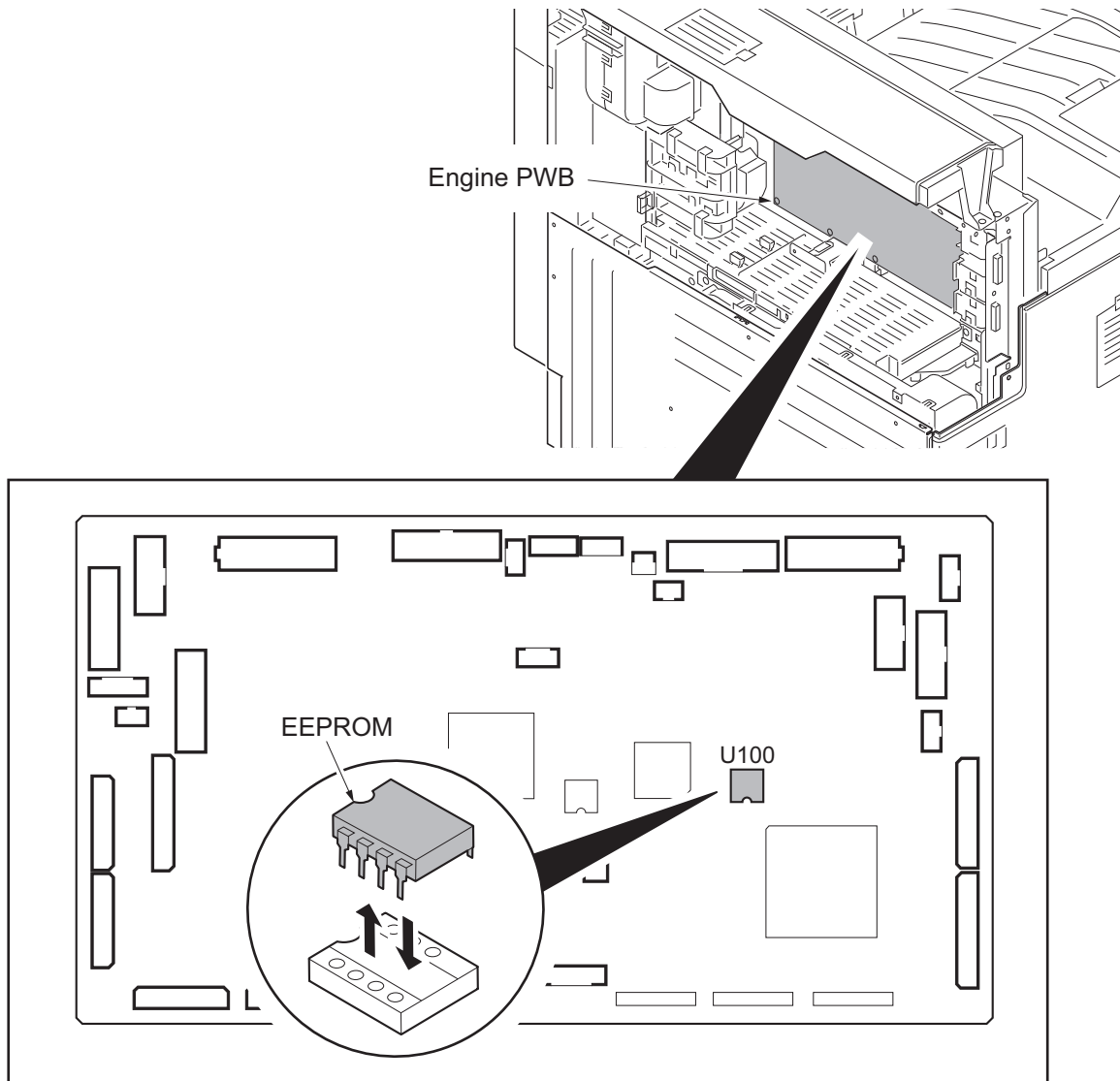


Figure 1-6-4



## 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

Cassette paper feed section consists of the paper holder with the cassette operation plate activated by lift motor 1 and 2, and the pulleys, such as the forwarding pulley, the paper feed pulley and the separation pulley, for extracting and conveying the paper. Paper is fed out of the cassette by the rotation of the forwarding pulley, paper feed pulley and separation pulley.

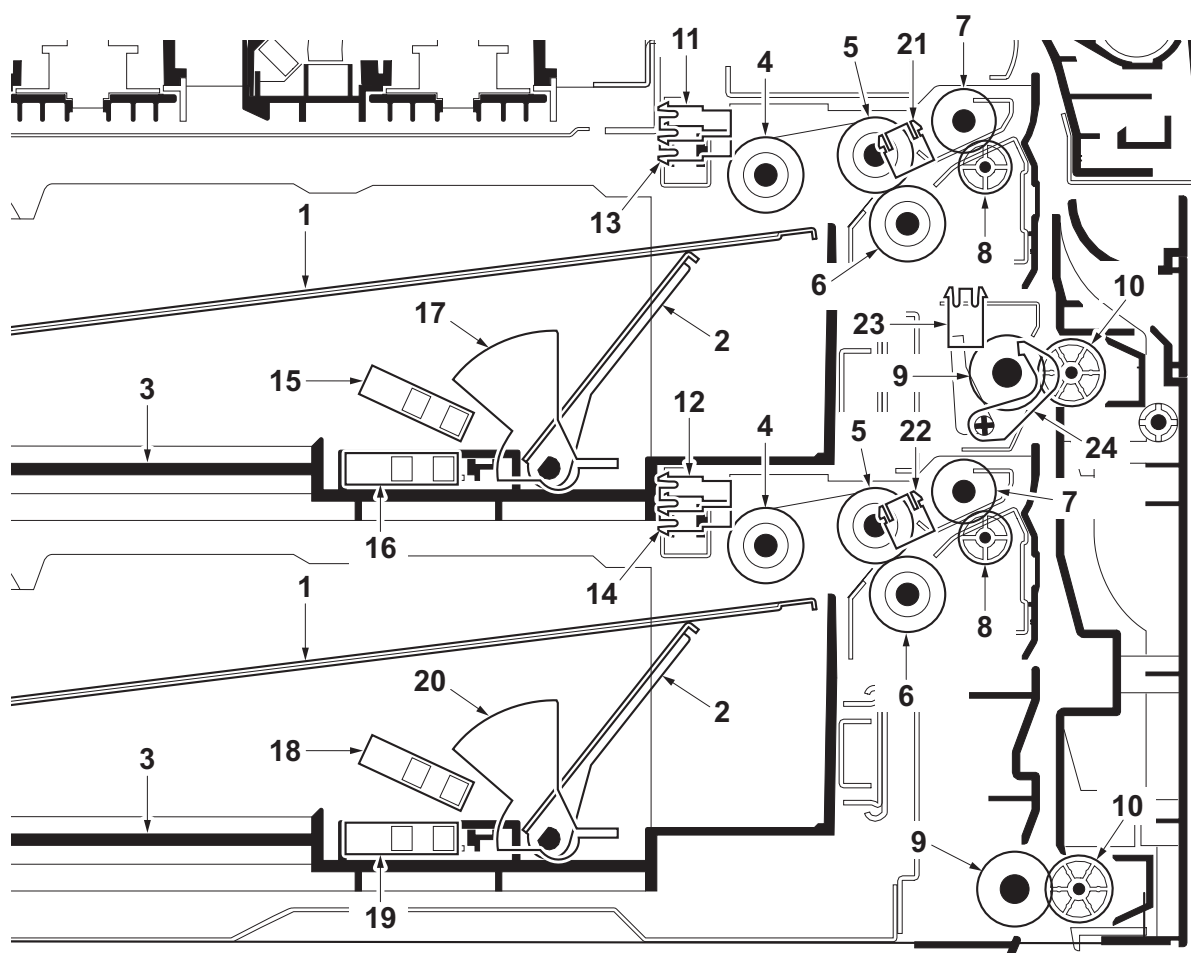


Figure 2-1-1 Cassette paper feed section

- |                             |   |   |
|-----------------------------|---|---|
| 1. Cassette base            | 12. Paper sensor 2 (PS2)                  | 19. Paper gauge sensor 2 (L)<br>(PGS2(L)) |
| 2. Cassette operation plate | 13. Lift sensor 1 (LS1)                   | 20. Actuator<br>(Paper gauge sensor 2)    |
| 3. Cassette                 | 14. Lift sensor 2 (LS2)                   | 21. Feed sensor 1 (FS1)                   |
| 4. Forwarding pulleys       | 15. Paper gauge sensor 1 (U)<br>(PGS1(U)) | 22. Feed sensor 2 (FS2)                   |
| 5. Paper feed pulleys       | 16. Paper gauge sensor 1 (L)<br>(PGS1(L)) | 23. Paper conveying sensor<br>(PCS)       |
| 6. Separation pulleys       | 17. Actuator<br>(Paper gauge sensor 1)    | 24. Actuator<br>(Paper conveying sensor)  |
| 7. Assist rollers           | 18. Paper gauge sensor 2 (U)<br>(PGS2(U)) |   |
| 8. Assist pulleys           |   |   |
| 9. Paper conveying roller   |   |   |
| 10. Paper conveying pulley  |   |   |
| 11. Paper sensor 1 (PS1)    |   |   |

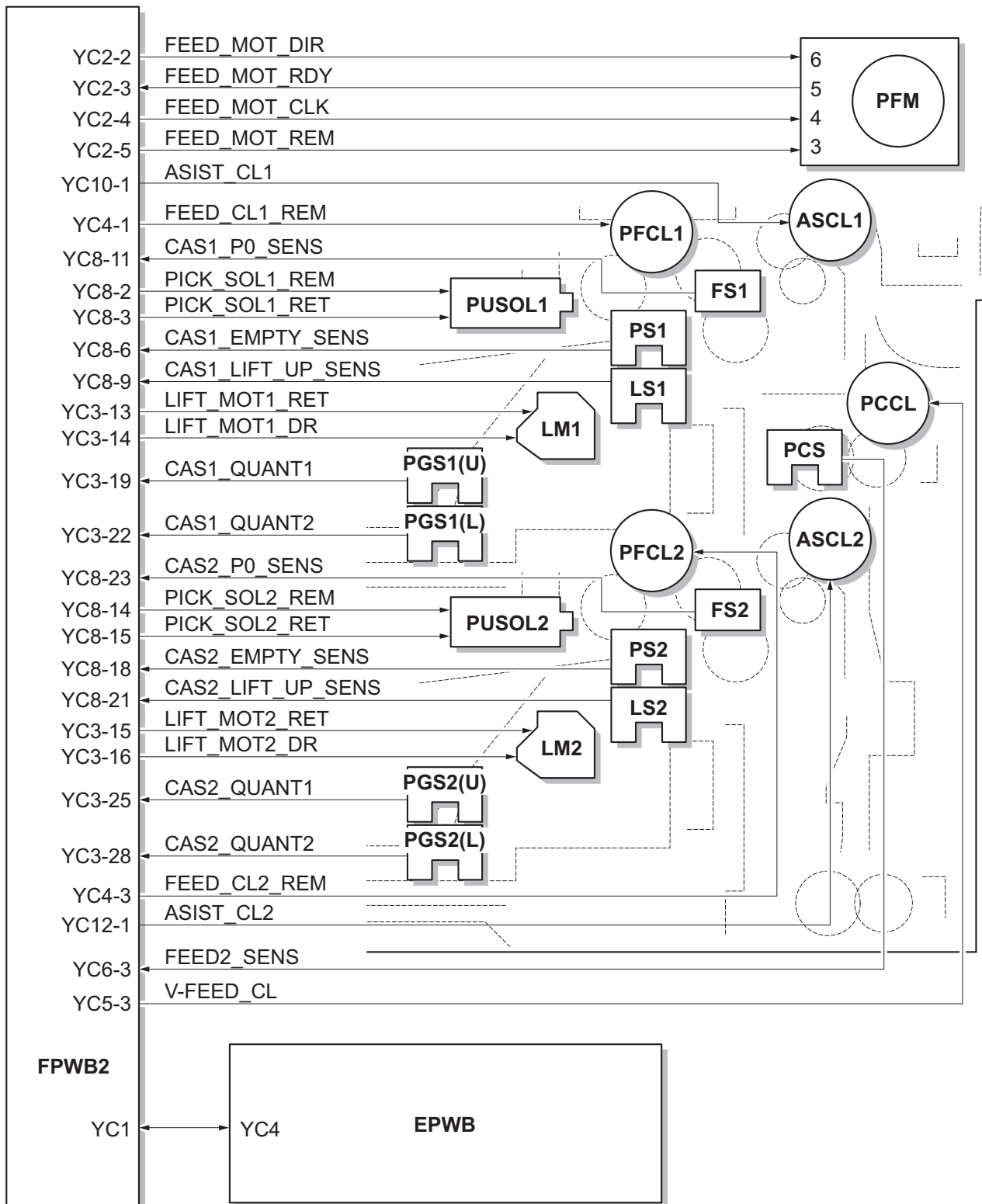


Figure 2-1-2 Cassette paper feed section block diagram

## (2) MP tray paper feed section

Paper is fed out of the MP tray by the rotation of the MP forwarding pulley, MP paper feed pulley and MP separation pulley. The MP separation pulley prevents multiple sheets from being fed at one time by the torque limiter.

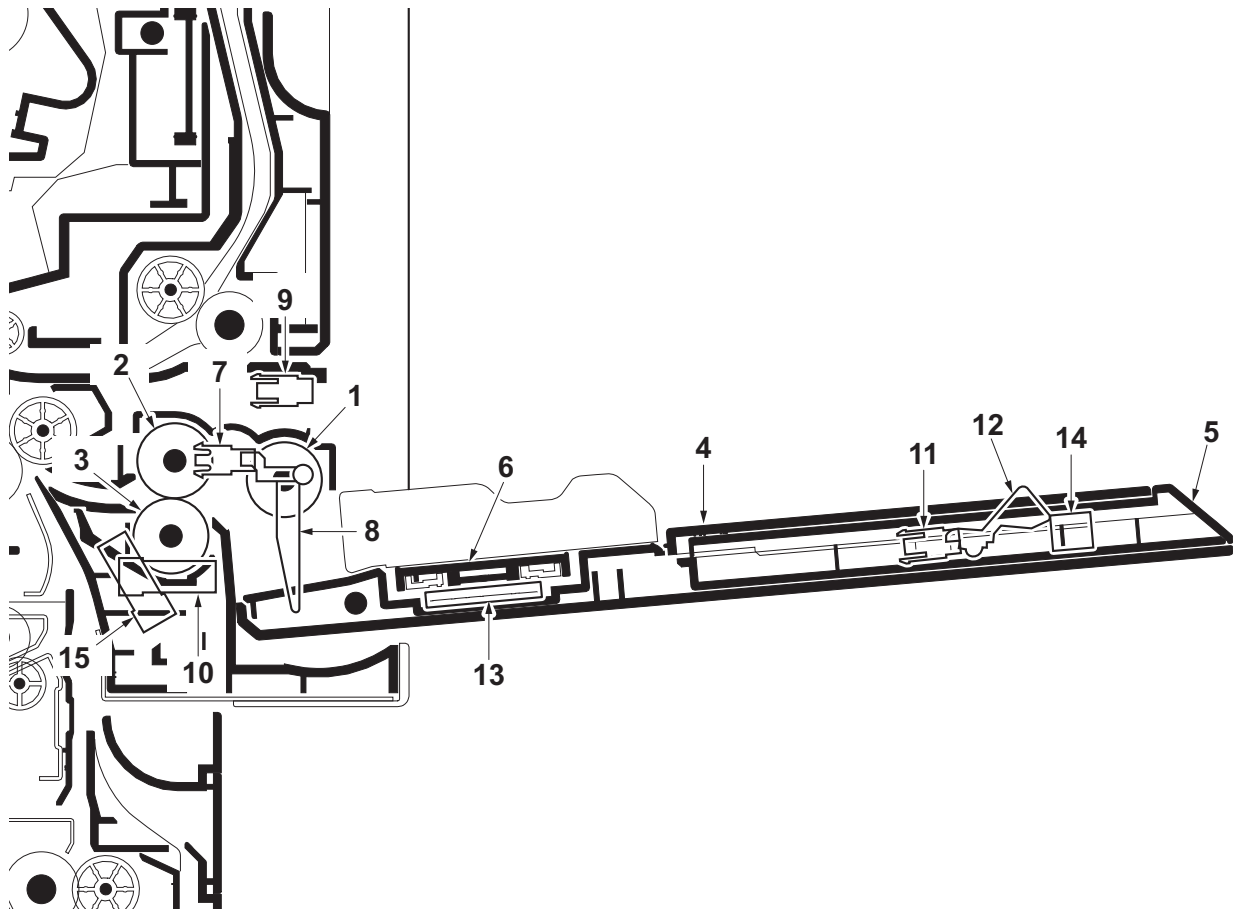


Figure 2-1-3 MP tray paper feed section

- |                               |                                       |
|-------------------------------|---------------------------------------|
| 1. MP forwarding pulley       | 10. MP lift sensor 2 (MPLS2)          |
| 2. MP paper feed pulley       | 11. MP paper length switch (MPPLSW)   |
| 3. MP separate pulley         | 12. Actuator (MP paper length switch) |
| 4. MP table                   | 13. MP paper width switch (MPPWSW)    |
| 5. MP support Tray            | 14. MP tray switch (MPTSW)            |
| 6. MP lift base               | 15. MP feed sensor (MPFS)             |
| 7. MP paper sensor (MPPS)     |                                       |
| 8. Actuator (MP paper sensor) |                                       |
| 9. MP lift sensor 1 (MPLS1)   |                                       |

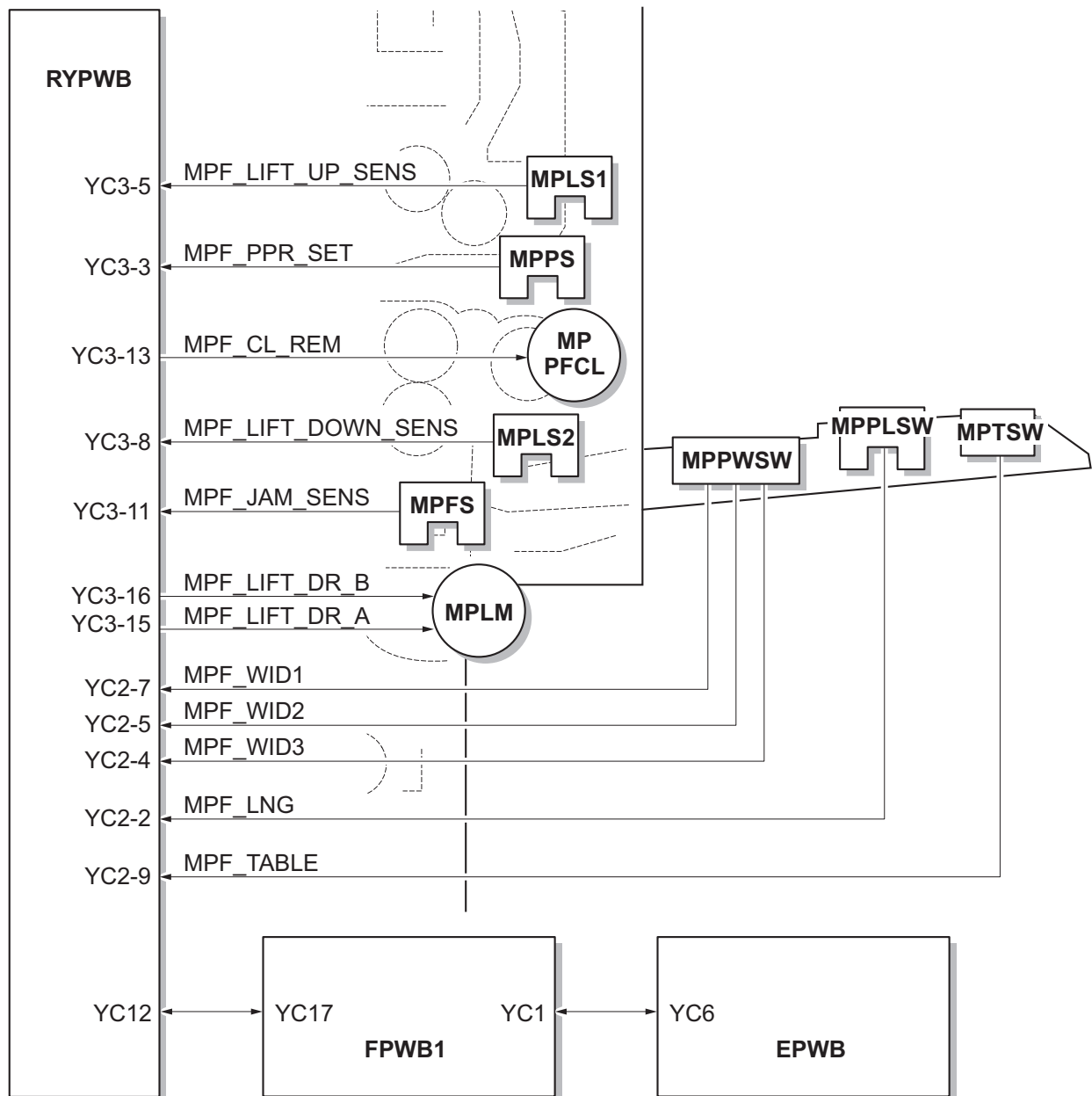


Figure 2-1-4 MP tray paper feed section block diagram

### (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 right registration roller and left registration roller.

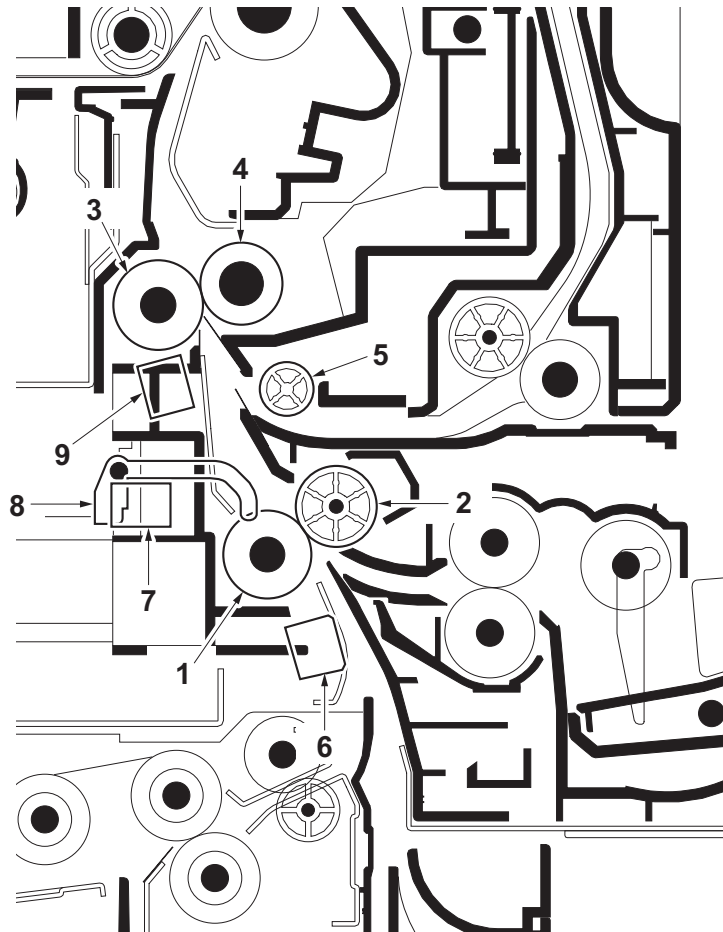


Figure 2-1-5 Paper conveying section

- |                              |                                   |
|------------------------------|-----------------------------------|
| 1. Middle roller             | 6. Middle sensor (MS)             |
| 2. Middle pulley             | 7. Regist deflection sensor (RDS) |
| 3. Left registration roller  | 8. Actuator                       |
| 4. Right registration roller | (regist deflection sensor)        |
| 5. Paper conveying pulley    | 9. Registration sensor (RS)       |

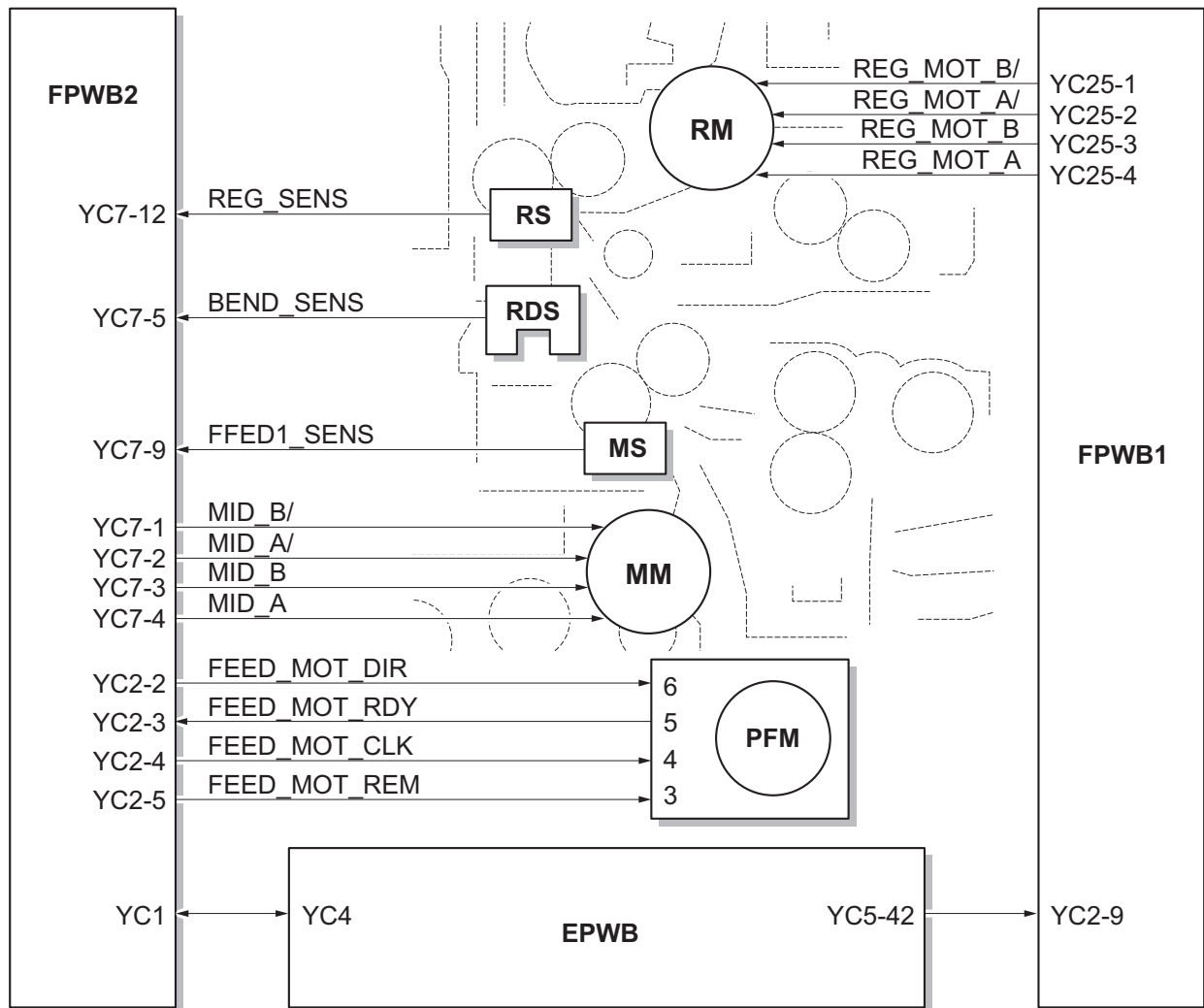


Figure 2-1-6 Paper conveying section block diagram

## 2-1-2 Drum section

The drum section consists of the charger roller unit, drum and cleaning section. The drum is electrically charged uniformly by means of a charger roller to form a latent image on the surface. The cleaning section consists of the cleaning blade and the cleaning roller which remove residual toner from the drum surface after transfer. The cleaning lamp (CL) consists of LEDs and removes residual charge on the drum before main charging.

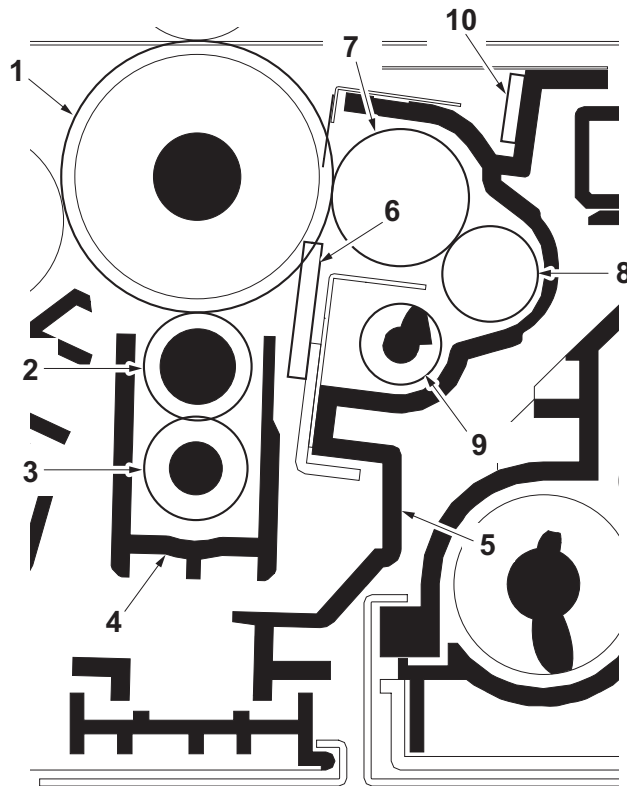


Figure 2-1-7 Drum section

- |                            |                        |
|----------------------------|------------------------|
| 1. Drum                    | 6. Cleaning blade      |
| 2. Charger roller          | 7. Cleaning roller     |
| 3. Charger cleaning roller | 8. Control roller      |
| 4. Charger case            | 9. Drum screw          |
| 5. Drum frame              | 10. Cleaning lamp (CL) |

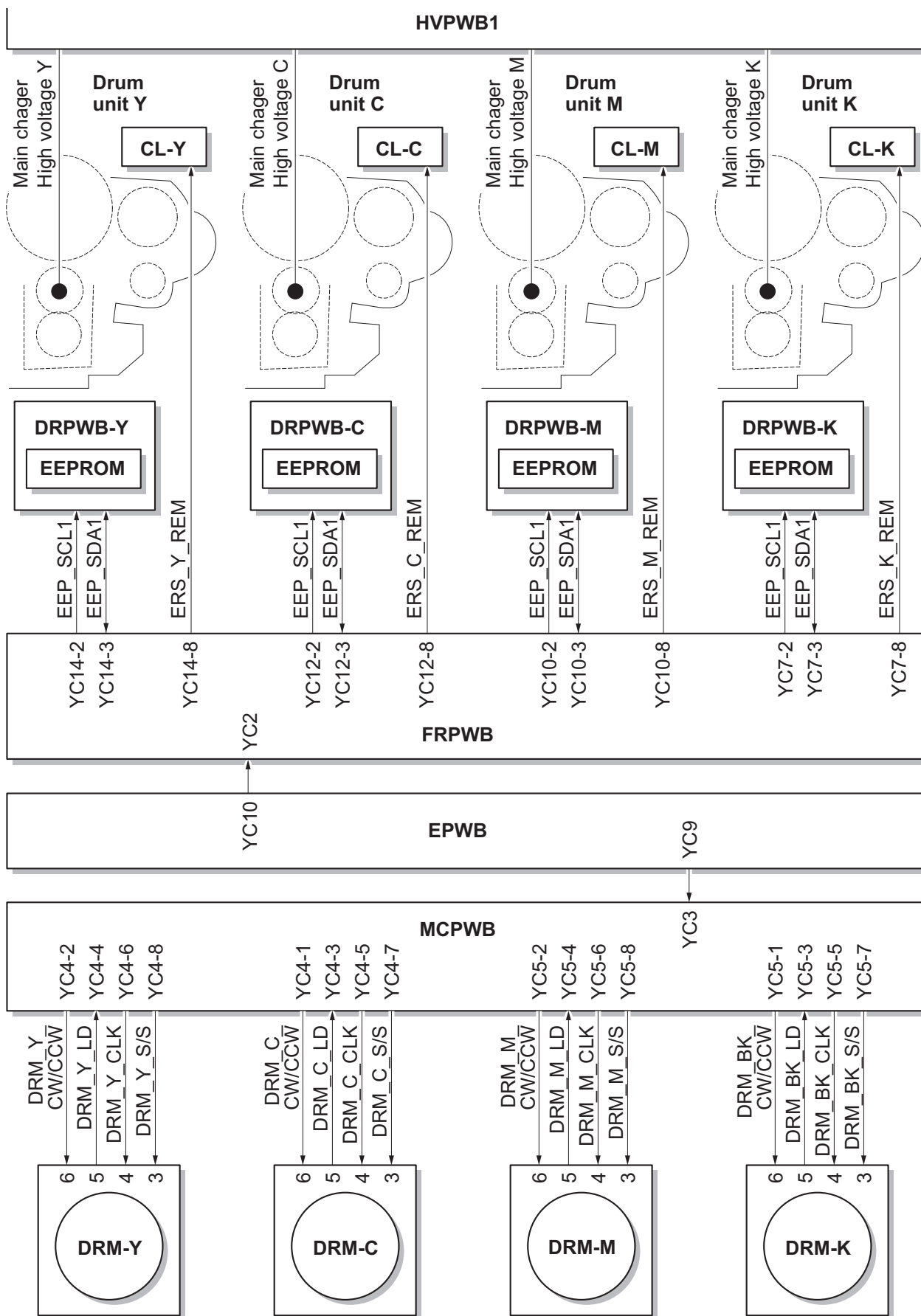


Figure 2-1-8 Drum section block diagram



## 2-1-3 Developer section

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

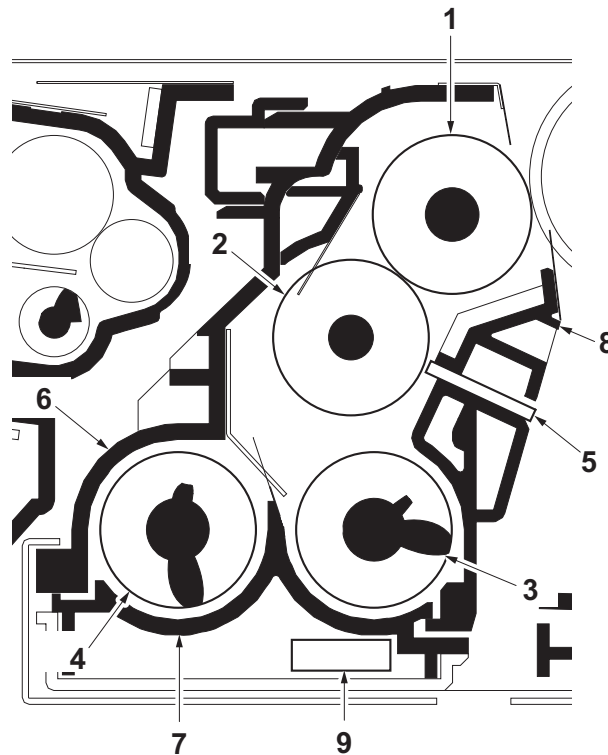


Figure 2-1-9 Developer section

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

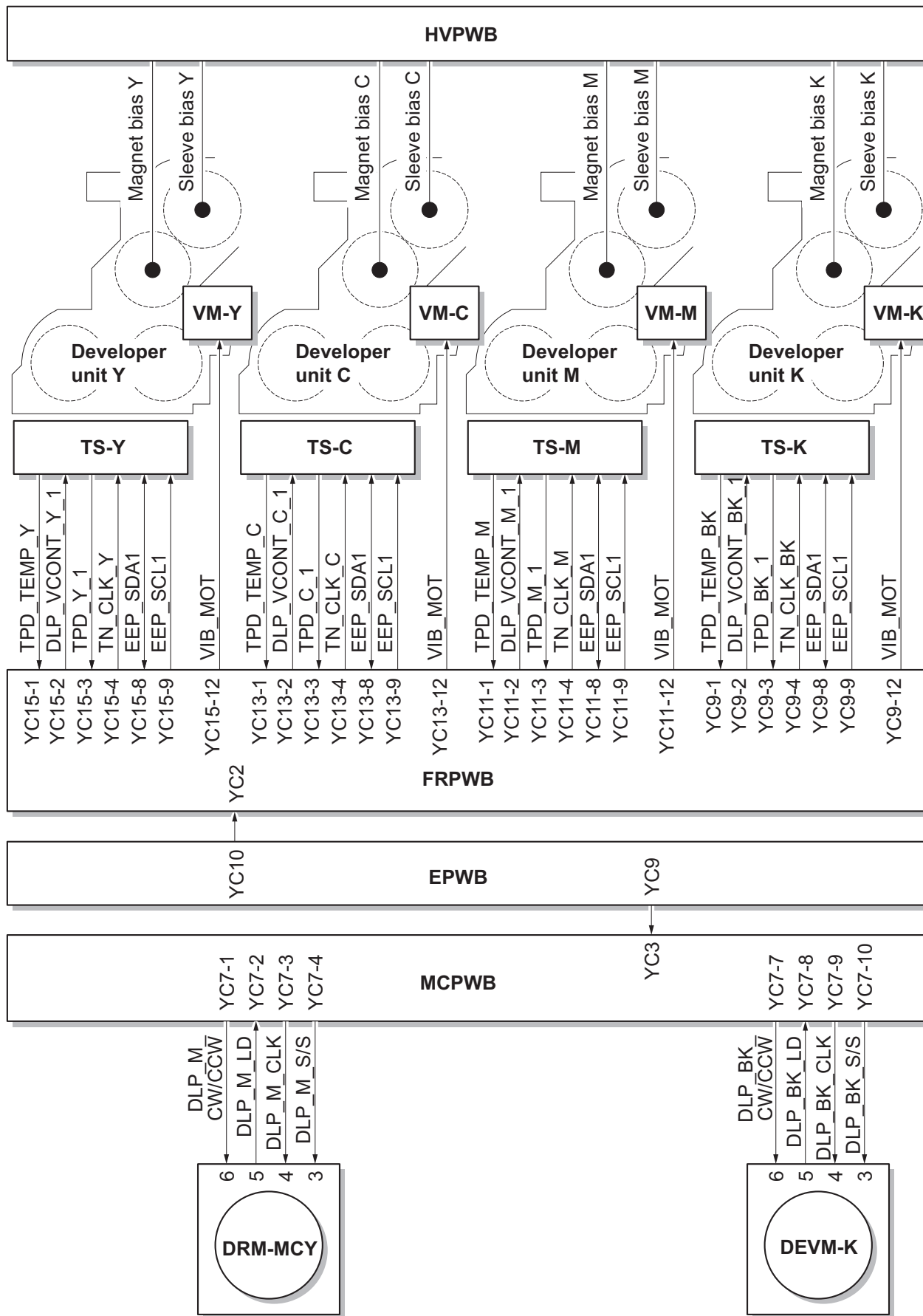


Figure 2-1-10 Developer section block diagram

## 2-1-4 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.

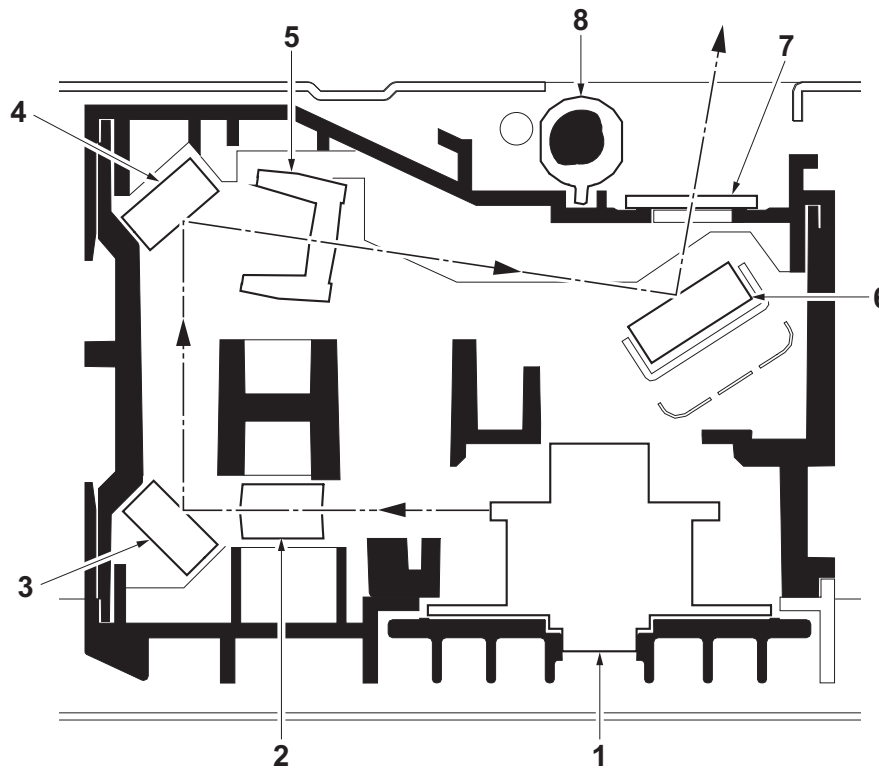


Figure 2-1-11 Laser scanner section

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

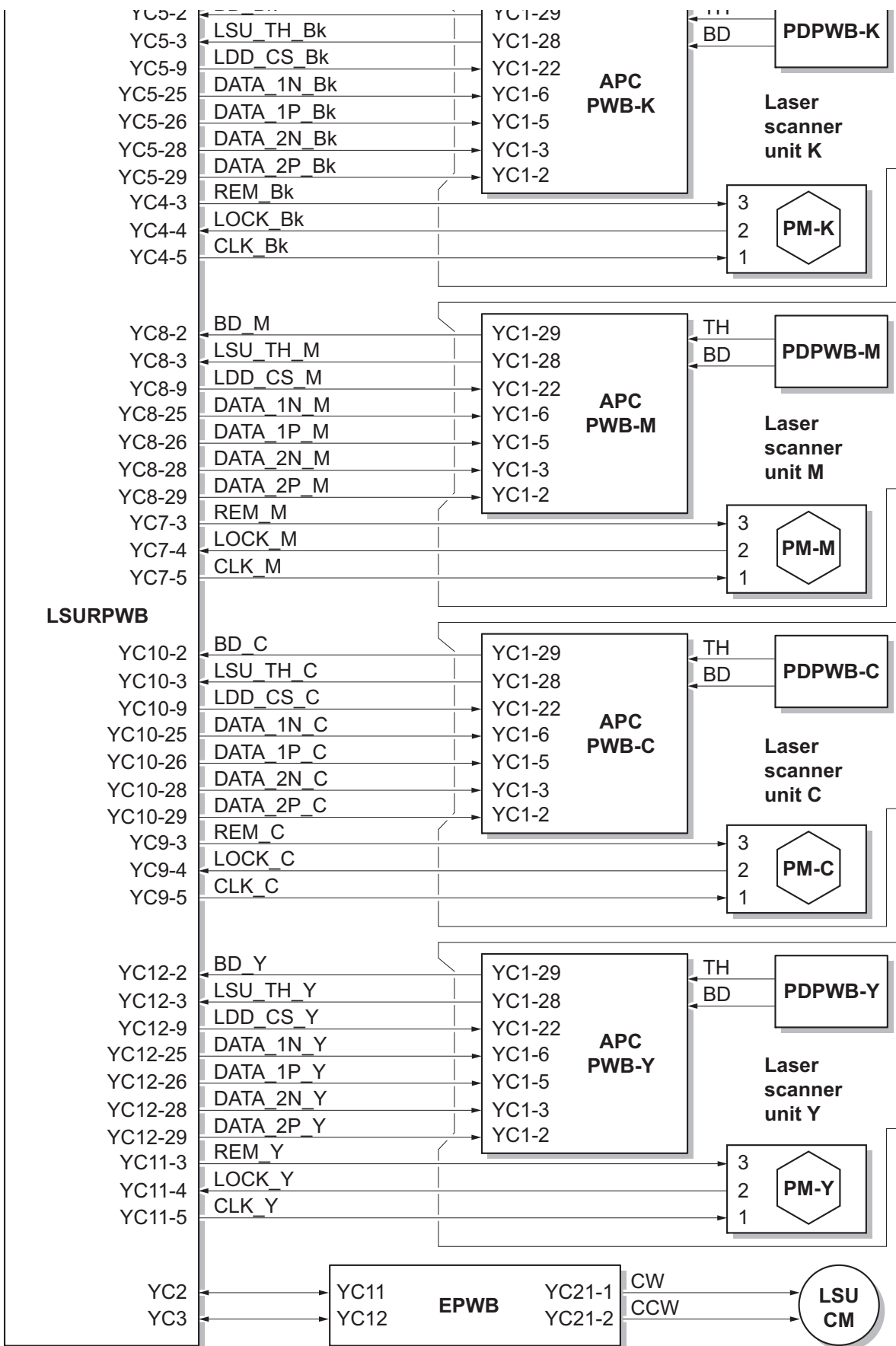


Figure 2-1-12 Laser scanner unit block diagram

## 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.

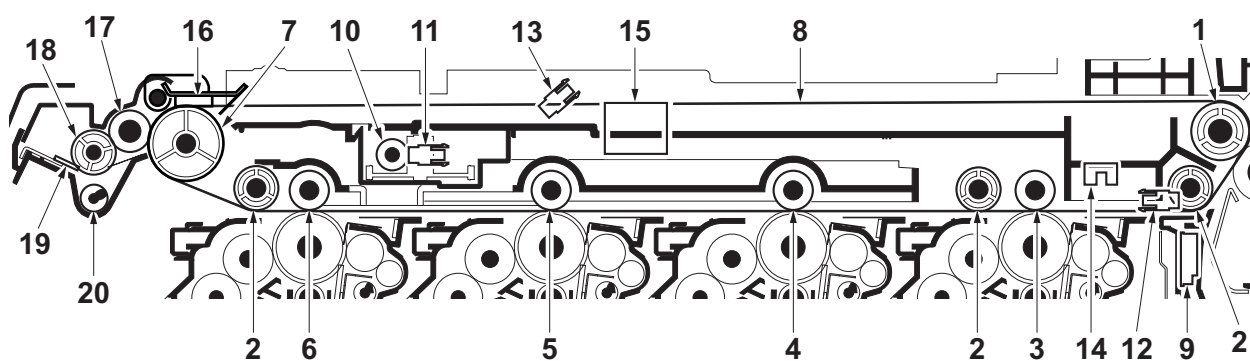


Figure 2-1-13 Intermediate transfer unit section

- |                               |                                  |
|-------------------------------|----------------------------------|
| 1. Drive roller               | 11. Color release sensor (CRS)   |
| 2. Backup roller              | 12. Transfer belt sensor (TRBLS) |
| 3. Primary transfer roller K  | 13. Transfer skew sensor (TRSS)  |
| 4. Primary transfer roller M  | 14. Transfer edge sensor (TRES)  |
| 5. Primary transfer roller C  | 15. Transfer skew motor (TRSM)   |
| 6. Primary transfer roller Y  | 16. Cleaning pre brush           |
| 7. Tension roller             | 17. Cleaning fur brush           |
| 8. Transfer belt              | 18. Cleaning roller              |
| 9. ID sensor (IDS)            | 19. Cleaning blade               |
| 10. Color release motor (CRM) | 20. Cleaning screw               |

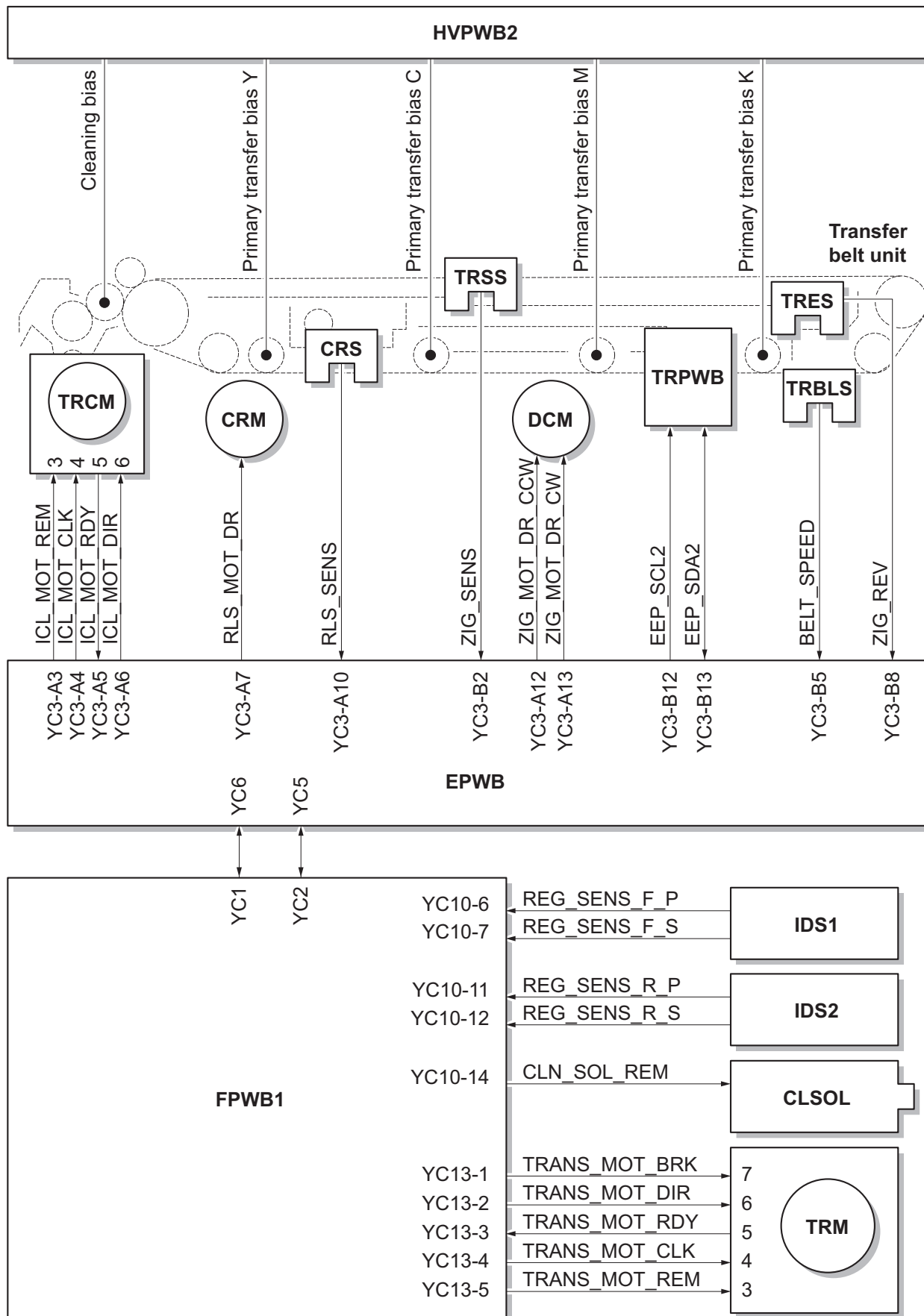


Figure 2-1-14 Intermediate transfer unit section block diagram

## (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 2 (HVPWB2). 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.

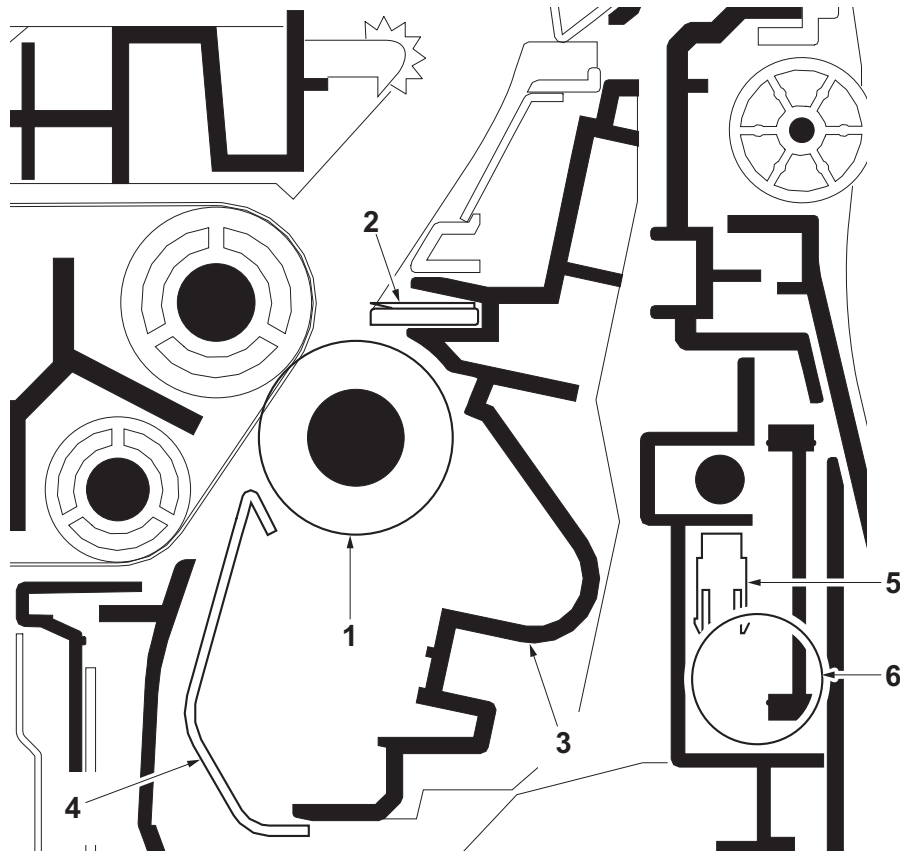


Figure 2-1-15 Secondary transfer roller section

1. Secondary transfer roller
2. Separation brush
3. Secondary transfer frame
4. Transfer guide
5. Transfer release sensor (TRRS)
6. Transfer release motor (TRRM)

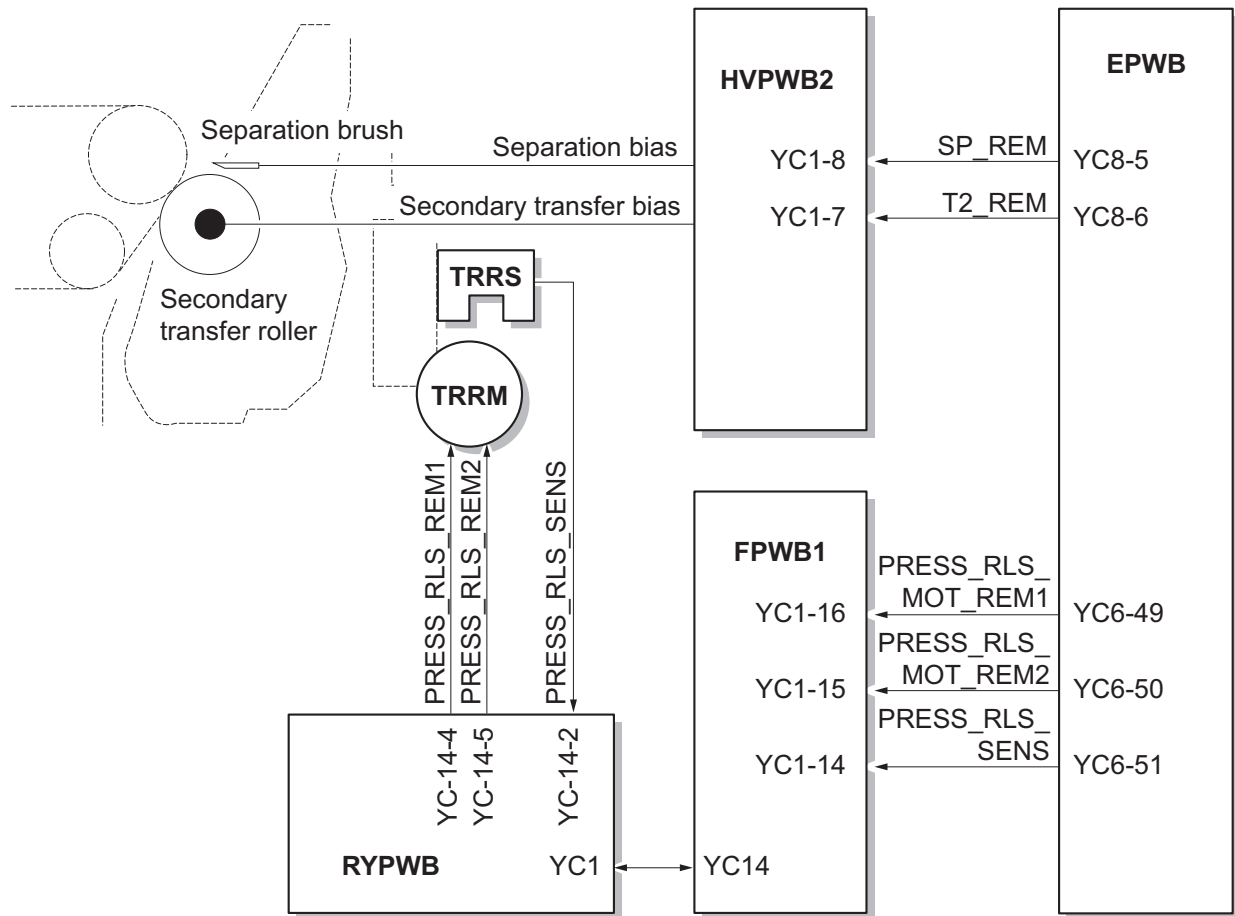


Figure 2-1-16 Secondary transfer roller section block diagram



## 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 (fuser belt) is heated by the fuser IH (FIH), 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 and press roller are detected by the fuser thermistor (FTH) and controlled by the engine PWB (EPWB).

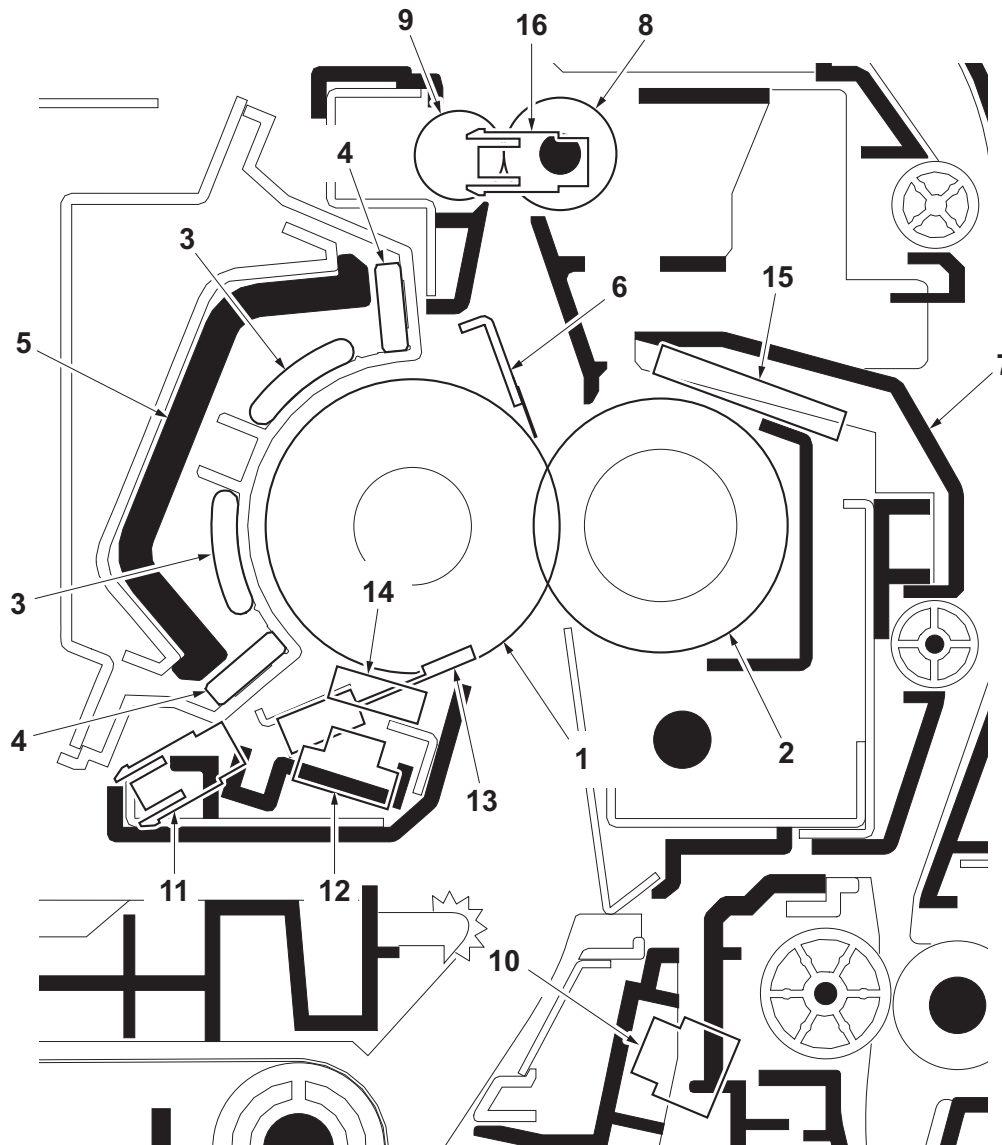


Figure 2-1-17 Fuser section

- |                             |                               |
|-----------------------------|-------------------------------|
| 1. Heat roller (Fuser belt) | 9. Fuser eject roller         |
| 2. Press roller             | 10. Loop sensor (LPS)         |
| 3. IH coils                 | 11. Fuser belt sensor (FUBLS) |
| 4. Side core                | 12. Fuser thermistor 1 (FTH1) |
| 5. Arch core                | 13. Fuser thermistor 2 (FTH2) |
| 6. Separators               | 14. Fuser thermistor 3 (FTH3) |
| 7. Right fuser cover        | 15. Fuser thermistor 4 (FTH4) |
| 8. Fuser eject pulley       | 16. Fuser eject sensor (FUES) |

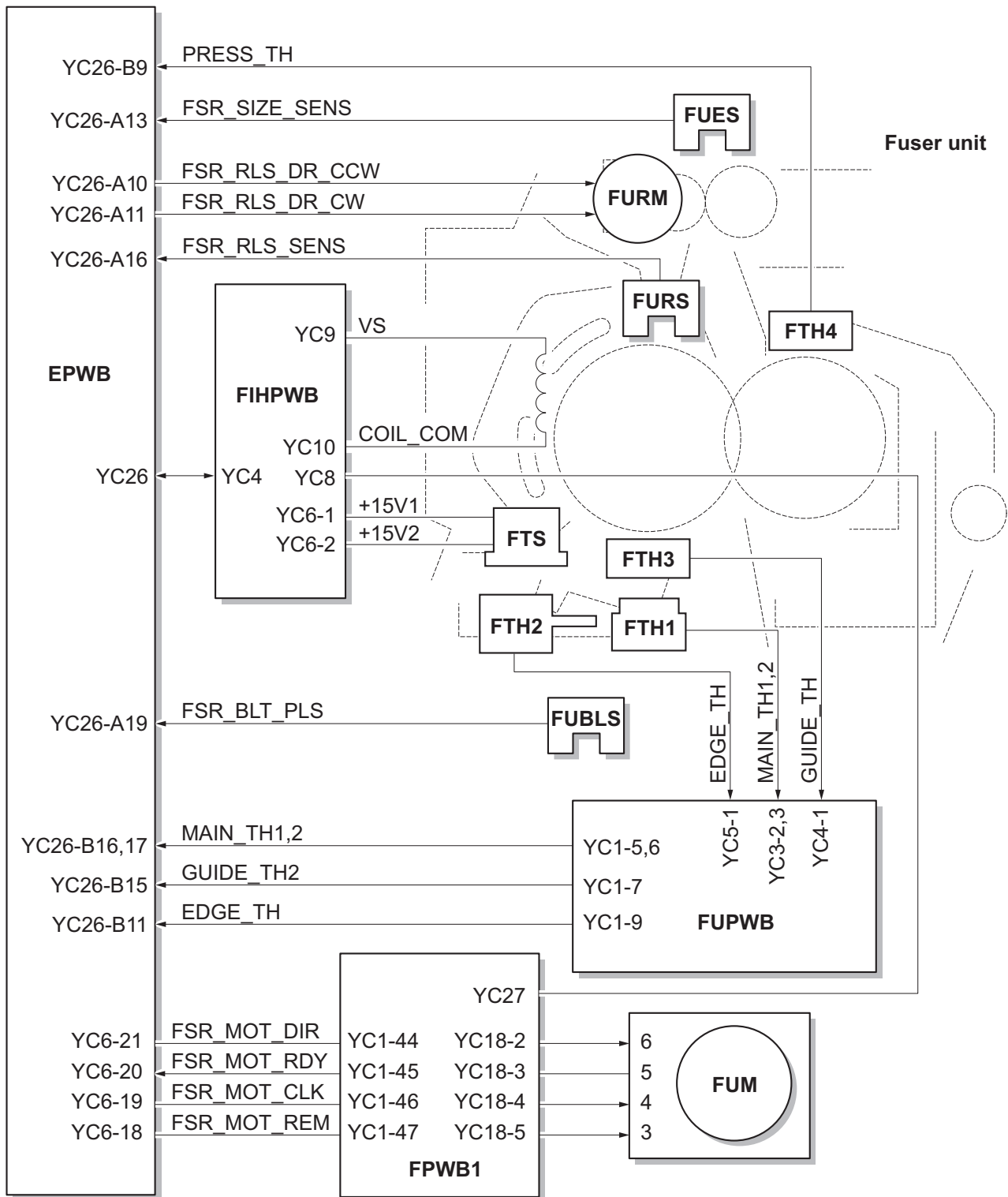


Figure 2-1-18 Fuser section block diagram

## 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, duplex conveying section or job separator.

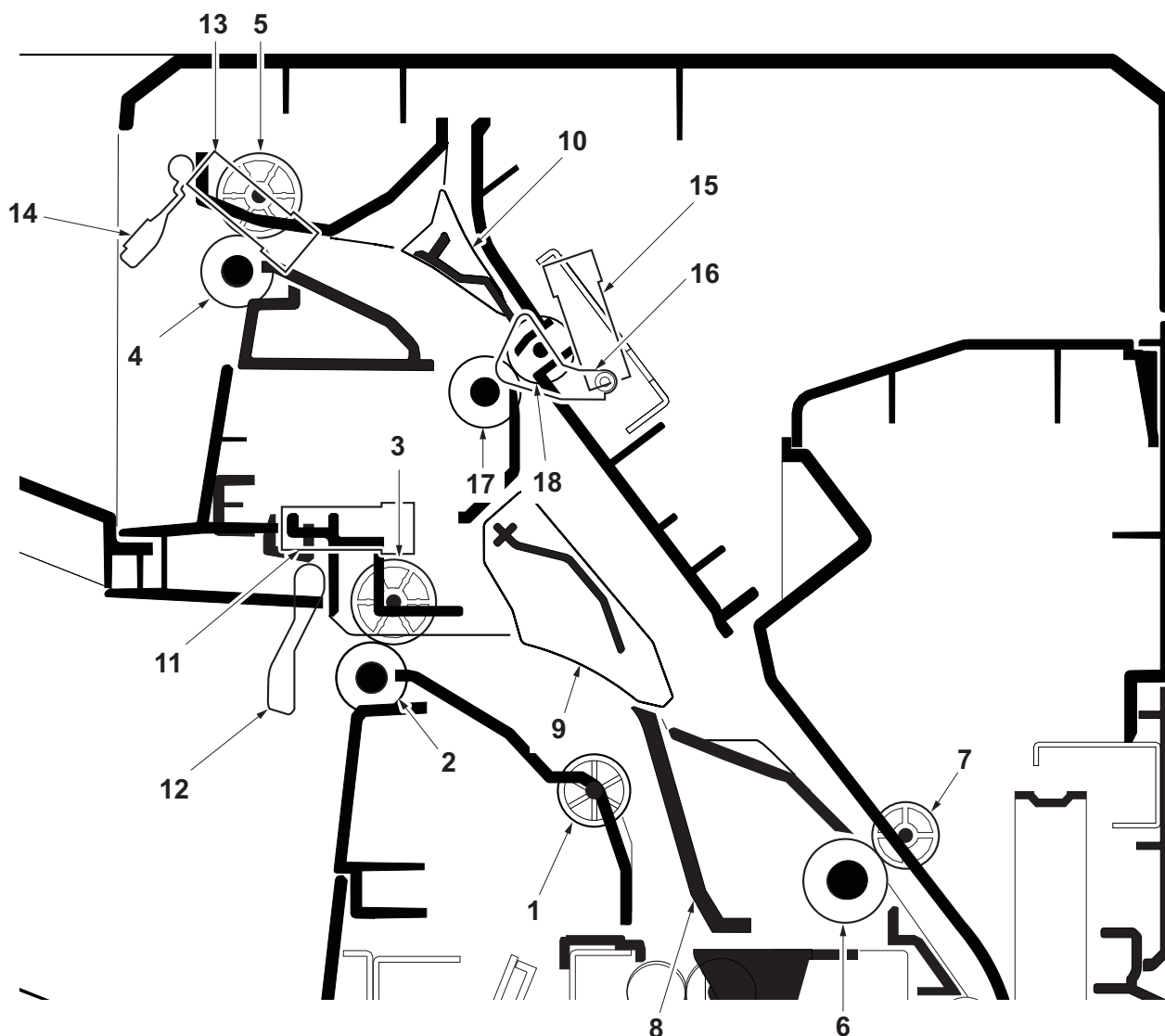


Figure 2-1-19 Eject/Feed shift section

- |                        |                                    |
|------------------------|------------------------------------|
| 1. Middle pulley       | 10. Upper change guide             |
| 2. Eject roller        | 11. Eject full sensor 1 (EFS1)     |
| 3. Eject pulley        | 12. Actuator (eject full sensor 1) |
| 4. Eject roller B      | 13. Eject full sensor 2 (EFS2)     |
| 5. Eject pulley B      | 14. Actuator (eject full sensor 2) |
| 6. Upper duplex roller | 15. Switchback sensor (SBS)        |
| 7. Duplex pulley       | 16. Actuator (switchback sensor)   |
| 8. Lower duplex roller | 17. Eject roller C                 |
| 9. Lower change guide  | 18. Eject pulley C                 |

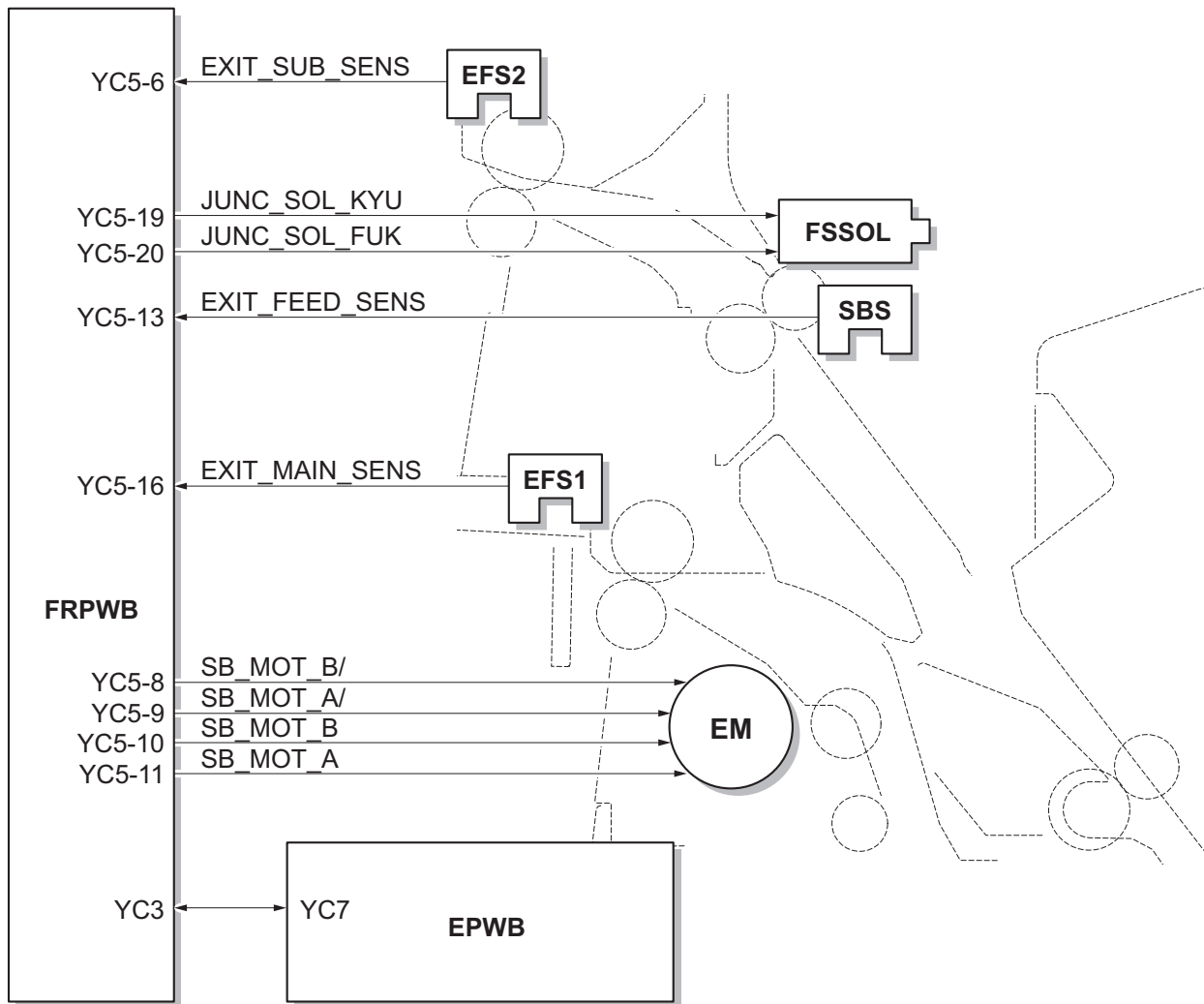


Figure 2-1-20 Eject/Feed shift section block diagram

## 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.

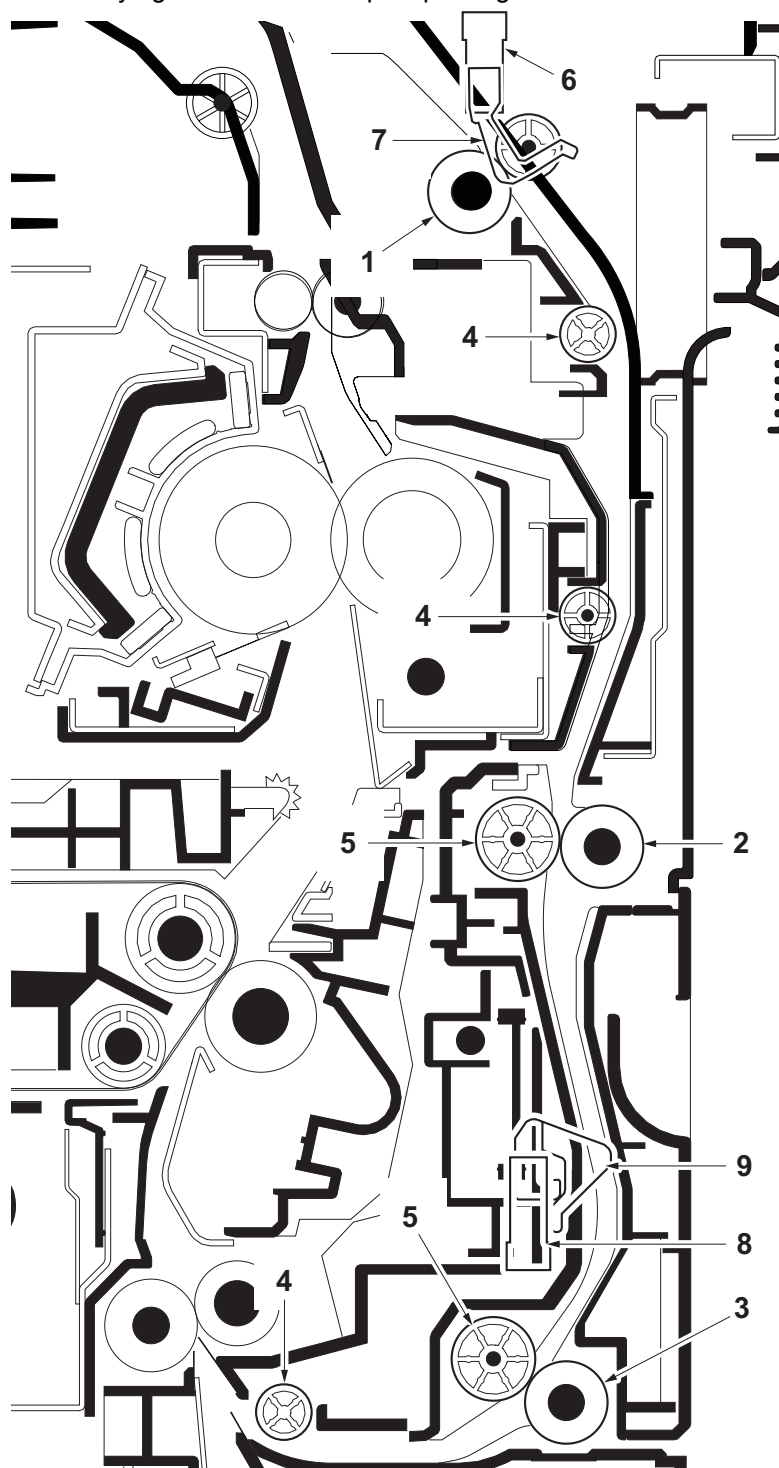


Figure 2-1-21 Duplex conveying section

- |                         |                               |
|-------------------------|-------------------------------|
| 1. Upper duplex roller  | 6. Duplex sensor 1 (DUS1)     |
| 2. Middle duplex roller | 7. Actuator (duplex sensor 1) |
| 3. Lower duplex roller  | 8. Duplex sensor 2 (DUS2)     |
| 4. Duplex pulleys A     | 9. Actuator (duplex sensor 2) |
| 5. Duplex pulleys B     |                               |

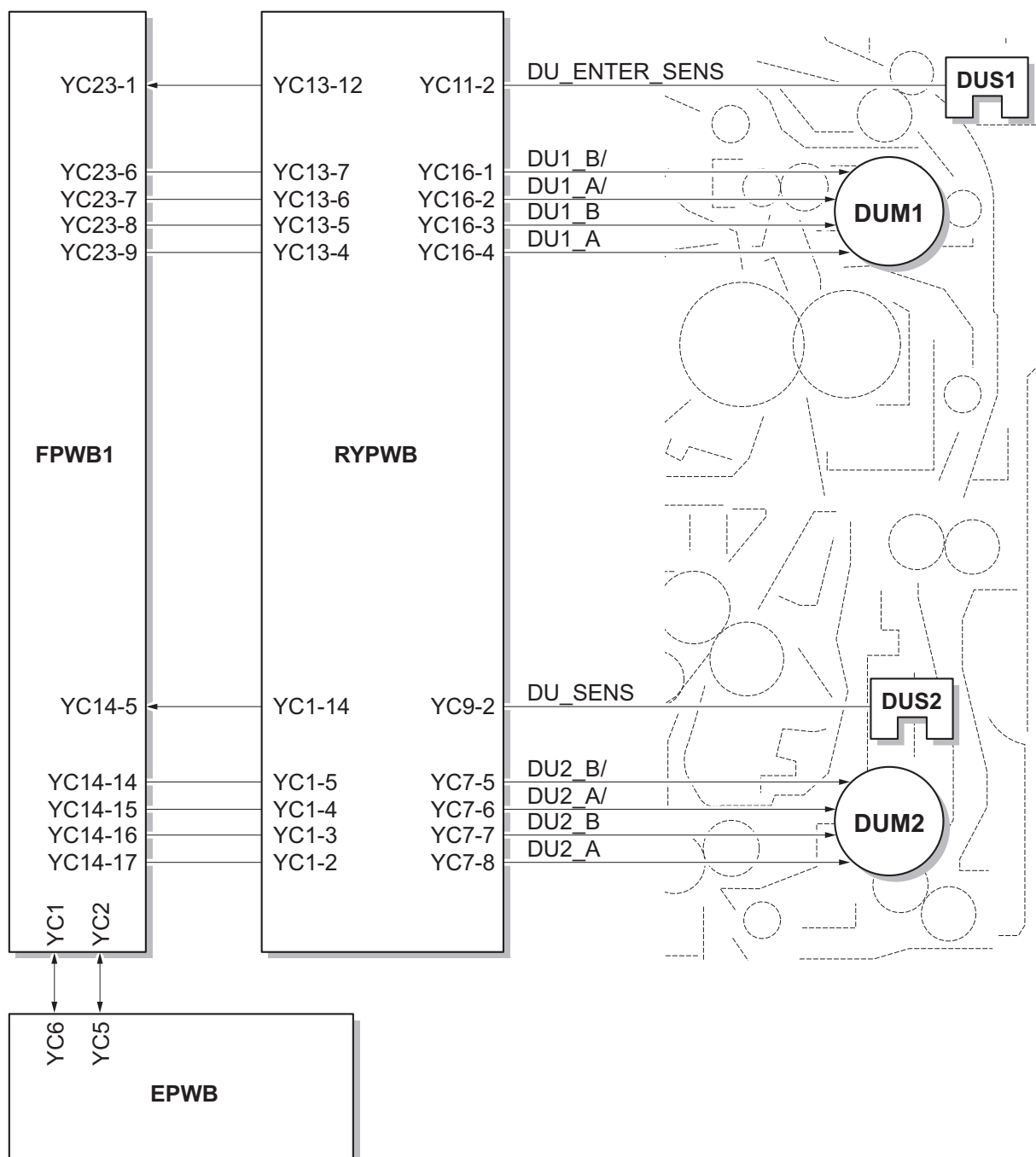
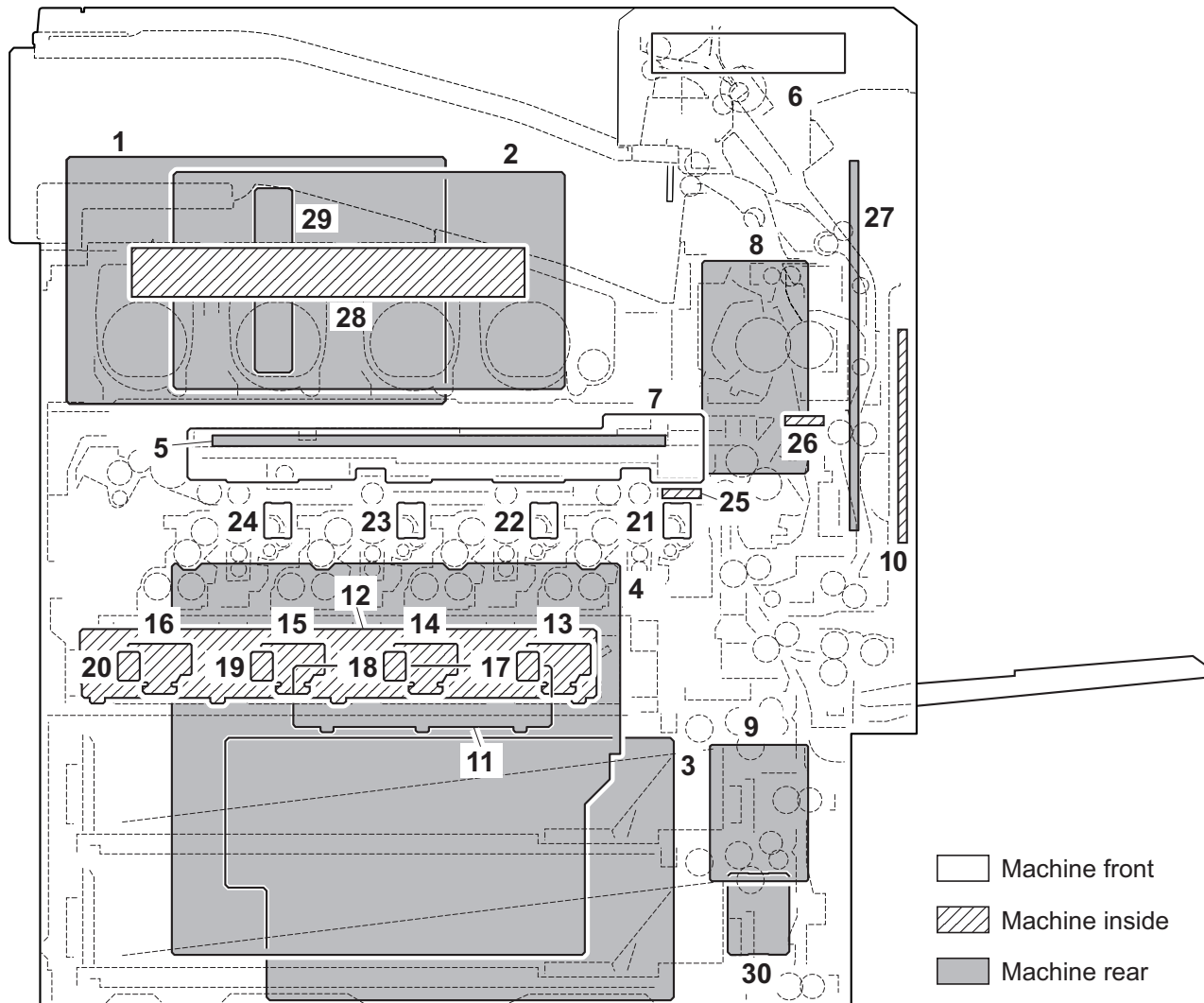


Figure 2-1-22 Duplex conveying section block diagram

## 2-2-1 Electrical parts layout

### (1) PWBs



**Figure 2-2-1 PWBs**

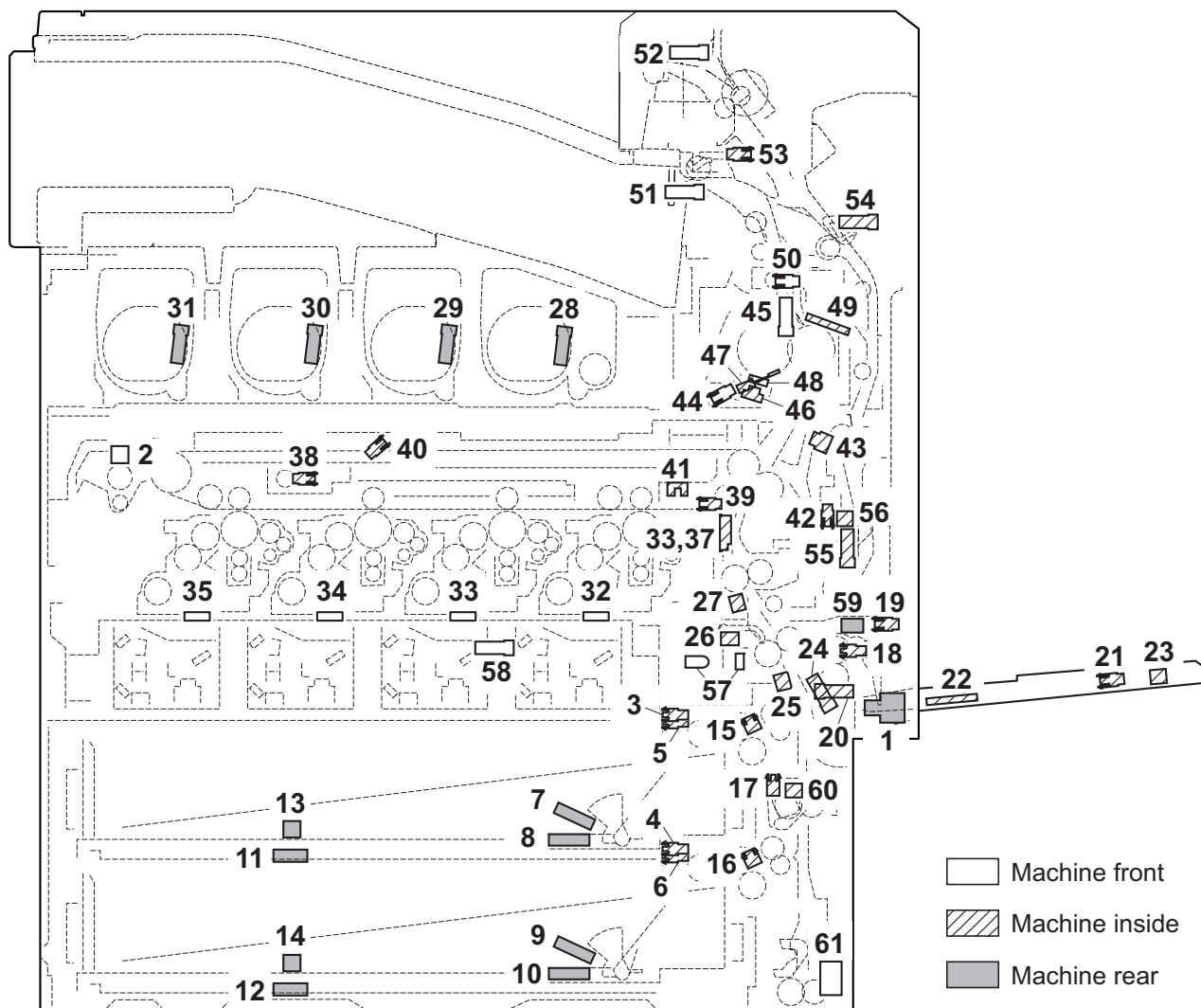
- |                                      |   |
|--------------------------------------|---|
| 1. Main PWB (MPWB) .....             | Controls the software such as the print data processing and provides the interface with computers.                                      |
| 2. Engine PWB (EPWB).....            | 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 12 V DC for output.                     |
| 4. High voltage PWB 1 (HVPWB1) ..... | Generates main charging and developer bias.   |
| 5. High voltage PWB 2 (HVPWB2) ..... | Generates transfer bias and separation bias.  |
| 6. Operation PWB (OPWB).....         | Controls keys and LCD indication.   |
| 7. Front PWB (FRPWB).....            | Consists of wiring relay circuit between engine PWB and drum units, developer units, eject unit.  |
| 8. Feed PWB 1 (FPWB1).....           | Consists of wiring relay circuit between engine PWB and fuser drive unit, relay PWB.  |

- 9. Feed PWB 2 (FPWB2)..... Consists of wiring relay circuit between engine PWB and paper conveying section, drive section.
- 10. Relay PWB (RPWB) ..... Consists of wiring relay circuit between feed PWB 1 and paper conveying unit.
- 11. Motor control PWB (MCPWB)..... Consists of wiring relay circuit between engine PWB and drum motors, developer motors.
- 12. LSU relay PWB (LSURPWB)..... Consists of wiring relay circuit between engine PWB and laser scanner unit.
- 13. APC PWB K (APCPWB-K) ..... Generates and controls the laser beam (black).
- 14. APC PWB M (APCPWB-M) ..... Generates and controls the laser beam (magenta).
- 15. APC PWB C (APCPWB-C)..... Generates and controls the laser beam (cyan).
- 16. APC PWB Y (APCPWB-Y) ..... Generates and controls the laser beam (yellow).
- 17. PD PWB K (PDPWB-K) ..... Controls horizontal synchronizing timing of laser beam (black).
- 18. PD PWB M (PDPWB-M) ..... Controls horizontal synchronizing timing of laser beam (magenta).
- 19. PD PWB C (PDPWB-C)..... Controls horizontal synchronizing timing of laser beam (cyan).
- 20. PD PWB Y (PDPWB-Y) ..... Controls horizontal synchronizing timing of laser beam (yellow).
- 21. Drum PWB K (DRPWB-K) ..... Drum individual information in EEPROM storage.
- 22. Drum PWB M (DRPWB-M) ..... Drum individual information in EEPROM storage.
- 23. Drum PWB C (DRPWB-C)..... Drum individual information in EEPROM storage.
- 24. Drum PWB Y (DRPWB-Y) ..... Drum individual information in EEPROM storage.
- 25. Transfer PWB (TRPWB) ..... Transfer belt individual information in EEPROM storage.
- 26. Fuser PWB (FUPWB) ..... Relays wirings from electrical components on the fuser unit.
- 27. Fuser IH PWB (FIHPWB)..... Controls the fuser IH.
- 28. RFID PWB (RFPWB) ..... Reads the container information.
- 29. Interface PWB (IFPWB) ..... Consists of wiring relay circuits between main PWB and Fax control PWB.
- 30. Current PWB (CRPWB) ..... Changes and outputs the AC current input to an analog signal.



**List of correspondences of PWB names**

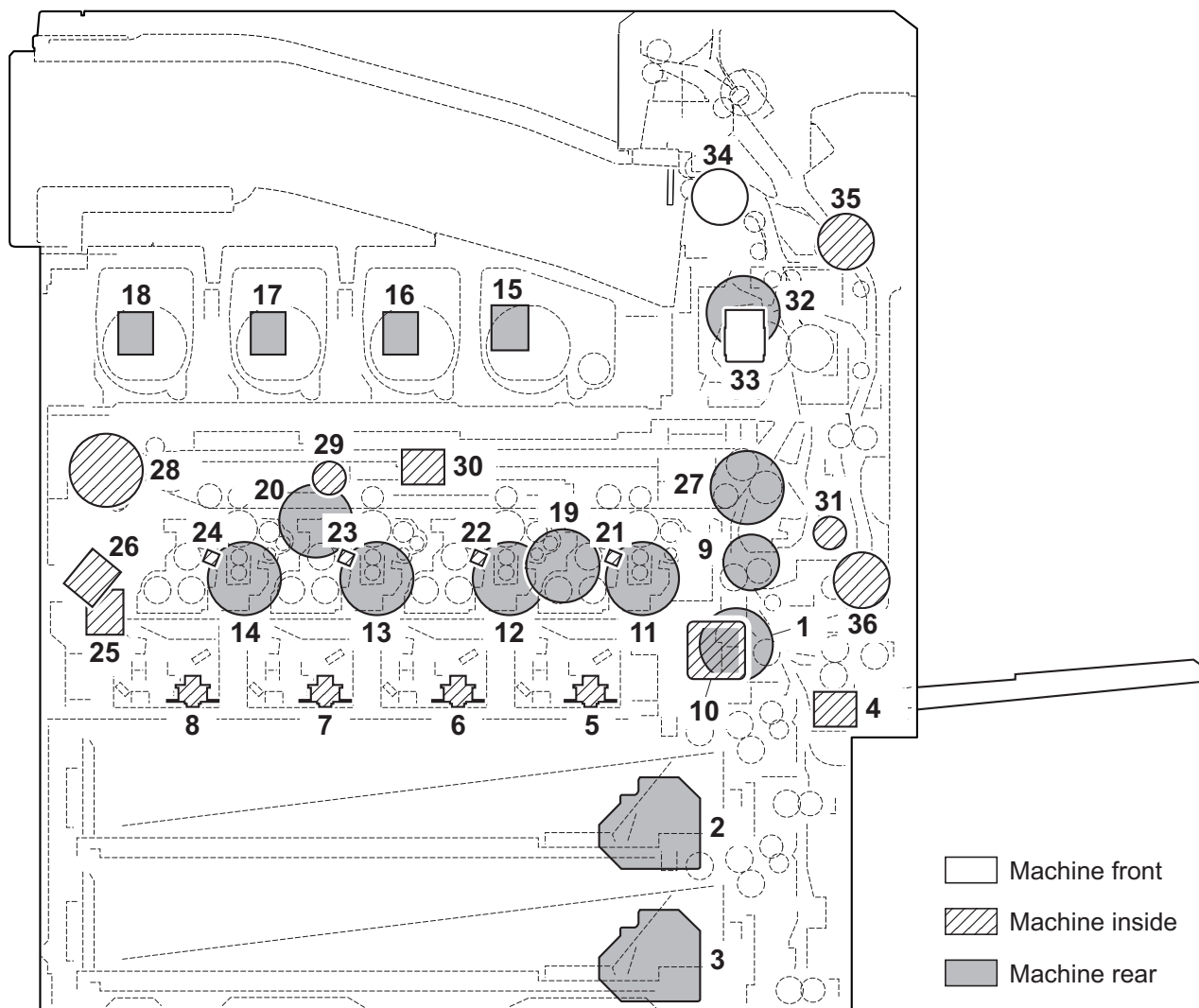
<b>No.</b>	<b>Name used in service manual</b>	<b>Name used in parts list</b>
1	Main PWB (MPWB)	PARTS PWB MAIN ASSY SP
2	Engine PWB (EPWB)	PARTS PWB ENGINE ASSY SP
3	Power source PWB (PSPWB)	PARTS UNIT LOW VOLTAGE SP
4	High voltage PWB 1 (HVPWB1)	PARTS UNIT HIGH VOLTAGE MAIN SP
5	High voltage PWB 2 (HVPWB2)	PARTS UNIT HIGH VOLTAGE TRANSFER SP
6	Operation PWB (OPWB)	PARTS PWB PANEL ASSY SP
7	Front PWB (FRPWB)	PARTS PWB FRONT CLR ASSY SP
8	Feed PWB 1 (FPWB1)	PARTS PWB FEED 1 ASSY SP
9	Feed PWB 2 (FPWB2)	PARTS PWB FEED 2 ASSY SP
10	Relay PWB (RPWB)	PARTS PWB JUNCTION ASSY SP
11	Motor control PWB (MCPWB)	PARTS PWB MOTOR CONTROL ASSY SP
12	LSU relay PWB (LSURPWB)	PARTS PWB LSU JUNC CLR ASSY SP
13	APC PWB K (APCPWB-K)	-
14	APC PWB M (APCPWB-M)	-
15	APC PWB C (APCPWB-C)	-
16	APC PWB Y (APCPWB-Y)	-
17	PD PWB K (PDPWB-K)	-
18	PD PWB M (PDPWB-M)	-
19	PD PWB C (PDPWB-C)	-
20	PD PWB Y (PDPWB-Y)	-
21	Drum PWB K (DRPWB-K)	-
22	Drum PWB M (DRPWB-M)	-
23	Drum PWB C (DRPWB-C)	-
24	Drum PWB Y (DRPWB-Y)	-
25	Transfer PWB (TRPWB)	-
26	Fuser PWB (FUPWB)	-
27	Fuser IH PWB (FIHPWB)	-
28	RFID PWB (RFPWB)	PARTS PWB RFID ASSY SP
29	Interface PWB (IFPWB)	PARTS PWB KUIO ASSY SP
30	Current PWB (CRPWB)	PARTS PWB CURRENT AVE ASSY 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. Front cover switch (FRCSW) ..... Detects the opening and closing of the front cover.
3. Paper sensor 1 (PS1) ..... Detects the presence of paper (cassette 1).
4. Paper sensor 2 (PS2) ..... Detects the presence of paper (cassette 2).
5. Lift sensor 1 (LS1)..... Detects activation of upper limit of the bottom plate (cassette 1).
6. Lift sensor 2 (LS2)..... Detects activation of upper limit of the bottom plate (cassette 2).
7. Paper gauge sensor 1 (U) (PGS1(U))... Detects the paper gauge (cassette 1).
8. Paper gauge sensor 1 (L) (PGS1(L)).... Detects the paper gauge (cassette 1).
9. Paper gauge sensor 2 (U) (PGS2(U))... Detects the paper gauge (cassette 2).
10. Paper gauge sensor 2 (L) (PGS2(L)).... Detects the paper gauge (cassette 2).
11. Paper length switch 1 (PLSW1) ..... Detects the length of paper (cassette 1).
12. Paper length switch 2 (PLSW2) ..... Detects the length of paper (cassette 2).
13. Paper width switch 1 (PWSW1) ..... Detects the width of paper (cassette 1).
14. Paper width switch 2 (PWSW2) ..... Detects the width of paper (cassette 2).
15. Feed sensor 1 (FS1) ..... Detects a paper misfeed in the paper feed section (cassette 1).
16. Feed sensor 2 (FS2) ..... Detects a paper misfeed in the paper feed section (cassette 2).
17. Paper conveying sensor (PCS)..... Detects a paper misfeed in the vertical conveying section.

- 18. MP paper sensor (MPPS) ..... Detects the presence of paper (MP tray).
- 19. MP lift sensor 1 (MPLS1) ..... Detects activation of upper limit of the MP plate.
- 20. MP lift sensor 2 (MPLS2) ..... Detects activation of lower limit of the MP plate.
- 21. MP paper length switch (MPPLSW)..... Detects the length of paper (MP tray).
- 22. MP paper width switch (MPPWSW)..... Detects the width of paper (MP tray).
- 23. MP tray switch (MPTSW)..... Detects the MP tray extension is extend.
- 24. MP feed sensor (MPFS) ..... Detects a paper misfeed in the MP paper feed section.
- 25. Middle sensor (MS)..... Detects a paper misfeed in the paper conveying section.
- 26. Regist deflection sensor (RDS)..... Detects the deflection in the paper.
- 27. Registration sensor (RS)..... Controls the secondary paper feed start timing.
- 28. Screw sensor K (SRS-K) ..... Controls the toner replenishing for the toner container K.
- 29. Screw sensor M (SRS-M) ..... Controls the toner replenishing for the toner container M.
- 30. Screw sensor C (SRS-C) ..... Controls the toner replenishing for the toner container C.
- 31. Screw sensor Y (SRS-Y) ..... Controls the toner replenishing for the toner container Y.
- 32. Toner sensor K (TS-K) ..... Detects the toner density in the developer unit K.
- 33. Toner sensor M (TS-M) ..... Detects the toner density in the developer unit M.
- 34. Toner sensor C (TS-C)..... Detects the toner density in the developer unit C.
- 35. Toner sensor Y (TS-Y) ..... Detects the toner density in the developer unit Y.
- 36. ID sensor 1 (IDS1) ..... Measures image density for color calibration.
- 37. ID sensor 2 (IDS2) ..... Measures image density for color calibration.
- 38. Color release sensor (CRS)..... Detects separation of primary transfer rollers M, C, and Y.
- 39. Transfer belt sensor (TRBLS) ..... Detects positioning of transfer belt rotation.
- 40. Transfer skew sensor (TRSS)..... Detects skew of transfer belt center position.
- 41. Transfer edge sensor (TRES)..... Detects edge position of the transfer belt.
- 42. Transfer release sensor (TRRS) ..... Detects separation of secondary transfer roller.
- 43. Loop sensor (LPS)..... Detects a paper misfeed. Controls the fuser motor by detecting deflection in the paper.
- 44. Fuser belt sensor (FUBLS) ..... Detects positioning of fuser belt rotation.
- 45. Fuser release sensor (FURS) ..... Detects fuser pressure release setting (envelope mode).
- 46. Fuser thermistor 1 (FTH1) ..... Detects the heat roller (fuser belt) temperature.
- 47. Fuser thermistor 2 (FTH2) ..... Detects the heat roller (fuser belt) temperature.
- 48. Fuser thermistor 3 (FTH3) ..... Detects the heat roller (fuser belt) temperature.
- 49. Fuser thermistor 4 (FTH4) ..... Detects the press roller temperature.
- 50. Fuser eject sensor (FUES) ..... Detects a paper misfeed in the fuser section.
- 51. Eject full sensor 1 (EFS1) ..... Detects a paper misfeed in the eject section. Detects when the main tray is full.
- 52. Eject full sensor 2 (EFS2) ..... Detects a paper misfeed in the eject section. Detects when the sub tray is full.
- 53. Switchback sensor (SBS) ..... Detects a paper misfeed in the eject and switchback sections.
- 54. Duplex sensor 1 (DUS1)..... Detects a paper misfeed in the duplex section.
- 55. Duplex sensor 2 (DUS2)..... Detects a paper misfeed in the duplex section.
- 56. Duplex cover switch (DUCSW) ..... Detects the opening and closing of the duplex cover.
- 57. Waste toner sensor 1 (WTS1)..... Detects when the waste toner box is full.
- 58. Waste toner sensor 2 (WTS2)..... Detects when the waste toner box is near end.
- 59. Paper conveying unit switch  
(PCUSW) ..... Detects the opening and closing of the paper conveying unit.
- 60. Paper conveying cover switch  
(DUCSW) ..... Detects the opening and closing of the paper conveying cover.
- 61. Outer temperature sensor  
(OTEMS)..... Detects the outside temperature and humidity.

**(3) Motors**

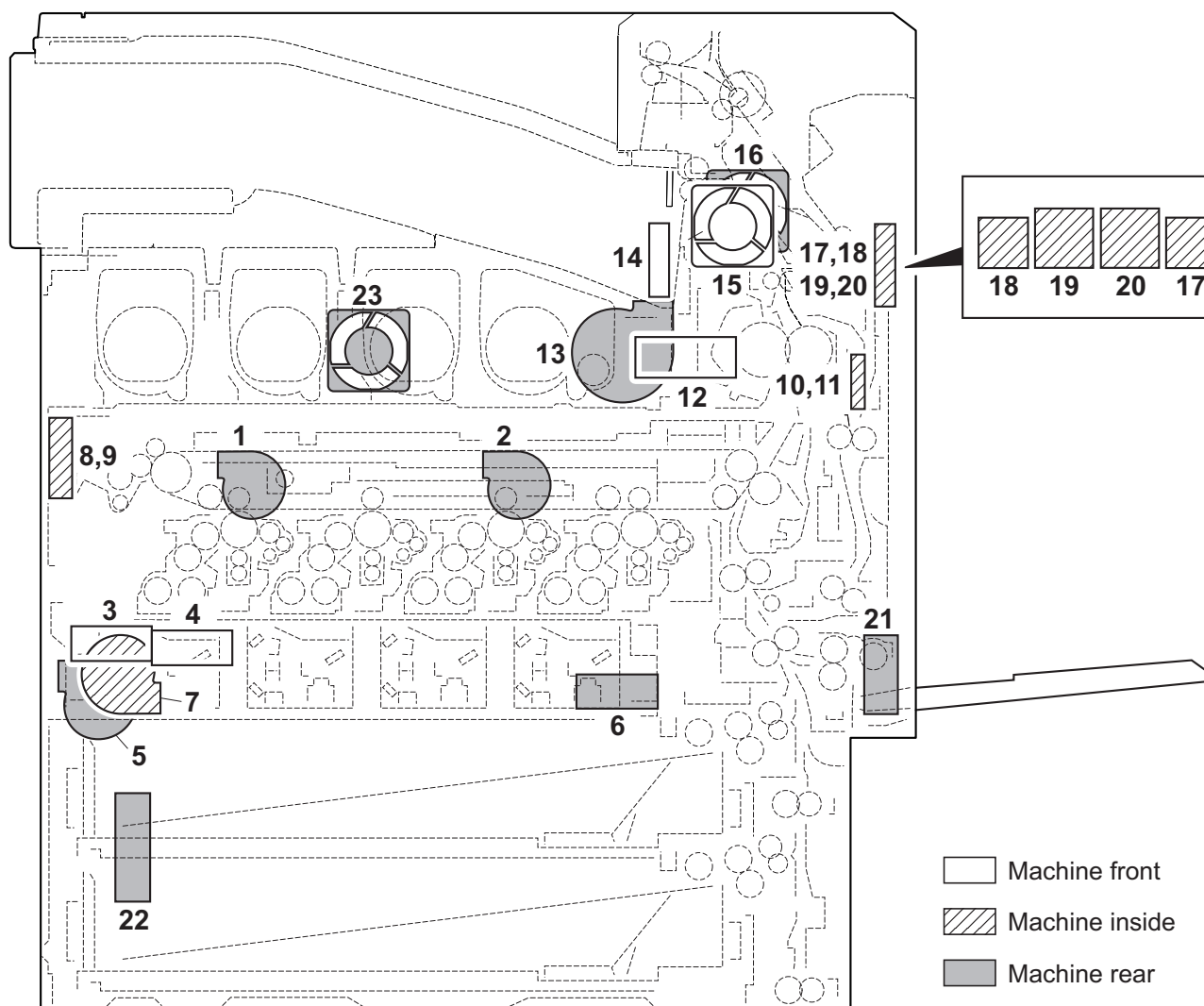


**Figure 2-2-3 Motors**

- 1. Paper feed motor (PFM) ..... Drives the paper feed section.
- 2. Lift motor 1 (LM1)..... Operates the bottom plate (cassette 1).
- 3. Lift motor 2 (LM2)..... Operates the bottom plate (cassette 2).
- 4. MP lift motor (MPLM) ..... Operates the MP plate.
- 5. Polygon motor K (PM-K) ..... Drives the polygon mirror K.
- 6. Polygon motor M (PM-M)..... Drives the polygon mirror M.
- 7. Polygon motor C (PM-C)..... Drives the polygon mirror C.
- 8. Polygon motor Y (PM-Y) ..... Drives the polygon mirror Y.
- 9. Registration motor (RM)..... Drives the registration section.
- 10. Middle motor (MM)..... Drives the paper conveying section.
- 11. Drum motor K (DRM-K) ..... Drives the drum unit K.
- 12. Drum motor M (DRM-M) ..... Drives the drum unit M.
- 13. Drum motor C (DRM-C) ..... Drives the drum unit C.
- 14. Drum motor Y (DRM-Y) ..... Drives the drum unit Y.
- 15. Toner motor K (TM-K) ..... Replenishes toner to the developer unit K.
- 16. Toner motor M (TM-M) ..... Replenishes toner to the developer unit M.
- 17. Toner motor C (TM-C)..... Replenishes toner to the developer unit C.

18. Toner motor Y (TM-Y) ..... Replenishes toner to the developer unit Y.
19. Developer motor K (DEVM-K)..... Drives the developer unit K.
20. Developer motor MCY (DEVM-MCY) ... Drives the developer units M, C and Y.
21. Vibration motor K (VM-K)..... Toner lump in the developer unit K vibrates.
22. Vibration motor M (VM-M)..... Toner lump in the developer unit M vibrates.
23. Vibration motor C (VM-C) ..... Toner lump in the developer unit C vibrates.
24. Vibration motor Y (VM-Y)..... Toner lump in the developer unit Y vibrates.
25. LSU cleaning motor (LSUCM) ..... Drives LSU dust shield glass cleaning system.
26. Waste toner motor (WTM)..... Drives waste toner system.
27. Transfer motor (TRM) ..... Drives the transfer section.
28. Transfer cleaning motor (TRCM) ..... Drives the transfer cleaning section.
29. Color release motor (CRM)..... Drives separation of primary transfer rollers M, C, and Y.
30. Transfer skew motor (TRSM)..... Drives skew of transfer tension roller.
31. Transfer release motor (TRRM)..... Drives separation of secondary transfer roller.
32. Fuser motor (FUM) ..... Drives the fuser section.
33. Fuser release motor (FURM)..... Drives fuser pressure release.
34. Eject motor (EM)..... Drives the eject section.
35. Duplex motor 1 (DUM1) ..... Drives the duplex section.
36. Duplex motor 2 (DUM2)..... Drives the duplex section.

**(4) Fan motors**



**Figure 2-2-4 Motors**

- 1. Toner fan motor 1 (TFM1) ..... Cools the toner container section.
- 2. Toner fan motor 2 (TFM2) ..... Cools the toner container section.
- 3. Developer fan motor 1 (DEVFM1) ..... Cools the developer section.
- 4. Developer fan motor 2 (DEVFM2) ..... Cools the developer section.
- 5. Exhaust fan motor 1 (EXFM1) ..... Cools the machine inside.
- 6. Exhaust fan motor 2 (EXFM2) ..... Cools the machine inside.
- 7. LSU fan motor (LSUFM) ..... Cools the laser scanner unit section.
- 8. Belt fan motor 1 (BLFM1)..... Cools the transfer belt section.
- 9. Belt fan motor 2 (BLFM2)..... Cools the transfer belt section.
- 10. Fuser edge fan motor 1 (FUEFM1)..... Cools the fuser section (edge).
- 11. Fuser edge fan motor 2 (FUEFM2)..... Cools the fuser section (edge).
- 12. Fuser front fan motor (FUFFM)..... Cools the fuser section (front side).
- 13. Fuser rear fan motor (FURFM) ..... Cools the fuser section (rear side).
- 14. Eject front fan motor 1 (EFFM1) ..... Cools the eject section (front side).
- 15. Eject front fan motor 2 (EFFM2) ..... Cools the eject section (front side).
- 16. Eject rear fan motor (ERFM)..... Cools the eject section (rear side).

- 17. Fuser fan motor 1 (FUFM1) ..... Cools the fuser section.
- 18. Fuser fan motor 2 (FUFM2) ..... Cools the fuser section.
- 19. Eject fan motor 1 (EFM1)..... Cools the eject section.
- 20. Eject fan motor 2 (EFM2)..... Cools the eject section.
- 21. IH fan motor (IHFM) ..... Cools the fuser IH PWB.
- 22. Power source fan motor (PSFM) ..... Cools the power source section.
- 23. Controller fan motor (CONFM)..... Cools the controller section.

(5) Others

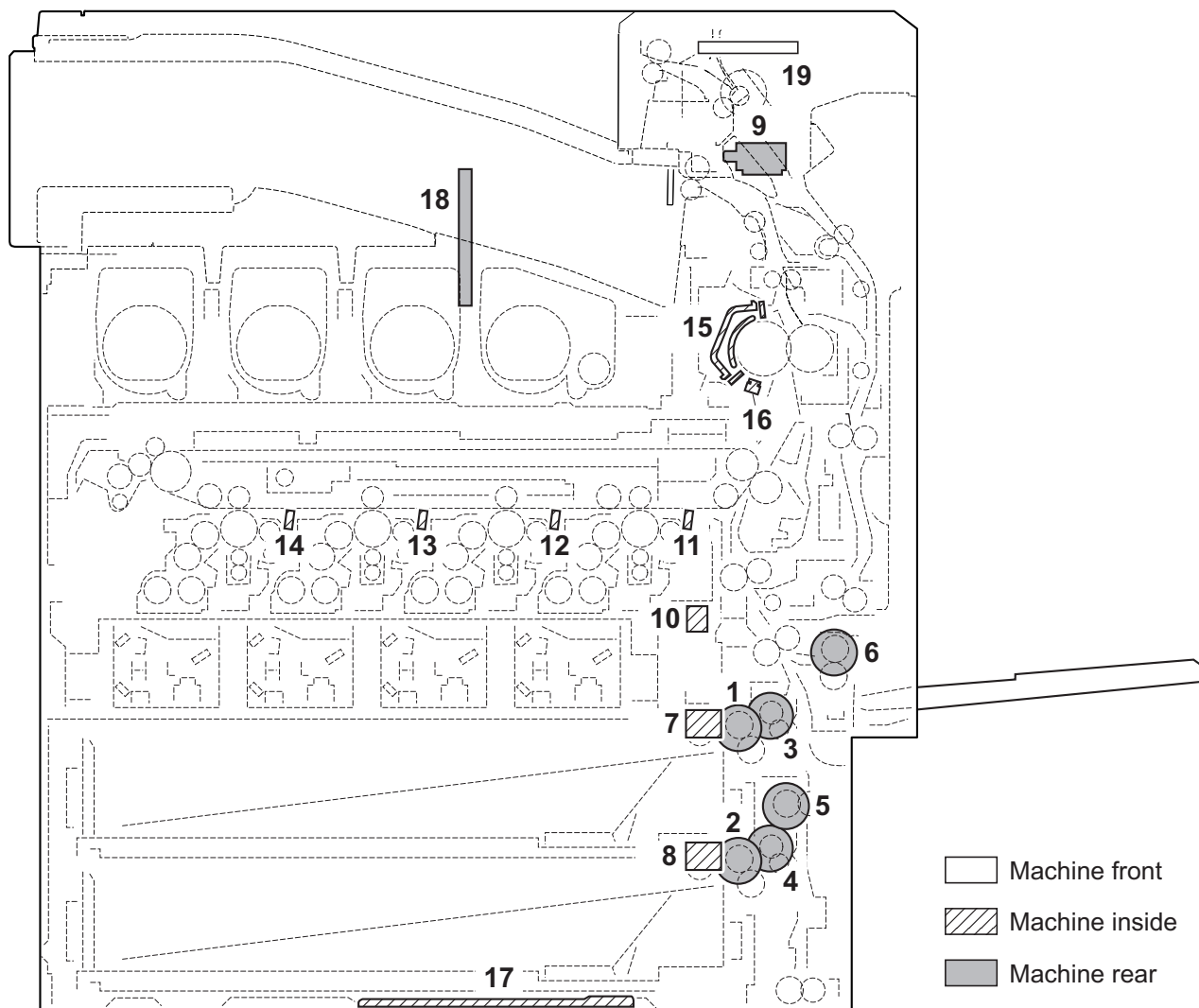


Figure 2-2-5 Others

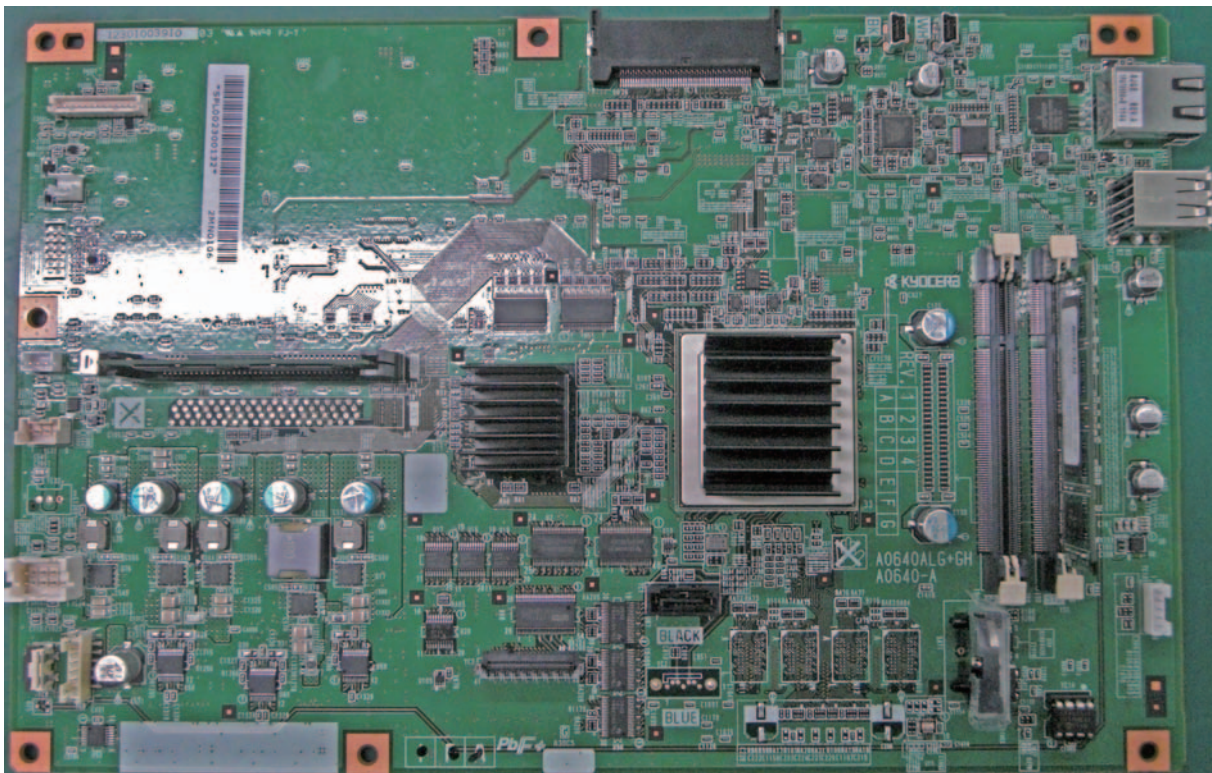
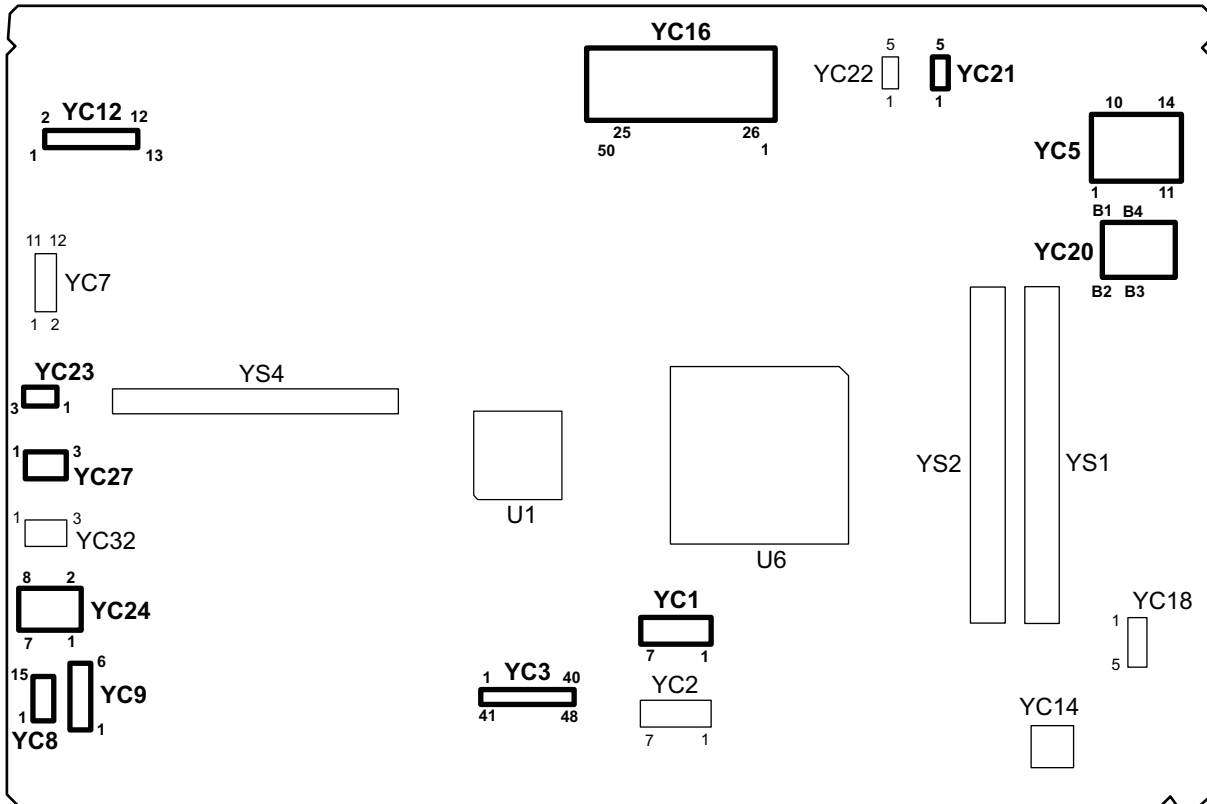
- 1. Paper feed clutch 1 (PFCL1) ..... Primary paper feed from cassette 1.
- 2. Paper feed clutch 1 (PFCL1) ..... Primary paper feed from cassette 2.
- 3. Assist clutch 1 (ASCL1) ..... Controls the drive of the assist roller.
- 4. Assist clutch 2 (ASCL2) ..... Controls the drive of the assist roller.
- 5. Paper conveying clutch (PCCL)..... Controls the drive of vertical conveying section.
- 6. MP paper feed clutch (MPPFCL) ..... Controls primary paper feed from the MP tray.
- 7. Pickup solenoid 1 (PUSOL1) ..... Controls the pickup roller (cassette 1).
- 8. Pickup solenoid 2 (PUSOL2) ..... Controls the pickup roller (cassette 2).
- 9. Feedshift solenoid (FSSOL)..... Controls the feedshift guide.
- 10. Cleaning solenoid (CLSOL) ..... Controls the ID sensor cleaning.
- 11. Cleaning lamp K (CL-K) ..... Eliminates the residual electrostatic charge on the drum (black).
- 12. Cleaning lamp M (CL-M)..... Eliminates the residual electrostatic charge on the drum (magenta).
- 13. Cleaning lamp C (CL-C)..... Eliminates the residual electrostatic charge on the drum (cyan).
- 14. Cleaning lamp Y (CL-Y) ..... Eliminates the residual electrostatic charge on the drum (yellow).
- 15. Fuser IH (FIH) ..... Heats the heat roller (fuser belt).
- 16. Fuser thermostat (FTS)..... Prevents overheating of the heat roller (fuser belt).



- 17. Cassette heater (CH) ..... Dehumidifies the cassette section (option).
- 18. Hard disk (HDD)..... Stores the image data and information of job accounting mode.
- 19. LCD back light (LCDBL)..... Back lighting of LCD.

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### 2-3-1 Main PWB



\* : Refer to the picture.

Figure 2-3-1 Main PWB silk-screen diagram and photograph

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b>	1	GND	-	-	Ground
Connected to hard disk	2	SATATXDP_C2H	O	-	HDD data signal
	3	SATATXDN_C2H	O	-	HDD data signal
	4	GND	-	-	Ground
	5	SATARXDN_H2C	I	-	HDD data signal
	6	SATARXDP_H2C	I	-	HDD data signal
	7	GND	-	-	Ground
<b>YC3</b>	1	GND	-	-	Ground
Connected to engine PWB	2	EGSCLK	O	0/3.3 V DC	Clock signal
	3	EGSI	I	0/3.3 V DC (pulse)	Serial communication data signal
	4	EGSDIR	O	0/3.3 V DC	Engine communication direction signal
	5	EGSBSY	O	0/3.3 V DC	Engine busy signal
	6	EGSO	I	0/3.3 V DC (pulse)	Serial communication data signal
	7	EGSIRN	O	0/3.3 V DC	Engine interrupt signal
	8	GND	-	-	Ground
	9	GND	-	-	Ground
	10	HOLD_ENG	O	0/3.3 V DC	Engine hold signal
	11	SLEEP	O	0/3.3 V DC	Sleep signal
	12	HSYNDD_P	O	0/3.3 V DC (pulse)	Image control signal
	13	HSYNDD_N	O	0/3.3 V DC (pulse)	Image control signal
	14	HSYNCC_P	O	0/3.3 V DC (pulse)	Image control signal
	15	HSYNCC_N	O	0/3.3 V DC (pulse)	Image control signal
	16	HSYNCB_P	O	0/3.3 V DC (pulse)	Image control signal
	17	HSYNCB_N	O	0/3.3 V DC (pulse)	Image control signal
	18	HSYNCA_P	O	0/3.3 V DC (pulse)	Image control signal
	19	HSYNCA_N	O	0/3.3 V DC (pulse)	Image control signal
	20	VSYNDD_P	O	0/3.3 V DC (pulse)	Image control signal
	21	VSYNDD_N	O	0/3.3 V DC (pulse)	Image control signal
	22	VSYNCD_P	O	0/3.3 V DC (pulse)	Image control signal
		VSYNCD_N	O	0/3.3 V DC (pulse)	Image control signal
	23	VSYNCB_P	O	0/3.3 V DC (pulse)	Image control signal
	24	VSYNCB_N	O	0/3.3 V DC (pulse)	Image control signal
	25	VSYNCA_P	O	0/3.3 V DC (pulse)	Image control signal
	26	VSYNCA_N	O	0/3.3 V DC (pulse)	Image control signal
27	GND	-	-	Ground	

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b> Connected to engine PWB	28	TCLKP	O	0/3.3 V DC (pulse)	Image control signal
	29	TCLKN	O	0/3.3 V DC (pulse)	Image control signal
	30	GND	-	-	Ground
	31	TCP	O	0/3.3 V DC (pulse)	Image control signal
	32	TCN	O	0/3.3 V DC (pulse)	Image control signal
	33	GND	-	-	Ground
	34	TBP	O	0/3.3 V DC (pulse)	Image control signal
	35	TBN	O	0/3.3 V DC (pulse)	Image control signal
	36	GND	-	-	Ground
	37	TAP	O	0/3.3 V DC (pulse)	Image control signal
	38	TAN	O	0/3.3 V DC (pulse)	Image control signal
	39	GND	-	-	Ground
	40	SGND	-	-	Ground
	<b>YC5</b> Connected to ethernet	1	TD1+	O	0/3.3 V DC (pulse)
2		TD1-	O	0/3.3 V DC (pulse)	Transmission data
3		TD2+	O	0/3.3 V DC (pulse)	Transmission data
4		TD2-	O	0/3.3 V DC (pulse)	Transmission data
5		CT1	O	3.3 V DC	3.3 V DC power output
6		CT2	O	3.3 V DC	3.3 V DC power output
7		TD3+	O	0/3.3 V DC (pulse)	Transmission data
8		TD3-	O	0/3.3 V DC (pulse)	Transmission data
9		TD4+	O	0/3.3 V DC (pulse)	Transmission data
10		TD4-	O	0/3.3 V DC (pulse)	Transmission data
11		GRLED_A1	O	0/3.3 V DC	LED emitter signal
12		GRLED_K1	O	0/3.3 V DC	LED emitter signal
13		YWLED_A2	O	0/3.3 V DC	LED emitter signal
14		YWLED_K2	O	0/3.3 V DC	LED emitter signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC8</b> Connected to interface PWB	1	RESET0	I	0/3.3 V DC	Reset signal
	2	WAKEUP0	O	0/3.3 V DC	Control signal
	3	AUDIO0	I	Analog	Audio signal
	4	GND	-	-	Ground
	5	USB_DP0	I/O	-	USB data signal
	6	USB_DN0	I/O	-	USB data signal
	7	VBUS0	O	3.3 V DC	3.3 V DC power to IFPWB
	8	GND	-	-	Ground
	9	RESET1	I	0/3.3 V DC	Reset signal
	10	WAKEUP1	O	0/3.3 V DC	Control signal
	11	AUDIO1	I	Analog	Audio signal
	12	GND	-	-	Ground
	13	USB_DP1	I/O	-	USB data signal
	14	USB_DN1	I/O	-	USB data signal
	15	VBUS1	O	3.3 V DC	3.3 V DC power to IFPWB
<b>YC9</b> Connected to interface PWB	1	GND	-	-	Ground
	2	5V_CUT0	I	0/3.3 V DC	5 V DC cut signal
	3	GND	-	-	Ground
	4	5V	O	5 V DC	5 V DC power to IFPWB
	5	GND	-	-	Ground
	6	5V_CUT1	I	0/3.3 V DC	5 V DC cut signal
<b>YC12</b> Connected to operation PWB	1	5V	O	5 V DC	5 V DC power output
	2	LED	-	-	Not used
	3	GND	-	-	Ground
	4	C2P_SDAT	O	0/3.3 V DC (pulse)	OPWB transmission signal
	5	WETCLK	-	-	Not used
	6	P2C_SDAT	I	0/3.3 V DC (pulse)	OPWB received signal
	7	AIRWET	-	-	Not used
	8	C2P_MODE1	O	0/3.3 V DC	LCD control signal
	9	AIRTEMP	-	-	Not used
	10	C2P_MODE2	O	0/3.3 V DC	Buzzer control signal
	11	P2C_OK_KEY	I	0/3.3 V DC	OK key signal
	12	PRESTN	O	0/3.3 V DC	Reset signal
	13	3.3V	O	3.3 V DC	3.3 V DC power output

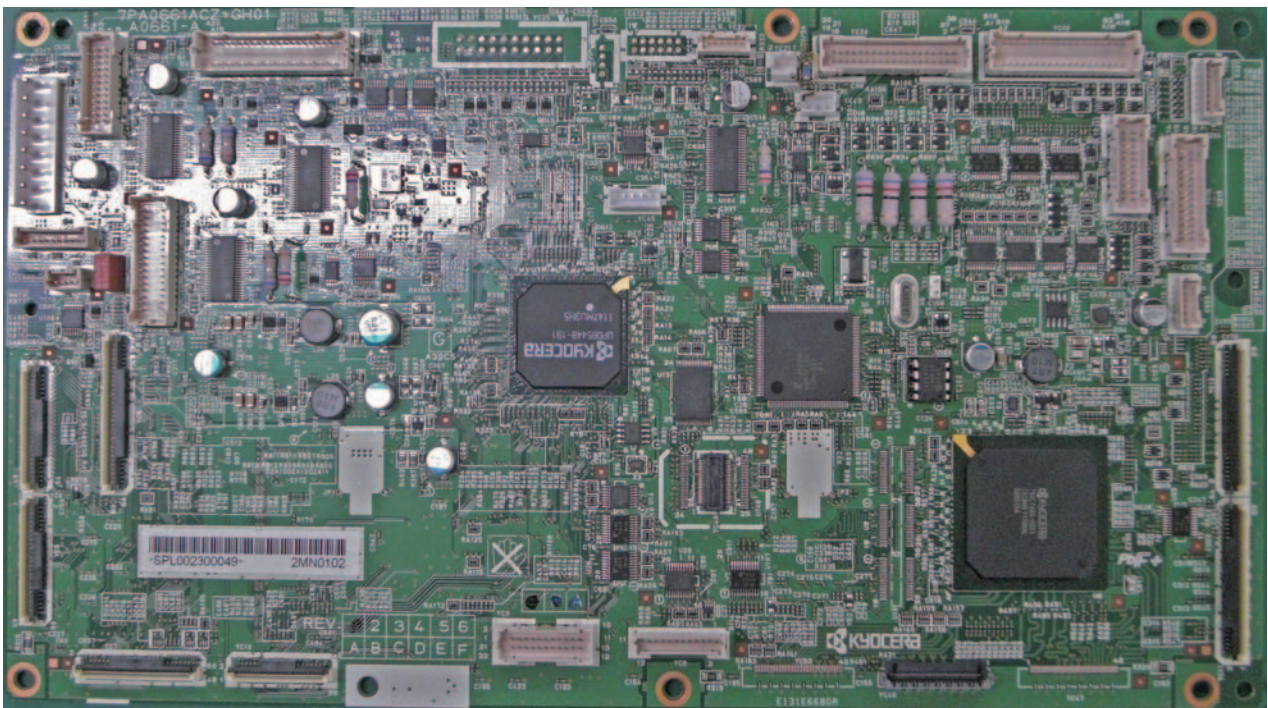
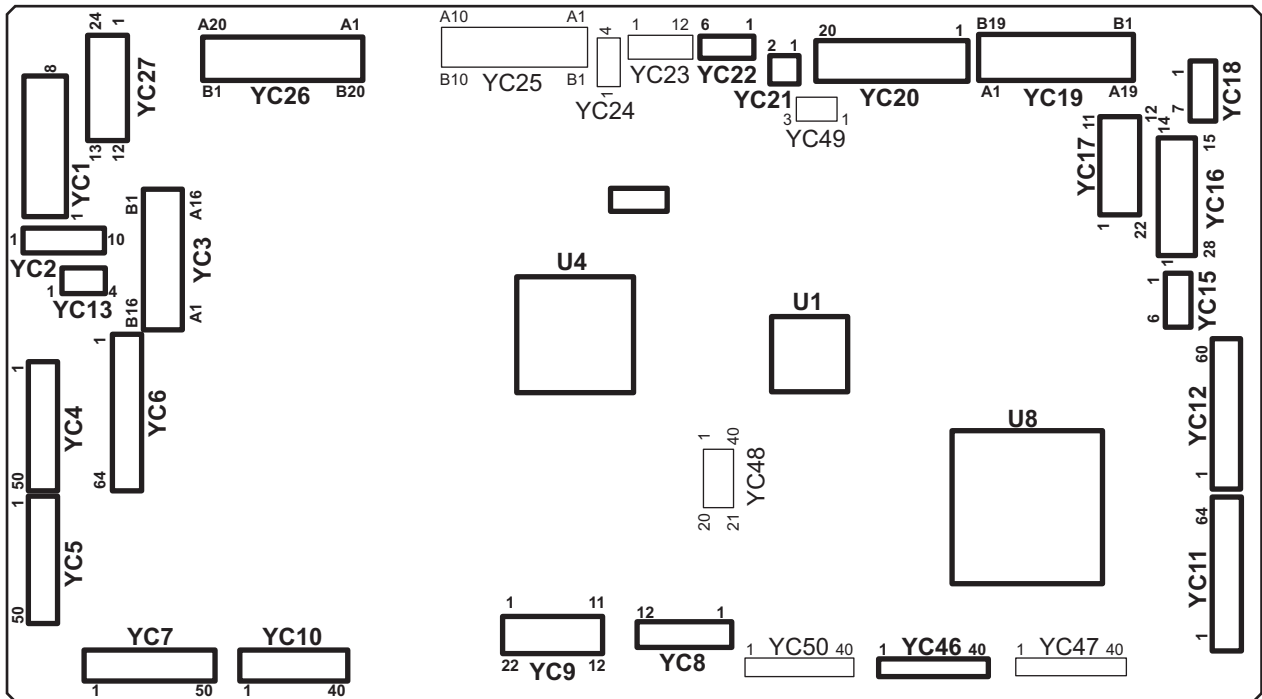
Connector	Pin	Signal	I/O	Voltage	Description
YC16	1	GND	-	-	Ground
Connected to CF card	2	D3	I/O	0/3.3 V DC (pulse)	Data bus signal
	3	D4	I/O	0/3.3 V DC (pulse)	Data bus signal
	4	D5	I/O	0/3.3 V DC (pulse)	Data bus signal
	5	D6	I/O	0/3.3 V DC (pulse)	Data bus signal
	6	D7	I/O	0/3.3 V DC (pulse)	Data bus signal
	7	/CE1	O	0/3.3 V DC	Control signal
	8	A10	O	0/3.3 V DC (pulse)	Address bus signal
	9	/OE	O	0/3.3 V DC	Control signal
	10	A9	O	0/3.3 V DC (pulse)	Address bus signal
	11	A8	O	0/3.3 V DC (pulse)	Address bus signal
	12	A7	O	0/3.3 V DC (pulse)	Address bus signal
	13	VCC	O	0/3.3 V DC	Control signal
	14	A6	O	0/3.3 V DC (pulse)	Address bus signal
	15	A5	O	0/3.3 V DC (pulse)	Address bus signal
	16	A4	O	0/3.3 V DC (pulse)	Address bus signal
	17	A3	O	0/3.3 V DC (pulse)	Address bus signal
	18	A2	O	0/3.3 V DC (pulse)	Address bus signal
	19	A1	O	0/3.3 V DC (pulse)	Address bus signal
	20	A0	O	0/3.3 V DC (pulse)	Address bus signal
	21	D0	I/O	0/3.3 V DC (pulse)	Data bus signal
	22	D1	I/O	0/3.3 V DC (pulse)	Data bus signal
	23	D2	I/O	0/3.3 V DC (pulse)	Data bus signal
	24	WP	O	0/3.3 V DC	Control signal
	25	/CD2	O	0/3.3 V DC	Control signal
	26	/CD1	O	0/3.3 V DC	Control signal
	27	D11	I/O	0/3.3 V DC (pulse)	Data bus signal
	28	D12	I/O	0/3.3 V DC (pulse)	Data bus signal
	29	D13	I/O	0/3.3 V DC (pulse)	Data bus signal
	30	D14	I/O	0/3.3 V DC (pulse)	Data bus signal
	31	D15	I/O	0/3.3 V DC (pulse)	Data bus signal
	32	/CE2	O	0/3.3 V DC	Control signal
	33	/VS1	O	0/3.3 V DC	Control signal
	34	/IORD	O	0/3.3 V DC	Control signal
	35	/IOWD	O	0/3.3 V DC	Control signal
	36	/WE	O	0/3.3 V DC	Control signal
	37	RDY/BSY	I	0/3.3 V DC	Control signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC16</b>	38	VCC	O	0/3.3 V DC	Control signal
Connected to CF card	39	CSEL	O	0/3.3 V DC	Control signal
	40	VS2	O	0/3.3 V DC	Control signal
	41	RESET	I	0/3.3 V DC	Reset signal
	42	/WAIT	O	0/3.3 V DC	Control signal
	43	INPACK	O	0/3.3 V DC	Control signal
	44	/REG	I	0/3.3 V DC	REG signal
	45	BVD2	O	0/3.3 V DC	Control signal
	46	BVD1	O	0/3.3 V DC	Control signal
	47	D8	I/O	0/3.3 V DC (pulse)	Data bus signal
	48	D9	I/O	0/3.3 V DC (pulse)	Data bus signal
	49	D10	I/O	0/3.3 V DC (pulse)	Data bus signal
	50	GND	-	-	Ground
	<b>YC20</b>	D1	VBUS	O	5 V DC
Connected to USB	D2	D-_D	I/O	-	USB data signal
	D3	D+_D	I/O	-	USB data signal
	D4	GND	-	-	Ground
	H1	GND_D	-	-	Ground
	H2	VBUS_H	O	5 V DC	5 V DC power output
	H3	D-_H	I/O	-	USB data signal
	H4	D+_H	I/O	-	USB data signal
<b>YC21</b>	1	VBUS	O	5 V DC	5 V DC power output
Connected to USB host	2	DATA -	I/O	-	USB data signal
	3	DATA +	I/O	-	USB data signal
	4	ID	-	-	Not used
	5	GND	-	-	Ground
<b>YC23</b>	1	SPEED_CONTR OL	O	0/5 V DC	CONFM: On/Off
Connected to controller fan motor	2	GND	-	-	Ground
	3	5V	O	5 V DC	5 V DC power output to CONFM



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC24</b>	1	+12V	I	12 V DC	12 V DC power from PSPWB
Connected to power source PWB	2	+12V	I	12 V DC	12 V DC power from PSPWB
	3	+12V	I	12 V DC	12 V DC power from PSPWB
	4	+12V	I	12 V DC	12 V DC power from PSPWB
	5	GND	-	-	Ground
	6	GND	-	-	Ground
	7	GND	-	-	Ground
	8	GND	-	-	Ground
<b>YC27</b>	1	GND	-	-	Ground
Connected to hard disk	2	+5V_HDD	O	5 V DC	5 V DC power to HDD1
	3	GND	-	-	Ground

## 2-3-2 Engine PWB



\* : Refer to the picture.

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

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b> Connected to feed PWB 1	1	GND	-	-	Ground
	2	5V	I	5 V DC	5 V DC power from FPWB1
	3	GND	-	-	Ground
	4	12V	I	12 V DC	12 V DC power from FPWB1
	5	GND	-	-	Ground
	6	GND	-	-	Ground
	7	24V1	I	24 V DC	24 V DC power from FPWB1
	8	24V1	I	24 V DC	24 V DC power from FPWB1
<b>YC2</b> Connected to front PWB	1	GND	-	-	Ground
	2	GND	-	-	Ground
	3	GND	-	-	Ground
	4	GND	-	-	Ground
	5	GND	-	-	Ground
	6	+24V	O	24 V DC	24 V DC power to FRPWB
	7	+24V	O	24 V DC	24 V DC power to FRPWB
	8	+5V	O	5 V DC	5 V DC power to FRPWB
	9	+3.3V2	O	3.3 V DC	3.3 V DC power to FRPWB
	10	+3.3V1	O	3.3 V DC	3.3 V DC power to FRPWB
<b>YC3</b> Connected to transfer belt unit	A1	+24V1	O	24 V DC	24 V DC power to TRCM
	A2	GND	-	-	Ground
	A3	ICL_MOT_REM	I	0/3.3 V DC	TRCM: On/Off
	A4	ICL_MOT_CLK	O	0/3.3 V DC (pulse)	TRCM clock signal
	A5	ICL_MOT_RDY	I	0/3.3 V DC	TRCM ready signal
	A6	ICL_MOT_DIR	O	0/3.3 V DC	TRCM drive switch signal
	A7	RLS_MOT_DR	O	0/24 V DC	CRM: On/Off
	A8	24V1	O	24 V DC	24 V DC power to CRM
	A9	GND	-	-	Ground
	A10	RLS_SENS	I	0/3.3 V DC	CRS: On/Off
	A11	5V	O	5 V DC	5 V DC power to CRS
	A12	ZIG_MOT_DR_C CW	O	0/24 V DC	TRSM: On/Off (CCW)
	A13	ZIG_MOT_DR_C W	O	0/24 V DC	TRSM: On/Off (CW)
	A14	GND	-	-	Ground
	A15	BLT_INDEX	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b>	A16	5V	-	-	Ground
Connected to transfer belt unit	B1	GND	-	-	Ground
	B2	ZIG_SENS	I	0/3.3 V DC	TRSS: On/Off
	B3	5V	O	5 V DC	5 V DC power to TRSS
	B4	GND	-	-	Ground
	B4	GND	-	-	Ground
	B5	BLT_SPEED	I	0/3.3 V DC	TRBLS: On/Off
	B6	+5V	O	5 V DC	5 V DC power to TRBLS
	B7	TEMP	I	Analog	TEMP signal
	B8	ZIG_REV_SENS	I	0/3.3 V DC	TRES: On/Off
	B9	GND	-	-	Ground
	B10	5V	O	5 V DC	5 V DC power to TRES
	B11	3.3V2	O	3.3 V DC	3.3 V DC power to TRPWB
	B12	EEP_SCL2	O	0/3.3 V DC (pulse)	EEPROM clock signal
	B13	EEP_SDA2	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	B14	GND	-	-	Ground
	B15	A0	-	-	Not used
B16	A1	-	-	Not used	
<b>YC4</b>	1	GND	-	-	Ground
Connected to feed PWB 2	2	FEED_MOT_REM	O	0/3.3 V DC	PFM: On/Off
	3	FEED_MOT_CLK	O	0/3.3 V DC (pulse)	PFM clock signal
	4	FEED_MOT_RDY	I	0/3.3 V DC	PFM ready signal
	5	FEED_MOT_DIR	O	0/3.3 V DC	PFM drive switch signal
	6	FEED_CL1_REM	O	0/24 V DC	PFCL1: On/Off
	7	FEED_CL2_REM	O	0/24 V DC	PFCL2: On/Off
	8	ASIST_CL2	O	0/24 V DC	ASCL2: On/Off
	9	LIFT_MOT2_REM	O	0/24 V DC	LM2: On/Off
	10	GND	-	-	Ground
	11	LIFT_MOT1_REM 1	O	0/24 V DC	LM1: On/Off
	12	CAS2_WID	I	0/3.3 V DC	PWSW2: On/Off
	13	CAS2_LNG3	I	0/3.3 V DC	PLSW2: On/Off
	14	CAS2_LNG2	I	0/3.3 V DC	PLSW2: On/Off
	15	CAS2_LNG1	I	0/3.3 V DC	PLSW2: On/Off
	16	CAS1_WID	I	0/3.3 V DC	PWSW1: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC4</b>	17	CAS1_LNG3	I	0/3.3 V DC	PLSW1: On/Off
Connected to feed PWB 2	18	CAS1_LNG2	I	0/3.3 V DC	PLSW1: On/Off
	19	CAS1_LNG1	I	0/3.3 V DC	PLSW1: On/Off
	20	GND	-	-	Ground
	21	CAS2_QUANT2	I	0/3.3 V DC	PGS2(L): On/Off
	22	CAS2_QUANT1	I	0/3.3 V DC	PGS2(U): On/Off
	23	CAS1_QUANT2	I	0/3.3 V DC	PGS1(L): On/Off
	24	CAS1_QUANT1	I	0/3.3 V DC	PGS1(U): On/Off
	25	LIFT_MOT1_LOCK	I	0/3.3 V DC	LM1 lock signal
	26	LIFT_MOT2_LOCK	I	0/3.3 V DC	LM2 lock signal
	27	CURRENT_SIG	I	0/3.3 V DC	Current signal
	28	V-FEED_CL	O	0/24 V DC	PCCL: On/Off
	29	COVER_OPEN	I	0/3.3 V DC	PCCSW: On/Off
	30	FEED2_SENS	I	0/3.3 V DC	PFPCS1: On/Off
	31	CAS1_P0	I	0/3.3 V DC	FS1: On/Off
	32	CAS1_LIFT_UP	I	0/3.3 V DC	LS1: On/Off
	33	GND	-	-	Ground
	34	CAS1_EMPTY	I	0/3.3 V DC	PS1: On/Off
	35	PICK_SOL1_RET	O	0/24 V DC	PUSOL1: On/Off (RET)
	36	PICK_SOL1_REM	O	0/24 V DC	PUSOL1: On/Off (ACT)
	37	CAS2_P0	I	0/3.3 V DC	FS2: On/Off
	38	CAS2_LIFT_UP	I	0/3.3 V DC	LS2: On/Off
	39	CAS2_EMPTY	I	0/3.3 V DC	PS2: On/Off
	40	PICK_SOL2_RET	O	0/24 V DC	PUSOL2: On/Off (RET)
	41	PICK_SOL2_REM	O	0/24 V DC	PUSOL2: On/Off (ACT)
	42	GND	-	-	Ground
	43	REG_SENS	I	0/3.3 V DC	RS: On/Off
	44	FEED1_SENS	I	0/3.3 V DC	PCS: On/Off
	45	BEND_SENS	I	0/3.3 V DC	RDS: On/Off
	46	MID_MOT_PH	O	0/3.3 V DC	MM control signal
	47	MID_MOT_REM(ROL_CL)	O	0/3.3 V DC	MM/MCL: On/Off
	48	MID_MOT_CLK	O	0/3.3 V DC (pulse)	MM clock signal
	49	MID_MOT_PD	O	0/3.3 V DC	MM control signal
	50	ASIST_CL1	O	0/24 V DC	ASCL1: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC5</b>	1	GND	-	-	Ground
Connected to feed PWB 1	2	M_TEMP	-	-	Not used
	3	LOOP_SENS	I	0/3.3 V DC	LPS: On/Off
	4	GND	-	-	Ground
	5	EDGE_FAN_H	O	0/24 V DC	FUFM: On/Off
	6	DU1_MOT_PD	O	0/3.3 V DC	DUM1 control signal
	7	DU1_MOT_CLK	O	0/3.3 V DC (pulse)	DUM1 clock signal
	8	DU1_MOT_REM( CL_H)	O	0/3.3 V DC	DUM1/DUCL1: On/Off
	9	GND	-	-	Ground
	10	EXIT_FAN	O	0/24 V DC	EFM: On/Off
	11	DU_ENTER_SENS	I	0/3.3 V DC	DUS1: On/Off
	12	TCON_SET	-	-	Not used
	13	GND	-	-	Ground
	14	TRANS_REM	O	0/3.3 V DC	TRCM: On/Off
	15	TRANS_CLK	O	0/3.3 V DC (pulse)	TRCM clock signal
	16	TRANS_RDY	I	0/3.3 V DC	TRCM ready signal
	17	TRANS_DIR	O	0/3.3 V DC	TRCM drive switch signal
	18	TRANS_BRK	O	0/3.3 V DC	TRCM break signal
	19	GND	-	-	Ground
	20	DRM_BK_REM	-	-	Not used
	21	DRM_BK_RDY	-	-	Not used
	22	DRM_BK_DIR	-	-	Not used
	23	DRM_BK_BRK	-	-	Not used
	24	GND	-	-	Ground
	25	DLP_BK_REM	-	-	Not used
	26	DLP_BK_CLK	-	-	Not used
	27	DLP_BK_RDY	-	-	Not used
	28	DLP_BK_DIR	-	-	Not used
	29	GND	-	-	Ground
	30	DRM_CLR_REM	-	-	Not used
	31	DRM_BK_CLR_C LK	-	-	Not used
	32	DRM_CLR_RDY	-	-	Not used
	33	DRM_CLR_DIR	-	-	Not used
	34	GND	-	-	Ground
	35	DLP_CLR_REM	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC5</b>	36	DLP_CLR_CLK	-	-	Not used
Connected to feed PWB 1	37	DLP_CLR_RDY	-	-	Not used
	38	DLP_CLR_DIR	-	-	Not used
	39	GND	-	-	Ground
	40	REG_MOT_PD	O	0/3.3 V DC	RM control signal
	41	REG_MOT_CLK	O	0/3.3 V DC (pulse)	RM clock signal
	42	REG_MOT_REM( CL)	O	0/3.3 V DC	RM/RCL: On/Off
	43	GND	-	-	Ground
	44	IH_FAN_L	O	0/24 V DC	IHFM: On/Off
	45	IH_FAN_H	O	0/24 V DC	IHFM: On/Off
	46	IH_PWB_FAN_AL M	I	0/3.3 V DC	IHFM alarm signal
	47	POWER_OFF	O	0/3.3 V DC	Power off signal
	48	DRM_HEAT	-	-	Not used
	49	IH_PWB_FAN_AL M(U)	-	-	Not used
	50	GND	-	-	Ground
<b>YC6</b>	1	GND	-	-	Ground
Connected to feed PWB 1	2	MAIL_SDI	I	0/3.3 V DC (pulse)	MAIL serial communication data signal
	3	NC	-	-	Not used
	4	MAIL_CLK	O	0/3.3 V DC (pulse)	MAIL clock signal
	5	MAIL_SDO	O	0/3.3 V DC (pulse)	MAIL serial communication data signal
	6	MAIL_RDY	I	0/3.3 V DC	MAIL ready signal
	7	MAIL_SEL	O	0/24 V DC	MAIL select signal
	8	GND	-	-	Ground
	9	MAIN_HEAT	-	-	Not used
	10	SUB_HEAT	-	-	Not used
	11	ZEROC	-	-	Not used
	12	FSR_RELAY	O	0/3.3 V DC	Fuser relay signal
	13	PRESS_REM	-	-	Not used
	14	EXIT_REAR_FAN _L	O	0/24 V DC	ERFM: On/Off
	15	EXIT_REAR_FAN _H	O	0/24 V DC	ERFM: On/Off
	16	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC6</b>	17	FSR_CL_REM	-	-	Not used
Connected to feed PWB 1	18	FSR_MOT_REM	O	0/3.3 V DC	FUM: On/Off
	19	FSR_MOT_CLK		0/3.3 V DC (pulse)	FUM clock signal
	20	FSR_MOT_RDY	O	0/3.3 V DC	FUM ready signal
	21	FSR_MOT_DIR	O	0/3.3 V DC	FUM drive switch signal
	22	FSR_MOT_BRK	O	0/3.3 V DC	FUM break signal
	23	GND	-	-	Ground
	24	MPF_TABLE	I	0/3.3 V DC	MPTSW: On/Off
	25	MPF_WID1	I	0/3.3 V DC	MPPWSW: On/Off
	26	MPF_WID2	I	0/3.3 V DC	MPPWSW: On/Off
	27	MPF_WID3	I	0/3.3 V DC	MPPWSW: On/Off
	28	MPF_LNG	I	0/3.3 V DC	MPPLSW: On/Off
	29	GND	-	-	Ground
	30	MPF_PPR	I	0/3.3 V DC	MPPS: On/Off
	31	MPF_UP	I	0/3.3 V DC	MPLS1: On/Off
	32	MPF_DOWN	I	0/3.3 V DC	MPLS2: On/Off
	33	MPF_JAM	I	0/3.3 V DC	MPFS: On/Off
	34	MPF_CL	O	0/24 V DC	MPPFCL: On/Off
	35	MPF_LIF2	O	0/24 V DC	MPLM: On/Off
	36	MPF_LIFT1	O	0/24 V DC	MPLM: On/Off
	37	GND	-	-	Ground
	38	TC_MOT_LOCK	-	-	Not used
	39	TC_TONER_LED	-	-	Not used
	40	TONER_FULL	-	-	Not used
	41	TC_TONER_VCO NT	-	-	Not used
	42	INTER_LOCK	-	-	Not used
	43	DU2_MOT_PD	O	0/3.3 V DC	DUM2 control signal
	44	DU2_MOT_CLK	O	0/3.3 V DC (pulse)	DUM2 clock signal
	45	DU2_MOT_REM	O	0/3.3 V DC	DUM2/DUCL2: On/Off
	46	GND	-	-	Ground
	47	DU_OPEN	I	0/3.3 V DC	DUCSW: On/Off
	48	DU_FAN	-	-	Not used
	49	PRESS_MOT_RE M1	O	0/24 V DC	TRRM: On/Off
	50	PRESS_MOT_RE M2	O	0/24 V DC	TRRM: On/Off
51	PRESS_RLS_SE NS	I	0/3.3 V DC	TRRS: On/Off	



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC6</b>	52	DU_SENS	I	0/3.3 V DC	DUS2: On/Off
Connected to feed PWB 1	53	BELT_JAM_SENS	-	-	Not used
	54	GND	-	-	Ground
	55	CLN_SOL_RET	O	0/24 V DC	CLSOL: On/Off (RET)
	56	CLN_SOL_REM	O	0/24 V DC	CLSOL: On/Off (ACT)
	57	REG_SENS_R_S	I	Analog	IDS2 detection signal
	58	REG_SENS_R_P	I	Analog	IDS2 detection signal
	59	REG_R_LED	O	Analog	IDS2 control signal
	60	GND	-	-	Ground
	61	REG_SENS_F_S	I	Analog	IDS1 detection signal
	62	REG_SENS_F_P	I	Analog	IDS1 detection signal
	63	REG_F_LED	O	Analog	IDS1 control signal
	64	GND	-	-	Ground
	<b>YC7</b>	1	GND	-	-
Connected to front PWB	2	WTNR_SET	-	-	Not used
	3	INTER_LOCK	-	-	Not used
	4	IH_CORE_SENS	-	-	Not used
	5	IH_CORE_MOT_REM	-	-	Not used
	6	IH_CORE_CLK	-	-	Not used
	7	WTNR_LED	O	0/3.3 V DC (pulse)	WTS1 LED emitter signal
	8	IH_COIL_FAN_ALARM	I	0/3.3 V DC	FUFFM alarm signal
	9	IH_COIL_FAN_H	O	0/24 V DC	FUFFM: On/Off
	10	IH_COIL_FAN_L	O	0/24 V DC	FUFFM: On/Off
	11	EXIT_FAN	O	0/24 V DC	EFFM: On/Off
	12	VIB_MOT_REM	O	0/24 V DC	VM: On/Off
	13	JUNC_SOL_REM	O	0/24 V DC	FSSOL: On/Off (ACT)
	14	JUNC_SOL_RET	O	0/24 V DC	FSSOL: On/Off (RET)
	15	GND	-	-	Ground
	16	EXIT_MAIN_SENS	I	0/3.3 V DC	EFS1: On/Off
	17	EXIT_FEED_SENS	I	0/3.3 V DC	SBS: On/Off
	18	SB_MOT_REM	O	0/3.3 V DC	EM: On/Off
	19	SB_MOT_PH	O	0/3.3 V DC	EM control signal
	20	SB_MOT_CLK	O	0/3.3 V DC (pulse)	EM clock signal

Connector	Pin	Signal	I/O	Voltage	Description
YC7	21	SB_MOT_PD	O	0/3.3 V DC	EM control signal
Connected to front PWB	22	SB_MOT_DIR	O	0/3.3 V DC	EM drive switch signal
	23	GND	-	-	Ground
	24	WTNR_FULL	I	Analog	WTS1 detection signal
	25	THOP_DIR	-	-	Not used
	26	DLP_FAN_CLR_H	O	0/24 V DC	DEVFM1: On/Off
	27	DLP_FAN_CLR_L	O	0/24 V DC	DEVFM1: On/Off
	28	WTNR_SET	I	Analog	WTS2 detection signal
	29	WTNR_NEAR(M)	I	Analog	WTS2 detection signal
	30	WTNR_NEAR_V CONT	O	0/3.3 V DC	WTS2 control signal
	31	GND	-	-	Ground
	32	ROT_MOT_REM	-	-	Not used
	33	ROT_MOT_CLK	-	-	Not used
	34	ROT_MOT_PD	-	-	Not used
	35	ROT_MOT_DIR	-	-	Not used
	36	ROT_SUB_SENS	-	-	Not used
	37	THOP_MOT_Bk	-	-	Not used
	38	THOP_MOT_M	-	-	Not used
	39	THOP_MOT_C	-	-	Not used
	40	THOP_MOT_Y	-	-	Not used
	41	GND	-	-	Ground
	42	ENCODE_Bk	-	-	Not used
	43	ENCODE_M	-	-	Not used
	44	ENCODE_C	-	-	Not used
	45	ENCODE_Y	-	-	Not used
	46	THOP_Bk	-	-	Not used
	47	THOP_M	-	-	Not used
	48	THOP_C	-	-	Not used
	49	THOP_Y	-	-	Not used
	50	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC8</b>	1	SGND	-	-	Ground
Connected to high voltage PWB 2	2	SGND	-	-	Ground
	3	SP_CNT	O	Analog	Separation bias control voltage
	4	T2_CNT	O	Analog	Secondary transfer bias control voltage
	5	T2_OFF_REM	O	0/3.3 V DC	Separation bias: On/Off
	6	T_REM	O	0/3.3 V DC	Secondary transfer bias: On/Off
	7	FB_CONT	O	0/3.3 V DC	Primary transfer cleaning bias: On/Off
	8	T1_CONT_Bk	O	Analog	Primary transfer bias K control voltage
	9	T1_CONT_M	O	Analog	Primary transfer bias M control voltage
	10	T1_CONT_C	O	Analog	Primary transfer bias C control voltage
	11	T1_CONT_Y	O	Analog	Primary transfer bias Y control voltage
	12	T1_CLR_OFF_REM	O	0/3.3 V DC	Primary transfer control signal
	<b>YC9</b>	1	MOT_CLK	O	0/3.3 V DC (pulse)
Connected to motor control PWB	2	MOT_SDO	O	0/3.3 V DC (pulse)	MCPWB serial communication data signal
	3	MOT_SEL	O	0/3.3 V DC	MCPWB select signal
	4	MOT_SDI	I	0/3.3 V DC (pulse)	MCPWB serial communication data signal
	5	MOT_RDY	I	0/3.3 V DC	MCPWB ready signal
	6	EMERGENCY	O	0/3.3 V DC	MCPWB control signal
	7	BLT_SPEED	O	0/3.3 V DC	TBLS: On/Off
	8	BLT_INDEX	-	-	Not used
	9	DRM_INDEX_BK	O	0/3.3 V DC	DRM-K control signal
	10	DRM_INDEX_M	O	0/3.3 V DC	DRM-M control signal
	11	DRM_INDEX_C	O	0/3.3 V DC	DRM-C control signal
	12	DRM_INDEX_Y	O	0/3.3 V DC	DRM-Y control signal
	13	GND	-	-	Ground
	14	GND	-	-	Ground
	15	+5V	O	5 V DC	5 V DC power to MCPWB
	16	+5V	O	5 V DC	5 V DC power to MCPWB
	17	BLT_BRAKE	-	-	Not used
	18	BLT_VM	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC9</b> Connected to motor control PWB	19	BLT_REM	-	-	Not used
	20	MOT_DATA_SET	O	0/3.3 V DC	MCPWB control signal
	21	DRM_ON	O	0/3.3 V DC	MCPWB control signal
	22	BLT_FG	-	-	Not used
<b>YC10</b> Connected to front PWB	1	GND	-	-	Ground
	2	DRM_INDEX_Bk	I	0/3.3 V DC	DRM-K control signal
	3	ERS_Bk	O	0/24 V DC	CL-K: On/Off
	4	TPD_Bk_1	I	Analog	TS-K detection signal
	5	DLP_VCONT_Bk_1	O	0/3.3 V DC	TS-K control signal
	6	TPD_TEMP_Bk	I	Analog	Developer thermistor K detection signal
	7	GND	-	-	Ground
	8	DRM_INDEX_M	I	0/3.3 V DC	DRM-M control signal
	9	ERS_M	O	0/24 V DC	CL-M: On/Off
	10	TPD_M_1	I	Analog	TS-M detection signal
	11	DLP_VCONT_M_1	O	0/3.3 V DC	TS-M control signal
	12	TPD_TEMP_M	I	Analog	Developer thermistor M detection signal
	13	GND	-	-	Ground
	14	DRM_INDEX_C	I	0/3.3 V DC	DRM-C control signal
	15	ERS_C	O	0/24 V DC	CL-C: On/Off
	16	TPD_C_1	I	Analog	TS-C detection signal
	17	DLP_VCONT_C_1	O	0/3.3 V DC	TS-C control signal
	18	TPD_TEMP_C	I	Analog	Developer thermistor C detection signal
	19	GND	-	-	Ground
	20	TN_CLK	O	0/3.3 V DC (pulse)	Clock signal
	21	GND	-	-	Ground
	22	EED_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	23	GND	-	-	Ground
	24	EED_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	25	GND	-	-	Ground
	26	TPD_Y_1	I	Analog	TS-Y detection signal
	27	DLP_VCONT_Y_1	O	0/3.3 V DC	TS-Y control signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC10</b>	28	TPD_TEMP_Y	I	Analog	Developer thermistor Y detection signal
Connected to front PWB	29	ERS_Y	O	0/24 V DC	CL-Y: On/Off
	30	DRM_INDEX_Y	I	0/3.3 V DC	DRM-Y control signal
	31	FRONT_OPEN	I	0/3.3 V DC	FRCSW: On/Off
	32	GND	-	-	Ground
	33	I2C_SCL	O	0/3.3 V DC (pulse)	EEPROM clock signal
	34	GND	-	-	Ground
	35	I2C_SDA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	36	GND	-	-	Ground
	37	LSU_FAN	O	0/24 V DC	LSUFM: On/Off
	38	CLEAN_MOT_LOCK	I	0/3.3 V DC	WTM lock signal
	39	CLEAN_MOT_REM	O	0/24 V DC	WTM: On/Off
	40	GND	-	-	Ground
<b>YC11</b>	1	GND	-	-	Ground
Connected to LSU relay PWB	2	DATA_2PBK(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (P)
	3	DATA_2NBK(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (N)
	4	GND	-	-	Ground
	5	GAIN_FIX_BK	O	0/3.3 V DC	APCPWB-K control signal
	6	PARA_SIG_P2_BK	O	0/3.3 V DC	APCPWB-K control signal
	7	PARA_SIG_P1_BK	O	0/3.3 V DC	APCPWB-K control signal
	8	PARA_SIG_P0_BK	O	0/3.3 V DC	APCPWB-K control signal
	9	INT_ST_1_BK	O	0/3.3 V DC	APCPWB-K control signal
	10	INT_ST_2_BK	O	0/3.3 V DC	APCPWB-K control signal
	11	PARA_SIG_P3_2BK	O	0/3.3 V DC	APCPWB-K control signal
	12	GND	-	-	Ground
	13	DATA_4PBK(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (P)
	14	DATA_4NBK(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (N)

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC11</b>	15	GND	-	-	Ground
Connected to LSU relay PWB	16	DATA_3PBK(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (P)
	17	DATA_3NBK(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (N)
	18	GND	-	-	Ground
	19	DATA_2P_M(LVDS)	O	0/3.3 V DC (pulse)	Video data signal M (P)
	20	DATA_2N_M(LVDS)	O	0/3.3 V DC (pulse)	Video data signal M (N)
	21	GND	-	-	Ground
	22	GAIN_FIX_M	O	0/3.3 V DC	APCPWB-M control signal
	23	PALA_STG_P2_M	O	0/3.3 V DC	APCPWB-M control signal
	24	PALA_STG_P1_M	O	0/3.3 V DC	APCPWB-M control signal
	25	PALA_STG_P0_M	O	0/3.3 V DC	APCPWB-M control signal
	26	INT_ST_M	O	0/3.3 V DC	APCPWB-M control signal
	27	GND	-	-	Ground
	28	DATA_2P_C(LVDS)	O	0/3.3 V DC (pulse)	Video data signal C (P)
	29	DATA_2N_C(LVDS)	O	0/3.3 V DC (pulse)	Video data signal C (N)
	30	GND	-	-	Ground
	31	GAIN_FIX_C	O	0/3.3 V DC	APCPWB-C control signal
	32	PALA_STG_P2_C	O	0/3.3 V DC	APCPWB-C control signal
	33	PALA_STG_P1_C	O	0/3.3 V DC	APCPWB-C control signal
	34	PALA_STG_P0_C	O	0/3.3 V DC	APCPWB-C control signal
	35	INT_ST_C	O	0/3.3 V DC	APCPWB-C control signal
	36	GND	-	-	Ground
	37	DATA_2P_Y(LVDS)	O	0/3.3 V DC (pulse)	Video data signal Y (P)
	38	DATA_2N_Y(LVDS)	O	0/3.3 V DC (pulse)	Video data signal Y (N)
	39	GND	-	-	Ground
	40	GAIN_FIX_Y	O	0/3.3 V DC	APCPWB-Y control signal
	41	PALA_STG_P2_Y	O	0/3.3 V DC	APCPWB-Y control signal
	42	PALA_STG_P1_Y	O	0/3.3 V DC	APCPWB-Y control signal
	43	PALA_STG_P0_Y	O	0/3.3 V DC	APCPWB-Y control signal
	44	INT_ST_Y	O	0/3.3 V DC	APCPWB-Y control signal
	45	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC11</b>	46	EEPROM_CS_1_BK	I/O	0/3.3 V DC (pulse)	APCPWB-K EEPROM data signal
Connected to LSU relay PWB	47	IDD_CS_1_BK	O	0/3.3 V DC	APCPWB-K control signal
	48	EEPROM_CS_2_BK	I/O	0/3.3 V DC (pulse)	APCPWB-K EEPROM data signal
	49	IDD_CS_2_BK	O	0/3.3 V DC	APCPWB-K control signal
	50	EEPROM_CS_M	I/O	0/3.3 V DC (pulse)	APCPWB-M EEPROM data signal
	51	IDD_CS_M	O	0/3.3 V DC	APCPWB-M control signal
	52	EEPROM_CS_C	I/O	0/3.3 V DC (pulse)	APCPWB-C EEPROM data signal
	53	IDD_CS_C	O	0/3.3 V DC	APCPWB-C control signal
	54	EEPROM_CS_Y	I/O	0/3.3 V DC (pulse)	APCPWB-Y EEPROM data signal
	55	IDD_CS_Y	O	0/3.3 V DC	APCPWB-Y control signal
	56	SGND	-	-	Ground
	57	MSET_N	O	0/3.3 V DC	Control signal
	58	SGND	-	-	Ground
	59	SDO	O	0/3.3 V DC (pulse)	Serial communication data signal
	60	SGND	-	-	Ground
	61	SDI	I	0/3.3 V DC (pulse)	Serial communication data signal
	62	SGND	-	-	Ground
	63	CLK	O	0/3.3 V DC (pulse)	Clock signal
64	SGND	-	-	Ground	
<b>YC12</b>	1	-			
Connected to LSU relay PWB	2	LOCK_BK	I	0/3.3 V DC	PM-K lock signal
	3	REM_BK	O	0/24 V DC	PM-K: On/Off
	4	GND	-	-	Ground
	5	DATA_1PBK	O	0/3.3 V DC (pulse)	Video data signal K (P)
	6	DATA_1NBK	O	0/3.3 V DC (pulse)	Video data signal K (N)
	7	GND	-	-	Ground
	8	SDCLK_BK	O	0/3.3 V DC (pulse)	APCPWB-K clock signal
	9	GND	-	-	Ground
	10	PARA_SIG_P4_BK	O	0/3.3 V DC	APCPWB-K control signal
	11	PARA_SIG_P3_BK	O	0/3.3 V DC	APCPWB-K control signal
	12	CUALM_BK	I	0/3.3 V DC	APCPWB-K alarm signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC12</b>	13	LSU_TH_BK	I	Analog	LSU thermistor K detection signal
Connected to LSU relay PWB	14	BD_BK	I	0/3.3 V DC (pulse)	Horizontal synchronization signal K
	15	GND	-	-	Ground
	16	CLK_M	O	0/3.3 V DC (pulse)	PM-M clock signal
	17	LOCK_M	I	0/3.3 V DC	PM-M lock signal
	18	REM_M	O	0/24 V DC	PM-M: On/Off
	19	GND	-	-	Ground
	20	DATA_1P_M	O	0/3.3 V DC (pulse)	Video data signal M (P)
	21	DATA_1N_M	O	0/3.3 V DC (pulse)	Video data signal M (N)
	22	GND	-	-	Ground
	23	SDCLK_M	O	0/3.3 V DC (pulse)	APCPWB-M clock signal
	24	SGND	-	-	Ground
	25	PARA_SIG_P4_M	O	0/3.3 V DC	APCPWB-M control signal
	26	PARA_SIG_P3_M	O	0/3.3 V DC	APCPWB-M control signal
	27	CUALM_M	I	0/3.3 V DC	APCPWB-M alarm signal
	28	LSU_TH_M	I	Analog	LSU thermistor M detection signal
	29	BD_M	I	0/3.3 V DC (pulse)	Horizontal synchronization signal M
	30	GND	-	-	Ground
	31	CLK_C	O	0/3.3 V DC (pulse)	PM-C clock signal
	32	LOCK_C	I	0/3.3 V DC	PM-C lock signal
	33	REM_C	O	0/24 V DC	PM-C: On/Off
	34	GND	-	-	Ground
	35	DATA_1P_C	O	0/3.3 V DC (pulse)	Video data signal C (P)
	36	DATA_1N_C	O	0/3.3 V DC (pulse)	Video data signal C (N)
	37	GND	-	-	Ground
	38	SDCLK_C	O	0/3.3 V DC (pulse)	APCPWB-C clock signal
	39	GND	-	-	Ground
	40	PARA_SIG_P4_C	O	0/3.3 V DC	APCPWB-C control signal
	41	PARA_SIG_P3_C	O	0/3.3 V DC	APCPWB-C control signal
	42	CUALM_C	I	0/3.3 V DC	APCPWB-C alarm signal
	43	LSU_TH_C	I	Analog	LSU thermistor C detection signal
	44	BD_C	I	0/3.3 V DC (pulse)	Horizontal synchronization signal C
	45	GND	-	-	Ground
	46	CLK_Y	O	0/3.3 V DC (pulse)	PM-Y clock signal
	47	LOCK_Y	I	0/3.3 V DC	PM-Y lock signal
	48	REM_Y	O	0/24 V DC	PM-Y: On/Off
	49	GND	-	-	Ground



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC12</b> Connected to LSU relay PWB	50	DATA_1P_Y	O	0/3.3 V DC (pulse)	Video data signal Y (P)
	51	DATA_1N_Y	O	0/3.3 V DC (pulse)	Video data signal Y (N)
	52	GND	-	-	Ground
	53	SDCLK_Y	O	0/3.3 V DC (pulse)	APCPWB-Y clock signal
	54	GND	-	-	Ground
	55	PARA_SIG_P4_Y	O	0/3.3 V DC	APCPWB-Y control signal
	56	PARA_SIG_P3_Y	O	0/3.3 V DC	APCPWB-Y control signal
	57	CUALM_Y	I	0/3.3 V DC	APCPWB-Y alarm signal
	58	LSU_TH_Y	I	Analog	LSU thermistor Y detection signal
	59	BD_Y	I	0/3.3 V DC (pulse)	Horizontal synchronization signal Y
	60	GND	-	-	Ground
<b>YC13</b> Connected to feed PWB 1	1	GND	-	-	Ground
	2	GND	-	-	Ground
	3	3.3V3	I	3.3 V DC	3.3 V DC power from FPWB1
	4	3.3V2	I	3.3 V DC	3.3 V DC power from FPWB1
<b>YC15</b> Connected to the LSU relay PWB	1	GND	-	-	Ground
	2	+3.3V2	O	3.3 V DC	3.3 V DC power to LSURPWB
	3	GND	-	-	Ground
	4	GND	-	-	Ground
	5	+5V_AN	O	5 V DC	5 V DC power to LSURPWB
	6	+5V_AN	O	5 V DC	5 V DC power to LSURPWB

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC16</b>	1	GND	-	-	Ground
Connected to high voltage PWB 1	2	AC_MAIN_CLK	O	0/3.3 V DC (pulse)	AC charger roller Y clock signal
	3	DC_MAIN_REM	O	0/3.3 V DC	DC main charger Y: On/Off
	4	DC_MAIN_CNT_Y	O	PWM	DC charger roller Y control signal
	5	MAIN_IDC_Y	O	PWM	DC charger roller Y control signal
	6	AC_SLV_CLK_Y	O	0/3.3 V DC (pulse)	AC sleeve bias Y clock signal
	7	DC_SLV_CNT_Y	O	PWM	DC sleeve bias Y control voltage
	8	DC_MAG_CNT_Y	O	PWM	DC magnet bias Y control voltage
	9	AC_SLV_CNT_Y	O	PWM	AC sleeve bias Y control voltage
	10	AC_MAIN_CNT_Y	O	PWM	AC charger roller Y control signal
	11	DISCHARGE_Y	I	PWM	Main charger Y control signal
	12	AC_MAG_CNT_Y	O	0/3.3 V DC (pulse)	AC magnet bias Y control voltage
	13	AC_MAG_CLK_Y	O	0/3.3 V DC (pulse)	AC magnet bias Y clock signal
	14	DC_REC_CNT	O	PWM	DC bias Y control voltage
	15	N.C	-	-	Not used
	16	DC_REC_REM	O	PWM	DC bias C control voltage
	17	AC_MAG_CLK_C	O	0/3.3 V DC (pulse)	AC magnet bias C clock signal
	18	AC_MAG_CNT_C	O	0/3.3 V DC (pulse)	AC magnet bias C control voltage
	19	DISCHARGE_C	I	PWM	Main charger C control signal
	20	AC_MAIN_CNT_C	O	PWM	AC charger roller C control signal
	21	AC_SLV_CNT_C	O	PWM	AC sleeve bias C control voltage
	22	DC_MAG_CNT_C	O	PWM	DC magnet bias C control voltage
	23	DC_SLV_CNT_C	O	PWM	DC sleeve bias C control voltage
	24	AC_SLV_CLK_C	O	0/3.3 V DC (pulse)	AC sleeve bias C clock signal
	25	DC_MAG_REM	O	0/3.3 V DC	DC main charger C: On/Off
	26	MAIN_IDC_C	O	PWM	DC charger roller C control signal
	27	DC_MAIN_CNT_C	O	PWM	DC charger roller C control signal
	28	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC17</b>	1	GND	-	-	Ground
Connected to high voltage PWB 1	2	DC_MAIN_CNT_M	O	PWM	DC charger roller Y control signal
	3	MAIN_IDC_M	O	PWM	DC charger roller M control signal
	4	AC_SLV_CLK_M	O	0/3.3 V DC (pulse)	AC sleeve bias M clock signal
	5	DC_SLV_CNT_M	O	PWM	DC sleeve bias M control voltage
	6	DC_MAG_CNT_M	O	PWM	DC magnet bias M control voltage
	7	AC_SLV_CNT_M	O	PWM	AC sleeve bias M control voltage
	8	AC_MAIN_CNT_M	O	PWM	AC charger roller M control signal
	9	DISCHARGE_M	I	PWM	Main charger M control signal
	10	AC_MAG_CNT_M	O	0/3.3 V DC (pulse)	AC magnet bias M control voltage
	11	AC_MAG_CLK_M	O	0/3.3 V DC (pulse)	AC magnet bias M clock signal
	12	AC_MAG_CLK_Bk	O	PWM	DC charger roller K control signal
	13	AC_MAG_CNT_Bk	O	PWM	DC charger roller K control signal
	14	DISCHARGE_Bk	I	PWM	Main charger K control signal
	15	AC_SLV_CNT_Bk	O	0/3.3 V DC (pulse)	AC sleeve bias K clock signal
	16	DC_MAG_CNT_Bk	O	PWM	DC sleeve bias K control voltage
	17	DC_SLV_CNT_Bk	O	PWM	DC magnet bias K control voltage
	18	AC_SLV_CLK_Bk	O	PWM	AC sleeve bias K control voltage
	19	AC_MAIN_CNT_Bk	O	PWM	AC charger roller K control signal
	20	MAIN_IDC_Bk	O	PWM	DC charger roller K control signal
	21	DC_MAIN_CNT_Bk	O	PWM	DC charger roller K control signal
22	GND	-	-	Ground	
<b>YC18</b>	1	DF_CLK	O	0/3.3 V DC (pulse)	DFMPWB clock signal
Connected to 1000-sheet/4000-sheet finisher	2	DF_SDO	O	0/3.3 V DC (pulse)	DFMPWB serial communication data signal
	3	DF_SEL	O	0/3.3 V DC	DFMPWB select signal
	4	DF_SDI	O	0/3.3 V DC (pulse)	DFMPWB serial communication data signal
	5	DF_RDY	I	0/3.3 V DC	DFMPWB ready signal
	6	DF_DET	O	0/3.3 V DC	DFMPWB detection signal
	7	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
YC19 Connected to paper feeder/ large capac- ity feeder, toner fan motor 1/2, belt fan motor 1/2 and exhaust fan motor 1/2	A1	PF_CLK	O	0/3.3 V DC (pulse)	PFMPWB clock signal
	A2	PF_SDO	O	0/3.3 V DC (pulse)	PFMPWB serial communication data signal
	A3	PF_SEL	O	0/3.3 V DC	PFMPWB select signal
	A4	PF_SDI	I	0/3.3 V DC (pulse)	PFMPWB serial communication data signal
	A5	PF_RDY	I	0/3.3 V DC	PFMPWB ready signal
	A6	PF_PAUSE	O	0/3.3 V DC	PFMPWB pause signal
	A7	PF_CAS1_OPEN	I	0/3.3 V DC	PFMPWB control signal
	A8	PF_CAS2_OPEN	I	0/3.3 V DC	PFMPWB control signal
	A9	3.3V4	O	3.3 V DC	3.3 V DC power to PFMPWB
	A10	GND	-	-	Ground
	A11	GND	-	-	Ground
	A12	TN_FAN1	O	0/24 V DC	TFM1: On/Off
	A13	24V1	O	24 V DC	24 V DC power to TFM1
	A14	TN_FAN2	O	0/24 V DC	TFM2: On/Off
	A15	24V1	O	24 V DC	24 V DC power to TFM2
	A16	LVU_FAN1	-	-	Not used
	A17	24V1	-	-	Not used
	A18	LVU_FAN2	-	-	Not used
	A19	24V1	-	-	Not used
	B1	SIDE_CLK	O	0/3.3 V DC (pulse)	PFMPWB clock signal (side)
	B2	SIDE_SDO	O	0/3.3 V DC (pulse)	PFMPWB serial communication data signal (side)
	B3	SIDE_SEL	O	0/3.3 V DC	PFMPWB select signal (side)
	B4	SIDE_SDI	I	0/3.3 V DC (pulse)	PFMPWB serial communication data signal (side)
	B5	SIDE_RDY	I	0/3.3 V DC	PFMPWB ready signal (side)
	B6	SIDE_PAUSE	O	0/3.3 V DC	PFMPWB pause signal (side)
	B7	CAS1_OPEN	I	0/3.3 V DC	PFMPWB control signal (side)
	B8	CAS2_OPEN	I	0/3.3 V DC	PFMPWB control signal (side)
	B9	MULTI_OPEN	O	0/3.3 V DC	PFMPWB control signal (side)
	B10	3.3V4	O	3.3 V DC	3.3 V DC power to PFMPWB (side)
	B11	GND	-	-	Ground
	B12	24V1	O	24 V DC	24 V DC power to BLFM1

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC19</b>	B13	BELT_FAN1	O	0/24 V DC	BLFM1: On/Off
Connected to paper feeder/ large capacity feeder, toner fan motor 1/2, belt fan motor 1/2 and exhaust fan motor 1/2	B14	24V1	O	24 V DC	24 V DC power to BLFM2
	B15	BELT_FAN2	O	0/24 V DC	BLFM2: On/Off
	B16	DLP_FAN1	O	0/24 V DC	EXFM1: On/Off
	B17	24V1	O	24 V DC	24 V DC power to EXFM1
	B18	DLP_FAN2	O	0/24 V DC	EXFM2: On/Off
	B19	24V1	O	24 V DC	24 V DC power to EXFM2
<b>YC20</b>	1	DECAL_HP	-	-	Not used
Connected to bridge unit	2	GUIDE_REM	-	-	Not used
	3	GUIDE_CLK	-	-	Not used
	4	GUIDE_PD	-	-	Not used
	5	GUIDE_DIR	-	-	Not used
	6	DECAL_REM	-	-	Not used
	7	DECAL_PH	-	-	Not used
	8	DECAL_CLK	-	-	Not used
	9	DECAL_PD	-	-	Not used
	10	DECAL_DIR	-	-	Not used
	11	24V1	O	24 V DC	24 V DC power to BRSOL
	12	MAIL_SOL_REM	O	0/24 V DC	BRSOL: On/Off (ACT)
	13	MAIL_SOL_RET	O	0/24 V DC	BRSOL: On/Off (RET)
	14	GND	-	-	Ground
	15	EXIT_COV_OPEN	I	0/3.3 V DC	BRECSW: On/Off
	16	GND	-	-	Ground
	17	EXIT_SENS	I	0/3.3 V DC	BRES: On/Off
	18	5V	O	5 V DC	5 V DC power to BRES
	19	5V	O	5 V DC	5 V DC power to BRES
	20	BRIDGE2 REM	O	0/3.3 V DC	BRCM2: On/Off
	21	BRIDGE2 PH	O	0/3.3 V DC	BRCM2 control signal
	22	BRIDGE2 CLK	O	0/3.3 V DC (pulse)	BRCM2 clock signal
	23	BRIDGE2 PD	O	0/3.3 V DC	BRCM2 control signal
	24	BRIDGE2 DIR	O	0/3.3 V DC	BRCM2 drive switch signal
	25	BRIDGE1 REM	O	0/3.3 V DC	BRCM2: On/Off
	26	BRIDGE1 PH	O	0/3.3 V DC	BRCM1 control signal
	27	BRIDGE1 CLK	O	0/3.3 V DC (pulse)	BRCM1 clock signal
	28	BRIDGE1 PD	O	0/3.3 V DC	BRCM1 control signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC20</b> Connected to bridge unit	29	BRIDGE1 DIR	O	0/3.3 V DC	BRCM1 drive switch signal
	30	BRIDGE_SENS 2	I	0/3.3 V DC	BRCS2: On/Off
	31	BRIDGE_OPEN	I	0/3.3 V DC	BRCSW: On/Off
	32	BRIDGE_SENS 1	I	0/3.3 V DC	BRCS1: On/Off
	33	GND	-	-	Ground
	34	5V	O	5 V DC	5 V DC power to BRPWB
	35	GND	-	-	Ground
	36	GND	-	-	Ground
	37	24V1	O	24 V DC	24 V DC power to BRPWB
	38	24V1	O	24 V DC	24 V DC power to BRPWB
<b>YC21</b> Connected to LSU clean- ing motor	1	CCW	O	0/24 V DC	LSUCM: On/Off (CCW)
	2	CW	O	0/24 V DC	LSUCM: On/Off (CW)
<b>YC22</b> Connected to power source fan motor	1	LVU_FAN	O	0/24 V DC	PSFM: On/Off
	2	+24V1	O	24 V DC	24 V DC power to PSFM
<b>YC26</b> Connected to fuser unit and fuser IH PWB	A1	EDGE_FAN_ALM (F)	I	0/3.3 V DC	FUEFM2 alarm signal
	A2	GND	-	-	Ground
	A3	EDGE_FAN	O	0/24 V DC	FUEFM2: On/Off
	A4	EDGE_FAN_ALM (R)	I	0/3.3 V DC	FUEFM1 alarm signal
	A5	GND	-	-	Ground
	A6	EDGE_FAN	O	0/24 V DC	FUEFM1: On/Off
	A7	FSR_FAN_ALM	I	0/3.3 V DC	FURFM alarm signal
	A8	GND	-	-	Ground
	A9	FSR_FAN	O	0/24 V DC	FURFM: On/Off
	A10	FSR_RLS_DR_C CW	O	0/24 V DC	FURM: On/Off (CCW)

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC26</b>	A11	FSR_RLS_DR_C W	O	0/24 V DC	FURM: On/Off (CW)
Connected to fuser unit and fuser IH PWB	A12	GND	-	-	Ground
	A13	FSR_SIZE_SENS	I	0/3.3 V DC	FUES: On/Off
	A14	+5V	O	5 V DC	5 V DC power to FUES
	A15	GND	-	-	Ground
	A16	FSR_RLS_SENS	I	0/3.3 V DC	FURS: On/Off
	A17	+5V	O	5 V DC	5 V DC power to FURS
	A18	GND	-	-	Ground
	A19	FSR_BLT_PLS	I	0/3.3 V DC	FUBLS: On/Off
	A20	+5V	O	5 V DC	5 V DC power to FUBLS
	B1	PRESS_HEART_ REM	-	-	Not used
	B2	IH_RXD	I	0/3.3 V DC (pulse)	Serial communication data signal
	B3	IH_TXD	O	0/3.3 V DC (pulse)	Serial communication data signal
	B4	ROTATION	O	0/3.3 V DC	FIH control signal
	B5	IH_HEAT_REM	O	0/3.3 V DC	FIH: On/Off
	B6	+3.3V2	O	3.3 V DC	5 V DC power to FIH
	B7	GND	-	-	Ground
	B8	GND	-	-	Ground
	B9	PRESS_TH	I	Analog	FTH4 detection signal
	B10	GND	-	-	Ground
	B11	EDGE_TH	I	Analog	FTH2 detection signal
B12	GND	-	-	Ground	
B13	GUIDE_TH1	-	-	Not used	
B14	GND	-	-	Ground	
B15	GUIDE_TH2	I	Analog	FTH3 detection signal	
B16	MAIN_TH2	I	Analog	FTH1 detection signal	
B17	MAIN_TH1	I	Analog	FTH1 detection signal	
B18	GND	-	-	Ground	
B19	+24V1	O	24 V DC	24 V DC power to BRFM	
B20	BRIDGE_FAN	O	0/24 V DC	BRFM: On/Off	
<b>YC27</b>	1	GND	-	-	Ground
Connected to RFID PWB, toner motor K/M/C/Y and screw sen- sor K/M/C/Y	2	SDA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	3	SCL	I	0/3.3 V DC (pulse)	EEPROM clock signal
	4	3.3V2	O	3.3 V DC	3.3 V DC power to RFPWB
	5	24V1	O	24 V DC	24 V DC power to TM-Y

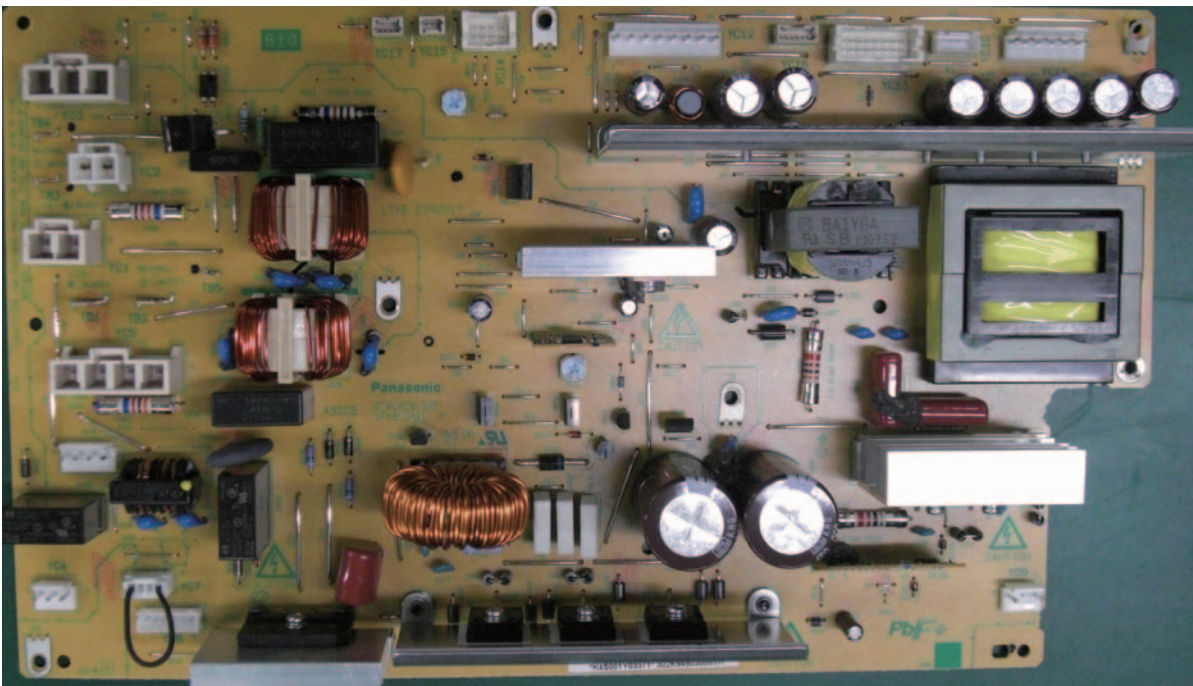
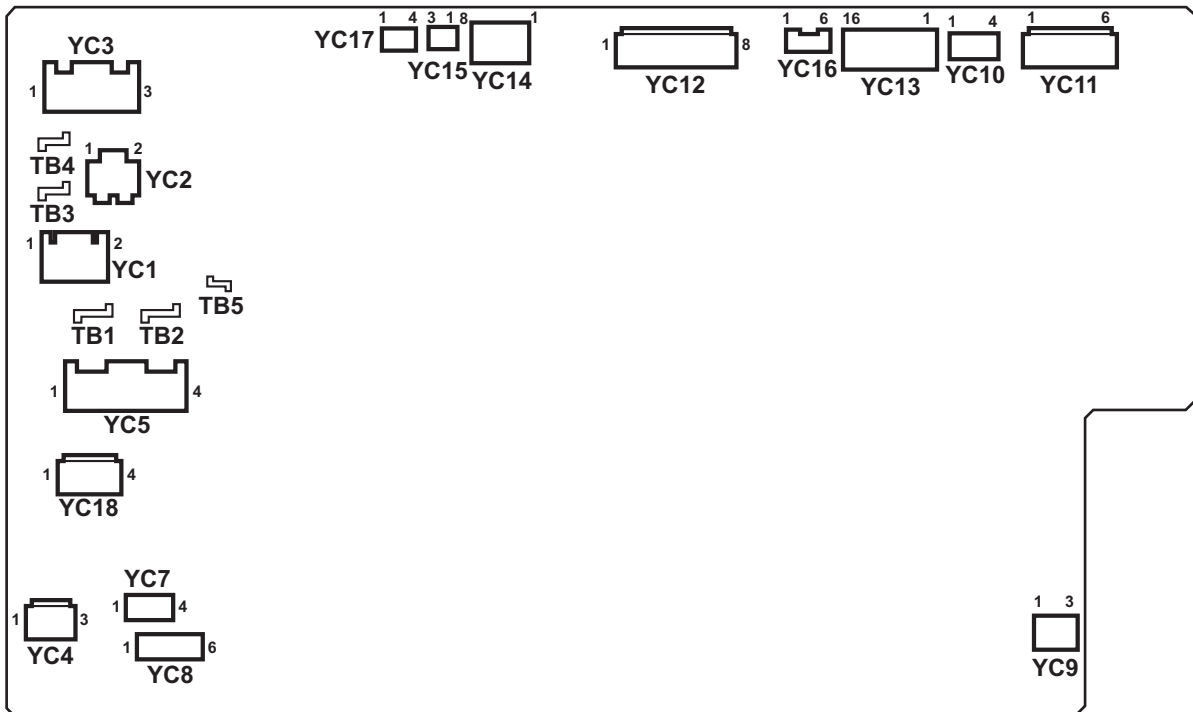
Connector	Pin	Signal	I/O	Voltage	Description	
<b>YC27</b> Connected to RFID PWB, toner motor K/M/C/Y and screw sen- sor K/M/C/Y	6	TMOT_Y_DR	O	0/24 V DC	TM-Y: On/Off	
	7	24V1	O	24 V DC	24 V DC power to TM-C	
	8	TMOT_C_DR	O	0/24 V DC	TM-C: On/Off	
	9	24V1	O	24 V DC	24 V DC power to TM-M	
	10	TMOT_M_DR	O	0/24 V DC	TM-M: On/Off	
	11	24V1	I	24 V DC	24 V DC power to TM-K	
	12	TMOT_K_DR	O	0/24 V DC	TM-K: On/Off	
	13	GND	-	-	Ground	
	14	ENCODE_Y	I	0/3.3 V DC	SRS-Y: On/Off	
	15	5V	O	5 V DC	5 V DC power to SRS-Y	
	16	GND	-	-	Ground	
	17	ENCODE_C	I	0/3.3 V DC	SRS-C: On/Off	
	18	5V	O	5 V DC	5 V DC power to SRS-C	
	19	GND	-	-	Ground	
	20	ENCODE_M	I	0/3.3 V DC	SRS-M: On/Off	
	21	5V	O	5 V DC	5 V DC power to SRS-M	
	22	GND	-	-	Ground	
	23	ENCODE_K	I	0/3.3 V DC	SRS-K: On/Off	
	24	5V	O	5 V DC	5 V DC power to SRS-K	
	<b>YC46</b> Connected to main PWB	1	SLLEP_INT	I	0/3.3 V DC	Sleep signal
		2	G6_EG_SCLK	I	0/3.3 V DC (pulse)	Engine clock signal
		3	G6_EG_SI	I	0/3.3 V DC (pulse)	Serial communication data signal
		4	G6_EG_SDIR	I	0/3.3 V DC	Engine communication direct signal
		5	G6_EG_SBSY	I	0/3.3 V DC	Engine busy signal
6		G6_EG_SO	O	0/3.3 V DC (pulse)	Serial communication data signal	
7		G6_EG_IRN	I	0/3.3 V DC	Engine interrupt signal	
8		I2C_SCL	I	0/3.3 V DC (pulse)	Clock signal	
9		I2C_SDA	I	0/3.3 V DC (pulse)	Serial communication data signal	
10		HLD_ENG	I	0/3.3 V DC	Engine hold signal	
11		SLEEP_ENG	I	0/3.3 V DC	Engine sleep signal	
12		HSYNC_DP	I	0/3.3 V DC (pulse)	Image control signal	
13		HSYNC_DN	I	0/3.3 V DC (pulse)	Image control signal	
14		HSYNC_CP	I	0/3.3 V DC (pulse)	Image control signal	
15		HSYNC_CN	I	0/3.3 V DC (pulse)	Image control signal	
16		HSYNC_BP	I	0/3.3 V DC (pulse)	Image control signal	
17		HSYNC_BN	I	0/3.3 V DC (pulse)	Image control signal	



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC46</b>	18	HSYNC_AP	I	0/3.3 V DC (pulse)	Image control signal
Connected to main PWB	19	HSYNC_AN	I	0/3.3 V DC (pulse)	Image control signal
	20	VSYNC_DP	I	0/3.3 V DC (pulse)	Image control signal
	21	VSYNC_DN	I	0/3.3 V DC (pulse)	Image control signal
	22	VSYNC_CP	I	0/3.3 V DC (pulse)	Image control signal
	23	VSYNC_CN	I	0/3.3 V DC (pulse)	Image control signal
	24	VSYNC_BP	I	0/3.3 V DC (pulse)	Image control signal
	25	VSYNC_BN	I	0/3.3 V DC (pulse)	Image control signal
	26	VSYNC_AP	I	0/3.3 V DC (pulse)	Image control signal
	27	VSYNC_AN	I	0/3.3 V DC (pulse)	Image control signal
	28	GND	-	-	Ground
	29	SAR_VCLK_P	I	0/3.3 V DC (pulse)	Clock signal
	30	SAR_VCLK_N	I	0/3.3 V DC (pulse)	Clock signal
	31	GND	-	-	Ground
	32	SAR_CH3_P	I	0/3.3 V DC (pulse)	Image control signal
	33	SAR_CH3_N	I	0/3.3 V DC (pulse)	Image control signal
	34	GND	-	-	Ground
	35	SAR_CH2_P	I	0/3.3 V DC (pulse)	Image control signal
	36	SAR_CH2_N	I	0/3.3 V DC (pulse)	Image control signal
	37	GND	-	-	Ground
	38	SAR_CH1_P	I	0/3.3 V DC (pulse)	Image control signal
	39	SAR_CH1_N	I	0/3.3 V DC (pulse)	Image control signal
	40	GND	-	-	Ground

### 2-3-3 Power source PWB

I



\* : Refer to the picture.

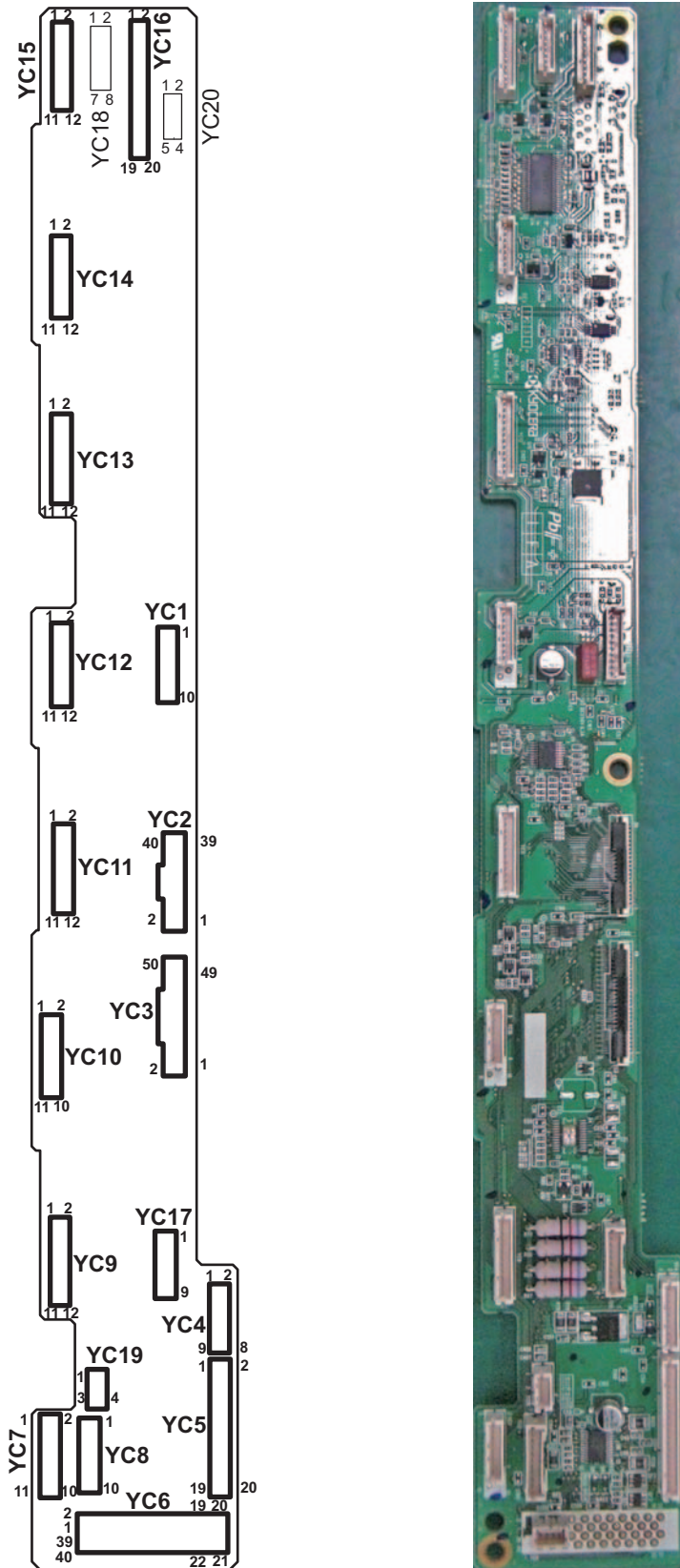
Figure 2-3-3 Power source PWB silk-screen diagram and photograph

Connector	Pin	Signal	I/O	Voltage	Description
<b>TB</b>  Connected to AC inlet and main power switch	1	LIVE	I	120 V AC 220-240 V AC	AC power input
	2	NEUTRAL	I	120 V AC 220-240 V AC	AC power input
	3	LIVE	-	-	Not used
	4	NEUTRAL	-	-	Not used
	5	DH_LIVE	I	120 V AC 220-240 V AC	AC power input
<b>YC1</b>  Connected to main power switch	1	MSW_OUT	O	120 V AC 220-240 V AC	AC power output to MSW
	2	MSW_IN	I	120 V AC 220-240 V AC	AC power input from MSW
<b>YC3</b>  Connected to fuser IH PWB	1	IH_NEUTRAL	O	120 V AC 220-240 V AC	AC power output to FIHPWB
	2	NC	-	-	Not used
	3	IH_LIVE	O	120 V AC 220-240 V AC	AC power output to FIHPWB
<b>YC8</b>  Connected to cassette heater	1	DH_LIVE	O	120 V AC 220-240 V AC	AC power output to CH
	2	DH_LIVE	O	120 V AC 220-240 V AC	AC power output to CH
	3	NC	-	-	Not used
	4	NC	-	-	Not used
	5	DH_NEUTRAL	O	120 V AC 220-240 V AC	AC power output to CH
	6	DH_NEUTRAL	O	120 V AC 220-240 V AC	AC power output to CH
<b>YC9</b>  Connected to paper feeder/ large capacity feeder	1	DH_LIVE	O	120 V AC 220-240 V AC	AC power output to PFCH
	2	DH_NEUTRAL	O	120 V AC 220-240 V AC	AC power output to PFCH
<b>YC10</b>  Connected to LSU relay PWB	1	+24V1	O	24 V DC	24 V DC power to LSURPWB
	2	+24V1	O	24 V DC	24 V DC power to LSURPWB
	3	GND	-	-	Ground
	4	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC11</b> Connected to motor control PWB	1	24V1	O	24 V DC	24 V DC power to MCPWB
	2	24V1	O	24 V DC	24 V DC power to MCPWB
	3	24V1	O	24 V DC	24 V DC power to MCPWB
	4	GND	-	-	Ground
	5	GND	-	-	Ground
	6	GND	-	-	Ground
<b>YC12</b> Connected to feed PWB 1	1	24V1	O	24 V DC	24 V DC power to FPWB1
	2	24V1	O	24 V DC	24 V DC power to FPWB1
	3	24V1	O	24 V DC	24 V DC power to FPWB1
	4	12V	O	12 V DC	12 V DC power to FPWB1
	5	GND	-	-	Ground
	6	GND	-	-	Ground
	7	GND	-	-	Ground
	8	GND	-	-	Ground
<b>YC13</b> Connected to paper feeder/ large capacity feeder, 1000-sheet/4000-sheet finisher and ISC PWB	1	24V1	O	24 V DC	24 V DC power to paper feeder/ large capacity feeder
	2	24V1	O	24 V DC	24 V DC power to paper feeder/ large capacity feeder
	3	24V1	O	24 V DC	24 V DC power to 1000-sheet/4000-sheet finisher
	4	24V1	O	24 V DC	24 V DC power to 1000-sheet/4000-sheet finisher
	5	24V1	O	24 V DC	24 V DC power to ISCPWB
	6	24V1	O	24 V DC	24 V DC power to ISCPWB
	7	24V1	-	-	Not used
	8	24V1	-	-	Not used
	9	GND	-	-	Ground
	10	GND	-	-	Ground
	11	GND	-	-	Ground
	12	GND	-	-	Ground
	13	GND	-	-	Ground
	14	GND	-	-	Ground
	15	GND	-	-	Ground
	16	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC16</b>	1	24V1	O	24 V DC	24 V DC power to HVPWB1
Connected to high voltage PWB 1	2	24V1	O	24 V DC	24 V DC power to HVPWB1
	3	24V1	O	24 V DC	24 V DC power to HVPWB1
	4	PGND	-	-	Ground
	5	PGND	-	-	Ground
	6	PGND	-	-	Ground
<b>YC17</b>	1	POWER_OFF	I	0/3.3 V DC	Sleep mode signal: On/Off
Connected to feed PWB 1	2	DRUM_HEAT_RE M	I	0/3.3 V DC	FH: On/Off
	3	GND	-	-	Ground
	4	FSR_RELAY_RE M	-	-	Not used

### 2-3-4 Front PWB



\* : Refer to the picture.

Figure 2-3-4 Front PWB silk-screen diagram and photograph

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b> Connected to engine PWB	1	+3.3V1	I	3.3 V DC	3.3 V DC power from EPWB
	2	+3.3V2	I	3.3 V DC	3.3 V DC power from EPWB
	3	+5V	I	5 V DC	5 V DC power from EPWB
	4	+24V	I	24 V DC	24 V DC power from EPWB
	5	+24V	I	24 V DC	24 V DC power from EPWB
	6	GND	-	-	Ground
	7	GND	-	-	Ground
	8	GND	-	-	Ground
	9	GND	-	-	Ground
	10	GND	-	-	Ground
<b>YC2</b> Connected to engine PWB	1	GND	-	-	Ground
	2	DRM_INDEX_Bk	O	0/3.3 V DC	DRM-K control signal
	3	ERS_Bk_REM	I	0/24 V DC	CL-K: On/Off
	4	TPD_Bk_1	O	Analog	TS-K detection signal
	5	DLP_VCONT_Bk_1	I	0/3.3 V DC	TS-K control signal
	6	TPD_TEMP_Bk	O	Analog	Developer thermistor K detection signal
	7	GND	-	-	Ground
	8	DRM_INDEX_M	O	0/3.3 V DC	DRM-M control signal
	9	ERS_M_REM	I	0/24 V DC	CL-M: On/Off
	10	TPD_M_1	O	Analog	TS-M detection signal
	11	DLP_VCONT_M_1	I	0/3.3 V DC	TS-M control signal
	12	TPD_TEMP_M	O	Analog	Developer thermistor M detection signal
	13	GND	-	-	Ground
	14	DRM_INDEX_C	O	0/3.3 V DC	DRM-C control signal
	15	ERS_C_REM	I	0/24 V DC	CL-C: On/Off
	16	TPD_C_1	O	Analog	TS-C detection signal
	17	DLP_VCONT_C_1	I	0/3.3 V DC	TS-C control signal
	18	TPD_TEMP_C	O	Analog	Developer thermistor C detection signal
	19	GND	-	-	Ground
	20	TN_CLK	I	0/3.3 V DC (pulse)	Clock signal
	21	GND	-	-	Ground
	22	EED_SCL1	I	0/3.3 V DC (pulse)	EEPROM clock signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC2</b>	23	GND	-	-	Ground
Connected to engine PWB	24	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	25	GND	-	-	Ground
	26	TPD_Y_1	O	Analog	TS-Y detection signal
	27	DLP_VCONT_Y_1	I	0/3.3 V DC	TS-Y control signal
	28	TPD_TEMP_Y	O	Analog	Developer thermistor Y detection signal
	29	ERS_Y_REM	I	0/24 V DC	CL-Y: On/Off
	30	DRM_INDEX_Y	O	0/3.3 V DC	DRM-Y control signal
	31	FRONT_OPEN	O	0/3.3 V DC	FRCSW: On/Off
	32	GND	-	-	Ground
	33	I2C_SCL	I	0/3.3 V DC (pulse)	EEPROM clock signal
	34	GND	-	-	Ground
	35	I2C_SDA	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	36	GND	-	-	Ground
	37	LSU_FAN_REM	I	0/24 V DC	LSUFM: On/Off
	38	CLEAN_MOT_LOCK	O	0/3.3 V DC	WTM lock signal
	39	CLEAN_MOT_REM	I	0/24 V DC	WTM: On/Off
	40	GND	-	-	Ground
	<b>YC3</b>	1	GND	-	-
Connected to engine PWB	2	WTNR_SET	-	-	Not used
	3	INTER_LOCK	-	-	Not used
	4	IH_CORE_SENS	-	-	Not used
	5	IH_CORE_MOT_REM	-	-	Not used
	6	IH_CORE_CLK	-	-	Not used
	7	WTNR_LED	I	0/3.3 V DC (pulse)	WTS1 LED emitter signal
	8	IH_COIL_FAN_ALARM	O	0/3.3 V DC	FUFFM alarm signal
	9	IH_COIL_FAN_H	I	0/24 V DC	FUFFM: On/Off
	10	IH_COIL_FAN_L	I	0/24 V DC	FUFFM: On/Off
	11	EXIT_FAN	I	0/24 V DC	EFFM: On/Off
	12	VIB_MOT_FAN	I	0/24 V DC	VM: On/Off
	13	JUNC_SOL_REM	I	0/24 V DC	FSSOL: On/Off (ACT)
	14	JUNC_SOL_RET	I	0/24 V DC	FSSOL: On/Off (RET)



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b>	15	GND	-	-	Ground
Connected to engine PWB	16	EXIT_MAIN_SEN S	O	0/3.3 V DC	EFS1: On/Off
	17	EXIT_FEED_SEN S	O	0/3.3 V DC	SBS: On/Off
	18	SB_MOT_REM	I	0/3.3 V DC	EM: On/Off
	19	SB_MOT_PH	I	0/3.3 V DC	EM control signal
	20	SB_MOT_CLK	I	0/3.3 V DC (pulse)	EM clock signal
	21	SB_MOT_PD	I	0/3.3 V DC	EM control signal
	22	SB_MOT_DIR	I	0/3.3 V DC	EM drive switch signal
	23	GND	-	-	Ground
	24	WT_VCONT_FUL L	I	0/3.3 V DC	WTS1 control signal
	25	THOP_DIR	-	-	Not used
	26	DLP_FAN_CLR_ H	I	0/24 V DC	DEVFM1: On/Off
	27	DLP_FAN_CLR_L	I	0/24 V DC	DEVFM1: On/Off
	28	WTNR_FULL	O	Analog	WTS1 detection signal
	29	WTNR_NEAR	O	Analog	WTS2 detection signal
	30	WTNR_VCONT	I	0/3.3 V DC	WTS2 control signal
	31	GND	-	-	Ground
	32	WTNR_LED	I	0/3.3 V DC	WTS1 control signal
	33	THOP_MOT_Y_D IR	-	-	Not used
	34	THOP_MOT_C_D IR	-	-	Not used
	35	THOP_MOT_BK_ DIR	-	-	Not used
	36	EXIT_SUB_SENS	O	0/3.3 V DC	EFS2: On/Off
	37	THOP_MOT_Bk_ REM	-	-	Not used
	38	THOP_MOT_M_R EM	-	-	Not used
	39	THOP_MOT_C_R EM	-	-	Not used
	40	THOP_MOT_Y_R EM	-	-	Not used
	41	GND	-	-	Ground
	42	ENCODE_Bk	-	-	Not used
	43	ENCODE_M	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b> Connected to engine PWB	44	ENCODE_C	-	-	Not used
	45	ENCODE_Y	-	-	Not used
	46	THOP_Bk	-	-	Not used
	47	THOP_M	-	-	Not used
	48	THOP_C	-	-	Not used
	49	THOP_Y	-	-	Not used
	50	GND	-	-	Ground
<b>YC4</b> Connected to fuser front fan motor and eject front fan motor	1	5V	-	-	Not used
	2	LED1	-	-	Not used
	3	5V	-	-	Not used
	4	LED2	-	-	Not used
	5	IH_COIL_FAN_ALARM	I	0/3.3 V DC	FUFFM alarm signal
	6	GND	-	-	Ground
	7	IH_COIL_FAN	O	0/24 V DC	FUFFM: On/Off
	8	24V	O	24 V DC	24 V DC power to EFFM
	9	EXIT FAN	O	0/24 V DC	EFFM: On/Off
<b>YC5</b> Connected to eject unit	1	ROT_CORE A	-	-	Not used
	2	ROT_CORE B	-	-	Not used
	3	ROT_CORE A/	-	-	Not used
	4	ROT_CORE B/	-	-	Not used
	5	GND	-	-	Ground
	6	EXIT_SUB_SENS	I	0/3.3 V DC	EFS2: On/Off
	7	5V	O	DC5V	5V DC power to EFS2
	8	SB_MOT B/	O	0/24 V DC (pulse)	EM drive control signal
	9	SB_MOT A/	O	0/24 V DC (pulse)	EM drive control signal
	10	SB_MOT B	O	0/24 V DC (pulse)	EM drive control signal
	11	SB_MOT A	O	0/24 V DC (pulse)	EM drive control signal
	12	GND	-	-	Ground
	13	EXIT_FEED_SENS	I	0/3.3 V DC	SBS: On/Off
	14	5V	O	5 V DC	5 V DC power to SBS
	15	GND	-	-	Ground
	16	EXIT_PAPER_SENS	I	0/3.3 V DC	EFS1: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC5</b> Connected to eject unit	17	5V	O	5 V DC	5 V DC power to EFS1
	18	+24V1	O	24 V DC	24 V DC power to FSSOL
	19	JUNC_SOL_KYU	O	0/24 V DC	FSSOL: On/Off (ACT)
	20	JUNC_SOL_FUK	O	0/24 V DC	FSSOL: On/Off (RET)
<b>YC6</b> Connected to developer fan motor 1/2	1	24V	O	24 V DC	24 V DC power to DEVFM2
	2	DLP_FAN_Bk	O	0/24 V DC	DEVFM2: On/Off
	3	24V	O	24 V DC	24 V DC power to DEVFM1
	4	DLP_FAN_M	O	0/24 V DC	DEVFM1: On/Off
<b>YC7</b> Connected to drum unit K	1	3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-K
	2	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	4	GND	-	-	Ground
	5	DRM_ADR0_Bk	-	-	Not used
	6	DRM_ADR1_Bk	-	-	Not used
	7	24V	O	24 V DC	24 V DC power to CL-K
	8	ERS_Bk_REM	O	0/24 V DC	CL-K: On/Off
<b>YC8</b> Connected to waste toner sensor 1/2	1	5V	O	5 V DC	5 V DC power to WTS1
	2	WTNR_FULL	I	Analog	WTS1 detection signal
	3	WTNR_LED	O	0/3.3 V DC (pulse)	WTS1 LED emitter signal
	4	5V_LED	O	5 V DC	5 V DC power to WTS1
	5	GND	-	-	Ground
	6	WTNR_NEAR	I	Analog	WTS2 detection signal
	7	5V	O	5 V DC	5 V DC power to WTS2
	8	WTNR_SP	-	-	Not used
	9	WTNR_LED	-	-	Not used
	10	5V_LED	-	-	Not used

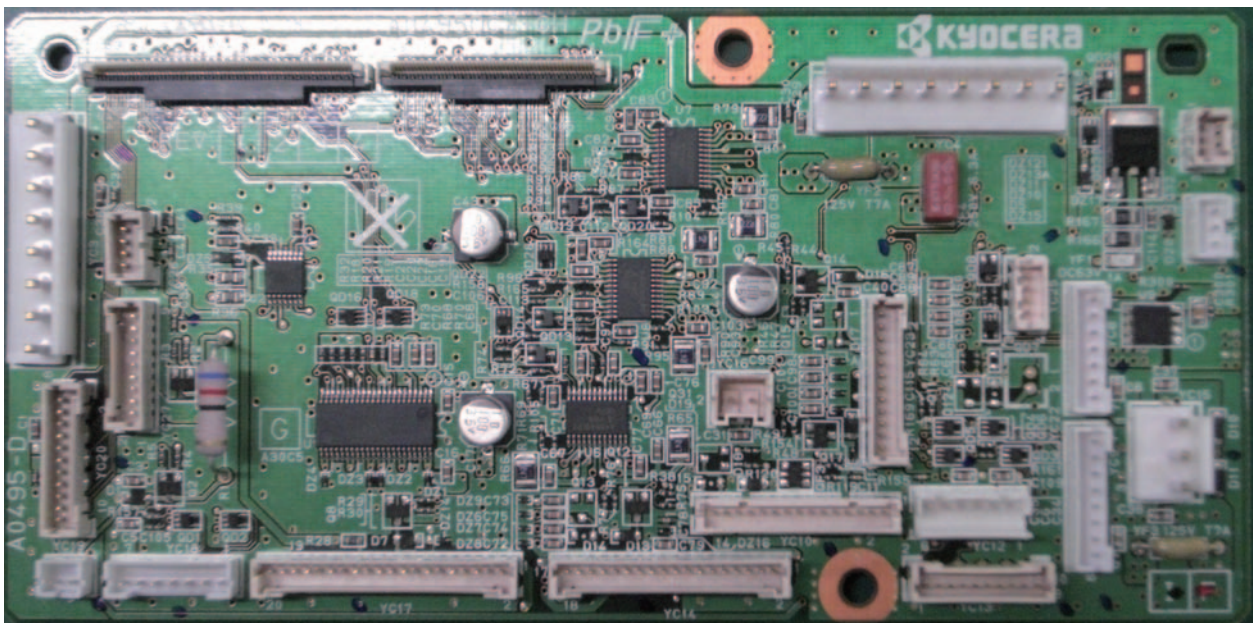
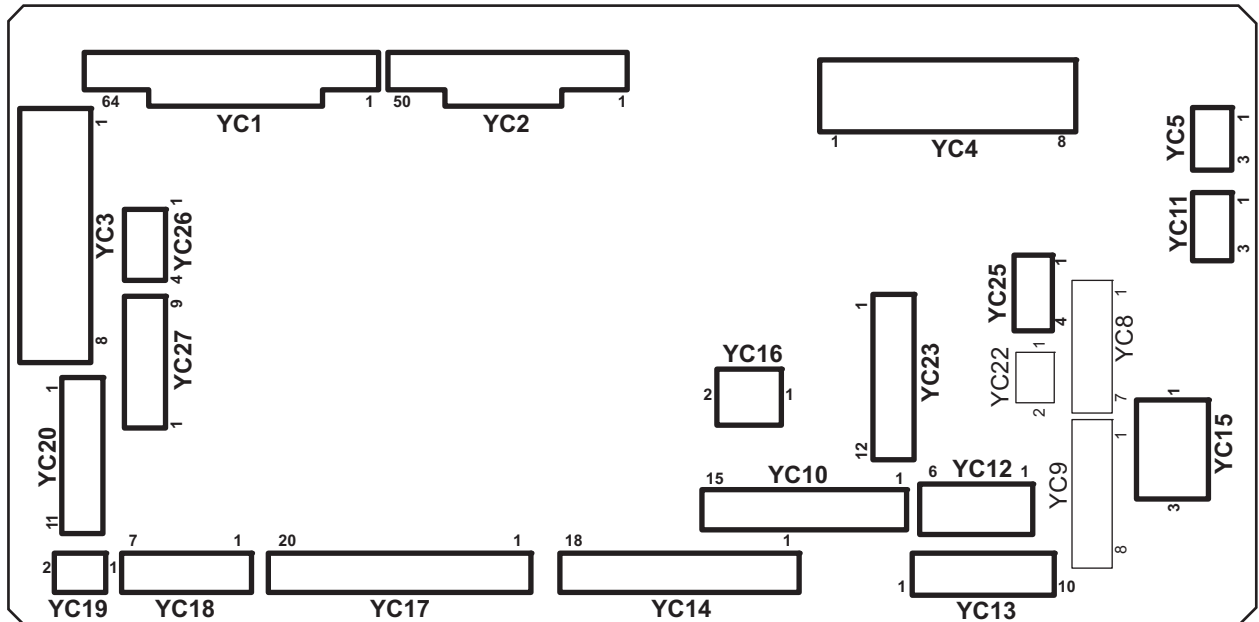
Connector	Pin	Signal	I/O	Voltage	Description
<b>YC9</b>	1	TPD_TEMP_BK	I	Analog	Developer thermistor K detection signal
Connected to developer unit K	2	DLP_VCONT_BK_1	O	0/3.3 V DC	DEVPWB-K control signal
	3	TPD_BK_1	I	Analog	DEVPWB-K detection signal
	4	TN_CLK_BK	O	0/3.3 V DC (pulse)	Clock signal
	5	GND	-	-	Ground
	6	DLP_ADR1_BK	-	-	Not used
	7	DLP_ADR0_BK	-	-	Not used
	8	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	9	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	10	3.3V2	O	3.3 V DC	3.3 V DC power to TS-K
	11	3V	O	3.3 V DC	3.3 V DC power to VM-K
	12	VIB_MOT	O	0/24 V DC	VM-K: On/Off
	<b>YC10</b>	1	3.3V2	O	3.3 V DC
Connected to drum unit M	2	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	4	GND	-	-	Ground
	5	DRM_ADR0_M	-	-	Not used
	6	DRM_ADR1_M	-	-	Not used
	7	24V	O	24 V DC	24 V DC power to CL-M
	8	ERS_M_REM	O	0/24 V DC	CL-M: On/Off
	<b>YC11</b>	1	TPD_TEMP_M	I	Analog
Connected to developer unit M	2	DLP_VCONT_M_1	O	0/3.3 V DC	DEVPWB-M control signal
	3	TPD_M_1	I	Analog	DEVPWB-M detection signal
	4	TN_CLK_M	O	0/3.3 V DC (pulse)	Clock signal
	5	GND	-	-	Ground
	6	DLP_ADR1_M	-	-	Not used
	7	DLP_ADR0_M	-	-	Not used
	8	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	9	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	10	3.3V2	O	3.3 V DC	3.3 V DC power to TS-M
	11	3V	O	3.3 V DC	3.3 V DC power to VM-M
	12	VIB_MOT	O	0/24 V DC	VM-M: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC12</b> Connected to drum unit C	1	3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-C
	2	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	4	GND	-	-	Ground
	5	DRM_ADR0_C	-	-	Not used
	6	DRM_ADR1_C	-	-	Not used
	7	24V	O	24 V DC	24 V DC power to CL-C
	8	ERS_C_REM	O	0/24 V DC	CL-C: On/Off
<b>YC13</b> Connected to developer unit C	1	TPD_TEMP_C	I	Analog	Developer thermistor C detection signal
	2	DLP_VCONT_C_1	O	0/3.3 V DC	DEVPWB-C control signal
	3	TPD_C_1	I	Analog	DEVPWB-C detection signal
	4	TN_CLK_C	O	0/3.3 V DC (pulse)	Clock signal
	5	GND	-	-	Ground
	6	DLP_ADR1_C	-	-	Not used
	7	DLP_ADR0_C	-	-	Not used
	8	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	9	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	10	3.3V2	O	3.3 V DC	3.3 V DC power to TS-C
	11	3V	O	3.3 V DC	3.3 V DC power to VM-C
	12	VIB_MOT	O	0/24 V DC	VM-C: On/Off
<b>YC14</b> Connected to drum unit Y	1	3.3V2	O	3.3 V DC	3.3 V DC power to DRPWB-Y
	2	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	3	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	4	GND	-	-	Ground
	5	DRM_ADR0_Y	-	-	Not used
	6	DRM_ADR1_Y	-	-	Not used
	7	24V	O	24 V DC	24 V DC power to CL-Y
	8	ERS_Y_REM	O	0/24 V DC	CL-Y: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC15</b>  Connected to developer unit Y	1	TPD_TEMP_Y	I	Analog	Developer thermistor Y detection signal
	2	DLP_VCONT_Y_1	O	0/3.3 V DC	DEVPWB-Y control signal
	3	TPD_Y_1	I	Analog	DEVPWB-Y detection signal
	4	TN_CLK_Y	O	0/3.3 V DC (pulse)	Clock signal
	5	GND	-	-	Ground
	6	DLP_ADR1_Y	-	-	Not used
	7	DLP_ADR0_Y	-	-	Not used
	8	EEP_SDA1	I/O	0/3.3 V DC (pulse)	EEPROM data signal
	9	EEP_SCL1	O	0/3.3 V DC (pulse)	EEPROM clock signal
	10	3.3V2	O	3.3 V DC	3.3 V DC power to TS-Y
	11	3V	O	3.3 V DC	3.3 V DC power to VM-Y
	12	VIB_MOT	O	0/24 V DC	VM-Y: On/Off
<b>YC16</b>  Connected to outer temperature sensor 1, front cover switch, LSU fan motor and waste toner motor	1	NC	-	-	Not used
	2	NC	-	-	Not used
	3	NC	-	-	Not used
	4	NC	-	-	Not used
	5	FRONT_OPEN	I	0/3.3 V DC	FRCSW: On/Off
	6	GND	-	-	Ground
	7	24V	O	24 V DC	24 V DC power to LSUFM
	8	LSU_FAN_OUT	O	DC0V/24V	LSUFM: On/Off
	9	CL_MOT1	O	DC0V/24V	WTM: On/Off
	10	CL_MOT2	O	24 V DC	24 V DC power to WTM
	11	GND	-	-	Ground
<b>YC17</b>  Connected to eject front fan motor 2	1	GND	-	-	Not used
	2	LED1	-	-	Not used
	3	5V	-	-	Not used
	4	LED2	-	-	Not used
	5	IH_COIL_FAN_ALM	-	-	Not used
	6	GND	-	-	Not used
	7	IH_COIL_FAN	-	-	Not used
	8	24V	O	DC24V	24 V DC power to EFFM2
	9	EXIT_FAN	O	DC0V/24V	EFFM2: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC19</b>	1	3.3V1	O	3.3 V DC	3.3 V DC power to OTEMS2
Connected to outer temper- ature sensor 2	2	I2C_SDA	I	0/3.3 V DC (pulse)	EEPROM data signal
	3	GND	-	-	Ground
	4	I2C_SCL	O	0/3.3 V DC (pulse)	EEPROM clock signal

### 2-3-5 Feed PWB 1



\* : Refer to the picture.

Figure 2-3-5 Feed PWB 1 silk-screen diagram and photograph



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b>	1	GND	-	-	Ground
Connected to engine PWB	2	REG_F_LED	I	Analog	IDS1 control signal
	3	REG_SENS_F_P	O	Analog	IDS1 detection signal
	4	REG_SENS_F_S	O	Analog	IDS1 detection signal
	5	GND	-	-	Ground
	6	REG_R_LED	I	Analog	IDS2 control signal
	7	REG_SENS_RP(BK)	O	Analog	IDS2 detection signal
	8	REG_SENS_RS(BK)	O	Analog	IDS2 detection signal
	9	CLN_SOL_REM	I	0/24 V DC	CLSOL: On/Off (ACT)
	10	CLN_SOL_RET	I	0/24 V DC	CLSOL: On/Off (RET)
	11	GND	-	-	Ground
	12	BELT_JAM_SENS	-	-	Not used
	13	DU_SENS	O	0/3.3 V DC	DUS2: On/Off
	14	PRESS_RLS_SENS	O	0/3.3 V DC	TRRS: On/Off
	15	PRESS_MOT_REM2	I	0/24 V DC	TRRM: On/Off
	16	PRESS_MOT_REM1	I	0/24 V DC	TRRM: On/Off
	17	DU_FAN	-	-	Not used
	18	DU_OPEN	O	0/3.3 V DC	DUCSW: On/Off
	19	GND	-	-	Ground
	20	DU2_REM(CLLOW)	I	0/3.3 V DC	DUM2/DUCL2: On/Off
	21	DU2_CLK	I	0/3.3 V DC (pulse)	DUM2 clock signal
	22	DU2_PD	I	0/3.3 V DC	DUM2 control signal
	23	INTER_LOCK	-	-	Not used
	24	GND	-	-	Not used
	25	GND	-	-	Not used
	26	GND	-	-	Not used
	27	GND	-	-	Not used
	28	GND	-	-	Ground
	29	MPF_LIFT1	I	0/24 V DC	MPLM: On/Off
	30	MPF_LIF2	I	0/24 V DC	MPLM: On/Off
	31	MPF_CL	I	0/24 V DC	MPPFCL: On/Off
	32	MPF_JAM	O	0/3.3 V DC	MPFS: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC1	33	MPF_DOWN	O	0/3.3 V DC	MPLS2: On/Off
Connected to engine PWB	34	MPF_UP	O	0/3.3 V DC	MPLS1: On/Off
	35	MPF_PPR	O	0/3.3 V DC	MPPS: On/Off
	36	GND	-	-	Ground
	37	MPF_LNG	O	0/3.3 V DC	MPPLSW: On/Off
	38	MPF_WID3	O	0/3.3 V DC	MPPWSW: On/Off
	39	MPF_WID2	O	0/3.3 V DC	MPPWSW: On/Off
	40	MPF_WID1	O	0/3.3 V DC	MPPWSW: On/Off
	41	MPF_TABLE	O	0/3.3 V DC	MPTSW: On/Off
	42	GND	-	-	Ground
	43	FSR_MOT_BRK	I	0/3.3 V DC	FUM break signal
	44	FSR_MOT_DIR	I	0/3.3 V DC	FUM drive switch signal
	45	FSR_MOT_RDY	O	0/3.3 V DC	FUM ready signal
	46	FSR_MOT_CLK	I	0/3.3 V DC (pulse)	FUM clock signal
	47	FSR_MOT_REM	I	0/3.3 V DC	FUM: On/Off
	48	GND	-	-	Ground
	49	GND	-	-	Ground
	50	EXIT_REAR_FAN_H	I	0/24 V DC	ERFM: On/Off
	51	EXIT_REAR_FAN_L	I	0/24 V DC	ERFM: On/Off
	52	PRESS_REM	-	-	Not used
	53	FSR_RELAY	I	0/3.3 V DC	Fuser relay signal
	54	ZEROC	-	-	Not used
	55	SUB_HEAT_REM	-	-	Not used
	56	MAIN_HEAT_REM	-	-	Not used
	57	GND	-	-	Ground
	58	JOB_SOL_REM	I	0/24 V DC	JSFSSOL: On/Off
	59	JOB_OPEN_SENS	O	0/3.3 V DC	JSOCS: On/Off
	60	JOB_MOT_DIR	I	0/3.3 V DC	JSEM drive switch signal
	61	JOB_MOT_CLK	I	0/3.3 V DC (pulse)	JSEM clock signal
	62	JOB_MOT_REM	I	0/3.3 V DC	JSEM: On/Off
	63	JOB_SET	O	0/3.3 V DC	Job separator set signal
	64	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC2</b>	1	GND	-	-	Ground
Connected to engine PWB	2	GND	-	-	Ground
	3	DRM_HEAT_REM	-	-	Not used
	4	POWER_OFF	I	0/3.3 V DC	Power off signal
	5	IH_PWB_FAN_ALARM	O	0/3.3 V DC	IHFM alarm signal
	6	IH_PWB_FAN_H	I	0/24 V DC	IHFM: On/Off
	7	IH_PWB_FAN_L	-	-	Not used
	8	GND	-	-	Ground
	9	REG_MOT_REM(CL)	I	0/3.3 V DC	RM/RCL: On/Off
	10	REG_MOT_CLK	I	0/3.3 V DC (pulse)	RM clock signal
	11	REG_MOT_PD	I	0/3.3 V DC	RM control signal
	12	GND	-	-	Ground
	13	DLP_MOT_CLR_DIR	-	-	Not used
	14	DLP_MOT_CLR_RDY	-	-	Not used
	15	DLP_MOT_CLR_CLK	-	-	Not used
	16	DLP_MOT_CLR_REM	-	-	Not used
	17	GND	-	-	Ground
	18	DRM_MOT_CLR_DIR	-	-	Not used
	19	DRM_MOT_CLR_RDY	-	-	Not used
	20	DRM_MOT_BK_CLR_CLK	-	-	Not used
	21	DRM_MOT_CLR_REM	-	-	Not used
	22	GND	-	-	Ground
	23	DLP_MOT_BK_DIR	-	-	Not used
	24	DLP_MOT_BK_RDY	-	-	Not used
	25	DLP_MOT_BK_CLR_CLK	-	-	Not used
	26	DLP_MOT_BK_REM	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
YC2	27	GND	-	-	Ground
Connected to engine PWB	28	DRM_MOT_BK_B RK	-	-	Not used
	29	DRM_MOT_BK_D IR	-	-	Not used
	30	DRM_MOT_BK_R DY	-	-	Not used
	31	DRM_MOT_BK_R EM	-	-	Not used
	32	GND	-	-	Ground
	33	TRANS_MOT_BR K	I	0/3.3 V DC	TRCM break signal
	34	TRANS_MOT_DI R	I	0/3.3 V DC	TRCM drive switch signal
	35	TRANS_MOT_RD Y	O	0/3.3 V DC	TRCM ready signal
	36	TRANS_MOT_CL K	I	0/3.3 V DC (pulse)	TRCM clock signal
	37	TRANS_MOT_RE M	I	0/3.3 V DC	TRCM: On/Off
	38	GND	-	-	Ground
	39	TCON_SET	-	-	Not used
	40	DU_ENTER_SEN S	O	0/3.3 V DC	DUS1: On/Off
	41	EXIT_FAN	I	0/24 V DC	EFM: On/Off
	42	GND	-	-	Ground
	43	DU1_MOT_REM( CL_H)	I	0/3.3 V DC	DUM1/DUCL1: On/Off
	44	DU1_MOT_CLK	I	0/3.3 V DC (pulse)	DUM1 clock signal
	45	DU1_MOT_PD	I	0/3.3 V DC	DUM1 control signal
	46	EDGE_FAN_H	I	0/24 V DC	FUFM: On/Off
	47	GND	-	-	Ground
	48	LOOP_SENS	O	0/3.3 V DC	LPS: On/Off
	49	M_TEMP	-	-	Not used
	50	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b> Connected to engine PWB	1	24V1	O	24 V DC	24 V DC power to EPWB
	2	24V1	O	24 V DC	24 V DC power to EPWB
	3	GND	-	-	Ground
	4	GND	-	-	Ground
	5	12V	O	12 V DC	12 V DC power to EPWB
	6	GND	-	-	Ground
	7	5V	O	5 V DC	5 V DC power to EPWB
	8	GND	-	-	Ground
<b>YC4</b> Connected to power source PWB	1	24V1	I	24 V DC	24 V DC power from PSPWB
	2	24V1	I	24 V DC	24 V DC power from PSPWB
	3	24V1	I	24 V DC	24 V DC power from PSPWB
	4	12V	I	12 V DC	12 V DC power from PSPWB
	5	GND	-	-	Ground
	6	GND	-	-	Ground
	7	GND	-	-	Ground
	8	GND	-	-	Ground
<b>YC5</b> Connected to power source PWB	1	GND	-	-	Ground
	2	DRM_HEAT_REM	O	0/3.3 V DC	FH: On/Off
	3	POWER_OFF	O	0/3.3 V DC	Sleep mode signal: On/Off
<b>YC10</b> Connected to ID sensor1/2 and cleaning solenoid	1	GND	-	-	Ground
	2	M_TEMP	-	-	Not used
	3	3.3V	O	3.3 V DC	3.3 V DC power to IDS1
	4	REG_F_LED	O	Analog	IDS1 control signal
	5	GND	-	-	Ground
	6	REG_SENS_F_P	I	Analog	IDS1 detection signal
	7	REG_SENS_F_S	I	Analog	IDS1 detection signal
	8	3.3V	O	3.3 V DC	3.3 V DC power to IDS2
	9	REG_R_LED	O	Analog	IDS2 control signal
	10	GND	-	-	Ground
	11	REG_SENS_R_P	I	Analog	IDS2 detection signal
	12	REG_SENS_R_S	I	Analog	IDS2 detection signal
	13	24V	O	24 V DC	24 V DC power to CLSOL
	14	CLN_SOL_REM	O	0/24 V DC	CLSOL: On/Off (ACT)
	15	CLN_SOL_RET	O	0/24 V DC	CLSOL: On/Off (RET)

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC11</b> Connected to IH fan motor	1	IH_PWB_FAN	O	0/24 V DC	IHFM: On/Off
	2	GND	-	-	Ground
	3	IH_PWB_FAN_AL M	I	0/3.3 V DC	IHFM alarm signal
<b>YC12</b> Connected to feed PWB 2	1	24V2	O	24 V DC	24 V DC power to FPWB2
	2	24V2	O	24 V DC	24 V DC power to FPWB2
	3	5V	O	5 V DC	5 V DC power to FPWB2
	4	GND	-	-	Ground
	5	GND	-	-	Ground
	6	GND	-	-	Ground
<b>YC13</b> Connected to transfer motor	1	TRANS_MOT_BR K	O	0/3.3 V DC	TRM break signal
	2	TRANS_MOT_DI R	O	0/3.3 V DC	TRM drive switch signal
	3	TRANS_MOT_RD Y	I	0/3.3 V DC	TRM ready signal
	4	TRANS_MOT_CL K	O	0/3.3 V DC (pulse)	TRM clock signal
	5	TRANS_MOT_RE M	O	0/24 V DC	TRM: On/Off
	6	GND	-	-	Ground
	7	24V2	O	24 V DC	24 V DC power to TRM
	8	GND	-	-	Not used
	9	24V2	-	-	Not used
	10	TANK_SET	-	-	Not used
<b>YC14</b> Connected to relay PWB	1	REG_BK_LED	-	-	Not used
	2	REG_BK_SENS1 _P	-	-	Not used
	3	REG_BK_SENS1 _S	-	-	Not used
	4	BELT_JAM_SENS	-	-	Not used
	5	DU_SENS	I	0/3.3 V DC	DUS2: On/Off
	6	PRESS_RLS_SE NS	I	0/3.3 V DC	TRRS: On/Off
	7	5V	O	5 V DC	5 V DC power to RYPWB
	8	PRESS_RLSMOT 1	O	0/24 V DC	TRRM: On/Off
	9	PRESS_RLSMOT 2	O	0/24 V DC	TRRM: On/Off

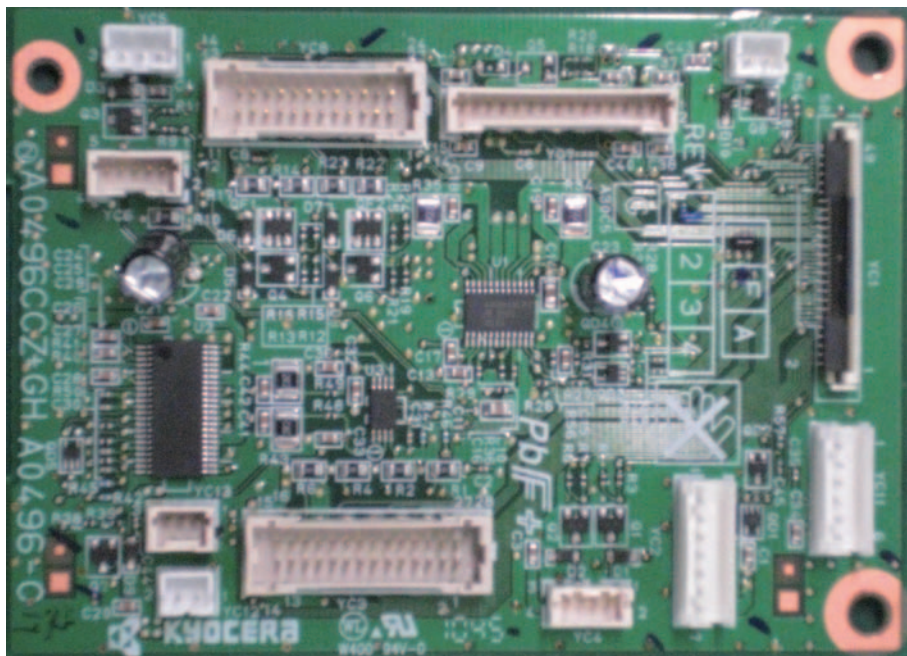
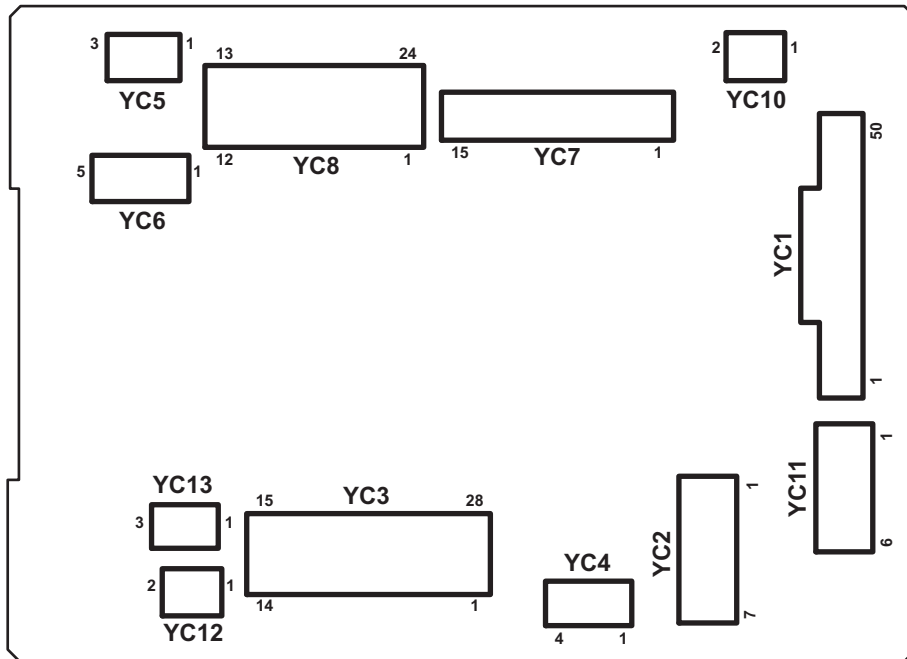
Connector	Pin	Signal	I/O	Voltage	Description
<b>YC14</b> Connected to relay PWB	10	24V2	O	24 V DC	24 V DC power to RYPWB
	11	DU_FAN	-	-	Not used
	12	DU_CL_LOWER_REM	O	0/24 V DC	DUCL2: On/Off
	13	DU_OPEN_SW	I	0/3.3 V DC	DUCSW: On/Off
	14	DU2_B/	O	0/24 V DC (pulse)	DUM2 drive control signal
	15	DU2_A/	O	0/24 V DC (pulse)	DUM2 drive control signal
	16	DU2_B	O	0/24 V DC (pulse)	DUM2 drive control signal
	17	DU2_A	O	0/24 V DC (pulse)	DUM2 drive control signal
	18	GND	-	-	Not used
<b>YC15</b> Connected to paper conveying unit switch	1	24V1	O	24 V DC	24 V DC power to PCUSW
	2	N.C	-	-	Not used
	3	24V2	I	24 V DC	24 V DC power from PCUSW
<b>YC16</b> Connected to high voltage PWB 2	1	24V2	O	24 V DC	24 V DC power to HVPWB2
	2	GND	-	-	Ground
<b>YC17</b> Connected to relay PWB	1	GND	-	-	Ground
	2	GND	-	-	Ground
	3	CLN_SOL_REM	-	-	Not used
	4	24V2	-	-	Not used
	5	MPF_LIFT_MOT_B	O	0/24 V DC	MPLM: On/Off
	6	MPF_LIFT_MOT_A	O	0/24 V DC	MPLM: On/Off
	7	24V2	O	24 V DC	24 V DC power to RYPWB
	8	MPF_CL_REM	O	0/24 V DC	MPPFCL: On/Off
	9	MPF_JAM_SENS	I	0/3.3 V DC	MPFS: On/Off
	10	MPF_LIFT_DOWN_SENS	I	0/3.3 V DC	MPLS2: On/Off
	11	MPF_LIFT_UP_SENS	I	0/3.3 V DC	MPLS1: On/Off
	12	MPF_PPR_SET	I	0/3.3 V DC	MPPS: On/Off
	13	LED_3.3V3	O	3.3 V DC	3.3 V DC power to RYPWB
	14	MPF_LNG	I	0/3.3 V DC	MPPLSW: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC17</b> Connected to relay PWB	15	MPF_WID3	I	0/3.3 V DC	MPPWSW: On/Off
	16	MPF_WID2	I	0/3.3 V DC	MPPWSW: On/Off
	17	MPF_WID1	I	0/3.3 V DC	MPPWSW: On/Off
	18	MPF_TABLE	I	0/3.3 V DC	MPTSW: On/Off
	19	GND	-	-	Ground
	20	GND	-	-	Ground
<b>YC18</b> Connected to fuser motor	1	FSR_MOT_BRK	O	0/3.3 V DC	FUM break signal
	2	FSR_MOT_DIR	O	0/3.3 V DC	FUM drive switch signal
	3	FSR_MOT_RDY	I	0/3.3 V DC	FUM ready signal
	4	FSR_MOT_CLK	O	0/3.3 V DC (pulse)	FUM clock signal
	5	FSR_MOT_REM	O	0/24 V DC	FUM: On/Off
	6	GND	-	-	Ground
	7	24V2	O	24 V DC	24 V DC power to FUM
<b>YC19</b> Connected to eject rear fan motor	1	EXIT_REAR_FAN	O	0/24 V DC	ERFM: On/Off
	2	24V1	O	24 V DC	24 V DC power to ERFM
<b>YC20</b> Connected to job separator	1	MAIL_SDI	I	0/3.3 V DC (pulse)	MAIL serial communication data
	2	GND	-	-	Ground
	3	GND	-	-	Ground
	4	NC	-	-	Not used
	5	24V1	O	24 V DC	24 V DC power to MAIL
	6	MAIL_CLK	O	0/3.3 V DC (pulse)	MAIL clock signal
	7	5V	O	5 V DC	5 V DC power to MAIL
	8	MAIL_SDO	O	0/3.3 V DC (pulse)	MAIL serial communication data
	9	MAIL_RDY	O	0/3.3 V DC	MAIL ready signal
	10	MAIL_SEL	O	0/3.3 V DC	MAIL select signal
	11	NC	-	-	Not used



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC23</b>	1	DU_ENTER_SEN S	I	0/3.3 V DC	DUS1: On/Off
Connected to relay PWB	2	EXIT_FAN	O	0/24 V DC	EFM: On/Off
	3	24V2	O	24 V DC	24 V DC power to RYPWB
	4	DU_CL_UPPER_ REM	O	0/24 V DC	DUCL1: On/Off
	5	GND	-	-	Ground
	6	DU1_B/	O	0/24 V DC (pulse)	DUM1 drive control signal
	7	DU1_A/	O	0/24 V DC (pulse)	DUM1 drive control signal
	8	DU1_B	O	0/24 V DC (pulse)	DUM1 drive control signal
	9	DU1_A	O	0/24 V DC (pulse)	DUM1 drive control signal
	10	EDGE_FAN_REM	O	0/24 V DC	FUFM: On/Off
	11	LOOP_SENS	I	0/3.3 V DC	LPS: On/Off
	12	3.3V	O	3.3 V DC	3.3 V DC power to RYPWB
<b>YC25</b>	1	REG_MOT_B/	O	0/24 V DC (pulse)	RM drive control signal
Connected to registration motor	2	REG_MOT_A/	O	0/24 V DC (pulse)	RM drive control signal
	3	REG_MOT_B	O	0/24 V DC (pulse)	RM drive control signal
	4	REG_MOT_A	O	0/24 V DC (pulse)	RM drive control signal
<b>YC26</b>	1	3.3V2	O	3.3 V DC	3.3 V DC power to EPWB
Connected to engine PWB	2	3.3V3	O	3.3 V DC	3.3 V DC power to EPWB
	3	GND	-	-	Ground
	4	GND	-	-	Ground
<b>YC27</b>	1	MAIN_HEAT_RE M	-	-	Not used
Connected to fuser IH PWB	2	SUB_HEAT_REM	-	-	Not used
	3	24V2	-	-	Not used
	4	ZEROC	-	-	Not used
	5	GND	-	-	Not used
	6	GND	-	-	Ground
	7	FSR_RELAY	O	0/3.3 V DC	Fuser relay signal
	8	24V1	O	24 V DC	24 V DC power to IHPWB
	9	PRESS_REM	-	-	Not used

### 2-3-6 Feed PWB 2



\* : Refer to the picture.

**Figure 2-3-6 Feed PWB 2 silk-screen diagram and photograph**

Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	GND	-	-	Ground
Connected to engine PWB	2	FEED_MOT_REM	I	0/3.3 V DC	PFM: On/Off
	3	FEED_MOT_CLK	I	0/3.3 V DC (pulse)	PFM clock signal
	4	FEED_MOT_RDY	O	0/3.3 V DC	PFM ready signal
	5	FEED_MOT_DIR	I	0/3.3 V DC	PFM drive switch signal
	6	FEED_CL1_REM	I	0/24 V DC	PFCL1: On/Off
	7	FEED_CL2_REM	I	0/24 V DC	PFCL2: On/Off
	8	ASIST_CL2	I	0/24 V DC	ASCL2: On/Off
	9	LIFT_MOT2_REM	I	0/24 V DC	LM2: On/Off
	10	GND	-	-	Ground
	11	LIFT_MOT1_REM 1	I	0/24 V DC	LM1: On/Off
	12	CAS2_WID	O	0/3.3 V DC	PWSW2: On/Off
	13	CAS2_LNG3	O	0/3.3 V DC	PLSW2: On/Off
	14	CAS2_LNG2	O	0/3.3 V DC	PLSW2: On/Off
	15	CAS2_LNG1	O	0/3.3 V DC	PLSW2: On/Off
	16	CAS1_WID	O	0/3.3 V DC	PWSW1: On/Off
	17	CAS1_LNG3	O	0/3.3 V DC	PLSW1: On/Off
	18	CAS1_LNG2	O	0/3.3 V DC	PLSW1: On/Off
	19	CAS1_LNG1	O	0/3.3 V DC	PLSW1: On/Off
	20	GND	-	-	Ground
	21	CAS2_QUANT2	O	0/3.3 V DC	PGS2(L): On/Off
	22	CAS2_QUANT1	O	0/3.3 V DC	PGS2(U): On/Off
	23	CAS1_QUANT2	O	0/3.3 V DC	PGS1(L): On/Off
	24	CAS1_QUANT1	O	0/3.3 V DC	PGS1(U): On/Off
	25	LIFT_MOT1_LOCK	O	0/3.3 V DC	LM1 lock signal
	26	LIFT_MOT2_LOCK	O	0/3.3 V DC	LM2 lock signal
	27	CURRENT_SIG	O	0/3.3 V DC	Current signal
	28	V-FEED_CL	I	0/24 V DC	PCCL: On/Off
	29	COVER_OPEN	O	0/3.3 V DC	PCCSW: On/Off
	30	FEED2_SENS	O	0/3.3 V DC	PFPCS1: On/Off
	31	CAS1_P0	O	0/3.3 V DC	FS1: On/Off
	32	CAS1_LIFT_UP	O	0/3.3 V DC	LS1: On/Off
	33	GND	-	-	Ground
	34	CAS1_EMPTY	O	0/3.3 V DC	PS1: On/Off

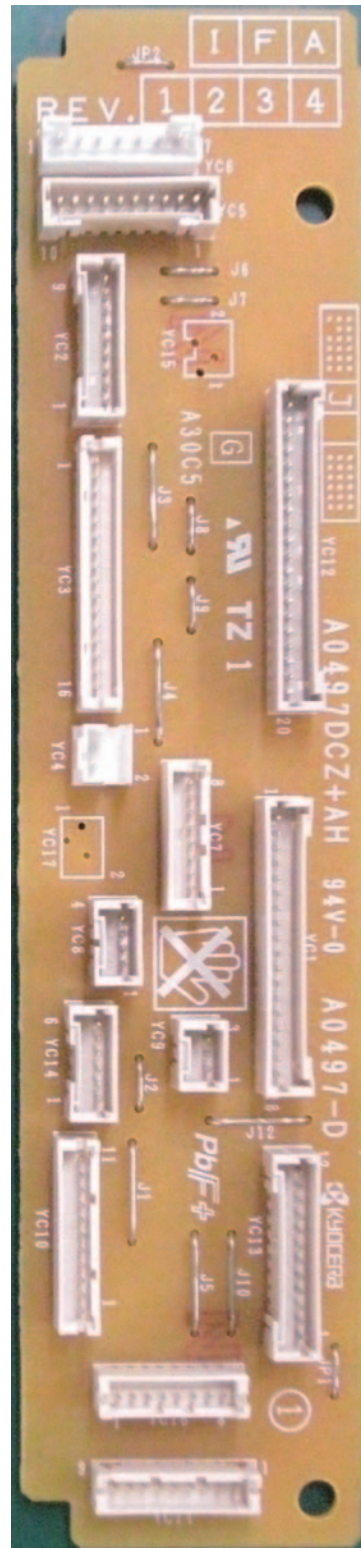
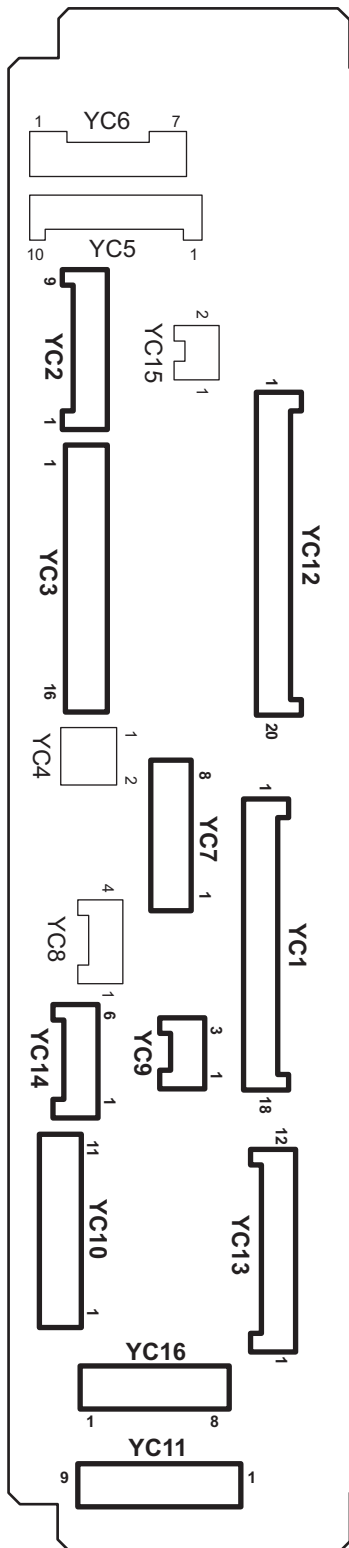
Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b> Connected to engine PWB	35	PICK_SOL1_RET	I	0/24 V DC	PUSOL1: On/Off (RET)
	36	PICK_SOL1_REM	I	0/24 V DC	PUSOL1: On/Off (ACT)
	37	CAS2_P0	O	0/3.3 V DC	FS2: On/Off
	38	CAS2_LIFT_UP	O	0/3.3 V DC	LS2: On/Off
	39	CAS2_EMPTY	O	0/3.3 V DC	PS2: On/Off
	40	PICK_SOL2_RET	I	0/24 V DC	PUSOL2: On/Off (RET)
	41	PICK_SOL2_REM	I	0/24 V DC	PUSOL2: On/Off (ACT)
	42	GND	-	-	Ground
	43	REG_SENS	O	0/3.3 V DC	RS: On/Off
	44	FEED1_SENS	O	0/3.3 V DC	PCS: On/Off
	45	BEND_SENS	O	0/3.3 V DC	RDS: On/Off
	46	MID_MOT_PH	I	0/3.3 V DC	MM control signal
	47	MID_MOT_REM(ROL_CL)	I	0/3.3 V DC	MM/MCL: On/Off
	48	MID_MOT_CLK	I	0/3.3 V DC (pulse)	MM clock signal
	49	MID_MOT_PD	I	0/3.3 V DC	MM control signal
	50	ASIST_CL1	I	0/24 V DC	ASCL1: On/Off
<b>YC2</b> Connected to paper feed motor	1	FEED_MOT_GAI N	-	-	Not used
	2	FEED_MOT_DIR	O	0/3.3 V DC	PFM drive switch signal
	3	FEED_MOT_RDY	I	0/3.3 V DC	PFM ready signal
	4	FEED_MOT_CLK	O	0/3.3 V DC (pulse)	PFM clock signal
	5	FEED_MOT_REM	O	0/24 V DC	PFM: On/Off
	6	GND	-	-	Ground
	7	24V2	O	24 V DC	24 V DC power to PFM
<b>YC3</b> Connected to paper length switch 1/2, paper width switch 1/2, lift motor 1/2, paper gauge sensor 1(U)/(L) and paper gauge sensor 2(U)/(L)	1	CAS1_LNG1	I	0/3.3 V DC	PLSW1: On/Off
	2	CAS1_LNG2	I	0/3.3 V DC	PLSW1: On/Off
	3	GND	-	-	Ground
	4	CAS1_LNG3	I	0/3.3 V DC	PLSW1: On/Off
	5	CAS1_WID	I	0/3.3 V DC	PWSW1: On/Off
	6	GND	-	-	Ground
	7	CAS2_LNG1	I	0/3.3 V DC	PLSW2: On/Off
	8	CAS2_LNG2	I	0/3.3 V DC	PLSW2: On/Off
	9	GND	-	-	Ground
	10	CAS2_LNG3	I	0/3.3 V DC	PLSW2: On/Off
	11	CAS2_WID	I	0/3.3 V DC	PWSW2: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b>	12	GND	-	-	Ground
Connected to paper length switch 1/2, paper width switch 1/2, lift motor 1/2, paper gauge sensor 1(U)/(L) and paper gauge sensor 2(U)/(L)	13	LIFT_MOT1_RET	O	0/24 V DC	LM1: On/Off
	14	LIFT_MOT1_DR	O	0/24 V DC	LM1: On/Off
	15	LIFT_MOT2_RET	O	0/24 V DC	LM2: On/Off
	16	LIFT_MOT2_DR	O	0/24 V DC	LM2: On/Off
	17	LED_5V	O	5 V DC	5 V DC power to PGS1(U)
	18	GND	-	-	Ground
	19	CAS1_QUANT1	I	0/3.3 V DC	PGS1(U): On/Off
	20	LED_5V	O	5 V DC	5 V DC power to PGS1(L)
	21	GND	-	-	Ground
	22	CAS1_QUANT2	I	0/3.3 V DC	PGS1(L): On/Off
	23	LED_5V	O	5 V DC	5 V DC power to PGS2(U)
	24	GND	-	-	Ground
	25	CAS2_QUANT1	I	0/3.3 V DC	PGS2(U): On/Off
	26	LED_5V	O	5 V DC	5 V DC power to PGS2(L)
	27	GND	-	-	Ground
	28	CAS2_QUANT2	I	0/3.3 V DC	PGS2(L): On/Off
<b>YC4</b>	1	FEED_CL1_REM	O	0/24 V DC	PFCL1: On/Off
Connected to paper feed clutch 1/2	2	24V2	O	24 V DC	PFCL124 V DC power to PFCL1
	3	FEED_CL2_REM	O	0/24 V DC	PFCL2: On/Off
	4	24V2	O	24 V DC	24 V DC power to PFCL2
<b>YC5</b>	1	NC	-	-	Not used
Connected to paper conveying clutch	2	24V2	O	24 V DC	24 V DC power to PCCL
	3	V-FEED_CL	O	0/24 V DC	PCCL: On/Off
<b>YC6</b>	1	LED_5V	O	5 V DC	5 V DC power to PCS
Connected to paper conveying sensor and paper conveying cover switch	2	GND	-	-	Ground
	3	FEED2_SENS	I	0/3.3 V DC	PCS: On/Off
	4	FEED_COVER_O PEN	I	0/3.3 V DC	PCCSW: On/Off
	5	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC7</b>	1	MID_B/	O	0/24 V DC (pulse)	MM drive control signal
Connected to middle motor, regist deflection sensor, middle sensor and registration sensor	2	MID_A/	O	0/24 V DC (pulse)	MM drive control signal
	3	MID_B	O	0/24 V DC (pulse)	MM drive control signal
	4	MID_A	O	0/24 V DC (pulse)	MM drive control signal
	5	BEND_SENS	I	0/3.3 V DC	RDS: On/Off
	6	GND	-	-	Ground
	7	5V	O	5 V DC	5 V DC power to RDS
	8	GND	-	-	Ground
	9	FEED1_SENS	I	0/3.3 V DC	MS: On/Off
	10	5V	O	5 V DC	5 V DC power to MS
	11	GND	-	-	Ground
	12	REG_SENS	I	0/3.3 V DC	RS: On/Off
	13	5V	O	5 V DC	5 V DC power to RS
	14	MID_CL_REM	O	0/24 V DC	MCL: On/Off
	15	24V2	O	24 V DC	24 V DC power to MCL
<b>YC8</b>	1	24V2	O	24 V DC	24 V DC power to PUSOL1
Connected to primary paper feed unit	2	PICK_SOL1_REM	O	0/24 V DC	PUSOL1: On/Off (ACT)
	3	PICK_SOL1_RET	O	0/24 V DC	PUSOL1: On/Off (RET)
	4	LED_5V	O	5 V DC	5 V DC power to PS1
	5	GND	-	-	Ground
	6	CAS1_EMPTY_SENS	I	0/3.3 V DC	PS1: On/Off
	7	LED_5V	O	5 V DC	5 V DC power to LS1
	8	GND	-	-	Ground
	9	CAS1_LIFT_UP_SENS	I	0/3.3 V DC	LS1: On/Off
	10	5V	O	5 V DC	5 V DC power to FS1
	11	CAS1_P0_SENS	I	0/3.3 V DC	FS1: On/Off
	12	GND	-	-	Ground
	13	24V2	O	24 V DC	24 V DC power to PUSOL2
	14	PICK_SOL2_REM	O	0/24 V DC	PUSOL2: On/Off (ACT)
	15	PICK_SOL2_RET	O	0/24 V DC	PUSOL2: On/Off (RET)
	16	LED_5V	O	5 V DC	5 V DC power to PS2
	17	GND	-	-	Ground
	18	CAS2_EMPTY_SENS	I	0/3.3 V DC	PS2: On/Off
	19	LED_5V	O	5 V DC	5 V DC power to LS2

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC8</b> Connected to primary paper feed unit	20	GND	-	-	Ground
	21	CAS2_LIFT_UP_SENS	I	0/3.3 V DC	LS2: On/Off
	22	5V	O	5 V DC	5 V DC power to FS2
	23	CAS2_P0_SENS	I	0/3.3 V DC	FS2: On/Off
	24	GND	-	-	Ground
<b>YC10</b> Connected to assist clutch 1	1	ASIST_CL1	O	0/24 V DC	ASCL1: On/Off
	2	24V2	O	24 V DC	24 V DC power to ASCL1
<b>YC11</b> Connected to feed PWB 1	1	GND	-	-	Ground
	2	GND	-	-	Ground
	3	GND	-	-	Ground
	4	5V	O	5 V DC	5 V DC power to FPWB1
	5	24V2	O	24 V DC	24 V DC power to FPWB1
	6	24V2	O	24 V DC	24 V DC power to FPWB1
<b>YC12</b> Connected to assist clutch 2	1	ASIST_CL2	O	0/24 V DC	ASCL2: On/Off
	2	24V2	O	24 V DC	24 V DC power to ASCL2
<b>YC13</b> Connected to current PWB	1	CURRENT_SIG	I	0/3.3 V DC	Current signal
	2	GND	-	-	Ground
	3	5V1	I	5 V DC	5 V DC power from CRPWB

### 2-3-7 Relay PWB



\* : Refer to the picture.

Figure 2-3-7 Relay PWB silk-screen diagram and photograph



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b>	1	GND	-	-	Not used
Connected to feed PWB 1	2	DU2_A	I	0/24 V DC (pulse)	DUM2 drive control signal
	3	DU2_B	I	0/24 V DC (pulse)	DUM2 drive control signal
	4	DU2_A/	I	0/24 V DC (pulse)	DUM2 drive control signal
	5	DU2_B/	I	0/24 V DC (pulse)	DUM2 drive control signal
	6	DU_OPEN_SW	O	0/3.3 V DC	DUCSW: On/Off
	7	DU_CL_LOWER_REM	I	0/24 V DC	DUCL2: On/Off
	8	DU_FAN	-	-	Not used
	9	24V2	I	24 V DC	24 V DC power from FPWB1
	10	PRESS_RLS_REM2	I	0/24 V DC	TRRM: On/Off
	11	PRESS_RLS_REM1	I	0/24 V DC	TRRM: On/Off
	12	5V	I	5 V DC	5 V DC power from FPWB1
	13	PRESS_RLS_SENS	O	0/3.3 V DC	TRRS: On/Off
	14	DU_SENS	O	0/3.3 V DC	DUS2: On/Off
	15	BELT_JAM_SENS	-	-	Not used
	16	REG_BK_SENS1_S	-	-	Not used
	17	REG_BK_SENS1_P	-	-	Not used
	18	REG_BK_LED	-	-	Not used
<b>YC2</b>	1	GND	-	-	Ground
Connected to MP tray unit	2	MPF_LNG	I	0/3.3 V DC	MPPLSW: On/Off
	3	5V	O	5 V DC	5 V DC power to MPPLSW
	4	MPF_WID3	I	0/3.3 V DC	MPPWSW: On/Off
	5	MPF_WID2	I	0/3.3 V DC	MPPWSW: On/Off
	6	GND	-	-	Ground
	7	MPF_WID1	I	0/3.3 V DC	MPPWSW: On/Off
	8	GND	-	-	Ground
	9	MPF_TABLE	I	0/3.3 V DC	MPTSW: On/Off

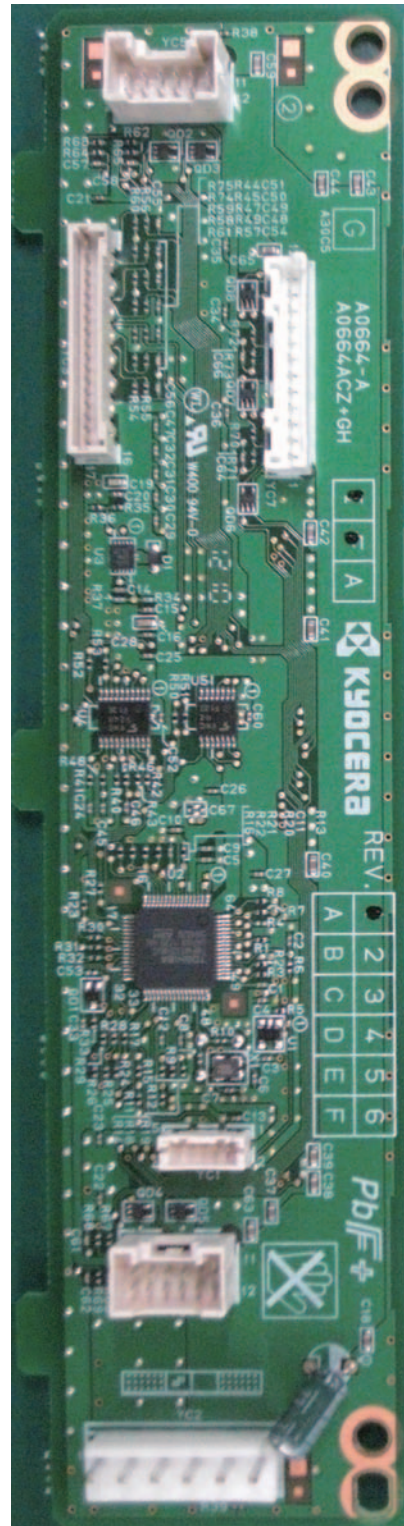
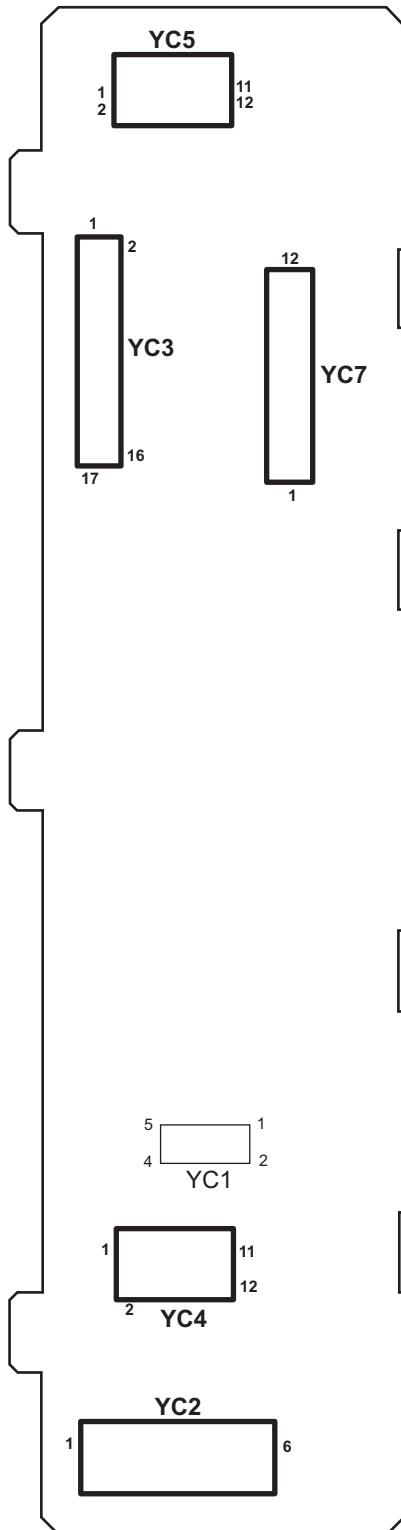
Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b> Connected to MP tray unit	1	LED_3.3V3	O	3.3 V DC	3.3 V DC power to MPPLSW
	2	GND	-	-	Ground
	3	MPF_PPR_SET	I	0/3.3 V DC	MPPS: On/Off
	4	GND	-	-	Ground
	5	MPF_LIFT_UP_SENS	I	0/3.3 V DC	MPLS1: On/Off
	6	5V	O	5 V DC	5 V DC power to MPLS1
	7	GND	-	-	Ground
	8	MPF_LIFT_DOWN_SENS	I	0/3.3 V DC	MPLS2: On/Off
	9	5V	O	5 V DC	5 V DC power to MPLS1
	10	GND	-	-	Ground
	11	MPF_JAM_SENS	I	0/3.3 V DC	MPFS: On/Off
	12	5V	O	5 V DC	5 V DC power to MPFS
	13	MPF_CL_REM	O	0/24 V DC	MPPFCL: On/Off
	14	24V2	O	24 V DC	24 V DC power to MPPFCL
	15	MPF_LIFT_DR_A	O	0/24 V DC	MPLM: On/Off
	16	MPF_LIFT_DR_B	O	0/24 V DC	MPLM: On/Off
<b>YC7</b> Connected to duplex clutch 2, duplex cover switch and duplex motor 2	1	24V2	-	-	Not used
	2	DU_CL2_REM	-	-	Not used
	3	DU_OPEN	I	0/3.3 V DC	DUCSW: On/Off
	4	GND	-	-	Ground
	5	DU2_B/	O	0/24 V DC (pulse)	DUM2 drive control signal
	6	DU2_A/	O	0/24 V DC (pulse)	DUM2 drive control signal
	7	DU2_B	O	0/24 V DC (pulse)	DUM2 drive control signal
	8	DU2_A	O	0/24 V DC (pulse)	DUM2 drive control signal
<b>YC9</b> Connected to duplex sensor 2	1	GND	-	-	Ground
	2	DU_SENS	I	0/3.3 V DC	DUS2: On/Off
	3	5V	O	5 V DC	5 V DC power to DUS2

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC10</b> Connected to loop sensor	1	LOOP_SENS	I	0/3.3 V DC	LPS: On/Off
	2	GND	-	-	Ground
	3	5V	O	5 V DC	5 V DC power to LPS
	4	3.3V	-	-	Not used
	5	REG_BK_LED	-	-	Not used
	6	GND	-	-	Not used
	7	REG_BK_SENS1_P	-	-	Not used
	8	REG_BK_SENS1_S	-	-	Not used
	9	GND	-	-	Not used
	10	BELT_JAM_SENS	-	-	Not used
	11	5V	-	-	Not used
<b>YC11</b> Connected to duplex sensor 1, eject fan motor and duplex clutch 1	1	GND	-	-	Ground
	2	DU_ENTER_SENS	I	0/3.3 V DC	DUS1: On/Off
	3	5V	O	5 V DC	5 V DC power to DUS1
	4	EXIT_FAN_REM	O	0/24 V DC	EFM1: On/Off
	5	24V2	O	24 V DC	24 V DC power to EFM1
	6	EXIT_FAN_REM	O	0/24 V DC	EFM2: On/Off
	7	24V2	O	24 V DC	24 V DC power to EFM2
	8	24V2	-	-	Not used
	9	DU_CL_UPPER_REM	-	-	Not used
<b>YC12</b> Connected to feed PWB 1	1	GND	-	-	Ground
	2	GND	-	-	Ground
	3	MPF_TABLE	O	0/3.3 V DC	MPTSW: On/Off
	4	MPF_WID1	O	0/3.3 V DC	MPPWSW: On/Off
	5	MPF_WID2	O	0/3.3 V DC	MPPWSW: On/Off
	6	MPF_WID3	O	0/3.3 V DC	MPPWSW: On/Off
	7	MPF_LNG	O	0/3.3 V DC	MPPLSW: On/Off
	8	LED_3.3V3	I	3.3 V DC	3.3 V DC power from FPWB1
	9	MPF_PPR_SET	O	0/3.3 V DC	MPPS: On/Off
	10	MPF_LIFT_UP_SENS	O	0/3.3 V DC	MPLS1: On/Off

Connector	Pin	Signal	I/O	Voltage	Description	
<b>YC12</b>	11	MPF_LIFT_DOW N_SENS	O	0/3.3 V DC	MPLS2: On/Off	
	Connected to feed PWB 1	12	MPF_JAM_SENS	O	0/3.3 V DC	MPFS: On/Off
		13	MPF_CL_REM	I	0/24 V DC	MPPFCL: On/Off
		14	24V2	I	24 V DC	24 V DC power from FPWB1
		15	MPF_LIFT_MOT_ A	I	0/24 V DC	MPLM: On/Off
		16	MPF_LIFT_MOT_ B	I	0/24 V DC	MPLM: On/Off
		17	24V2	-	-	Not used
		18	ID_SOL_ACT	-	-	Not used
		19	GND	-	-	Not used
		20	GND	-	-	Not used
<b>YC13</b>	1	3.3V	I	3.3 V DC	3.3 V DC power from FPWB1	
	Connected to feed PWB 1	2	LOOP_SENS	O	0/3.3 V DC	LPS: On/Off
		3	EDGE_FAN_REM	I	0/24 V DC	FUFM: On/Off
		4	DU1_A	I	0/24 V DC (pulse)	DUM1 drive control signal
		5	DU1_B	I	0/24 V DC (pulse)	DUM1 drive control signal
		6	DU1_A/	I	0/24 V DC (pulse)	DUM1 drive control signal
		7	DU1_B/	I	0/24 V DC (pulse)	DUM1 drive control signal
		8	GND	-	-	Ground
		9	DU_CL_UPPER_ REM	I	0/24 V DC	DUCL1: On/Off
		10	24V2	I	24 V DC	24 V DC power from FPWB1
		11	EXIT_FAN	I	0/24 V DC	EFM: On/Off
		12	DU_ENTER_SEN S	O	0/3.3 V DC	DUS1: On/Off
<b>YC14</b>	1	GND	-	-	Ground	
	Connected to transfer release sen- sor and transfer release motor	2	PRESS_RLS_SE NS	I	0/3.3 V DC	TRRS: On/Off
		3	5V	O	5 V DC	5 V DC power to TRRS
		4	PRESS_RLS_RE M1	O	0/24 V DC	TRRM: On/Off
		5	PRESS_RLS_RE M2	O	0/24 V DC	TRRM: On/Off
		6	NC	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC16</b>	1	DU1_B/	O	0/24 V DC (pulse)	DUM1 drive control signal
Connected to duplex motor 1 and fuser fan motor 1/2	2	DU1_A/	O	0/24 V DC (pulse)	DUM1 drive control signal
	3	DU1_B	O	0/24 V DC (pulse)	DUM1 drive control signal
	4	DU1_A	O	0/24 V DC (pulse)	DUM1 drive control signal
	5	EDGE_FAN_REM	O	0/24 V DC	FUFM1: On/Off
	6	24V2	O	24 V DC	24 V DC power to FUFM1
	7	EDGE_FAN_REM	O	0/24 V DC	FUFM2: On/Off
	8	24V2	O	24 V DC	24 V DC power to FUFM2

### 2-3-8 Motor control PWB



\* : Refer to the picture.

Figure 2-3-8 Motor control PWB silk-screen diagram and photograph

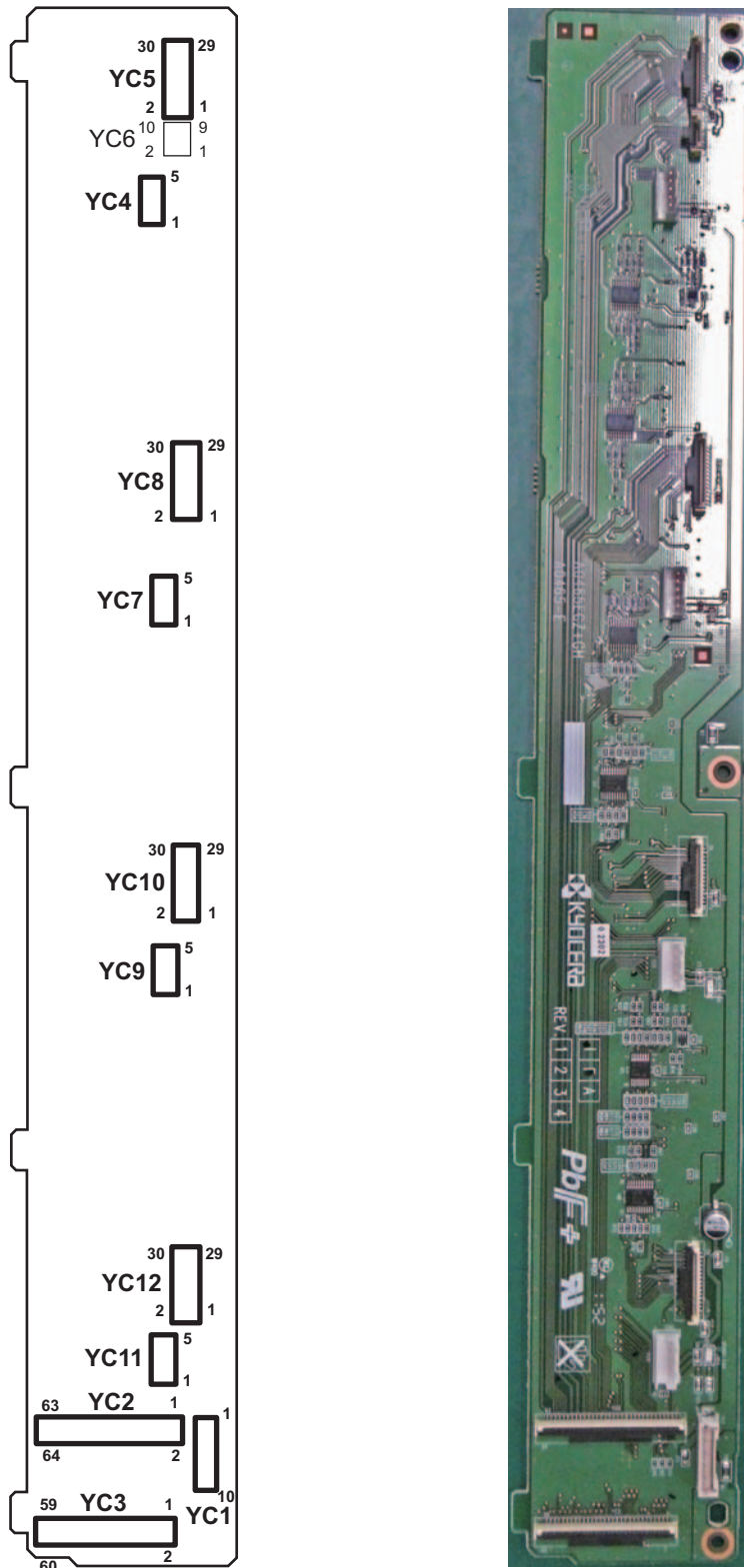
Connector	Pin	Signal	I/O	Voltage	Description
<b>YC2</b> Connected to power source PWB	1	PGND	-	-	Ground
	2	PGND	-	-	Ground
	3	PGND	-	-	Ground
	4	+24V1	I	24 V DC	24 V DC power from PSPWB
	5	+24V1	I	24 V DC	24 V DC power from PSPWB
	6	+24V1	I	24 V DC	24 V DC power from PSPWB
<b>YC3</b> Connected to engine PWB	1	BLT_SPEED	I	0/3.3 V DC	TBLS: On/Off
	2	EMERGENCY	I	0/3.3 V DC	MCPWB control signal
	3	ENG_RDY	O	0/3.3 V DC	MCPWB ready signal
	4	ENG_SDO	O	0/3.3 V DC (pulse)	MCPWB serial communication data signal
	5	ENG_SEL	I	0/3.3 V DC	MCPWB select signal
	6	ENG_SDI	I	0/3.3 V DC (pulse)	MCPWB serial communication data signal
	7	ENG_CLK	I	0/3.3 V DC (pulse)	MCPWB clock signal
	8	BLT_FG	-	-	Not used
	9	MOT_ON	I	0/3.3 V DC	MCPWB control signal
	10	MOT_DATA_SET	I	0/3.3 V DC	MCPWB control signal
	11	BLT_REM	-	-	Not used
	12	BLT_VM	-	-	Not used
	13	BLT_BRAKE	-	-	Not used
	14	+5V	I	5 V DC	5 V DC power to MCPWB
	15	+5V	I	5 V DC	5 V DC power to MCPWB
	16	SGND	-	-	Ground
	17	SGND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC4</b>	1	DRM_C_CW/ CCW	O	0/24 V DC	DRM-C: On/Off
Connected to drum motor C/Y	2	DRM_Y_CW/ CCW	O	0/24 V DC	DRM-Y: On/Off
	3	DRM_C_LD	O	0/3.3 V DC	DRM-C control signal
	4	DRM_Y_LD	O	0/3.3 V DC	DRM-Y control signal
	5	DRM_C_CLK	O	0/3.3 V DC (pulse)	DRM-C clock signal
	6	DRM_Y_CLK	O	0/3.3 V DC (pulse)	DRM-Y clock signal
	7	DRM_C_Start/ Stop	O	0/3.3 V DC	DRM-C control signal
	8	DRM_Y_Start/ Stop	O	0/3.3 V DC	DRM-Y control signal
	9	PGND	-	-	Ground
	10	PGND	-	-	Ground
	11	+24V1	O	24 V DC	24 V DC power to DRM-C
	12	+24V1	O	24 V DC	24 V DC power to DRM-Y
	<b>YC5</b>	1	DRM_BK_CW/ CCW	O	0/24 V DC
Connected to drum motor K/M	2	DRM_M_CW/ CCW	O	0/24 V DC	DRM-M: On/Off
	3	DRM_BK_LD	O	0/3.3 V DC	DRM-Bk control signal
	4	DRM_M_LD	O	0/3.3 V DC	DRM-M control signal
	5	DRM_BK_CLK	O	0/3.3 V DC (pulse)	DRM-Bk clock signal
	6	DRM_M_CLK	O	0/3.3 V DC (pulse)	DRM-M clock signal
	7	DRM_BK_Start/ Stop	O	0/3.3 V DC	DRM-Bk control signal
	8	DRM_M_Start/ Stop	O	0/3.3 V DC	DRM-M control signal
	9	PGND	-	-	Ground
	10	PGND	-	-	Ground
	11	+24V1	O	24 V DC	24 V DC power to DRM-K
	12	+24V1	O	24 V DC	24 V DC power to DRM-M



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC7</b>	1	DLP_CL_CW/ CCW	O	0/24 V DC	DEVM-CL: On/Off
Connected to developer motor CL/BK	2	DLP_CL_LD	O	0/3.3 V DC	DEVM-CL control signal
	3	DLP_CL_CLK	O	0/3.3 V DC (pulse)	DEVM-CL clock signal
	4	DLP_CL_Start/ Stop	O	0/3.3 V DC	DEVM-CL control signal
	5	PGND	-	-	Ground
	6	+24V1	O	24 V DC	24 V DC power to DEVM-CL
	7	DLP_BK_CW/ CCW	O	0/24 V DC	DEVM-BK: On/Off
	8	DLP_BK_LD	O	0/3.3 V DC	DEVM-BK control signal
	9	DLP_BK_CLK	O	0/3.3 V DC (pulse)	DEVM-BK clock signal
	10	DLP_BK_Start/ Stop	O	0/3.3 V DC	DEVM-BK control signal
	11	PGND	-	-	Ground
	12	+24V1	O	24 V DC	24 V DC power to DEVM-BK

### 2-3-9 LSU relay PWB



\* : Refer to the picture.

Figure 2-3-9 LSU relay PWB silk-screen diagram and photograph

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC1</b> Connected to power source PWB and engine PWB	1	+24V1	O	24 V DC	24 V DC power from PSPWB
	2	+24V1	O	24 V DC	24 V DC power from PSPWB
	3	PGND	-	-	Ground
	4	PGND	-	-	Ground
	5	+5V1	O	5 V DC	5 V DC power from EPWB
	6	+5V1	O	5 V DC	5 V DC power from EPWB
	7	GND	-	-	Ground
	8	GND	-	-	Ground
	9	+3.3V2	O	3.3 V DC	3.3 V DC power from EPWB
	10	PGND	-	-	Ground
<b>YC2</b> Connected to engine PWB	1	SGND	-	-	Ground
	2	CLK	I	0/3.3 V DC (pulse)	Clock signal
	3	SGND	-	-	Ground
	4	SDI	O	0/3.3 V DC (pulse)	Serial communication data signal
	5	SGND	-	-	Ground
	6	SDO	I	0/3.3 V DC (pulse)	Serial communication data signal
	7	SGND	-	-	Ground
	8	MSET_N	I	0/3.3 V DC	Control signal
	9	SGND	-	-	Ground
	10	LDD_CS Y	I	0/3.3 V DC	APCPWB-Y control signal
	11	EEPROM CS Y	I/O	0/3.3 V DC (pulse)	APCPWB-Y EEPROM data signal
	12	LDD_CS C	I	0/3.3 V DC	APCPWB-C control signal
	13	EEPROM CS C	I/O	0/3.3 V DC (pulse)	APCPWB-C EEPROM data signal
	14	LDD_CS M	I	0/3.3 V DC	APCPWB-M control signal
	15	EEPROM CS M	I/O	0/3.3 V DC (pulse)	APCPWB-M EEPROM data signal
	16	LDD_CS 2 Bk	I	0/3.3 V DC	APCPWB-K control signal
	17	EEPROM CS 2 Bk	I/O	0/3.3 V DC (pulse)	APCPWB-K EEPROM data signal
	18	LDD_CS 1 Bk	I	0/3.3 V DC	APCPWB-K control signal
	19	EEPROM CS 1 Bk	I/O	0/3.3 V DC (pulse)	APCPWB-K EEPROM data signal
	20	SGND	-	-	Ground
	21	INT_ST Y	I	0/3.3 V DC	APCPWB-Y control signal
	22	PALA_SIG P0 Y	I	0/3.3 V DC	APCPWB-Y control signal
	23	PALA_SIG P1 Y	I	0/3.3 V DC	APCPWB-Y control signal
	24	PALA_SIG P2 Y	I	0/3.3 V DC	APCPWB-Y control signal
	25	GAIN FIX Y	I	0/3.3 V DC	APCPWB-Y control signal
	26	SGND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC2</b>	27	DATA_2N_Y(LVDS)	I	0/3.3 V DC (pulse)	Video data signal Y (N)
Connected to engine PWB	28	DATA_2P_Y(LVDS)	I	0/3.3 V DC (pulse)	Video data signal Y (P)
	29	SGND	-	-	Ground
	30	INT_ST 1 C	I	0/3.3 V DC	APCPWB-C control signal
	31	PALA_SIG P0 C	I	0/3.3 V DC	APCPWB-C control signal
	32	PALA_SIG P1 C	I	0/3.3 V DC	APCPWB-C control signal
	33	PALA_SIG P2 C	I	0/3.3 V DC	APCPWB-C control signal
	34	GAIN FIX C	I	0/3.3 V DC	APCPWB-C control signal
	35	SGND	-	-	Ground
	36	DATA_2N_C(LVDS)	I	0/3.3 V DC (pulse)	Video data signal C (N)
	37	DATA_2P_C(LVDS)	I	0/3.3 V DC (pulse)	Video data signal C (P)
	38	SGND	-	-	Ground
	39	INT_ST M	I	0/3.3 V DC	APCPWB-M control signal
	40	PALA_SIG P0 M	I	0/3.3 V DC	APCPWB-M control signal
	41	PALA_SIG P1 M	I	0/3.3 V DC	APCPWB-M control signal
	42	PALA_SIG P2 M	I	0/3.3 V DC	APCPWB-M control signal
	43	GAIN FIX M	I	0/3.3 V DC	APCPWB-M control signal
	44	SGND	-	-	Ground
	45	DATA_2N_M(LVDS)	I	0/3.3 V DC (pulse)	Video data signal M (N)
	46	DATA_2P_M(LVDS)	I	0/3.3 V DC (pulse)	Video data signal M (P)
	47	SGND	-	-	Ground
	48	DATA_3NBk(LVDS)	I	0/3.3 V DC (pulse)	Video data signal K (N)
	49	DATA_3PBk(LVDS)	I	0/3.3 V DC (pulse)	Video data signal K (P)
	50	SGND	-	-	Ground
	51	DATA_4NBk(LVDS)	I	0/3.3 V DC (pulse)	Video data signal K (N)
	52	DATA_4PBk(LVDS)	I	0/3.3 V DC (pulse)	Video data signal K (P)
	53	SGND	-	-	Ground
	54	PALA_SIG P3_2Bk	I	0/3.3 V DC	APCPWB-K control signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC2</b> Connected to engine PWB	55	INT_ST 2 Bk	I	0/3.3 V DC	APCPWB-K control signal
	56	INT_ST 1 Bk	I	0/3.3 V DC	APCPWB-K control signal
	57	PALA_SIG P0 Bk	I	0/3.3 V DC	APCPWB-K control signal
	58	PALA_SIG P1 Bk	I	0/3.3 V DC	APCPWB-K control signal
	59	PALA_SIG P2 Bk	I	0/3.3 V DC	APCPWB-K control signal
	60	GAIN FIX Bk	I	0/3.3 V DC	APCPWB-K control signal
	61	SGND	-	-	Ground
	62	DATA_2NBk(LVD S)	I	0/3.3 V DC (pulse)	Video data signal K (N)
	63	DATA_2PBk(LVD S)	I	0/3.3 V DC (pulse)	Video data signal K (P)
	64	SGND	-	-	Ground
<b>YC3</b> Connected to engine PWB	1	SGND	-	-	Ground
	2	BD Y	O	0/3.3 V DC (pulse)	Horizontal synchronization signal Y
	3	LSU_TH Y	O	Analog	LSU thermistor Y detection signal
	4	CUALM Y	O	0/3.3 V DC	APCPWB-Y alarm signal
	5	PALA_SIG P3 Y	I	0/3.3 V DC	APCPWB-Y control signal
	6	PALA_SIG P4 Y	I	0/3.3 V DC	APCPWB-Y control signal
	7	SGND	-	-	Ground
	8	SDCLK Y	I	0/3.3 V DC (pulse)	APCPWB-Y clock signal
	9	SGND	-	-	Ground
	10	DATA_1N_Y(LVD S)	I	0/3.3 V DC (pulse)	Video data signal Y (N)
	11	DATA_1P_Y(LVD S)	I	0/3.3 V DC (pulse)	Video data signal Y (P)
	12	SGND	-	-	Ground
	13	REM Y	I	0/24 V DC	PM-Y: On/Off
	14	LOCK Y	O	0/3.3 V DC	PM-Y lock signal
	15	CLK Y	I	0/3.3 V DC (pulse)	PM-Y clock signal
	16	SGND	-	-	Ground
	17	BD C	O	0/3.3 V DC (pulse)	Horizontal synchronization signal C
	18	LSU_TH C	O	Analog	LSU thermistor C detection signal
	19	CUALM C	O	0/3.3 V DC	APCPWB-C alarm signal
	20	PALA_SIG P3 C	I	0/3.3 V DC	APCPWB-C control signal
	21	PALA_SIG P4 C	I	0/3.3 V DC	APCPWB-C control signal
	22	SGND	-	-	Ground
	23	SDCLK C	I	0/3.3 V DC (pulse)	APCPWB-C clock signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b>	24	SGND	-	-	Ground
Connected to engine PWB	25	DATA_1N_C(LVDS)	I	0/3.3 V DC (pulse)	Video data signal C (N)
	26	DATA_1P_C(LVDS)	I	0/3.3 V DC (pulse)	Video data signal C (P)
	27	SGND	-	-	Ground
	28	REM C	I	0/24 V DC	PM-C: On/Off
	29	LOCK C	O	0/3.3 V DC	PM-C lock signal
	30	CLK C	I	0/3.3 V DC (pulse)	PM-C clock signal
	31	SGND	-	-	Ground
	32	BD M	O	0/3.3 V DC (pulse)	Horizontal synchronization signal M
	33	LSU_TH M	O	Analog	LSU thermistor M detection signal
	34	CUALM M	O	0/3.3 V DC	APCPWB-M alarm signal
	35	PALA_SIG P3 M	I	0/3.3 V DC	APCPWB-M control signal
	36	PALA_SIG P4 M	I	0/3.3 V DC	APCPWB-M control signal
	37	SGND	-	-	Ground
	38	SDCLK M	I	0/3.3 V DC (pulse)	APCPWB-M clock signal
	39	SGND	-	-	Ground
	40	DATA_1N_M(LVDS)	I	0/3.3 V DC (pulse)	Video data signal M (N)
	41	DATA_1P_M(LVDS)	I	0/3.3 V DC (pulse)	Video data signal M (P)
	42	SGND	-	-	Ground
	43	REM M	I	0/24 V DC	PM-M: On/Off
	44	LOCK M	O	0/3.3 V DC	PM-M lock signal
	45	CLK M	I	0/3.3 V DC (pulse)	PM-M clock signal
	46	SGND	-	-	Ground
	47	BD Bk	O	0/3.3 V DC (pulse)	Horizontal synchronization signal K
	48	LSU_TH Bk	O	Analog	LSU thermistor K detection signal
	49	CUALM Bk	O	0/3.3 V DC	APCPWB-K alarm signal
	50	PALA_SIG P3 Bk	I	0/3.3 V DC	APCPWB-K control signal
	51	PALA_SIG P4 Bk	I	0/3.3 V DC	APCPWB-K control signal
	52	SGND	-	-	Ground
	53	SDCLK Bk	I	0/3.3 V DC (pulse)	APCPWB-K clock signal
	54	SGND	-	-	Ground
	55	DATA_1NBk(LVDS)	I	0/3.3 V DC (pulse)	Video data signal K (N)
	56	DATA_1PBk(LVDS)	I	0/3.3 V DC (pulse)	Video data signal K (P)

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC3</b> Connected to engine PWB	57	SGND	-	-	Ground
	58	REM Bk	I	0/24 V DC	PM-K: On/Off
	59	LOCK Bk	O	0/3.3 V DC	PM-K lock signal
	60	CLK Bk	I	0/3.3 V DC (pulse)	PM-K clock signal
<b>YC4</b> Connected to polygon motor K	1	+24V	O	24 V DC	24 V DC power to PM-K
	2	PGND	-	-	Ground
	3	P_REM Bk	O	0/24 V DC	PM-K: On/Off
	4	P_LOCK Bk	I	0/3.3 V DC	PM-K lock signal
	5	P_CLK Bk	O	0/3.3 V DC (pulse)	PM-K clock signal
<b>YC5</b> Connected to APC PWB K	1	SGND	-	-	Ground
	2	BD Bk	I	0/3.3 V DC (pulse)	Horizontal synchronization signal K
	3	LSU_TH Bk	I	Analog	LSU thermistor K detection signal
	4	PALA_SIG P3_2Bk	-	-	Not used
	5	LDD_CS 2 Bk	-	-	Not used
	6	+5V	O	5 V DC	5 V DC power to APCPWB-K
	7	+5V	O	5 V DC	5 V DC power to APCPWB-K
	8	+5V	O	5 V DC	5 V DC power to APCPWB-K
	9	LDD_CS 1 Bk	O	0/3.3 V DC	APCPWB-K control signal
	10	SDI1 BK	I	0/3.3 V DC (pulse)	Serial communication data signal
	11	SDO1 BK	O	0/3.3 V DC (pulse)	Serial communication data signal
	12	CLK1 BK	O	0/3.3 V DC (pulse)	APCPWB-K clock signal
	13	EEPROM CS 1 Bk	I/O	0/3.3 V DC (pulse)	APCPWB-K EEPROM data signal
	14	MSET_N	O	0/3.3 V DC	APCPWB-K control signal
	15	CUALM Bk	I	0/3.3 V DC	APCPWB-K alarm signal
	16	INT_ST 2 Bk	O	0/3.3 V DC	APCPWB-K control signal
	17	INT_ST 1 Bk	O	0/3.3 V DC	APCPWB-K control signal
	18	PALA_SIG P0 Bk	O	0/3.3 V DC	APCPWB-K control signal
	19	PALA_SIG P1 Bk	O	0/3.3 V DC	APCPWB-K control signal
	20	PALA_SIG P2 Bk	O	0/3.3 V DC	APCPWB-K control signal
	21	PALA_SIG P3 Bk	O	0/3.3 V DC	APCPWB-K control signal
	22	PALA_SIG P4 Bk	O	0/3.3 V DC	APCPWB-K control signal
	23	SDCLK Bk	O	0/3.3 V DC (pulse)	APCPWB-K clock signal
	24	GAIN FIX Bk	O	0/3.3 V DC	APCPWB-K control signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC5</b> Connected to APC PWB K	25	DATA_1NBk(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (N)
	26	DATA_1PBk(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (P)
	27	SGND	-	-	Ground
	28	DATA_2NBk(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (N)
	29	DATA_2PBk(LVDS)	O	0/3.3 V DC (pulse)	Video data signal K (P)
	30	SGND	-	-	Ground
<b>YC7</b> Connected to polygon motor M	1	24V	O	24 V DC	24 V DC power to PM-M
	2	PGND	-	-	Ground
	3	P_REM M	O	0/24 V DC	PM-M: On/Off
	4	P_LOCK M	I	0/3.3 V DC	PM-M lock signal
	5	P_CLK M	O	0/3.3 V DC (pulse)	PM-M clock signal
<b>YC8</b> Connected to APC PWB M	1	SGND	-	-	Ground
	2	BD M	I	0/3.3 V DC (pulse)	Horizontal synchronization signal M
	3	LSU_TH M	I	Analog	LSU thermistor M detection signal
	4	-	-	-	Not used
	5	-	-	-	Not used
	6	+5V	O	5 V DC	5 V DC power to APCPWB-M
	7	+5V	O	5 V DC	5 V DC power to APCPWB-M
	8	+5V	O	5 V DC	5 V DC power to APCPWB-M
	9	LDD_CS M	O	0/3.3 V DC	APCPWB-M control signal
	10	SDI M	I	0/3.3 V DC (pulse)	Serial communication data signal
	11	SDO M	O	0/3.3 V DC (pulse)	Serial communication data signal
	12	CLK M	O	0/3.3 V DC (pulse)	APCPWB-M clock signal
	13	EEPROM CS 0 M	I/O	0/3.3 V DC (pulse)	APCPWB-M EEPROM data signal
	14	MSET_N	O	0/3.3 V DC	APCPWB-M control signal
	15	CUALM M	I	0/3.3 V DC	APCPWB-M alarm signal
	16	-	-	-	-
	17	INT_ST M	O	0/3.3 V DC	APCPWB-M control signal
	18	PALA_SIG P0 M	O	0/3.3 V DC	APCPWB-M control signal
	19	PALA_SIG P1 M	O	0/3.3 V DC	APCPWB-M control signal
	20	PALA_SIG P2 M	O	0/3.3 V DC	APCPWB-M control signal



Connector	Pin	Signal	I/O	Voltage	Description
<b>YC8</b> Connected to APC PWB M	21	PALA_SIG P3 M	O	0/3.3 V DC	APCPWB-M control signal
	22	PALA_SIG P4 M	O	0/3.3 V DC	APCPWB-M control signal
	23	SDCLK M	O	0/3.3 V DC (pulse)	APCPWB-M clock signal
	24	GAIN_FIX M	O	0/3.3 V DC	APCPWB-M control signal
	25	DATA_1N_M(LVDS)	O	0/3.3 V DC (pulse)	Video data signal M (N)
	26	DATA_1P_M(LVDS)	O	0/3.3 V DC (pulse)	Video data signal M (P)
	27	SGND	-	-	Ground
	28	DATA_2N_M(LVDS)	O	0/3.3 V DC (pulse)	Video data signal M (N)
	29	DATA_2P_M(LVDS)	O	0/3.3 V DC (pulse)	Video data signal M (P)
	30	SGND	-	-	Ground
<b>YC9</b> Connected to polygon motor C	1	24V	O	24 V DC	24 V DC power to PM-C
	2	PGND	-	-	Ground
	3	P_REM C	O	0/24 V DC	PM-C: On/Off
	4	P_LOCK C	I	0/3.3 V DC	PM-C lock signal
	5	P_CLK C	O	0/3.3 V DC (pulse)	PM-C clock signal
<b>YC10</b> Connected to APC PWB C	1	SGND	-	-	Ground
	2	BD C	I	0/3.3 V DC (pulse)	Horizontal synchronization signal C
	3	LSU_TH C	I	Analog	LSU thermistor C detection signal
	4	-	-	-	Not used
	5	-	-	-	Not used
	6	+5V	O	5 V DC	5 V DC power to APCPWB-C
	7	+5V	O	5 V DC	5 V DC power to APCPWB-C
	8	+5V	O	5 V DC	5 V DC power to APCPWB-C
	9	LDD_CS C	O	0/3.3 V DC	APCPWB-C control signal
	10	SDI C	I	0/3.3 V DC (pulse)	Serial communication data signal
	11	SDO C	O	0/3.3 V DC (pulse)	Serial communication data signal
	12	CLK C	O	0/3.3 V DC (pulse)	APCPWB-C clock signal
	13	EEPROM_CS_0 C	I/O	0/3.3 V DC (pulse)	APCPWB-C EEPROM data signal
	14	MSET_N	O	0/3.3 V DC	APCPWB-C control signal
	15	CUALM C	I	0/3.3 V DC	APCPWB-C alarm signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC10</b>	16	-	-	-	-
Connected to APC PWB C	17	INT_ST C	O	0/3.3 V DC	APCPWB-C control signal
	18	PALA_SIG P0 C	O	0/3.3 V DC	APCPWB-C control signal
	19	PALA_SIG P1 C	O	0/3.3 V DC	APCPWB-C control signal
	20	PALA_SIG P2 C	O	0/3.3 V DC	APCPWB-C control signal
	21	PALA_SIG P3 C	O	0/3.3 V DC	APCPWB-C control signal
	22	PALA_SIG P4 C	O	0/3.3 V DC	APCPWB-C control signal
	23	SDCLK C	O	0/3.3 V DC (pulse)	APCPWB-C clock signal
	24	GAIN FIX C	O	0/3.3 V DC	APCPWB-C control signal
	25	DATA_1N_C(LVD S)	O	0/3.3 V DC (pulse)	Video data signal C (N)
	26	DATA_1P_C(LVD S)	O	0/3.3 V DC (pulse)	Video data signal C (P)
	27	SGND	-	-	Ground
	28	DATA_2N_C(LVD S)	O	0/3.3 V DC (pulse)	Video data signal C (N)
	29	DATA_2P_C(LVD S)	O	0/3.3 V DC (pulse)	Video data signal C (P)
	30	SGND	-	-	Ground
<b>YC11</b>	1	24V	O	24 V DC	24 V DC power to PM-Y
Connected to polygon motor Y	2	PGND	-	-	Ground
	3	P_REM Y	O	0/24 V DC	PM-Y: On/Off
	4	P_LOCK Y	I	0/3.3 V DC	PM-Y lock signal
	5	P_CLK Y	O	0/3.3 V DC (pulse)	PM-Y clock signal
<b>YC12</b>	1	SGND	-	-	Ground
Connected to APC PWB Y	2	BD Y	I	0/3.3 V DC (pulse)	Horizontal synchronization signal Y
	3	LSU_TH Y	I	Analog	LSU thermistor Y detection signal
	4	-	-	-	Not used
	5	-	-	-	Not used
	6	+5V	O	5 V DC	5 V DC power to APCPWB-Y
	7	+5V	O	5 V DC	5 V DC power to APCPWB-Y
	8	+5V	O	5 V DC	5 V DC power to APCPWB-Y
	9	LDD_CS Y	O	0/3.3 V DC	APCPWB-Y control signal
	10	SDI Y	I	0/3.3 V DC (pulse)	Serial communication data signal

Connector	Pin	Signal	I/O	Voltage	Description
<b>YC12</b>	11	SDO Y	O	0/3.3 V DC (pulse)	Serial communication data signal
Connected to APC PWB Y	12	CLK Y	O	0/3.3 V DC (pulse)	APCPWB-Y clock signal
	13	EEPROM CS Y	I/O	0/3.3 V DC (pulse)	APCPWB-Y EEPROM data signal
	14	MSET_N	O	0/3.3 V DC	APCPWB-Y control signal
	15	CUALM Y	I	0/3.3 V DC	APCPWB-Y alarm signal
	16	-	-	-	-
	17	INT_ST Y	O	0/3.3 V DC	APCPWB-Y control signal
	18	PALA_SIG P0 Y	O	0/3.3 V DC	APCPWB-Y control signal
	19	PALA_SIG P1 Y	O	0/3.3 V DC	APCPWB-Y control signal
	20	PALA_SIG P2 Y	O	0/3.3 V DC	APCPWB-Y control signal
	21	PALA_SIG P3 Y	O	0/3.3 V DC	APCPWB-Y control signal
	22	PALA_SIG P4 Y	O	0/3.3 V DC	APCPWB-Y control signal
	23	SDCLK Y	O	0/3.3 V DC (pulse)	APCPWB-Y clock signal
	24	GAIN FIX Y	O	0/3.3 V DC	APCPWB-Y control signal
	25	DATA_1N_Y(LVDS)	O	0/3.3 V DC (pulse)	Video data signal Y (N)
	26	DATA_1P_Y(LVDS)	O	0/3.3 V DC (pulse)	Video data signal Y (P)
	27	SGND	-	-	Ground
	28	DATA_2N_Y(LVDS)	O	0/3.3 V DC (pulse)	Video data signal Y (N)
	29	DATA_2P_Y(LVDS)	O	0/3.3 V DC (pulse)	Video data signal Y (P)
	30	SGND	-	-	Ground

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## 2-4-1 Appendixes

### (1) List of maintenance parts

Maintenance part name		Part No.	Alternative part No.
Name used in service manual	Name used in parts list		
Paper feed pulley	PULLEY FEED	302K906350	2K906350
Separation pulley	PULLEY RETARD	302K906360	2K906360
Forwarding pulley	PULLEY PICKUP	302K906370	2K906370
Lower duplex roller	PARTS ROLLER DU LOW SP	302K994470	2K994470
Middle duplex roller	PARTS ROLLER DU MID SP	302K994480	2K994480
Upper duplex roller	PARTS ROLLER DU UP SP	302K994490	2K994490
Eject roller	PARTS ROLLER EXIT SP	302LC94350	2LC94350
Fan filter	PARTS FILTER FAN ASSY(V) SP	302LC94170	2LC94170
Developer filter	FILTER DLP COOLING	302LC33500	2LC33500
Transfer belt filter	PARTS FILTER BELT UNIT(V) SP	302LC94130	2LC94130
Toner filter	FILTER LEFT SIDE	302LC33370	2LC33370
Left filter	FILTER LEFT SIDE	302LC33370	2LC33370
Eject filter	PARTS FILTER EXIT UNIT SP	302K994100	2K994100

**(2) Maintenance kits**

<b>Maintenance part name</b>		<b>Parts No.</b>	<b>Alternative part No.</b>
<b>Name used in service</b>	<b>Name used in parts list</b>		
MK-8505A/Maintenance kit (600,000 pages)	MK-8505A/MAINTENANCE KIT	1702LC0UN0	072LC0UN
Drum unit K	DK-8505 (K)	-	-
Developer unit K	DV-8505K	-	-
Transfer belt unit	TR-8505	-	-
Transfer roller	PARTS ROLLER SECONDLY TRANSFER SP	-	-
MK-8505B/Maintenance kit (600,000 pages)	MK-8505B/MAINTENANCE KIT	1702LC0UN1	072LC0U1
Drum unit C	DK-8505 (C)	-	-
Drum unit M	DK-8505 (M)	-	-
Drum unit Y	DK-8505 (Y)	-	-
Developer unit C	DV-8505C	-	-
Developer unit M	DV-8505M	-	-
Developer unit Y	DV-8505Y	-	-
MK-8505C/Maintenance kit (300,000 pages)	MK-8505C/MAINTENANCE KIT	1702LC0UN2	072LC0U2
Fuser unit	FK-UNIT	-	-
Eject filter	FILTER TOP		
Toner filter / Left filter	FILTER LEFT SIDE		

**(3) Periodic maintenance procedures**

Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Test print	Perform at the maximum print size	Test print	Test print		



Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Paper feed ,conveying-section	Paper feed pulley	Check Clean	Check Replace	Clean with alcohol or a dry cloth. CH:performing U901 and check feeding count: Target to replace at 150K.	P.1-5-7
	Separation pulley	Check Clean	Check Replace	Clean with alcohol or a dry cloth. CH:performing U901 and check feeding count: Target to replace at 150K.	P.1-5-7
	Forwarding pulley	Check Clean	Check Replace	Clean with alcohol or a dry cloth. CH:performing U901 and check feeding count: Target to replace at 150K.	P.1-5-7
	Guides	Clean	Clean	Clean with alcohol or a dry cloth.	



Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Transfer section	Transfer belt unit	-	Replace	Every 600k Replace.	P.1-5-34
	Transfer roller	-	Replace	Every 600k Replace.	P.1-5-38



Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Developer section	Developer unit K	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29
	Developer unit C	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29
	Developer unit M	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29
	Developer unit Y	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29



Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Drum section	Drum unit K	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29
	Drum unit C	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29
	Drum unit M	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29
	Drum unit Y	Clean	Replace	Vacuum. Every 600k Replace.	P.1-5-29



Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Fuser section	Fuser unit	-	Replace	Every 300k Replace.	P.1-5-40





Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Eject, Duplex section	Lower duplex roller	-	Clean	Clean with alcohol or a dry cloth.	
	Middle duplex roller	-	Clean	Clean with alcohol or a dry cloth.	
	Upper duplex roller	-	Clean	Clean with alcohol or a dry cloth.	
	Eject roller	-	Clean	Clean with alcohol or a dry cloth.	



Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Outer, Cover	Outer Covers, Tray	-	Clean	Clean with alcohol or a dry cloth.	



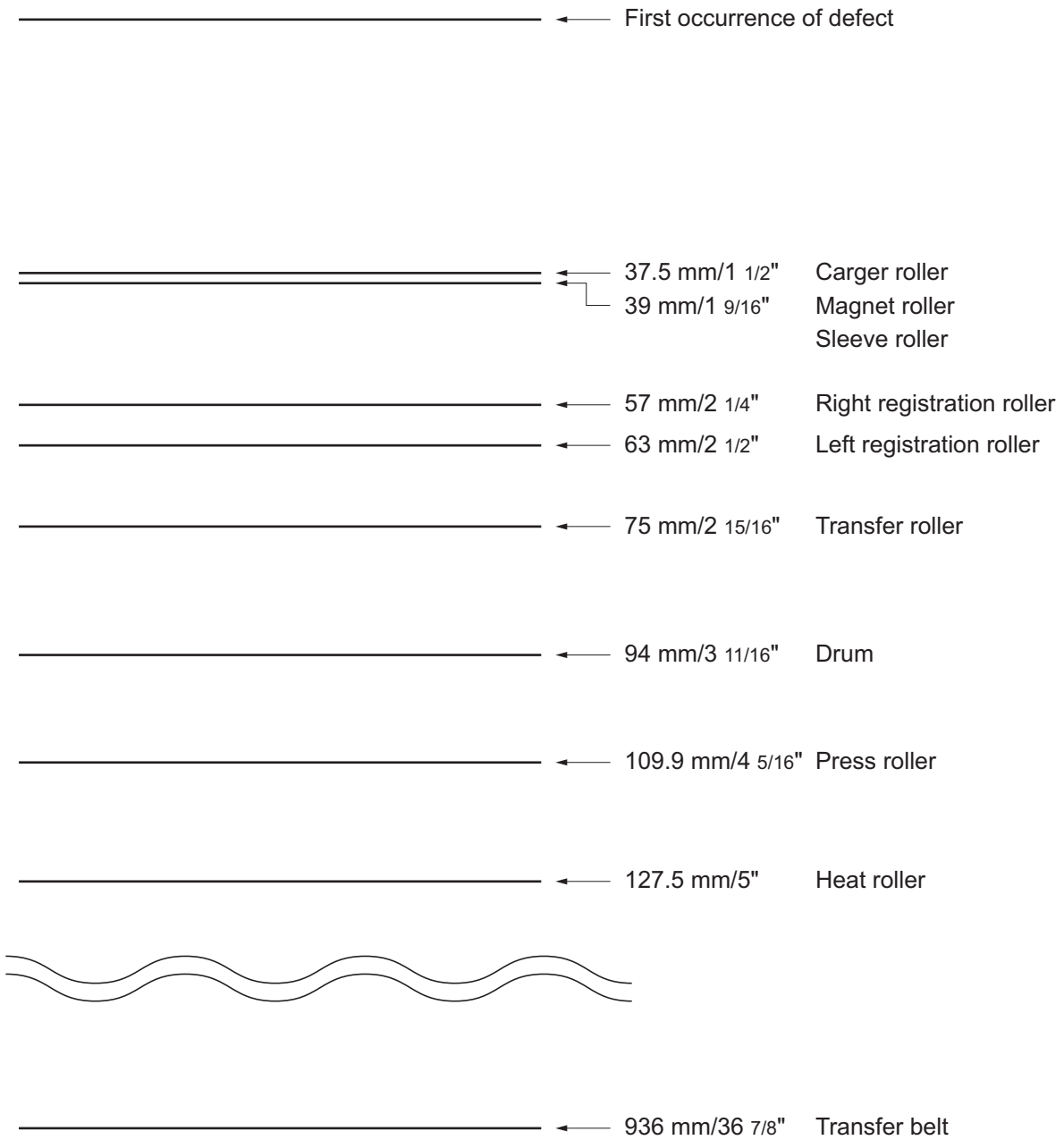
Section	Maintenance part/location	User call	300K/600K/900K/1200K	Points and cautions	Page
Driving, Other	Fan filter	Clean	Clean	Vacuum. 1pcs	P.1-5-74
	Developer filter	Clean	Clean	Vacuum. 1pcs	P.1-5-77
	Transfer belt filter	Clean	Clean	Vacuum. 2pcs	P.1-5-75
	Toner filter Left filter	Replace	Replace	Every 300k Replace. (MK KIT) 2pcs	P.1-5-73 P.1-5-76
	Eject filter	Replace	Replace	Every 300k Replace. (MK KIT) 2pcs	P.1-5-72
	Each Clutches	Check Replace	Check	Check the image registration and paper feed conveying condition on paper feed conveying (registration) part.	
	Sensors	Check	Check	Clean with alcohol or a dry cloth. (lighting part and light reception part.)	
	Image quality	Check Adjust	Check Adjust		



<b>Section</b>	<b>Maintenance part/location</b>	<b>User call</b>	<b>300K/600K/ 900K/1200K</b>	<b>Points and cautions</b>	<b>Page</b>
Option	Duct unit	Clean	Clean	Vacuum.	

\* : Please do not use spray containing flammable gas for air-blow or air-brush purposes.

**(4) Repetitive defects gauge**



## (5) 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
Top margin	A1	Integer value in inches	0
	A2	Fraction value in 1/100 inches	0
Left margin	A3	Integer value in inches	0
	A4	Fraction value in 1/100 inches	0
Page length	A5	Integer value in inches	17
	A6	Fraction value in 1/100 inches	30
Page width	A7	Integer value in inches	17
	A8	Fraction value in 1/100 inches	30
Default pattern resolution	B8	0: 300 dpi 1: 600 dpi	0
Page orientation	C1	0: Portrait 1: Landscape	0
Default font No. *	C2	Middle two digits of power-up font	0
	C3	Last two digits of power-up font	0
	C5	First two digits of power-up font	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(30s)
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)	60

<b>Item</b>	<b>FRPO</b>	<b>Setting values</b>	<b>Factory setting</b>
Ecoprint level	N6	0: Off 2: On	0
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
Alternative emulation (For KPDL3)	P5	Same as the P1 values except that 9 is ignored.	6
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 stacker	R0	1 (inner tray)	1

Item	FRPO	Setting values	Factory setting
Default paper size	R2	0: Size of the default paper cassette (See R4.) 1: Monarch (3-7/8 × 7-1/2 inches) 2: Business (4-1/8 × 9-1/2 inches) 3: International DL (11 × 22 cm) 4: International C5 (16.2 × 22.9 cm) 5: Executive (7-1/4 × 10-1/2 inches) 6: US Letter (8-1/2 × 11 inches) 7: US Legal (8-1/2 × 14 inches) 8: A4 (21.0 × 29.7 cm) 9: JIS B5 (18.2 × 25.7 cm) 10: A3 (29.7 × 42 cm) 11: B4 (25.7 × 36.4 cm) 12: US Ledger (11 × 17 inches) 13: ISO A5 14: A6 (10.5 × 14.8 cm) 15: JIS B6 (12.8 × 18.2 cm) 16: Commercial #9 (3-7/8 × 8-7/8 inches) 17: Commercial #6 (3-5/8 × 6-1/2 inches) 18: ISO B5 (17.6 × 25 cm) 19: Custom (11.7 × 17.7 inches) 20: 21: 22: 23: 24: 30: C4 (22.9 × 32.4 cm) 31: Hagaki (10 × 14.8 cm) 32: Ofuku-hagaki (14.8 × 20 cm) 33: Officio II 38: 39: 8K 40: 16K 42: 8.5 × 13.5 inches 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 4: Cassette 4 5: Cassette 5 6: Cassette 6 7: Cassette 7	1
MP tray paper size	R7	Same as the R2 values except: 0	8 (A4)
A4/letter equation	S4	0: Off 1: On	1

Item	FRPO	Setting values	Factory setting
Host buffer size	S5	0: 10 KB 1: 100 KB 2: 1024 KB	1
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: PCL 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
Default scalable font *	V3	Name of typeface of up to 32 characters, enclosed with single or double quotation marks	Courier

Item	FRPO	Setting values	Factory setting
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 and 2	X1 X2	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



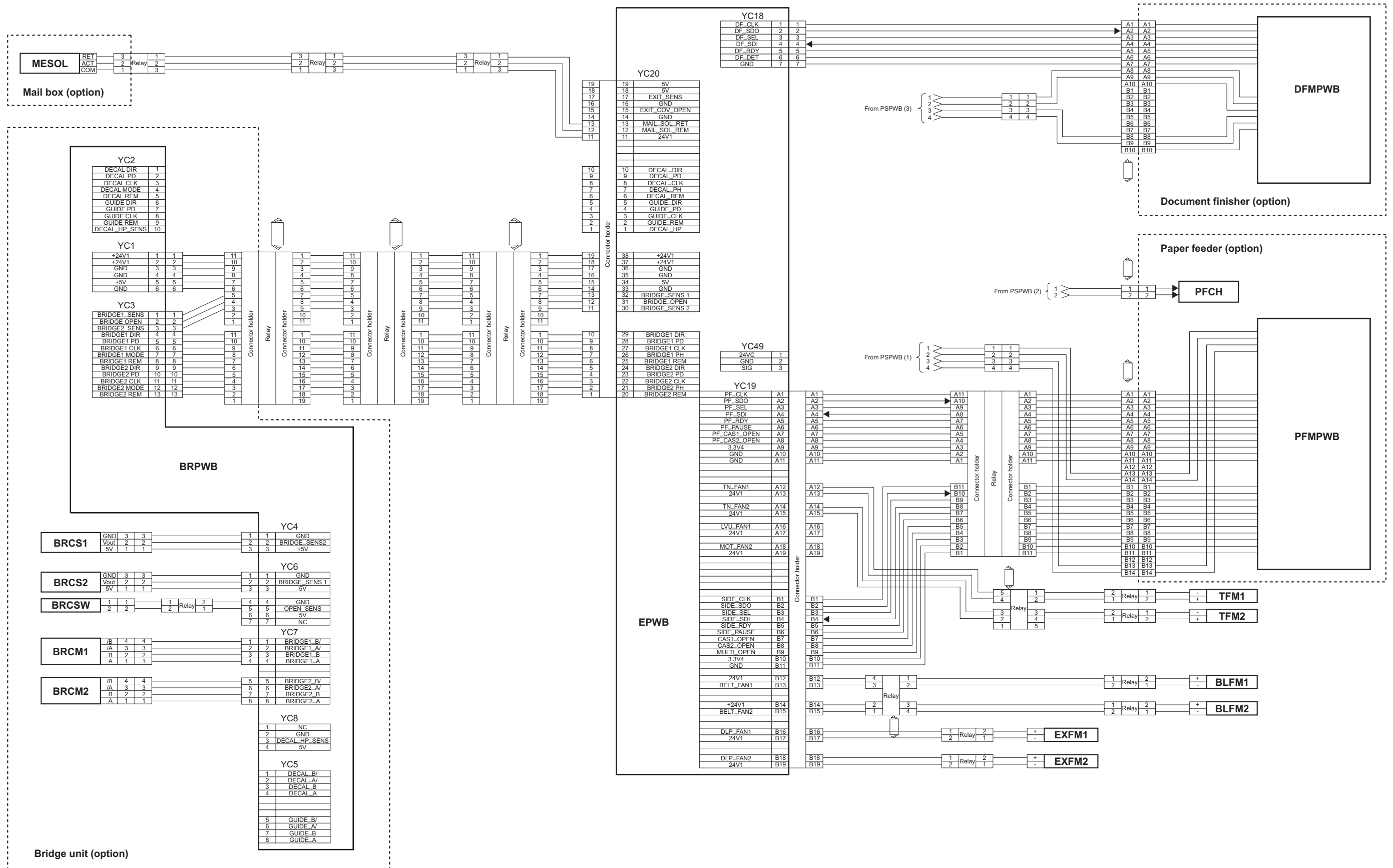
Item	FRPO	Setting values	Factory setting
Paper type for optional cassettes 3 to 7	X3 X4 X5 X6 X10	1: Plain 3: Preprinted 5: Bond 6: Recycled 9: Letterhead 10: Color 11: Prepunched 17: High quality 21 to 28: Custom1 to 8	1
PCL paper source	X9	0: Performs paper selection depending on media type. 2: Performs paper selection depending on paper sources.	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 64: Detect	64
Duplex operation for specified paper type (Prepunched, Preprinted and Letterhead)	Y4	0: Off 1: On	0
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 image size.	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.

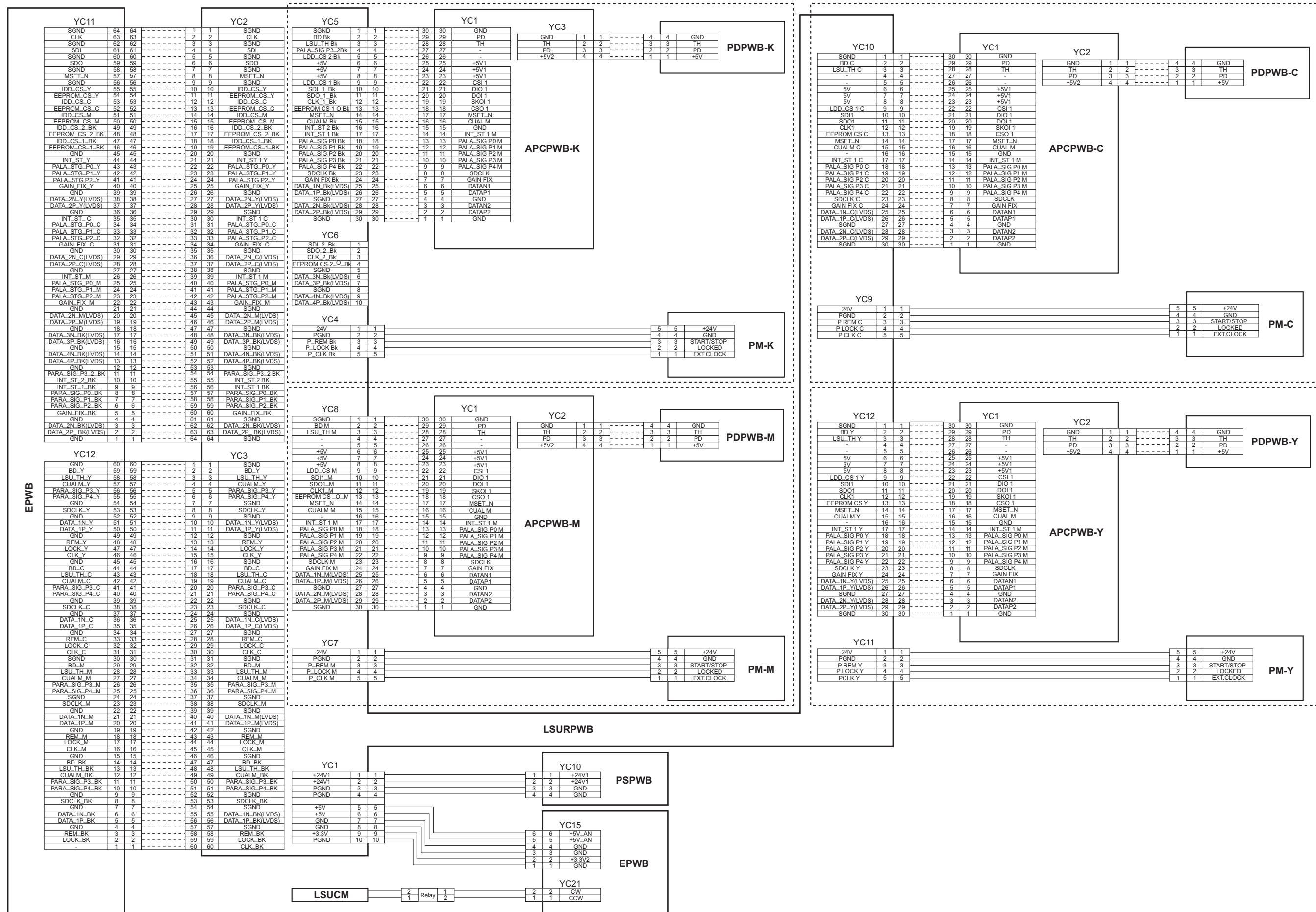
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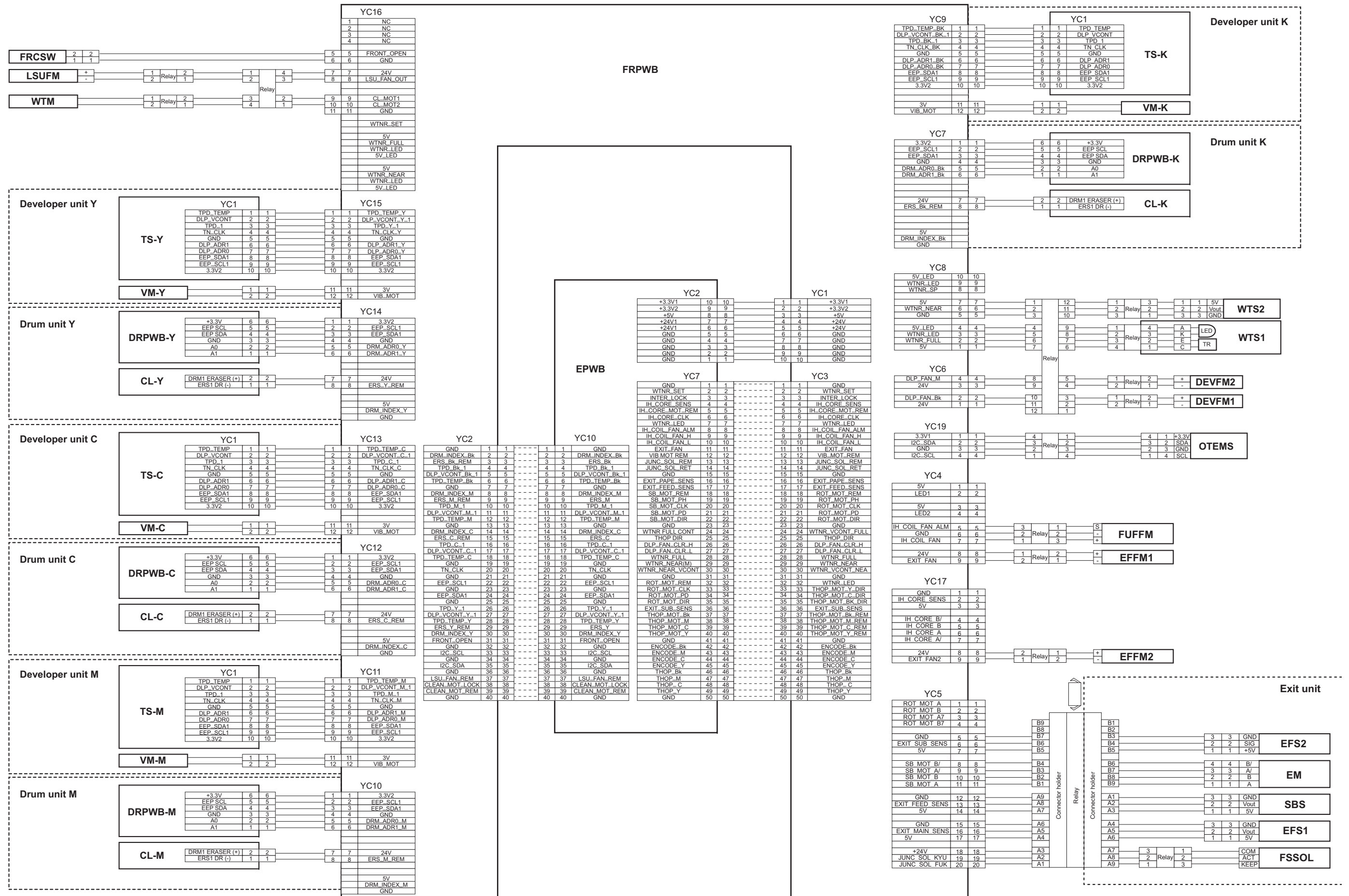
(6) Wiring diagram

No.1)

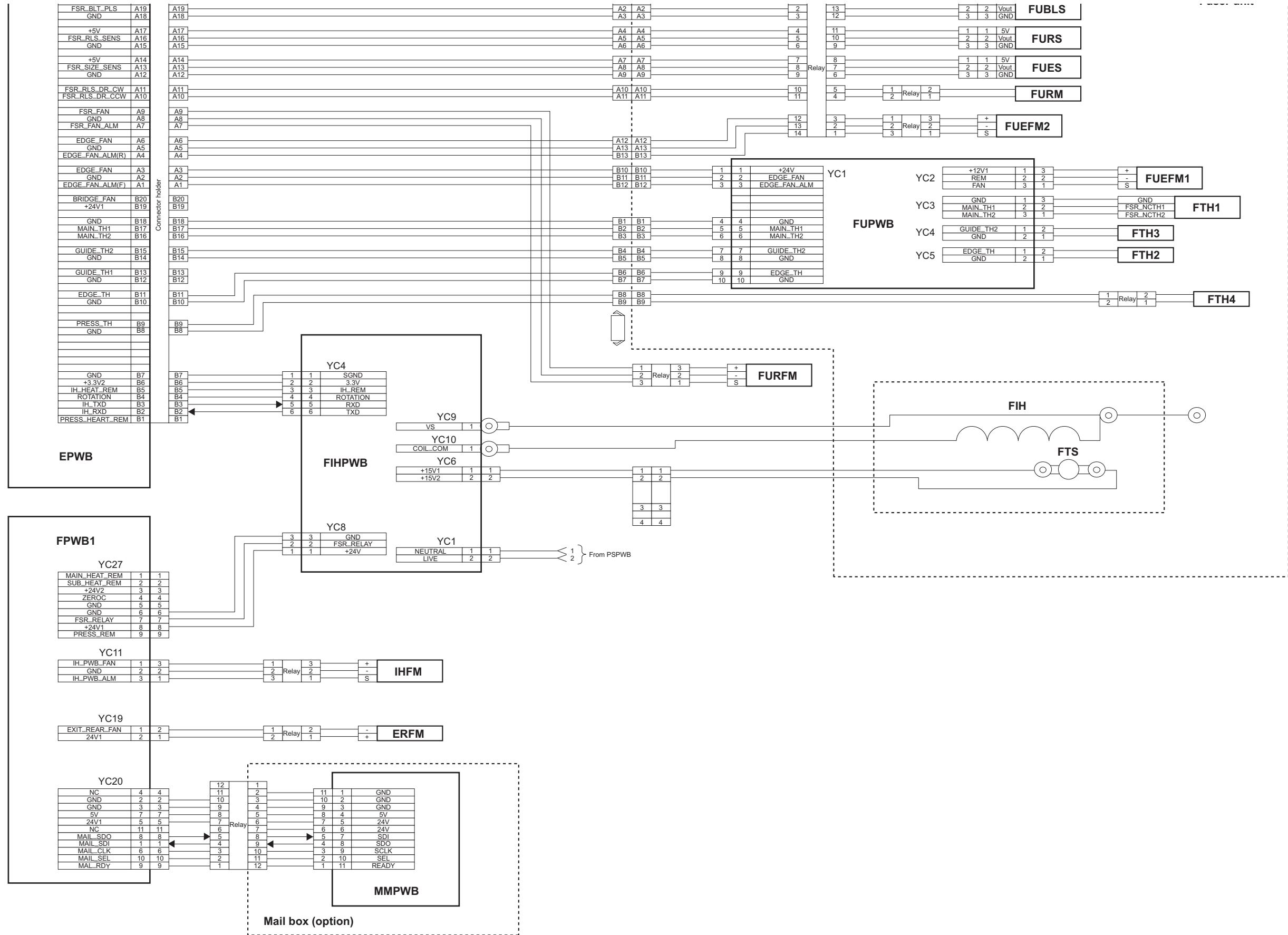


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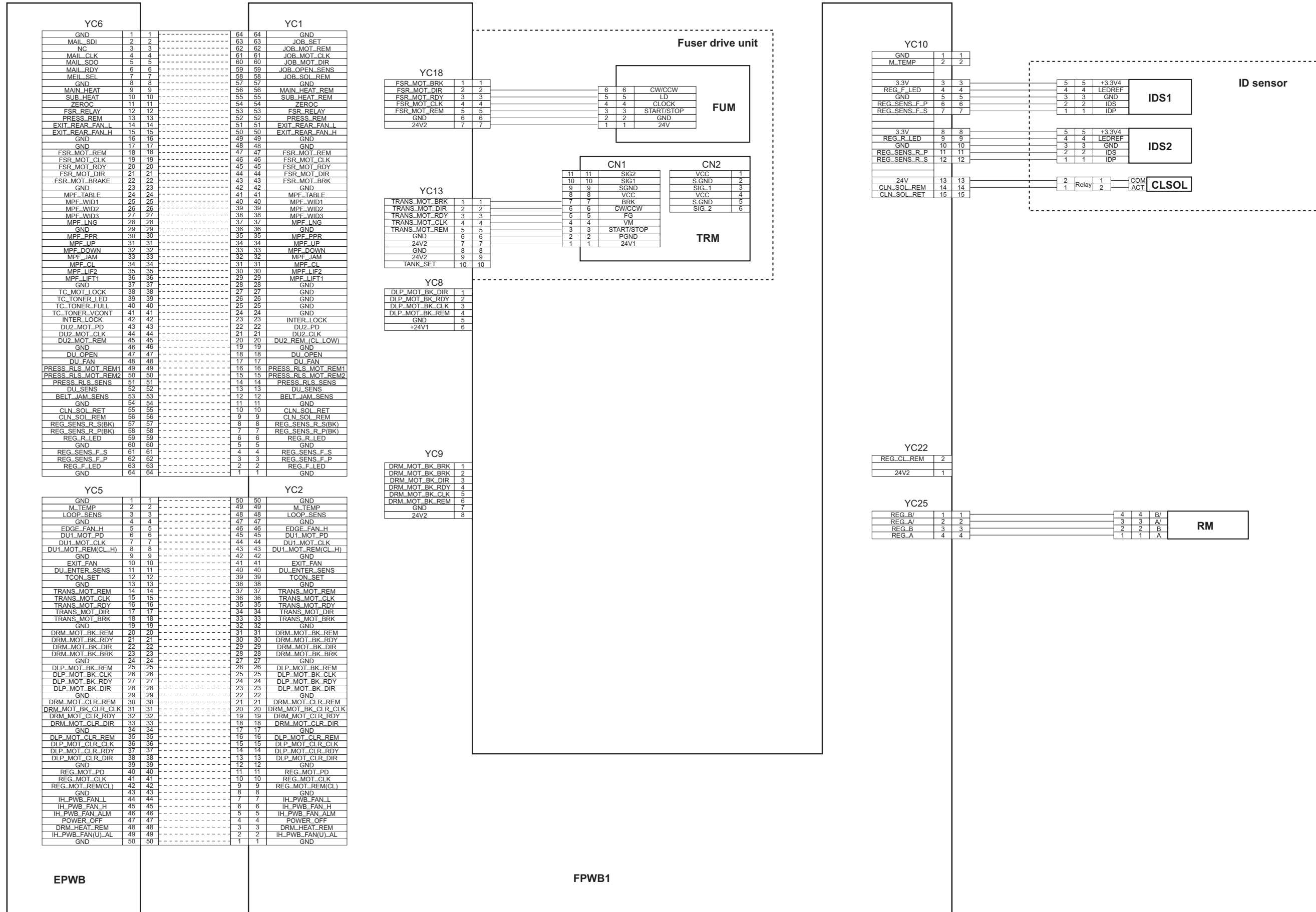




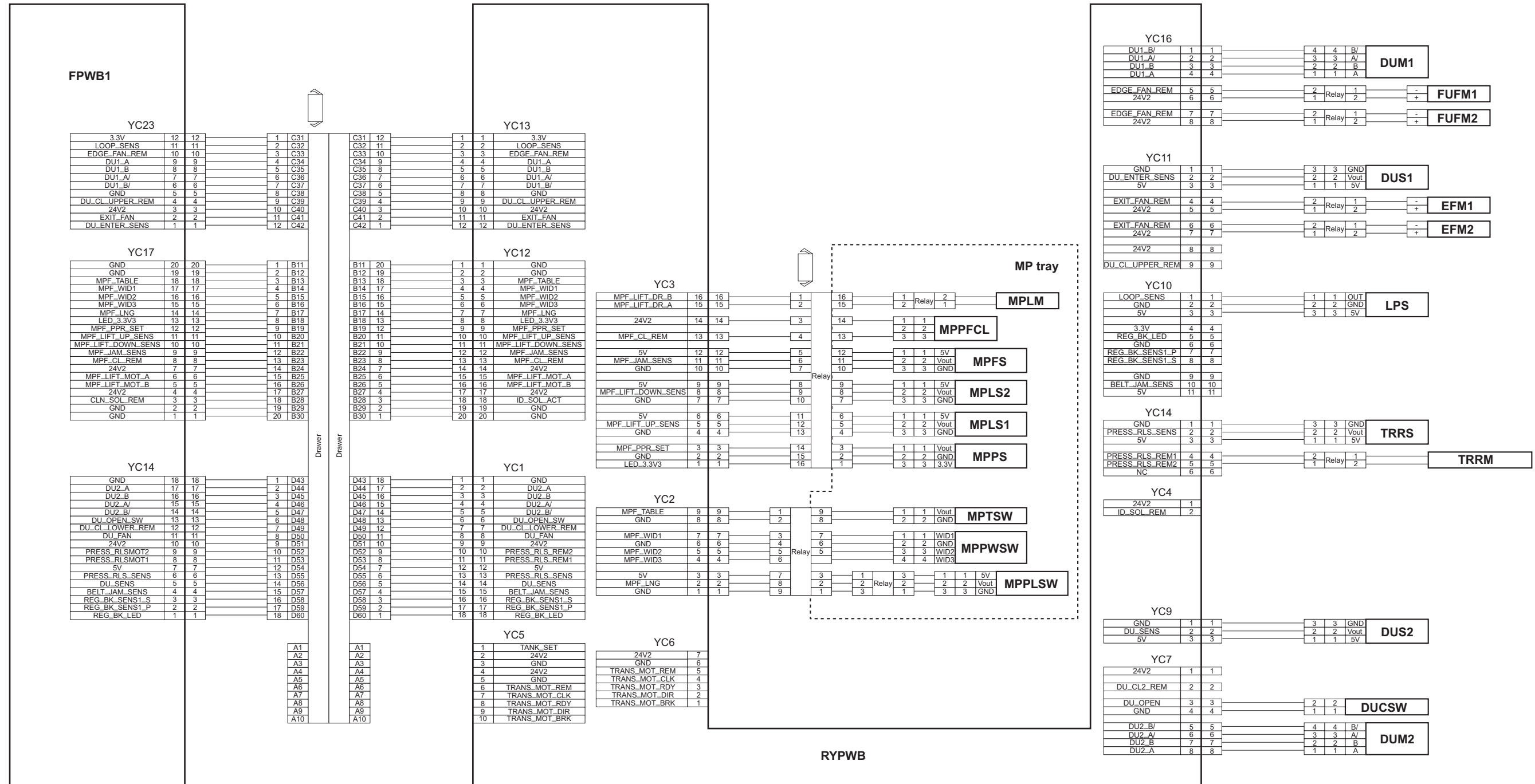
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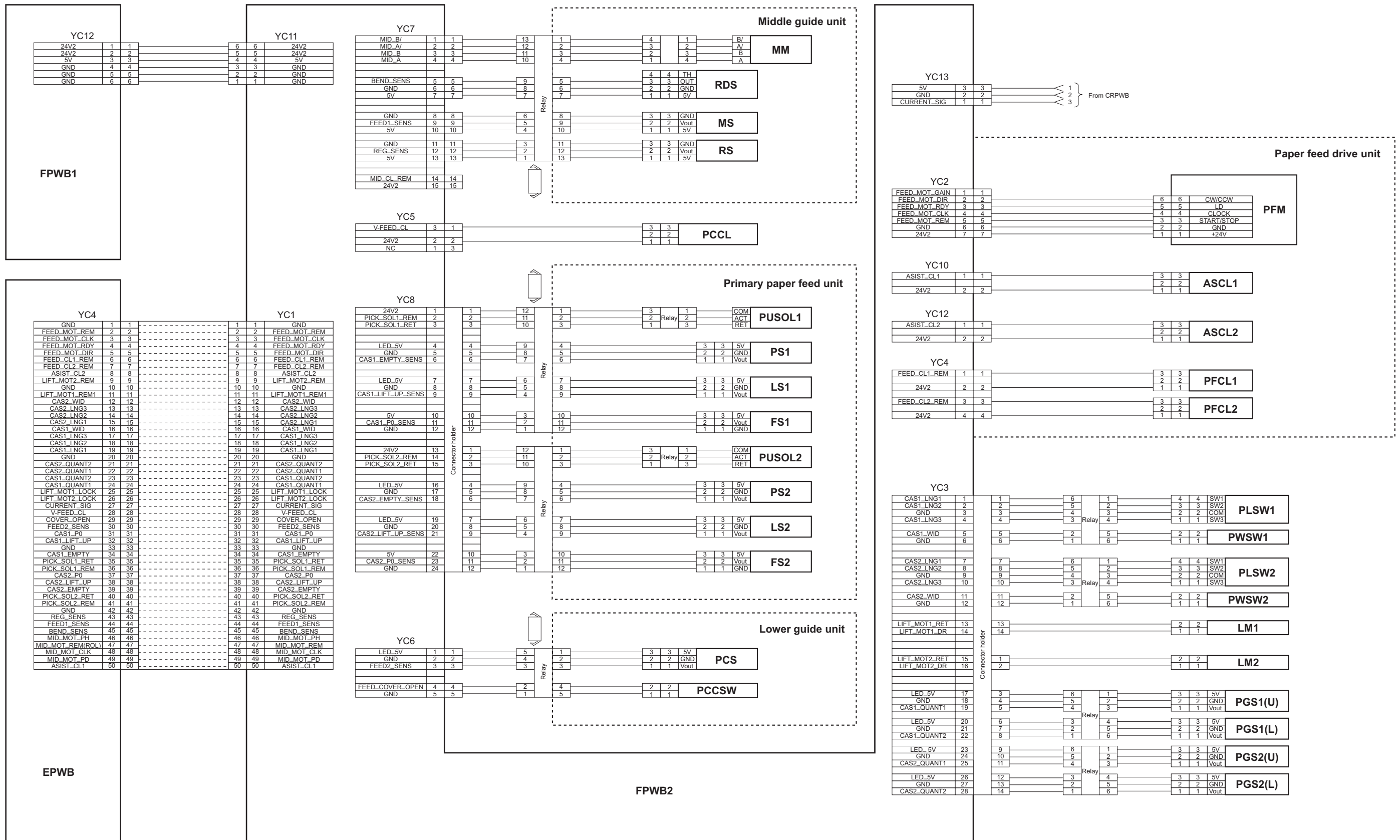




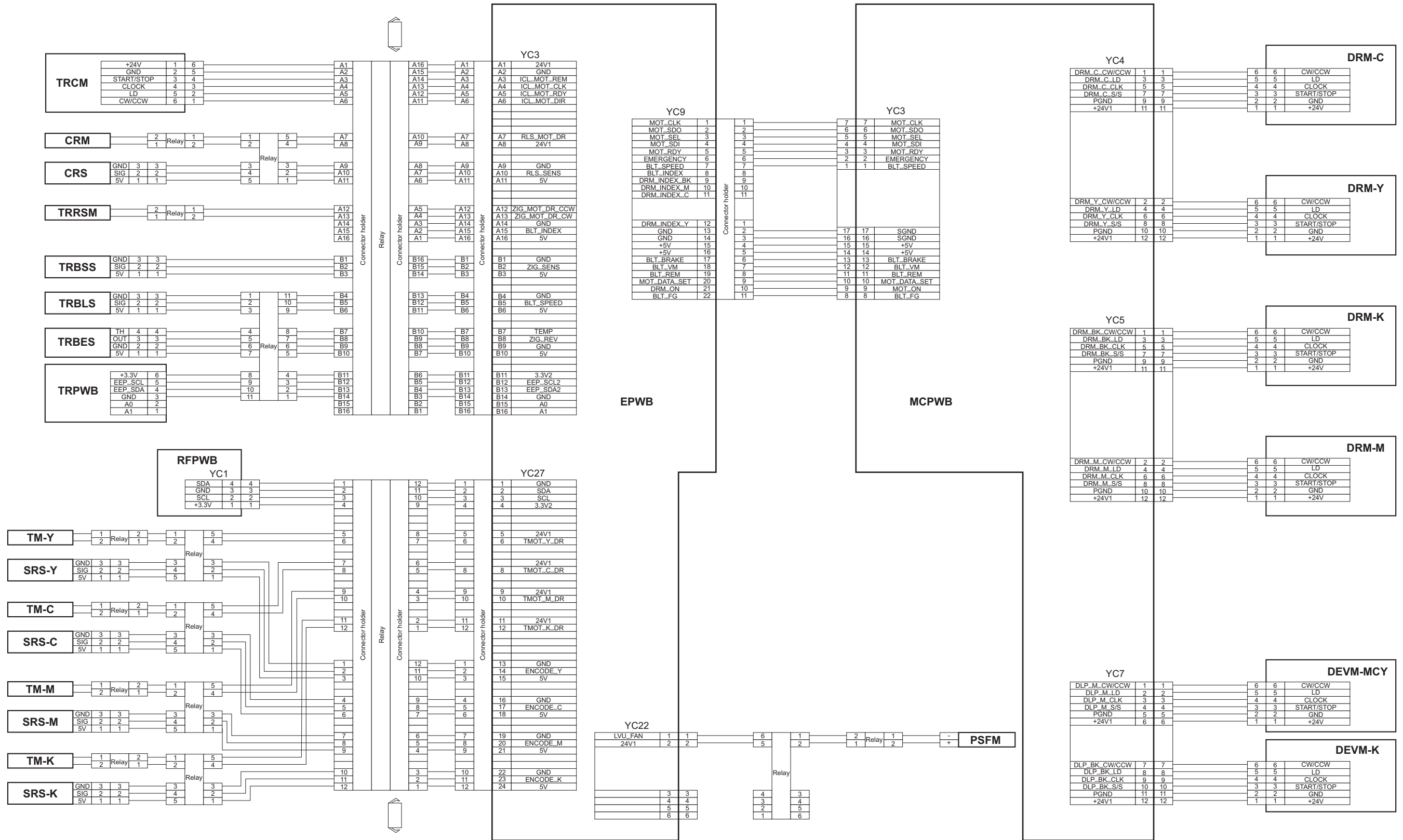




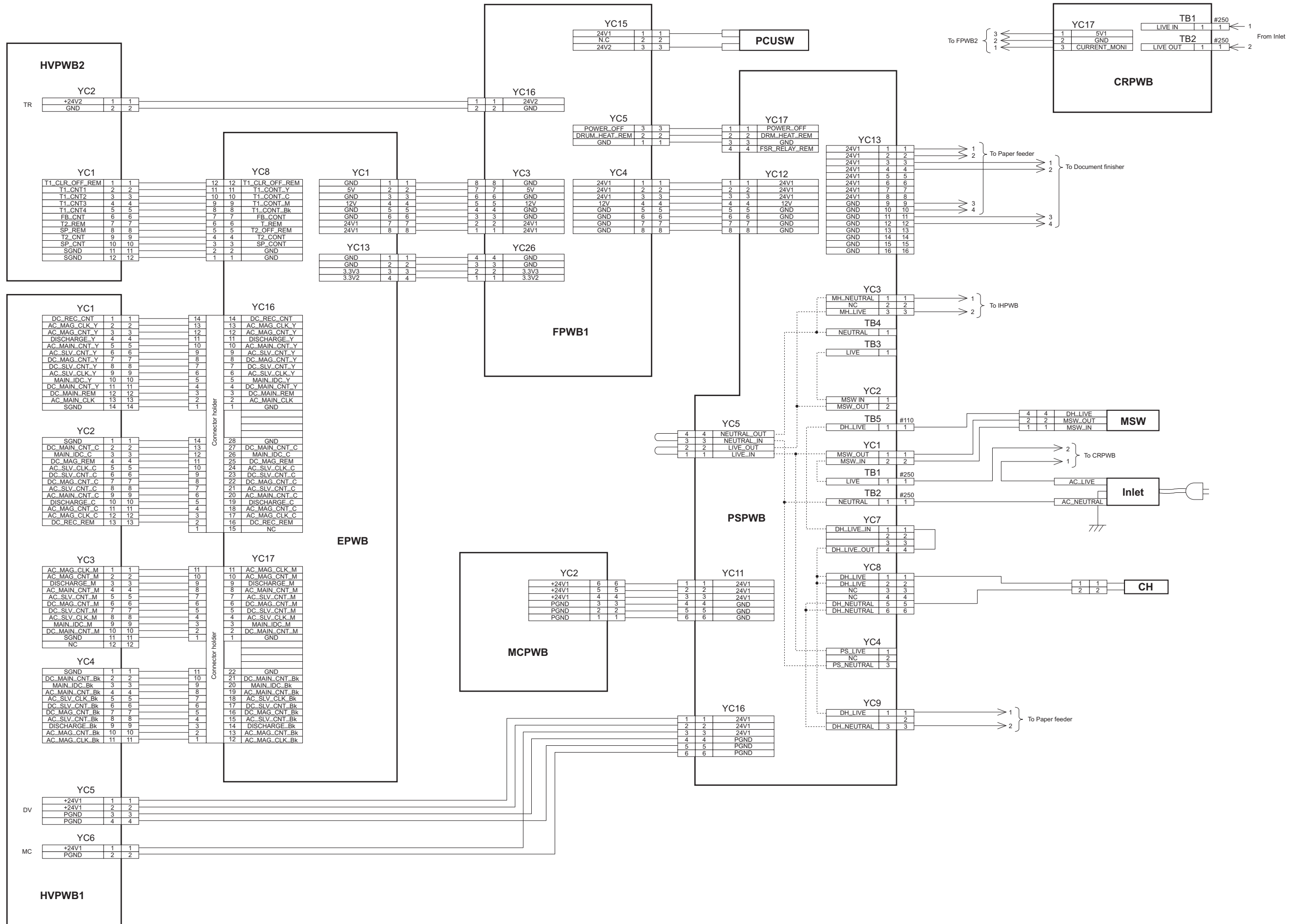
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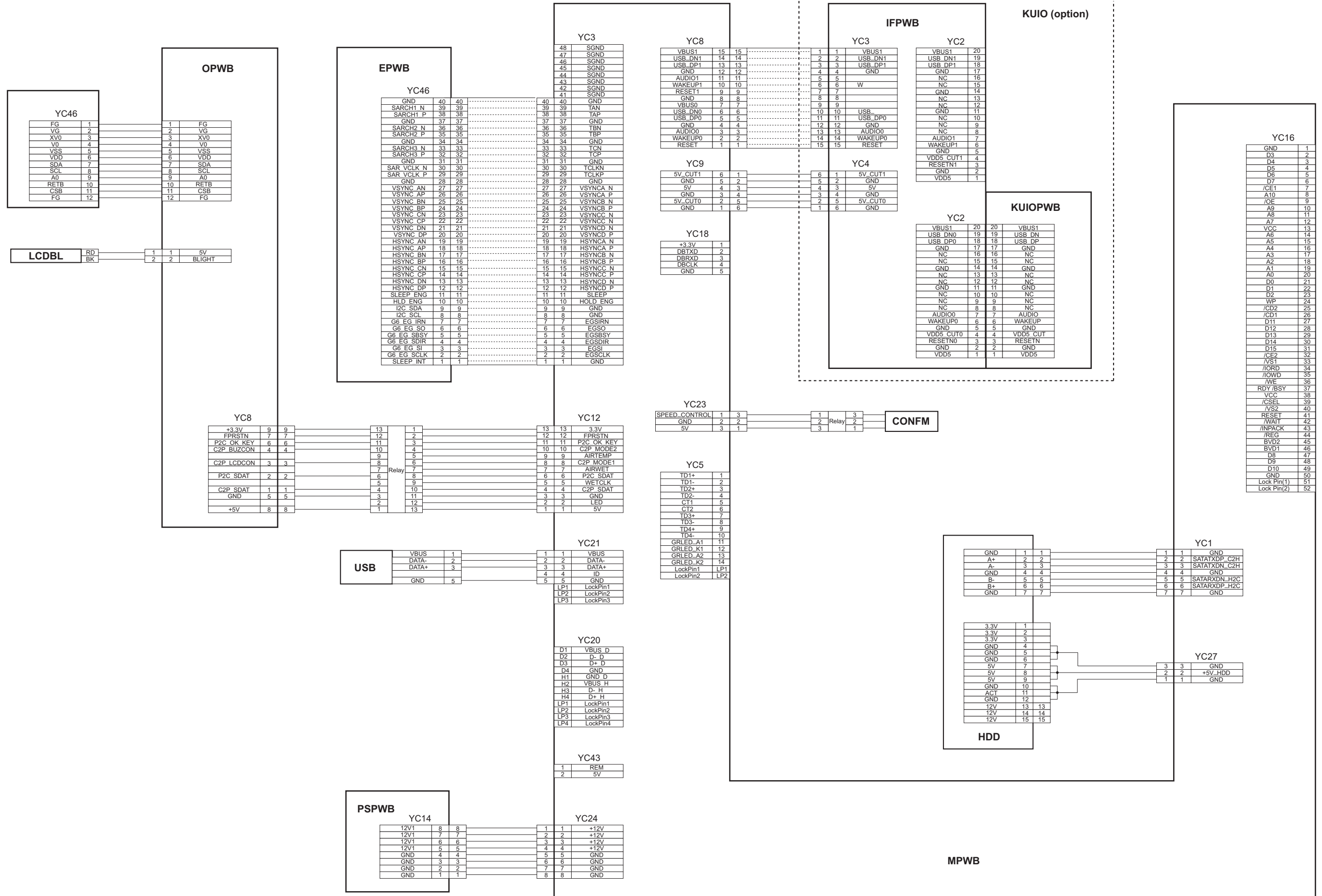
No.8



No.9



No.10



**KYOCERA Document Solutions America, Inc.****Headquarters**

225 Sand Road,  
Fairfield, New Jersey 07004-0008, USA  
Phone: +1-973-808-8444  
Fax: +1-973-882-6000

**Latin America**

8240 NW 52nd Terrace Dawson Building, Suite 100  
Miami, Florida 33166, USA  
Phone: +1-305-421-6640  
Fax: +1-305-421-6666

**KYOCERA Document Solutions Canada, Ltd.**

6120 Kestrel Rd., Mississauga, ON L5T 1S8,  
Canada  
Phone: +1-905-670-4425  
Fax: +1-905-670-8116

**KYOCERA Document Solutions  
Mexico, S.A. de C.V.**

Calle Arquimedes No. 130, 4 Piso, Colonia Polanco  
Chapultepec, Delegacion Miguel Hidalgo,  
Distrito Federal, C.P. 11560, México  
Phone: +52-555-383-2741  
Fax: +52-555-383-7804

**KYOCERA Document Solutions Brazil, Ltda.**

Av. Tambore, 1180 Mod.B-09 CEP 06460-000  
Tambore-Barueri-SP, Brazil  
Phone: +55-11-4195-8496  
Fax: +55-11-4195-6167

**KYOCERA Document Solutions  
Australia Pty. Ltd.**

Level 3, 6-10 Talavera Road North Ryde N.S.W, 2113,  
Australia  
Phone: +61-2-9888-9999  
Fax: +61-2-9888-9588

**KYOCERA Document Solutions  
New Zealand Ltd.**

1-3 Parkhead Place, Albany, Auckland 1330,  
New Zealand  
Phone: +64-9-415-4517  
Fax: +64-9-415-4597

**KYOCERA Document Solutions Asia Limited**

16/F., Mita Centre, 552-566, Castle Peak Road  
Tsuenwan, NT, Hong Kong  
Phone: +852-2610-2181  
Fax: +852-2610-2063

**KYOCERA Document Solutions  
(Thailand) Corp., Ltd.**

335 Ratchadapisek Road, Bangsue, Bangkok 10800,  
Thailand  
Phone: +66-2-586-0333  
Fax: +66-2-586-0278

**KYOCERA Document Solutions  
Singapore Pte. Ltd.**

12 Tai Seng Street #04-01A,  
Luxasia Building, Singapore 534118  
Phone: +65-6741-8733  
Fax: +65-6748-3788

**KYOCERA Document Solutions  
Hong Kong Limited**

16/F., Mita Centre, 552-566, Castle Peak Road  
Tsuenwan, NT, Hong Kong  
Phone: +852-2429-7422  
Fax: +852-2423-2159

**KYOCERA Document Solutions  
Taiwan Corporation**

6F., No.37, Sec. 3, Minquan E. Rd.,  
Zhongshan Dist., Taipei 104, Taiwan R.O.C.  
Phone: +886-2-2507-6709  
Fax: +886-2-2507-8432

**KYOCERA Document Solutions Korea Co., Ltd.**

18F, Kangnam bldg, 1321-1,  
Seocho-Dong, Seocho-Gu, Seoul, Korea  
Phone: +822-6933-4050  
Fax: +822-747-0084

**KYOCERA Document Solutions  
India Private Limited**

First Floor, ORCHID CENTRE  
Sector-53, Golf Course Road, Gurgaon 122 002,  
India  
Phone: +91-0124-4671000  
Fax: +91-0124-4671001

**KYOCERA Document Solutions Europe B.V.**

Bloemlaan 4, 2132 NP Hoofddorp,  
The Netherlands  
Phone: +31-20-654-0000  
Fax: +31-20-653-1256

**KYOCERA Document Solutions Nederland B.V.**

Beechavenue 25, 1119 RA Schiphol-Rijk,  
The Netherlands  
Phone: +31-20-5877200  
Fax: +31-20-5877260

**KYOCERA Document Solutions (U.K.) Limited**

8 Beacontree Plaza,  
Gillette Way Reading, Berkshire RG2 0BS,  
United Kingdom  
Phone: +44-118-931-1500  
Fax: +44-118-931-1108

**KYOCERA Document Solutions Italia S.p.A.**

Via Verdi, 89/91 20063 Cernusco s/N.(MI),  
Italy  
Phone: +39-02-921791  
Fax: +39-02-92179-600

**KYOCERA Document Solutions Belgium N.V.**

Sint-Martinusweg 199-201 1930 Zaventem,  
Belgium  
Phone: +32-2-7209270  
Fax: +32-2-7208748

**KYOCERA Document Solutions France S.A.S.**

Espace Technologique de St Aubin  
Route de l'Orme 91195 Gif-sur-Yvette CEDEX,  
France  
Phone: +33-1-69852600  
Fax: +33-1-69853409

**KYOCERA Document Solutions Espana, S.A.**

Edificio Kyocera, Avda. de Manacor No.2,  
28290 Las Matas (Madrid), Spain  
Phone: +34-91-6318392  
Fax: +34-91-6318219

**KYOCERA Document Solutions Finland Oy**

Atomitie 5C, 00370 Helsinki,  
Finland  
Phone: +358-9-47805200  
Fax: +358-9-47805390

**KYOCERA Document Solutions****Europe B.V., Amsterdam (NL) Zürich Branch**

Hohlstrasse 614, 8048 Zürich,  
Switzerland  
Phone: +41-44-9084949  
Fax: +41-44-9084950

**KYOCERA Document Solutions****Deutschland GmbH**

Otto-Hahn-Strasse 12, 40670 Meerbusch,  
Germany  
Phone: +49-2159-9180  
Fax: +49-2159-918100

**KYOCERA Document Solutions Austria GmbH**

Eduard-Kittenberger-Gasse 95, 1230 Vienna,  
Austria  
Phone: +43-1-863380  
Fax: +43-1-86338-400

**KYOCERA Document Solutions Nordic AB**

Esbogatan 16B 164 75 Kista, Sweden  
Phone: +46-8-546-550-00  
Fax: +46-8-546-550-10

**KYOCERA Document Solutions Norge NUF**

Postboks 150 Oppsal, 0619 Oslo,  
Norway  
Phone: +47-22-62-73-00  
Fax: +47-22-62-72-00

**KYOCERA Document Solutions Danmark A/S**

Ejby Industrivej 60, DK-2600 Glostrup,  
Denmark  
Phone: +45-70223880  
Fax: +45-45765850

**KYOCERA Document Solutions Portugal Lda.**

Rua do Centro Cultural, 41 (Alvalade) 1700-106 Lisboa,  
Portugal  
Phone: +351-21-843-6780  
Fax: +351-21-849-3312

**KYOCERA Document Solutions****South Africa (Pty) Ltd.**

49 Kyalami Boulevard,  
Kyalami Business Park 1685 Midrand, South Africa  
Phone: +27-11-540-2600  
Fax: +27-11-466-3050

**KYOCERA Document Solutions Russia LLC**

Botanichesky pereulok 5, Moscow, 129090,  
Russia  
Phone: +7(495)741-0004  
Fax: +7(495)741-0018

**KYOCERA Document Solutions Middle East**

Dubai Internet City, Bldg. 17,  
Office 157 P.O. Box 500817, Dubai,  
United Arab Emirates  
Phone: +971-04-433-0412

**KYOCERA Document Solutions Inc.**

2-28, 1-chome, Tamatsukuri, Chuo-ku  
Osaka 540-8585, Japan  
Phone: +81-6-6764-3555  
<http://www.kyoceradocumentsolutions.com>