

**SP C360DNw, SP C360SFNw, SP  
C360SNw, SP C361SFNw  
Machine Code: M0B0, D0A0,  
D0AA, D0AB  
Field Service Manual  
Ver 1.0**

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Initial Release: Oct, 2017  
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# Important Safety Notices

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## Warnings, Cautions, Notes

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

### **WARNING**

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

### **CAUTION**

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

### **Important**

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

### **Note**

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

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## General Safety Instructions

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

### Safety Information

Always obey the following safety precautions when using this product.

### Safety During Operation

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



[A]: ON

[B]: OFF

[C]: Push ON/Push OFF

[D]: Standby

### Switches and Symbols

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



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## Safety

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### Prevention of Physical Injury

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

18. When using a vacuum cleaner around the machine, keep others away from the cleaner, especially small children.
19. For machines installed with the anti-tip components:

The anti-tip components are necessary for meeting the requirements of IEC60950-1, the international standard for safety. The aim of these components is to prevent the products, which are heavy in weight, from toppling as a result of people running into or leaning onto the products, which can lead to serious accidents such as persons becoming trapped under the product. (U.S.: UL60950-1, Europe: EN60950-1) Therefore, removal of such components must always be with the consent of the customer. Do not remove them at your own judgment.
20. **NEVER touch** the AC circuits on the PSU board to prevent electric shock caused by residual charge. Residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.

### Health Safety Conditions

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

### Observance of Electrical Safety Standards

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

### Safety and Ecological Notes for Disposal

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- Do not incinerate toner bottles or used toner. Toner dust may ignite suddenly when exposed to an open flame.
- Dispose of used toner, developer, organic photoconductors, and AIO unit in accordance with local regulations. (These are non-toxic supplies.)
- Dispose of replaced parts in accordance with local regulations.
- When keeping used lithium batteries in order to dispose of them later, do not put more than 100 batteries per sealed box. Storing larger numbers or not sealing them apart may lead to chemical reactions and heat build-up.

### **CAUTION**

The danger of explosion exists if a battery of this type is incorrectly replaced. Replace only with the same or an equivalent type recommended by the manufacturer. Discard used batteries in accordance

with the manufacturer's instructions.

## Handling Toner

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

## Handling the development unit cooling system

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For the machines installed the development cooling system:

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

## Lithium Batteries for Taiwan

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### 警告

本機器內的鋰電池如果更換不正確型號會有爆炸的危險。  
只能使用相同或製造商推薦同等類型的電池進行更換。  
請依製造商說明書處理用過之廢棄電池。

## Laser Safety

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

### **⚠ WARNING**

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

#### **WARNING FOR LASER UNIT**

##### **WARNING:**

Turn off the main switch before attempting any of the procedures in the Laser Unit section. Laser beams can seriously damage your eyes.



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## Safety Instructions for the Color Controller

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### Fuse

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

### Batteries

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#### **CAUTION**

Always replace a battery with the same type of battery prescribed for use with the color controller unit. Replacing a battery with any type other than the one prescribed for use could cause an explosion.





- Never discard used batteries by mixing them with other batteries or other refuse.
- Always remove used batteries from the work site and dispose of them in accordance with local laws and regulations regarding the disposal of such items.

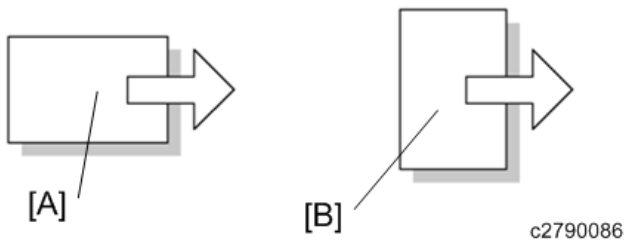


# Symbols, Abbreviations and Trademarks

## Symbols, Abbreviations

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

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



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

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- The product names of Windows Vista are as follows:

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Microsoft® Windows Server® 2008 Enterprise

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Microsoft® Windows Server® 2008 R2 Standard

Microsoft® Windows Server® 2008 R2 Enterprise

- The product names of Windows Server 2012 are as follows:

Microsoft® Windows Server® 2012 Foundation

Microsoft® Windows Server® 2012 Essentials

Microsoft® Windows Server® 2012 Standard

- The product names of Windows Server 2012 R2 are as follows:

Microsoft® Windows Server® 2012 R2 Foundation

Microsoft® Windows Server® 2012 R2 Essentials

Microsoft® Windows Server® 2012 R2 Standard

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# 1. Product Information

## Machine Codes and Peripherals Configuration

### Machine Names

Model Name	Machine Code	Product Name	Function	PPM (A4 SEF, Single-sided mode)	CPM (A4 SEF, Single-sided mode)	Controller
Ve-P2a	M0B0	SP C360DNw	Printer	FC: 30 ppm / B&W: 30 ppm	-	sGW
Ve-MF2a	D0A0	SP C360SFNw	4 in 1	FC: 30 ppm / B&W: 30 ppm	FC: 30 cpm / B&W: 30 cpm	sGW
Ve-MF2a	D0AA	SP C360SNw	3 in 1	FC: 30 ppm / B&W: 30 ppm	FC: 30 cpm / B&W: 30 cpm	sGW
Ve-MF2b	D0AB	SP C361SFNw	4 in 1	FC: 30 ppm / B&W: 30 ppm	FC: 30 cpm / B&W: 30 cpm	sGW

The machine codes have the following suffix codes, which show where the machine is delivered to.

Code	Area	Power
-17	North America/Central, South America	120-127V, 60Hz, 9A
-19	Taiwan	220-240V, 50/60Hz, 16A
-21	China	220-240V, 50/60Hz, 16A
-27	Asia/Pacific, Europe/Russia/Middle, Near East, Africa	220-240V, 50/60Hz, 5A

### List of Options

Item	Machine Code	Remarks
Paper Feed Unit TK1230	M407-17 (NA/EU/AP/TW) M407-21 (CHN)	Common (Ve-P1d)
Paper Feed Unit TK1240	M408-17 (NA/EU/AP/TW) M408-21 (CHN)	Common (Ve-P1d)
NFC Card Reader Type P14 *1	M531-01	New Only for SP C361SFNw (Ve-MF2b)
Handset HS1010	M444-38	Common (Gim-MF1) Only for SP C361SFNw (Ve-MF2b)

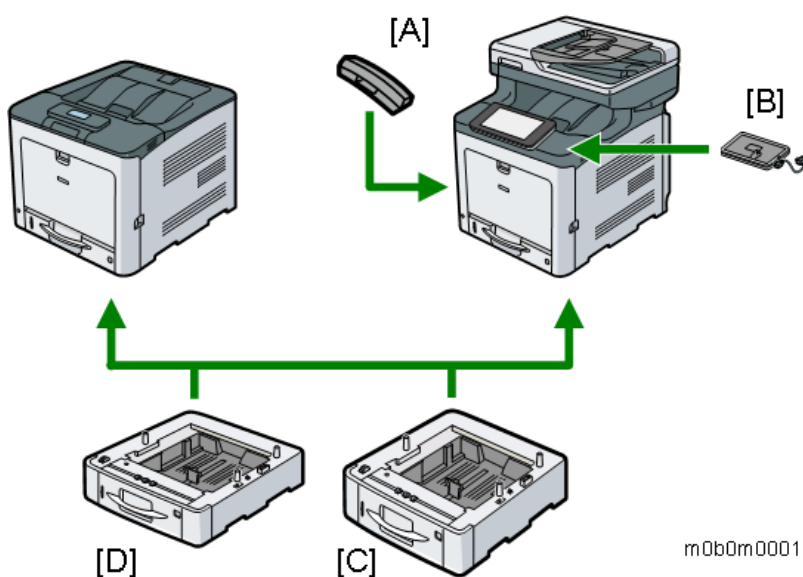
\*1: This unit will not be released in China and Taiwan.

Consumables

Item	Yield	Remarks
Print Cartridge Black SP C360X	10k	New Large-size Cartridge Only for SP C361SFNw
Print Cartridge Cyan SP C360X	9k	
Print Cartridge Magenta SP C360X	9k	
Print Cartridge Yellow SP C360X	9k	
Print Cartridge Black SP C360HA	7k	New Medium-size Cartridge
Print Cartridge Cyan SP C360HA	5k	
Print Cartridge Magenta SP C360HA	5k	
Print Cartridge Yellow SP C360HA	5k	
Print Cartridge Black SP C360A	2.5k	New Small-size Cartridge
Print Cartridge Cyan SP C360A	1.5k	
Print Cartridge Magenta SP C360A	1.5k	
Print Cartridge Yellow SP C360A	1.5k	
Black Drum Unit SP C352	-	Common (SP C352DN)
Color Drum Unit SP C352	-	Common (SP C352DN)
Fusing Unit SP C352	-	Common (SP C352DN)
Transfer Unit SP C352	-	Common (SP C352DN)
Waste Toner Bottle SP C35	-	Common (SP C352DN)
Carrier Sheet Type P14	-	New

The Print Cartridge is incompatible with SP C352DN because of the ID chip information.

Diagram



Callout	Name
A	Handset (Only for NA)

## 1.Product Information

Callout	Name
B	NFC Card Reader Type P14
C *1	Paper Feed Unit TK1240 (500-sheet)
D *1	Paper Feed Unit TK1230 (250-sheet)

\*1 Only one optional paper feed unit can be installed, SC790-00 occurs if you stack two or more paper feed units.

## **Specifications**

See "Appendices" for the following information:

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

## 2. Installation

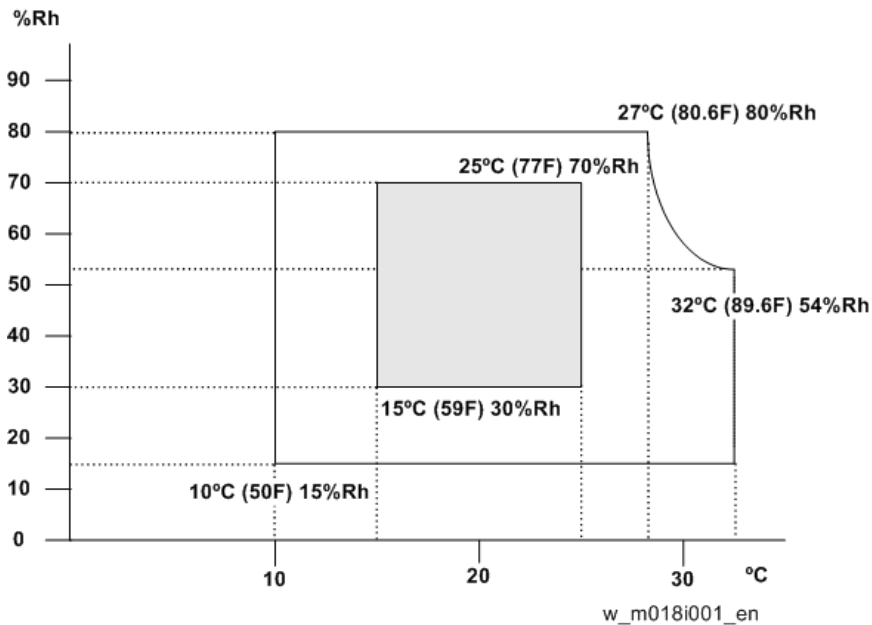
---

### Installation Requirements

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#### Environment

---



1. Temperature Range: 10°C to 32°C (50°F to 89.6°F)
2. Humidity Range: 15% to 80% RH
3. Ambient Illumination: Less than 2,000 lux (do not expose to direct sunlight)
4. Ventilation: 30m<sup>3</sup> /hr/person
5. Do not install the machine at locations over the following heights above sea level.  
All areas except for China: 2,500 m (8,125 ft.)  
China: 2,000 m (6,562 ft.)
6. Atmospheric pressure: more than 740 hPa.

---

#### Machine Level

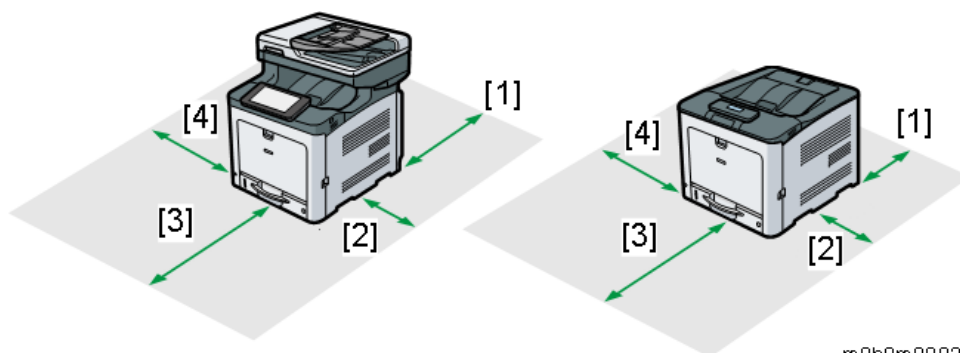
---

Front to back: Within 5 mm (0.2") of level

Right to left: Within 5 mm (0.2") of level



## Machine Space Requirements



m0b0m0002

1	Rear	Printer model: Over 10 cm (3.9") MF models: Over 35 cm (13.8")
2	Right	Over 10 cm (3.9")
3	Front	Over 70 cm (27.6")
4	Left	Over 20 cm (7.9")

## Power Requirements

### **⚠ CAUTION**

- Make sure the plug is firmly inserted in the outlet.
- Avoid multi-wiring.
- Be sure to ground the machine.
- Never place anything on the power cord.

#### 1. Input voltage level:

Destination	Power supply voltage	Frequency
NA	120 V to 127 V	60 Hz
EU/AP/CHN	220 V to 240V	50 Hz/60 Hz
TWN	110V	60 Hz

#### 2. Permissible voltage fluctuation:

Destination	For printing images	For operating
NA	+8.66 / -10%	+8.66 / -15%
EU/AP/CHN, TWN	±10%	±15%

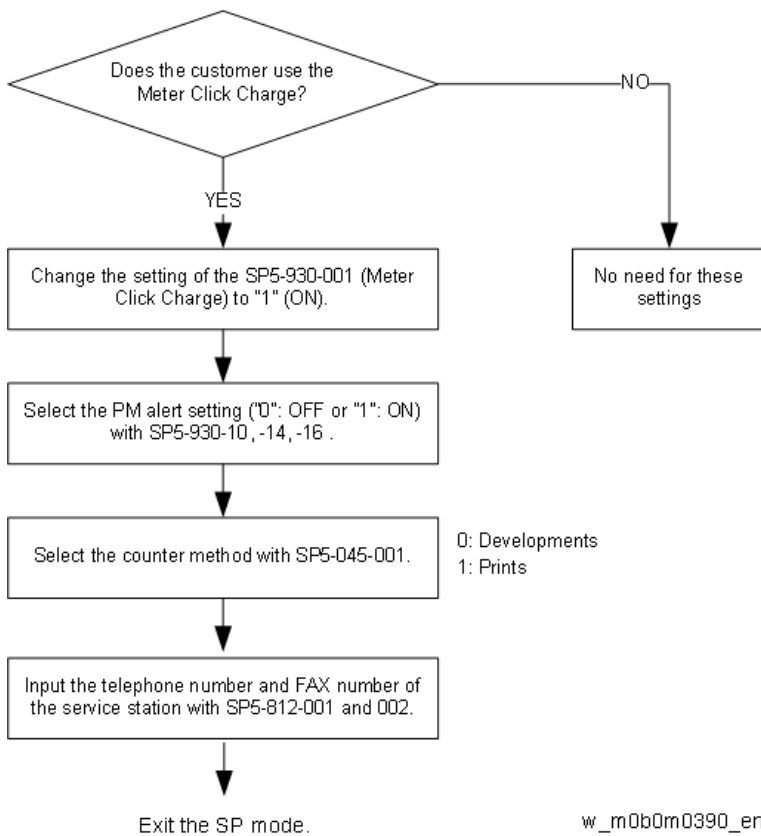
## Main Machine Installation

### Main Machine Installation

These machines and all peripherals are installed by the customer.

The installation procedures are described in the operating instruction manuals.

Change the necessary settings for the following SP modes if the customer has a meter click charge contract.



SP No.	Function	Default
SP5-930-001 Meter Click Charge	<p>Enables or disables the meter click charge setting. ("1" ON, "0" OFF)</p> <p>When enabled ("1" ON):</p> <ul style="list-style-type: none"> <li>The counter menu appears immediately after you push the "counter" key.</li> <li>The "Counter Method" (SP5-045) sets the type of counter.</li> <li>You can print the counter from the counter menu.</li> </ul> <p>When disabled ("0" OFF):</p> <ul style="list-style-type: none"> <li>The counter menu does not appear.</li> <li>To check the counter, the technician must print the SMC</li> </ul>	"0": OFF

SP No.	Function	Default
	report (SP 5-990).	
SP5-930-010 Meter Click Charge: PCDU	Enables or disables the PM alert for the PCDUs. If this SP is enabled, an alert message is displayed when the PCDUs need to be replaced.	"1": No alert
SP5-930-014 Meter Click Charge: Image Transfer Belt Unit	Enables or disables the PM alert for the image transfer belt unit. If this SP is enabled, an alert message is displayed when the image transfer belt unit needs to be replaced.	"1": No alert
SP5-930-016 Meter Click Charge: Fusing Unit	Enables or disables the PM alert for the fusing unit. If this SP is enabled, an alert message is displayed when the fusing unit needs to be replaced.	"1": No alert
SP5-045-001 Counter method	Sets the counting method. For details, see the table below.	"1": Prints
SP5-812-001 and -002 Service Tel: Telephone / Facsimile	-001: shows or sets the telephone number of the service representative. -002: shows or sets the fax number of the service station. The number is printed on the counter list when "Meter Click Charge" is enabled. Users can send the counter list as a fax message.	

### Counter Display Method

There are 2 types (Developments and Prints). The display mode can be set with SP5-045-001 (Accounting counter: Counter Method).

0	Development Count	YMC Development Counter Bk Development Counter
1	Print Count (Default)	Color Print Counter B&W Print Counter Color Total Counter B&W Total Counter
Value	Mode	Descriptions

---

## Moving the Machine

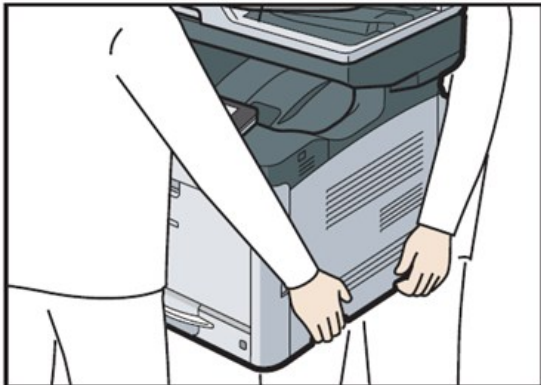
---

This section shows you how to manually move the machine from one floor to another floor. See the section "Transporting the Machine" if you have to pack the machine and move it a longer distance.

- Turn the main power OFF and pull out the plug.
- Close all the covers and trays.
- Remove peripherals physically attached to the main machine if possible.

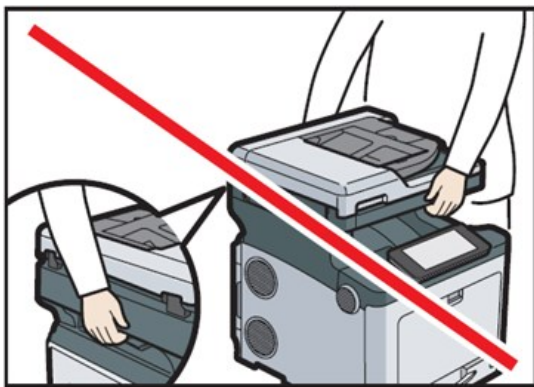
## 2. Installation

- Keep the machine horizontal and move it slowly. Tipping and excess vibrations may damage the machine.
- Lift the machine using the grips on both sides of the machine.



m0b0m0003

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



m0b0m0004

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## Transporting the Machine

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1. When moving the printer after use, do not take out any of the toners, nor the waste toner bottle to prevent toner spill inside the printer.
2. Do one of the following steps:
  - Attach shipping tape to the covers and doors.
  - Shrink-wrap the machine tightly.
3. The machine should always be lifted by at least two people.
4. When moving the printer, use the grips on both sides, and then lift it slowly. The printer will break or cause injury if dropped or not using the insert grips. Be sure not to hold the paper feed tray.
5. Re-attach peripherals to the main machine if removed.

## Machine Data Encryption

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### Overview

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This function is used for encrypting data when storing it in the machine.

Even if the NVRAM or the micro SD card is stolen, data leakage can be prevented by encrypting the data on them.

#### Note

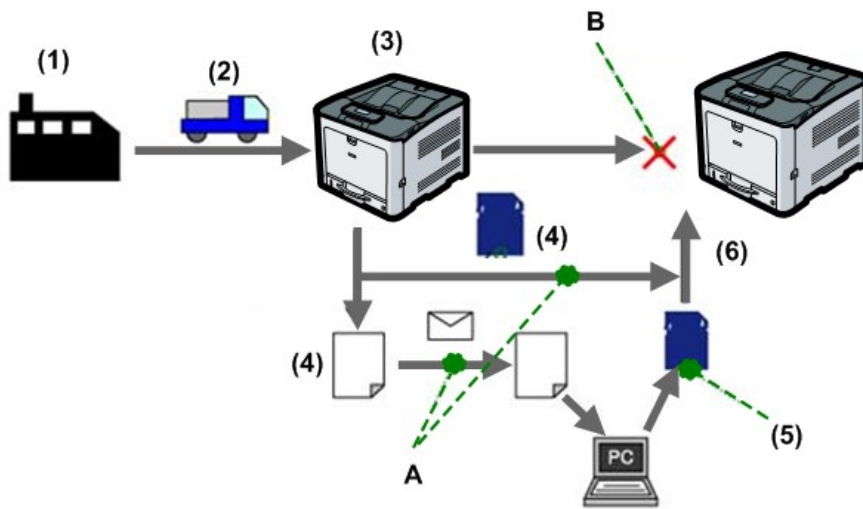
- This encryption setting must be specified by the customer.
- When the customer logs into the machine with the machine administrator's privilege and specifies the encryption setting, the encryption key is backed up.
- The back-up method can be selected from "Save to SD Card" and "Print on Ppr".  
Note: Only "Print on Ppr" is available for printer models.
- The customer keeps the encryption key.
- After replacing the part (controller board), get the SD card that contains the encryption key information ready and perform the NVRAM and microSD data recovery.  
(If the encryption key is already stored in the SD card, the SD card can be used as it is.)
- If the paper on which the Encryption Key is printed has been lost, the SD card that contains the encryption key is damaged, or the serial number data in the SD card is corrupt, NVRAM and SD card data recovery cannot be performed.
- The notes relating to the microSD card do not apply to models not equipped with a microSD card.
- The data in the microSD card is deleted when the encryption is configured/cancelled.

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### Setting Procedure

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## 2. Installation



m0b0m0395

(1): Setup (at the factory)

(2): Delivery

(3): Encryption (performed by the customer)

(4): Backing up the encryption key (printing or storing on the SD card)

Note: Only MF models support storing on the SD card.

(5): Storing the encryption key on the SD card brought by the service technician.

(6): Data restoration with the encryption key

A: The customer keeps the encryption key.

B: Controller board failure

---

## Data That is Encrypted

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This function encrypts data that is stored in the machine's NVRAM, or micro SD card.

- Address book information
- User code/authentication information
- Temporarily stored documents
- Logs (Job log/access log/Eco-friendly log)
- Network I/F setting information
- System settings information
- SAF/Fax communication history

### Note

The notes relating to the microSD card do not apply to models not equipped with a microSD card.

## Notes for Encrypting Data on the Machine

**What Happens if the Encryption Function is Active**

NO.	When replacing	Encryption status
1	Micro SD card	<p>The data in the microSD card is deleted.</p> <p>After the replacement, a message prompting you to format the microSD card appears.</p> <p>If you press the [Initialization] button, data encryption starts over.</p>
2	NVRAM	<p>After the replacement, a message prompting you to restore the data appears.</p> <p>After executing forced start-up, the NVRAM/microSD card must be formatted.</p> <p>After cancelling data encryption, a message prompting you to format the microSD card appears.</p> <p>If you press the [Initialization] button, data encryption starts over.</p>
3	Controller Board	<p>After the replacement, a message prompting you to restore the data appears.</p> <p><b>The encryption key is available.</b></p> <p>You can continue using the NVRAM/microSD card data.</p> <p><b>The encryption key is unavailable.</b></p> <p>After executing the forced start-up, it is necessary to format the NVRAM/microSD card.</p> <p>After cancelling data encryption, a message prompting you to format the microSD card appears.</p> <p>If you press the [Initialization] button, data encryption starts over.</p>
4	Controller Board and NVRAM	<p>The encryption key is entirely deleted along with the data in the microSD card.</p> <p>After the replacement, a message prompting you to format the microSD card appears.</p> <p>If you press the [Initialization] button, data encryption is cancelled.</p>
5	Controller Board and Micro SD card	<p>After the replacement, a message prompting you to restore the data appears.</p> <p><b>The encryption key is available.</b></p> <p>You can continue using the NVRAM.</p>

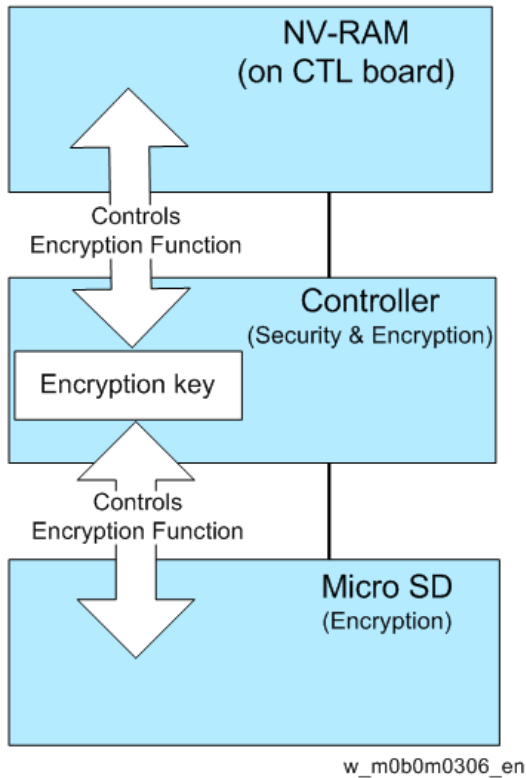
## 2. Installation

NO.	When replacing	Encryption status
		<p>After the restoration, a message prompting you to format the microSD card appears.</p> <p>If you press the [Initialization] button, data encryption starts over.</p> <p><b>The encryption key is unavailable.</b></p> <p>After executing the forced start-up, it is necessary to format the NVRAM/microSD card.</p> <p>After the recovery by the forced start-up, a message prompting you to format the microSD card appears.</p> <p>If you press the [Initialization] button, data encryption is cancelled.</p>
6	NVRAM and Micro SD card	<p>After the replacement, a message prompting you to restore the data appears.</p> <p>After the replacement, a message prompting you to format the NVRAM/microSD card appears.</p> <p>After recovery by the forced start-up, reconfigure data encryption. (Cancel data encryption and then execute data encryption again.)</p> <p>Note: In some cases, a message prompting you to format the microSD card appears. If it does, there is no need to reset data encryption.</p> <p>If you press the [Initialization] button, data encryption starts over.</p>
7	Controller Board, Micro SD card, and NVRAM	<p>All the encryption key information is deleted. The data in the NVRAM/microSD card is also deleted when replacing the NVRAM/microSD card. (After the replacement, the data encryption key is cancelled.)</p>

### Note

The notes relating to the microSD card do not apply to models not equipped with a microSD card.






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## Enabling the Encryption Settings

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This setting must be done by the customer. Advise the customer to enable this setting as necessary.

### MF Models

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#### ↓ Note

The procedure relating to the microSD card do not apply to models not equipped with a microSD card.

- 1.** Log in as the machine administrator from the operation panel.
- 2.** Press the [User Tools] icon.
- 3.** Press [Machine Features].
- 4.** Press [System Settings].
- 5.** Press the [Administrator Tools] tab.
- 6.** Press [Next] 5 times
- 7.** Press [Machine Data Encryption Settings].
- 8.** Press [Encrypt].

#### ↓ Note

The machine cannot be operated while data is being encrypted.

Once the encryption process starts, it cannot be stopped.

If the power switch is turned OFF, the micro SD card, and/or NVRAM will be damaged and all data in it will be unusable.

- 9.** Specify how to back up the encryption key.

## 2. Installation

- If you select [Save to SD Card], insert an SD card into the media slot on the side of the operation panel and press [OK] to back up the machine's data encryption key.
- If you select [Print on Ppr], press [Start] and print out the machine's data encryption key.

### Note

The encryption key is required for data recovery if the machine malfunctions. Be sure to instruct the customer to keep it in a safe place.

## **10.** Press [Restart] to reboot the machine.

### Note

When you reboot the machine, the machine will start to convert the data in the memory. Wait until the message “Memory conversion complete. Turn the main power switch off.” appears, and then turn the main power switch OFF again.

## Printer Model

---

- 1.** Log in as the machine administrator.
- 2.** Press the “Menu” key.
- 3.** Select “Security Options” by using the Up or Down key.
- 4.** Press “Machine Data Encryption”.
- 5.** Press “Encrypt”.

### Note

The machine cannot be operated while data is being encrypted.

Once the encryption process starts, it cannot be stopped.

If the power switch is turned OFF, the NVRAM will be damaged and all data in it will be unusable.

- 6.** Press “PrtOnPpr” after “Select the method to backup the new machine data encryption key” is displayed.

Only the method to print the encryption key is available for printer models.

- 7.** Press “Print” to print the new encryption key.

### Note

The encryption key is required for data recovery if the machine malfunctions. Be sure to instruct the customer to keep it in a safe place.

- 8.** Check that the message “Check the key is printed properly. Press continue to encrypt.” appears, then press “Continue”.

9. Press [Restart] to reboot the machine.

**Note**

When you reboot the machine, the machine will start to convert the data in the memory. Wait until the message “Memory conversion complete. Turn the main power switch off.” appears, and then turn the main power switch OFF again.

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## Backing Up the Encryption Key

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### MF Models

---

To restore the encrypted data, you need the Encryption key that was generated when enabling the encryption setting.

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

1. Log in as the machine administrator from the operation panel.
2. Press the [User Tools] icon.
3. Press [Machine Features].
4. Press [System Settings].
5. Press the [Administrator Tools] tab.
6. Press [Next] 5 times.
7. Press [Machine Data Encryption Settings].
8. Press [Back Up Encryption Key].
9. Specify how to back up the encryption key.
  - If you select [Save to SD Card], insert an SD card into the media slot on the side of the operation panel and press [OK] to back up the machine's data encryption key.
  - If you select [Print on Ppr], press [Start] and print out the machine's data encryption key.
10. Press [Exit].
11. Log out

### Printer Model

---

To restore the encrypted data, you need the Encryption key that was generated when enabling the encryption setting.

To back up, only “print on paper (PrtOnPpr)” is available for the printer model.

## 2. Installation

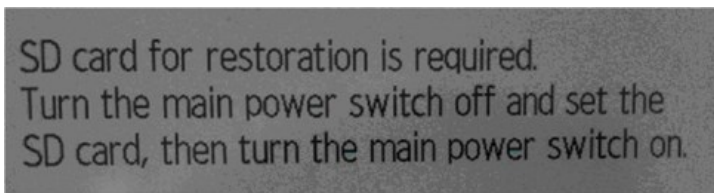
1. Log in as the machine administrator.
2. Press the “Menu” key.
3. Select “Security Options” by using the Up or Down key.
4. Press “Machine Data Encryption”.
5. Press “Backup Encryption Key”.
6. Press “PrtOnPpr” after “Select the method to backup the new machine data encryption key” is displayed.
7. Press “Print” to print the encryption key.
8. Press the “Menu” key to go back to the operation mode.

---

## Recovery Procedure

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In the machine in which the data is encrypted, the following message appears after the controller board is replaced.



d1420101

Using the encryption key kept by the customer, get an SD card ready for restoration, and then execute the restoration. (If the encryption key is already stored on an SD card, use that SD card.)

If the customer has lost the encryption key, get ready an SD card for canceling data encryption, and then execute forced start-up without an encryption key. (In this case, the existing data in the NVRAM and microSD card is deleted.)

### Note

The notes relating to the microSD card do not apply to the models not equipped with a microSD card.

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## Restoring the Encryption Key

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### MF Models

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If the encryption key is printed on paper, first get an SD card ready to enter the encryption key. If you have already stored the encryption key on an SD card, start this procedure from step 6.

1. Prepare an SD card that has been initialized in FAT16 format.
2. Using a PC, create a folder in the SD card and name it "restore\_key".
3. Create a folder in the “restore\_key” folder and name it the same as the machine’s serial number, “xxxxxxxxxxx” (11 digits).
4. Create a text file called "key\_XXXXXXXXXX.txt" and write the encryption key.

### Note

Write this string at the head of the file.

Use all lower-case letters.

Do not use quotation marks, line breaks, or blank spaces.

- 5.** Save the text file in the "xxxxxxxxxx" folder created in Step 3.  
/restore\_key/xxxxxxxxxx/key\_xxxxxxxxxxx.txt
- 6.** Turn the power switch ON.
- 7.** Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
- 8.** Turn the power switch OFF.
- 9.** Insert the SD card that contains the encryption key into the machine's rear SD card slot.
- 10.** With a model equipped with a microSD card, after replacing the controller board, remove the NVRAM and microSD card from the old controller board and install them on the new controller board.
- 11.** Turn the power switch ON.

**Note**

The machine will automatically restore the encryption key to the controller board.

- 12.** Turn the power switch OFF after the restoration is completed.
- 13.** Remove the SD card.
- 14.** Turn the power switch ON.
- 15.** After a message is displayed on the LCD telling you to initialize the micro SD card, turn the power switch OFF (Do not press "Initialization" button)

**Note**

Check whether the microSD card has been replaced in step 10.

If the microSD card has not been replaced, turn the power off without pressing the "Initialization" button, install the microSD card on the new controller board, turn the power back on, and then press the "Initialization" button. If you press the "Initialization" button without replacing the microSD card, the data in the microSD card cannot be recovered.

## Printer Model

---

The encryption key is kept only on paper. Get an SD card ready for restoring the encryption key.

- 1.** Prepare an SD card that has been initialized in FAT16 format.
- 2.** Using a PC, create a folder in the SD card and name it "restore\_key".
- 3.** Create a folder in the "restore\_key" folder and name it the same as the machine's serial number, "xxxxxxxxxx" (11 digits).

## 2. Installation

4. Create a text file called "key\_XXXXXXXXXX.txt" and write the encryption key.

**Note**

Write this string at the head of the file.

Use all lower-case letters.

Do not use quotation marks, line break, or blank spaces.

5. Save the text file in the "XXXXXXXXXX" folder created in Step 3.

/restore\_key/XXXXXXXXXX/key\_XXXXXXXXXX.txt

6. Turn the power switch ON.

7. Check that a message "SD card for restoration is required. Please call service" is displayed on the LCD.

8. Turn the power switch OFF.

9. Insert the SD card that contains the encryption key into the machine's rear SD card slot.

10. Turn the power switch ON.

**Note**

The machine will automatically restore the encryption key to the controller board.

11. After "Restoration complete. Turn the power switch off, then on." is displayed, then turn the power switch OFF.

12. Remove the SD card.

13. Turn the power switch ON.

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## Forced Start Up with No Encryption Key

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### MF Models

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**Note**

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

**Important**

When the restoration is carried out in the following procedure, data on the micro SD and NV-RAM are initialized (encrypted data will be deleted, and the user settings will be cleared).

SC870-09 may occur. In such a case, the address book is formatted, so be sure to back up the address book.

1. Prepare an SD card.
2. Create a directory named "restore\_key" inside the root directory of the SD card.
3. Save the "nvram\_key.txt" file using the following name:

/restore\_key/nvram\_key.txt

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

**Note**

Write this string at the head of the file.

Use all lower-case letters.

Do not use quotation marks, line break, or blank spaces.

5. Turn the power switch OFF.
6. Insert the SD card that contains nvram\_key.txt" into the machine's rear SD card slot.
7. Turn the power switch ON.
8. Check that a message "Are you sure you want to clear the NVRAM?" is displayed on the LCD, then press the execute button.
9. Check that a message "Initialize the NVRAM after the machine is started." appears, and then turn the power switch OFF.
10. Remove the SD card.
11. Turn the power switch ON.

**Note**

If SC870-09 occurs, turn the power off and then back on. The address book is formatted during initialization.

12. Check that a message is displayed on the LCD telling you to initialize the micro SD card, then press "Initialization".

**Note**

If the message reporting the formatting does not appear in step 12, reconfigure data encryption (cancel data encryption and then execute data encryption again), and then proceed to step 15. (For details about cancelling and then executing data encryption, see "Enabling the Encryption Settings".)

13. After Initialization is completed, turn the power switch OFF.
14. Turn the power switch ON.
15. Do SP5-801-001 (Memory Clear/All Clear)
16. Set necessary user settings with the User Tools menu.

## Printer Model

---

**Note**

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

**Important**

When the restoration is carried out in the following procedure, data of NVRAM is initialized (Encrypted

## 2. Installation

data will be deleted, and the user settings will be cleared.).

SC870-09 may occur. In such a case, the address book is formatted, so be sure to back up the address book.

- 1.** Prepare an SD card.
- 2.** Create a directory named "restore\_key" inside the root directory of the SD card.
- 3.** Save the "nvram\_key.txt" file using the following name:  
/restore\_key/nvram\_key.txt
- 4.** Create a text file and write "nvclear".

### Note

Write this string at the head of the file.

Use all lower-case letters.

Do not use quotation marks, line break, or blank spaces.

- 5.** Turn the power switch OFF.
- 6.** Insert the SD card that contains "nvram\_key.txt" into the machine's rear SD card slot.
- 7.** Turn the power switch ON.
- 8.** Confirm that a message "Are you sure you want to clear the NVRAM?" is displayed on the LCD, then press the "OK" button.
- 9.** Confirm that a message "Initialize the NVRAM after the machine is started." then turn the power switch OFF.
- 10.** Remove the SD card.
- 11.** Turn the power switch ON.

### Note

If the message "Address book data error" appears, turn the power off and then back on. (SC870-09 is added to the SC history.)

- 12.** Do SP5-801-001 (Memory Clear/All Clear)
- 13.** Set necessary user settings with the User Tools key.



## Option Installation

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### Paper Feed Unit TK1230 (M407)

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This optional unit is installed by the customer.

Only one optional paper feed unit can be installed. SC790-00 occurs if you stack two or more paper feed units.

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### Paper Feed Unit TK1240 (M408)

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This optional unit is installed by the customer.

Only one optional paper feed unit can be installed. SC790-00 occurs if you stack two or more paper feed units.

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### NFC Card Reader Type P14 (M531)

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This optional unit is installed by the customer.

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### Handset HS1010 (M448)

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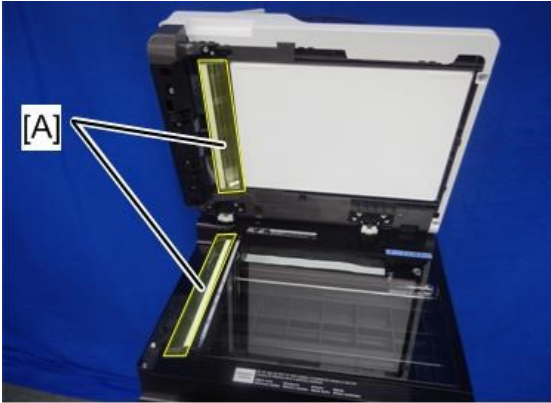
This optional unit is installed by the customer.

## 3. Preventive Maintenance

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### Requests for Daily Care and Maintenance to Customers

Clean the sheet-through exposure glasses [A] with a soft damp cloth and then wipe them with a dry cloth to remove any remaining moisture.



m0b0m0056

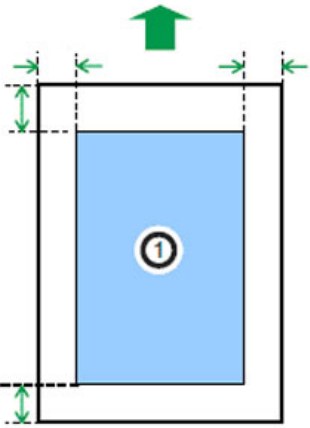
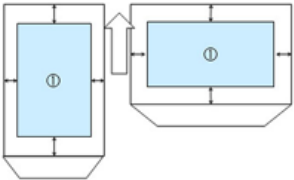
## **Preventive Maintenance Tables**

See "Appendices" for the following information:

- Preventive Maintenance Items

## Image Quality Standards

### Engine

Item	Specification	Remarks
Assured Image Area	<p><b>Except Envelopes</b> The standard print area of a sheet is the area enclosed by margins of 4.2 mm from all sides of the sheet.</p> <p><b>Envelopes</b> The 15mm excluding the flap portion from the rear end / tip of the sheet, except for the region of the left and right ends 10mm.</p>	<p><b>Except Envelopes</b></p>  <p><b>Envelopes</b></p> 
Magnification Error	<p>Main: <math>\pm 0.50\%</math> or more</p> <p>Sub: <math>\pm 0.50\%</math> or less</p>	Scale

### DF

Item	Specification	Remarks
Magnification Error	<p>Main: <math>\pm 1.0\%</math></p> <p>Sub: <math>\pm 2\%</math> or less <math>\pm 4\%</math> or less (ID card)</p>	

### Scanner

Item	Specification	Remarks
Magnification Error	<p>Main: <math>\pm 0.5\%</math> or less</p> <p>Sub: <math>\pm 0.25\%</math> or less</p>	
Registration	<p>Main: <math>\pm 1.5\text{mm}</math></p> <p>Sub: <math>\pm 1.5\text{mm}</math></p>	
Skew (main)	$\pm 0.5\text{mm}/100\text{mm}$ or less	

## Paper Transfer Quality Standards

Item	Specification	Remarks
Registration	<p><b>Single Side:</b>            Width: <math>0\pm 2.0</math>mm (Main Scan Direction)            Vertical: All Environments <math>0\pm 2.0</math>mm (Sub Scan Direction)</p> <p><b>Duplex:</b>            Width: <math>0\pm 3.0</math>mm (Main Scan Direction)            Vertical: All Environments <math>0\pm 3.0</math>mm/<math>0\pm 4.0</math>mm (Sub Scan Direction)</p>	Scale
Skew	<p><b>Single Side:</b>  <math>\pm 1.0</math>mm/100mm or less (Less than B5 SEF)  <math>\pm 1.0</math>mm/200mm or less (B5 SEF or more)</p> <p><b>Reverse Side</b>  <math>\pm 1.5</math>mm/100mm or less (Less than B5 SEF)  <math>\pm 1.0</math>mm/100mm or less (B5 SEF or more)</p>	Except if the paper is more than LG size.

These standards are determined using the standard paper with the standard conditions. The value may change depend on the environmental conditions such as temperature, humidity, and used paper, etc.

## 4. Replacement and Adjustment

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### General Cautions

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#### Notes on the Main Power Switch

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The main power button of this machine is changed to a push-button switch (push button) from the conventional rocker switch. The push switch has characteristics and specifications different from the rocker switch. Care must be taken when replacing and adjusting parts.

#### Characteristics of the Push Switch (DC Switch)

---

##### **Power is supplied to the machine even when the main power switch is turned OFF.**

The push switch in this machine uses DC (direct current). Therefore, if the AC power cord is connected to an electrical outlet, power is supplied to the controller board and other modules even when the main power is turned OFF. When replacing components with the power cord connected, it can damage components.

So, when performing maintenance work such as replacing parts, in addition to turning off the main power with the push switch, always unplug the AC power cord.

##### **When you disconnect the power cord from the AC wall outlet, inside the machine there is still residual charge.**

When you disconnect the power cord from the AC wall outlet, inside the machine for a while there is still residual charge. Therefore, if you remove boards in this state, it can cause a blown fuse or memory failure.

-- How to remove the residual charge inside the machine--

After you unplug the power cord from the AC wall outlet, in order to remove the residual charge from inside the machine, be sure to press the main power switch. Thus, the charge remaining in the machine is released, and it is possible to remove boards.

##### **When you reconnect the AC power cord into an AC wall outlet, the machine will start automatically.**

In order to remove the residual charge, push the main power switch after you disconnect the AC power cord. At that time, the power ON flag inside the machine is set. Therefore, after you finish work on the machine and reconnect the power cord to the AC, even if you do not press the main power switch, the machine will start automatically and the moving parts will begin to move. When working on moving parts, be careful that fingers or clothes do not get caught.

#### Note

- Automatic restart deals with cases when you accidentally unplugged the AC power cord or unexpected power outages. By keeping the power flag ON, after the resumption of power, the

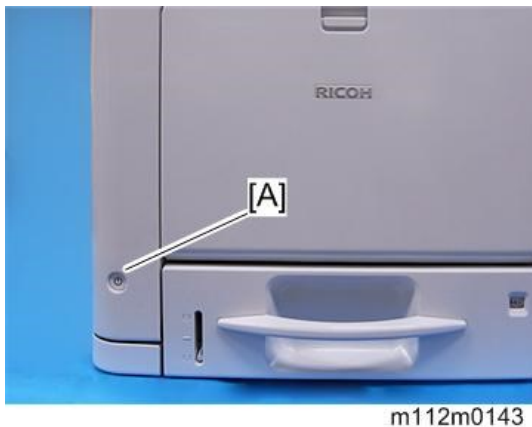
machine will start up automatically.

In rare cases, when you reconnect the AC power cord to a power outlet, the machine does not start automatically. In this case, the machine has not failed. The cause is due to the timing of releasing the residual charge. If you press the main power switch while the residual charge was already released, the power ON flag will not be set. At this time, start the machine manually by pressing the main power switch.

### Shutdown Method

---

- 1.** Press the main power switch [A] on the left side of the machine.



After the shutdown process, the main power is turned off automatically.

When the shutdown is complete

Operation panel LED: Off

- 2.** Pull out the power cord.
- 3.** Wait 3 minutes (this is the time required if you will remove the rear cover and access the interior of the machine, to take out the controller board for example).

Note: If some LEDs on any of the boards are blinking or lit, current is still flowing.

### How to start from shutdown

To start the machine, press the main power switch. However, if you press the main power switch between the beginning and the end of a shutdown, the machine will not start.

### Forced Shutdown

---

In case normal shutdown does not complete for some reason, the machine has a forced shutdown function.

To make a forced shutdown, press and hold the main power switch for 6 seconds.

In general, do not use the forced shutdown.

#### **★ Important**

- Forced shutdown may damage the memory, and can cause damage to the machine. Use a forced shutdown only if it is unavoidable.

## Special Tools

No	Part Number	Description	Q'ty	New or Common	Remarks
1	-	PC for Windows Vista/7/8.1/10, Windows server 2008/2012/2012 R2/ 2016 (USB or network connection)	1		
2	B6455030	SD Card 2GB	1	C (General)	
3	B6455040	SD Card 8GB	1	C (General)	
4	B6455060	SD Card 16GB	1	C (General)	
5	M0B07480	Color Chart Sheet	1	C (General)	
6	VSST9003	C-5Y Color Chart (3 pcs/set)	1	C (General)	For MF Models
7	C4019503	20X Magnification Scope	1	C (General)	For MF Models
8	VSSG9006	MOLYKOTE(R) G-1077 GREASE 50G	1	C (General)	For MF Models

**Note**

- C-5Y Color Chart is a set of two A4 size charts and looks like this.

Chart1



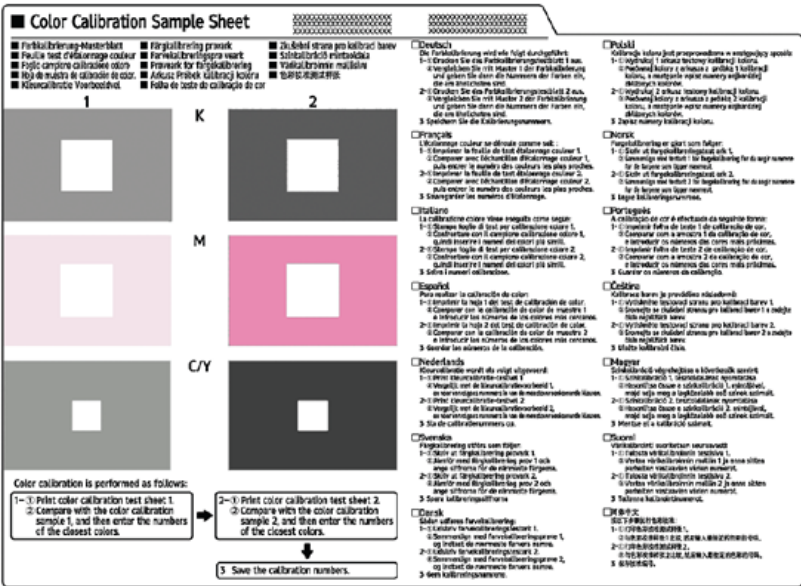
Chart2



d296c4001



- The Color Chart Sheet looks like this.

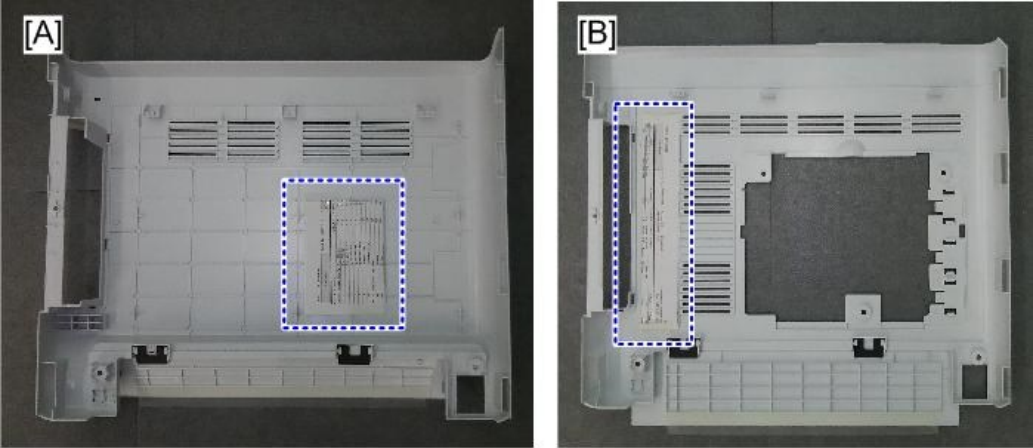


m0b0m0391

SMC Report (Factory Settings) Storage

- Remove the rear cover, then store the SMC report inside the rear cover (blue square) as shown in the photo below.

- [A]: MF models
- [B]: Printer model



m0b0m0386

## Exterior Covers

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### Rear Cover

---

Printer Model

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- 1.** Remove the cover [A] and cable cover [B].



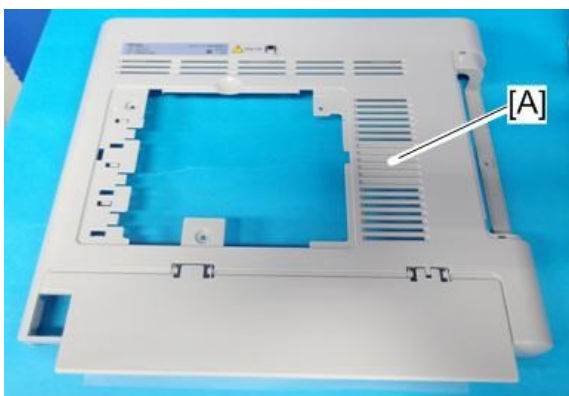
m112m0033

- 2.** Remove the rear cover [A].



 x6

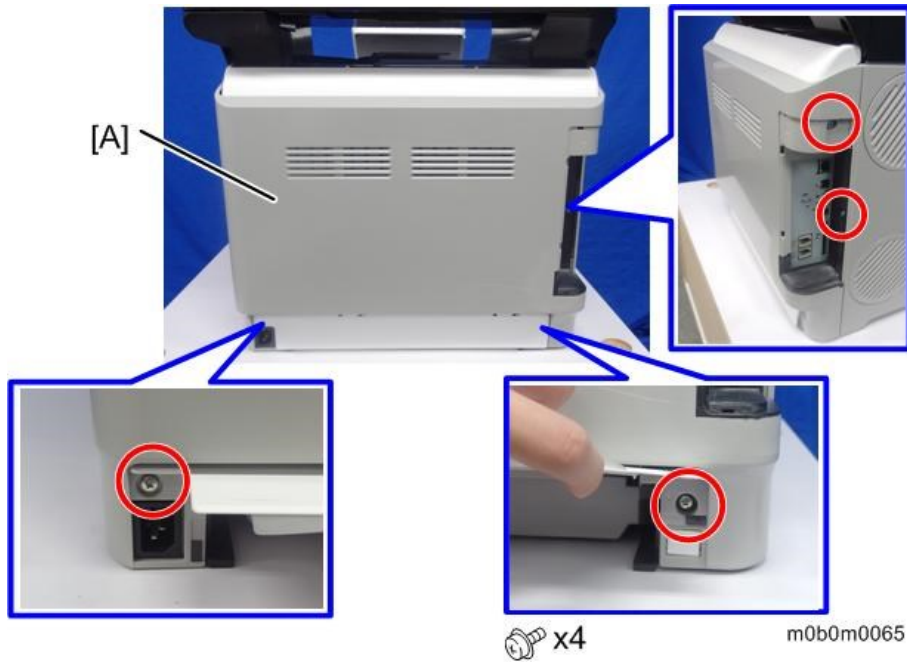
m0b0m1048



m112m0139

MF Models

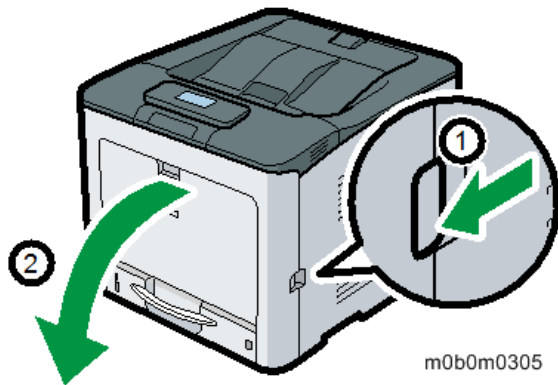
1. Remove the rear cover [A].



Paper Exit Cover (with Operation Panel)

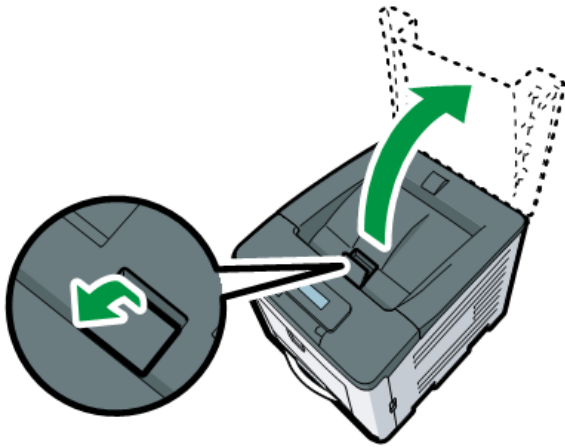
Printer Model

1. Pull the front cover open lever (1), and then open the front cover with both hands carefully (2).



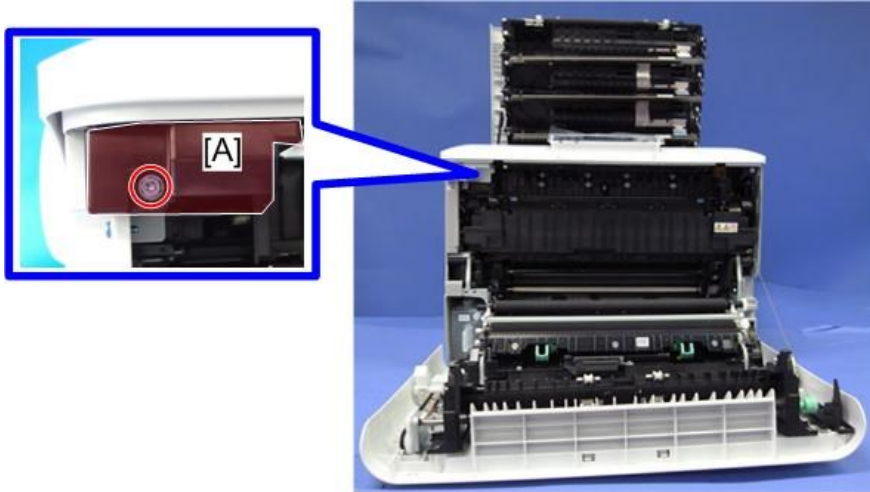
#### 4.Replacement and Adjustment

2. Open the upper cover.



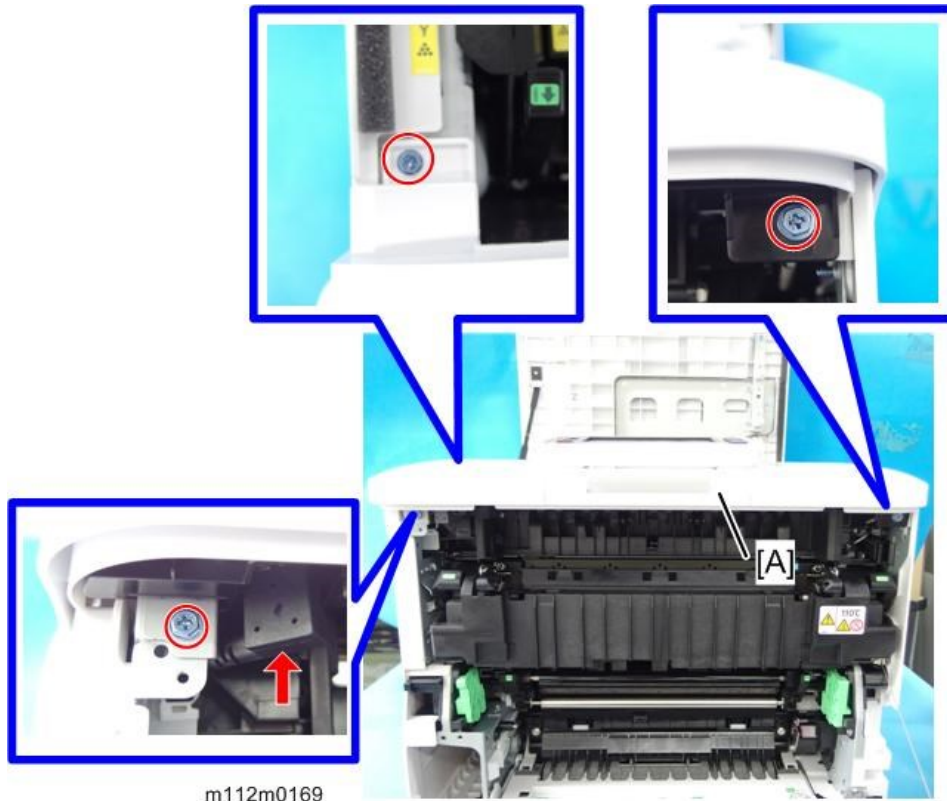
m0b0m0302

3. Remove the connector cover [A] (⊗ ×1).



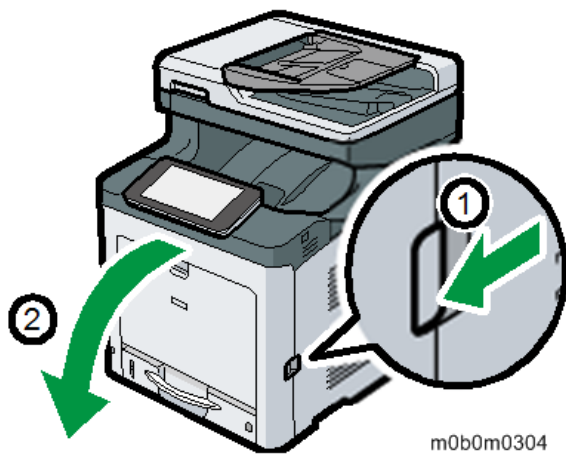
m112m0168

- 4.** Remove the paper exit cover [A] (⚙️×3, 📦×1).



MF Models

- 1.** Pull the front cover open lever (1), and then open the front cover with both hands carefully (2).



- 2.** Remove the connector cover [A].



#### 4.Replacement and Adjustment



x1

m0b0m0110

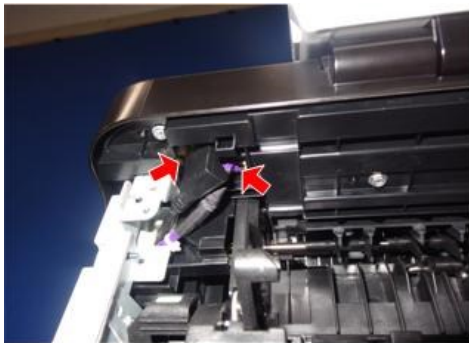
- 3.** Remove the two screws of the paper exit cover.



x2

m0b0m0111

- 4.** At the bottom of the paper exit cover, disconnect the two harnesses.



x2

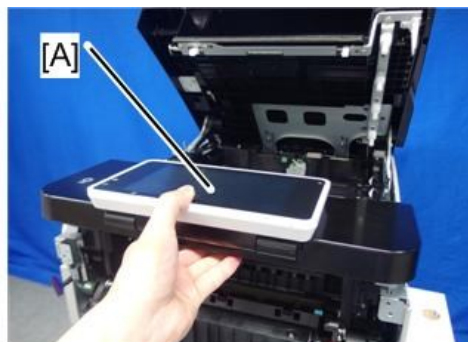


m0b0m0112

- 5.** Remove the paper exit cover with operation panel [A].



x1



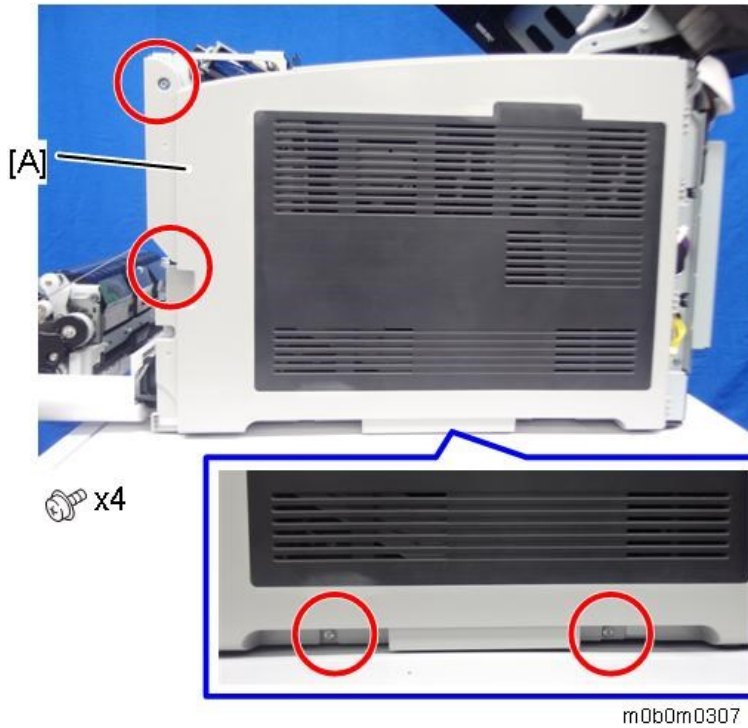
m0b0m0113

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## Right Cover

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1. Remove the rear cover. ([Rear Cover](#))
2. Remove the paper exit cover. ([Paper Exit Cover \(with Operation Panel\)](#))
3. Remove the right cover [A].



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## Left Cover

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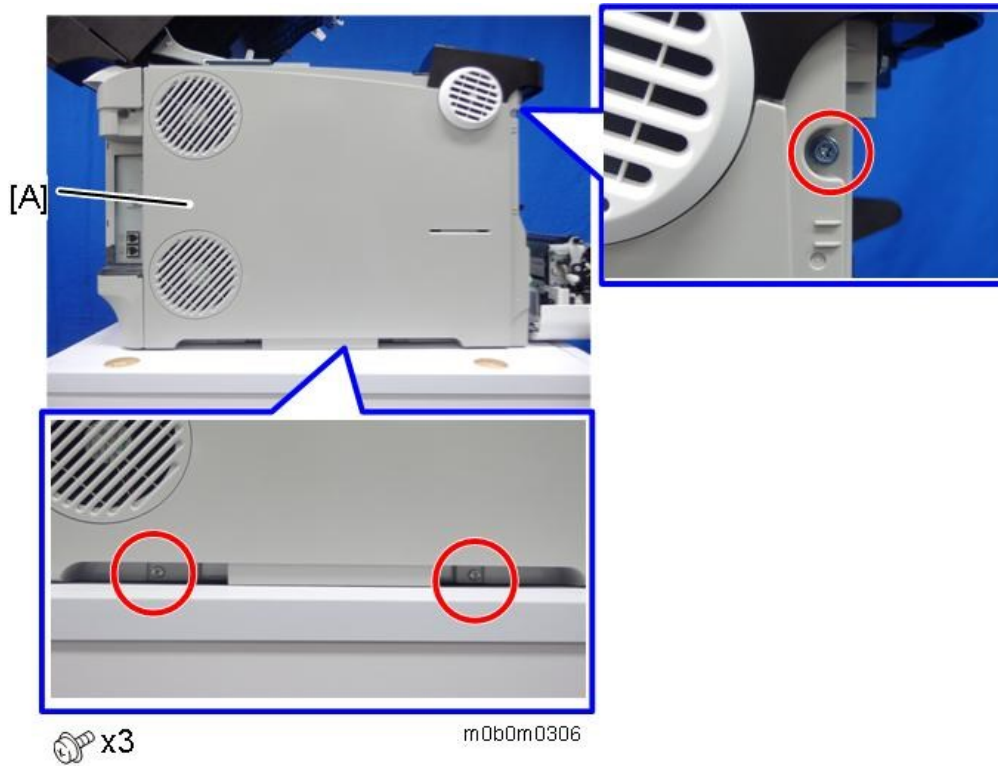
**★ Important**

- Remove the Waste Toner Bottle before you remove the Left Cover, so as not to scatter the toner.

1. Remove the waste toner bottle. ([Waste Toner Bottle](#))
2. Remove the paper exit cover. ([Paper Exit Cover \(with Operation Panel\)](#))
3. Remove the rear cover. ([Rear Cover](#))

## 4.Replacement and Adjustment

### 4. Remove the left cover [A].

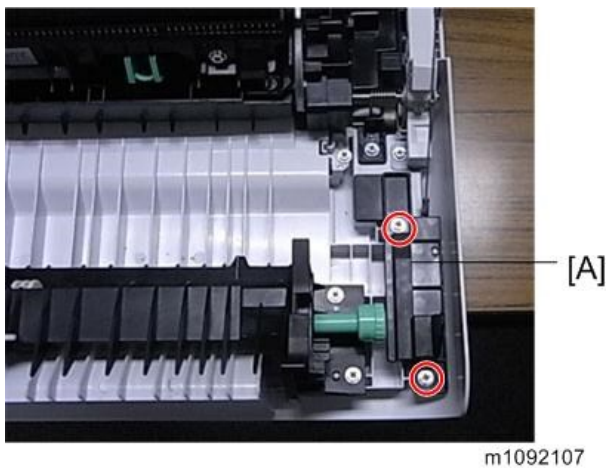


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## Front Cover Unit

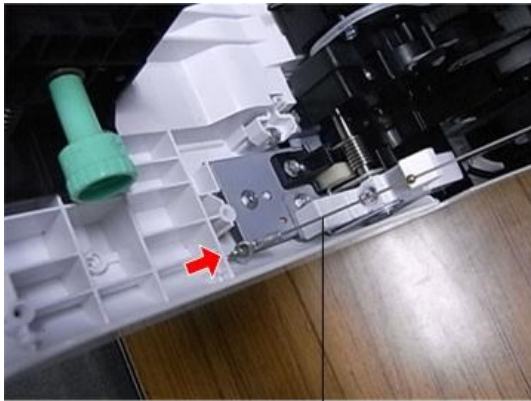
---

1. Remove the bypass tray unit (Bypass Tray Unit).
2. Open the front cover.
3. Remove the bracket [A] (x2).





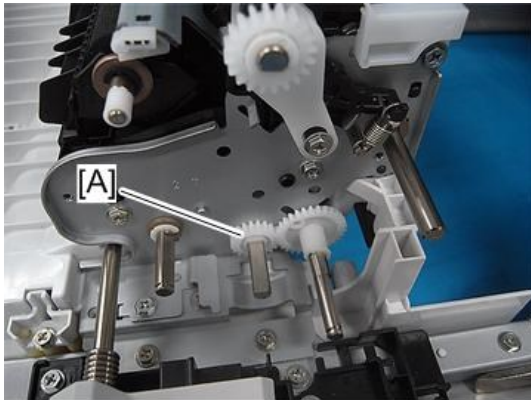
- 4.** Close the front cover slightly, and then remove the wire [A].



[A] m1092108

- 5.** Remove the bypass bottom plate clutch ([Bypass Bottom Plate Clutch](#)).

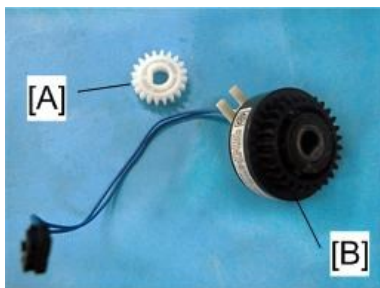
- 6.** Remove the gear [A].



m112m0038

**Note**

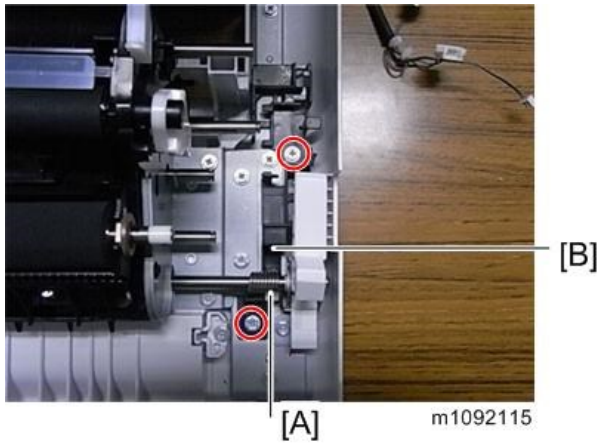
- [A]: Gear (The hole in the center of the gear is in the form of a 'D'.)
- [B]: Bypass bottom plate clutch.



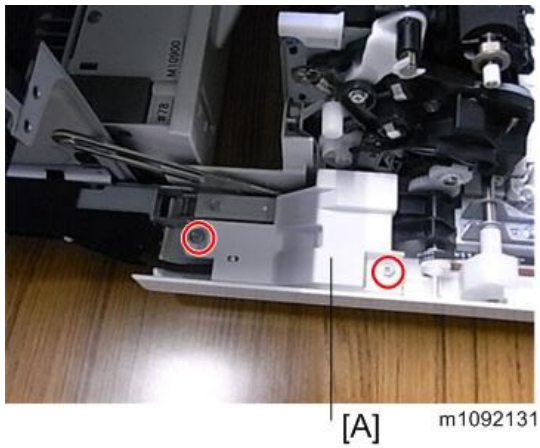
m112m0039

#### 4.Replacement and Adjustment

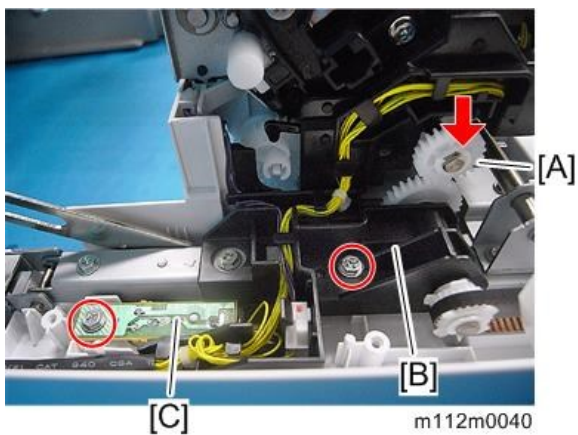
- 7.** Loosen the tension of the spring [A], and then remove the harness guide [B] (🔩×2).



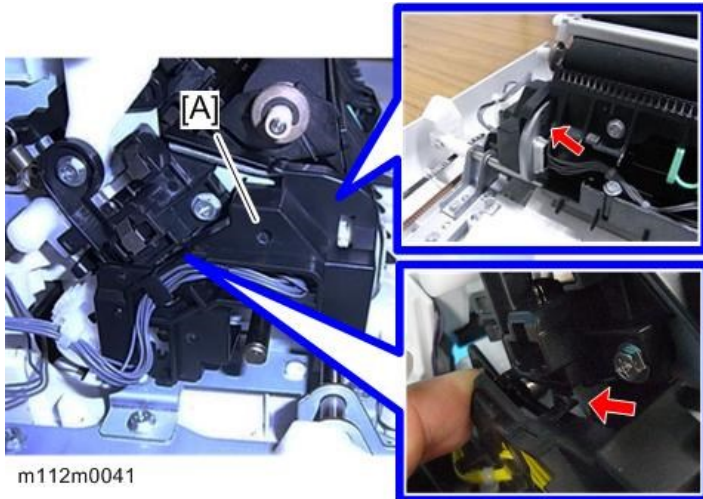
- 8.** Remove the cover [A] (🔩×2).



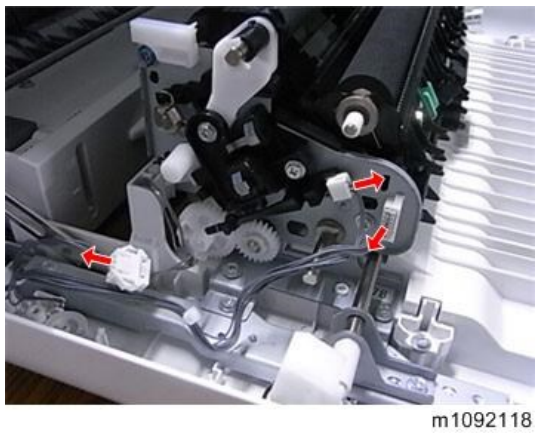
- 9.** Remove the gear [A], and then remove the harness guide [B] and the power switch [C] (🔩×2, 🛠️×1).



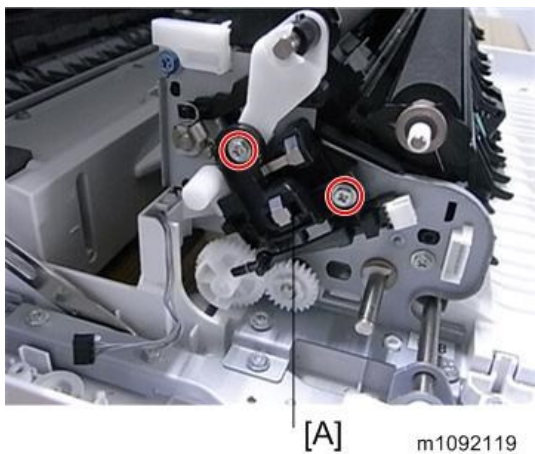
**10.** Remove the harness guide [A] (hook×2).



**11.** Remove the connectors (hook×3).

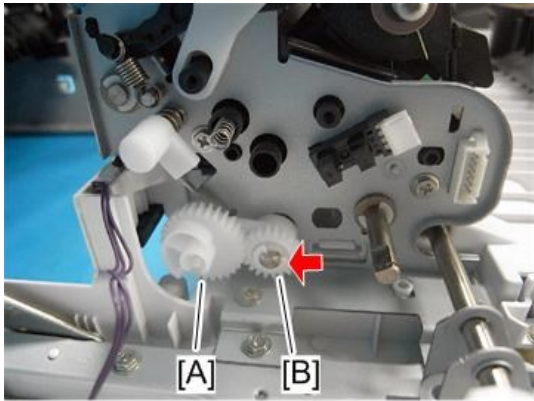


**12.** Remove the ground plate [A] (hook×2).

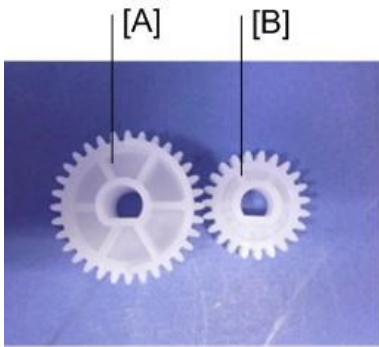


#### 4.Replacement and Adjustment

**13.** Remove the gears [A], [B] (各×1).



m112m0042



m1092203

#### Note

- The hole in the center of the gears [A] and [B] is in the form of a 'D'.

**14.** Remove the bearing [A].



m1092121

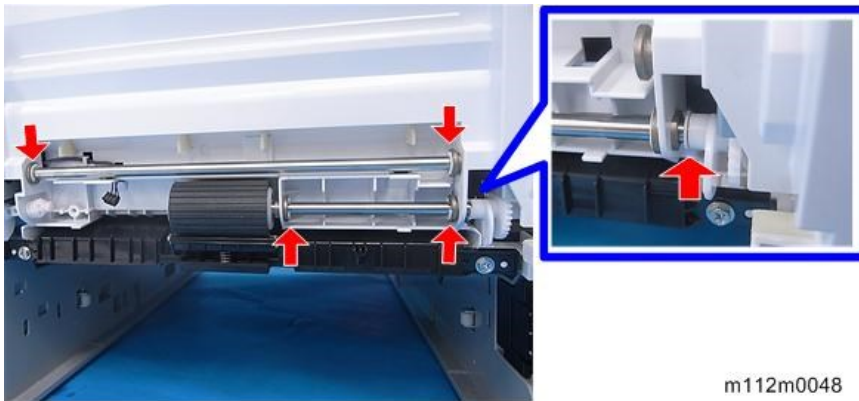
**15.** Close the front cover slightly.



m1092122

**16.** Remove the bypass feed roller (Bypass Feed Roller).

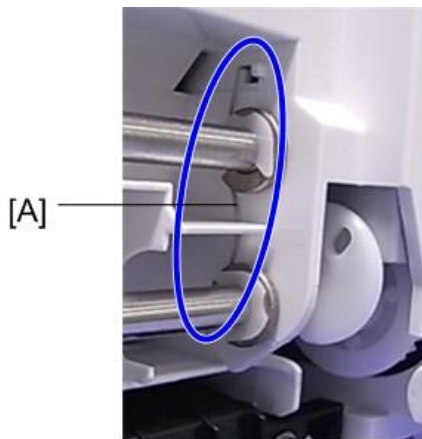
**17.** Remove the snaps (5).



m112m0048

**Note**

- Be careful not to lose the spring [A].



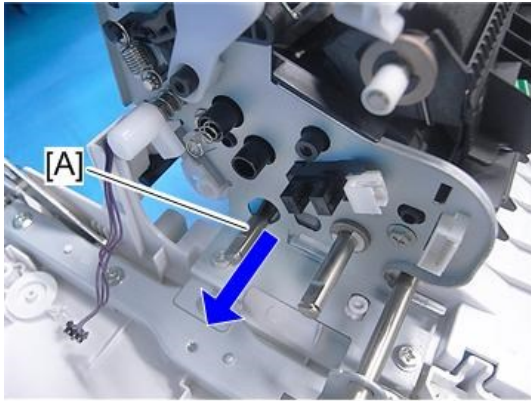
m1092204

**18.** Open the front cover.



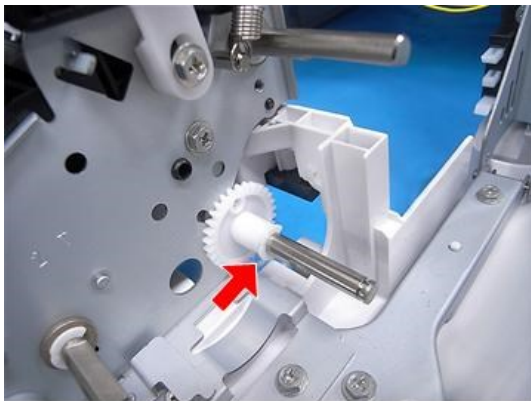
#### 4.Replacement and Adjustment

**19.** Remove the shaft [A].



m112m0049

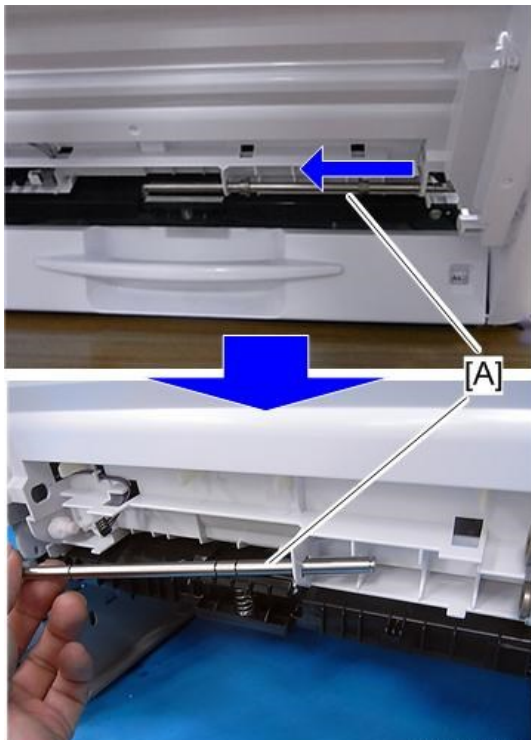
**20.** Remove the snap (⑧×1).



m112m0050

**21.** Close the front cover slightly.

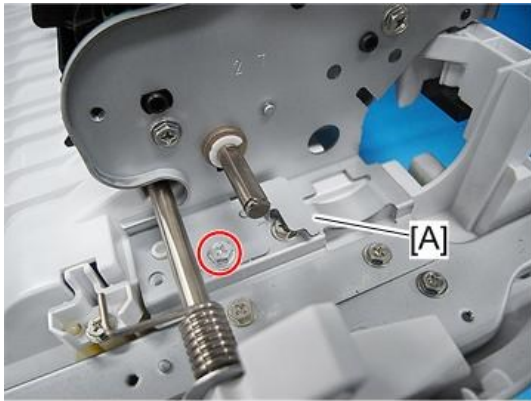
**22.** Remove the shaft [A].



m112m0051

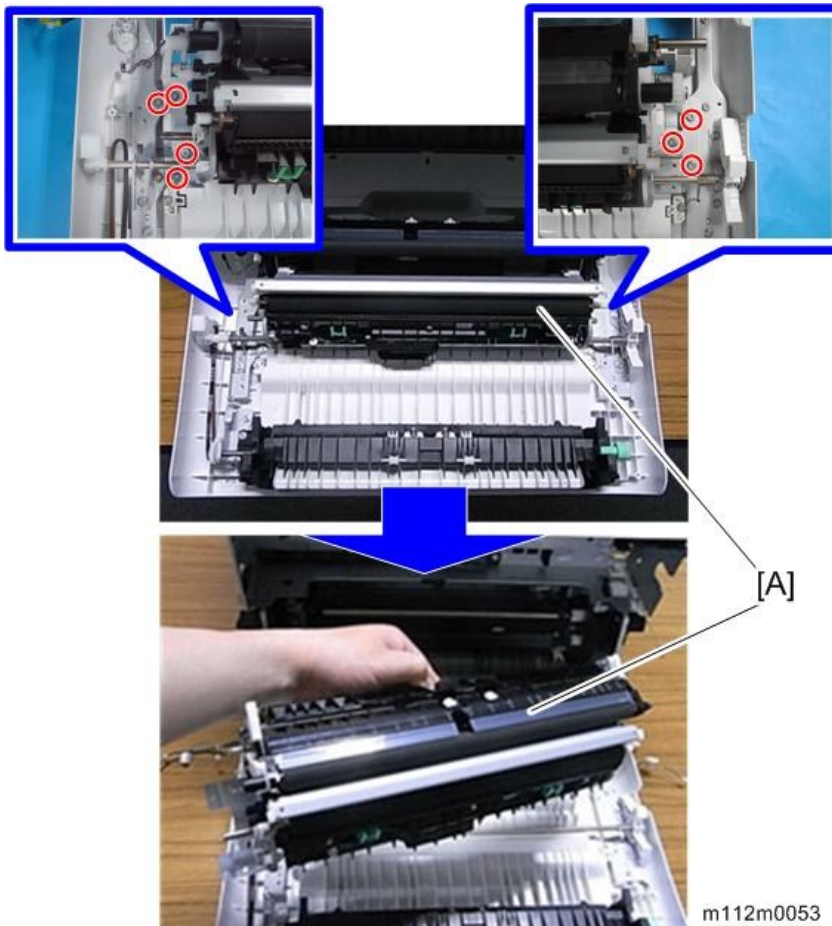
**23.** Open the front cover.

**24.** Remove the plate [A] (⊙×1).



m112m0052

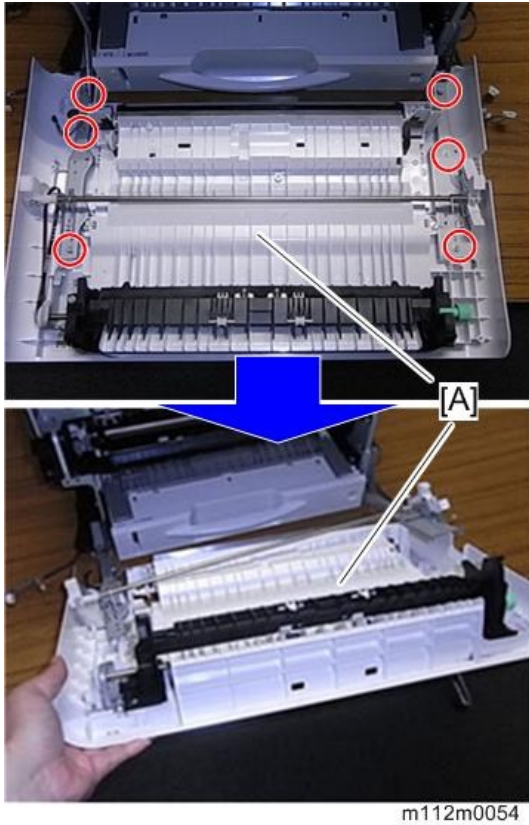
**25.** Remove the transport unit [A] (⊙×7).



m112m0053

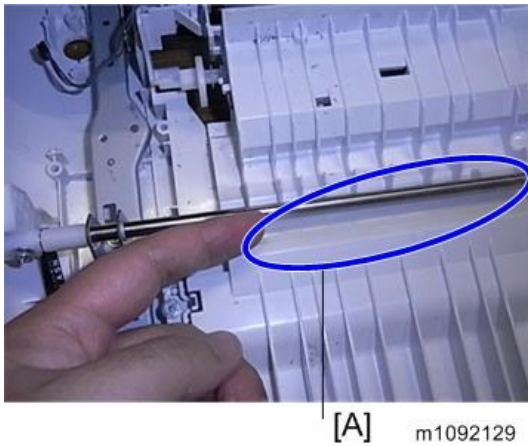
## 4.Replacement and Adjustment

**26.** Remove the front cover unit [A] (⌀×6).



### Note

- Be careful not to break the Mylar [A] during the replacement procedure.



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## Upper Cover

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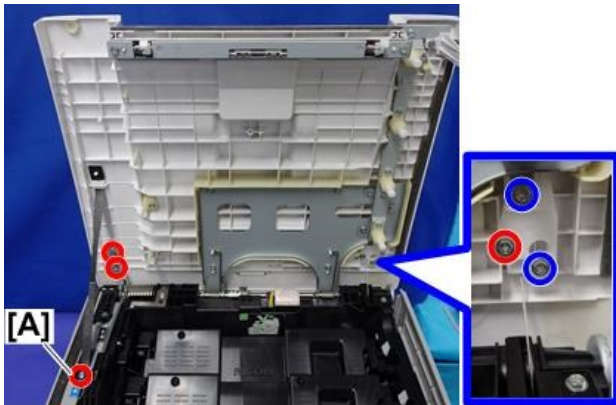
### Printer Model

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- 1.** Remove the rear cover. ([Printer Model](#))
- 2.** Open the upper cover.



**3.** Remove the screws (🔩×4).



m111d4001

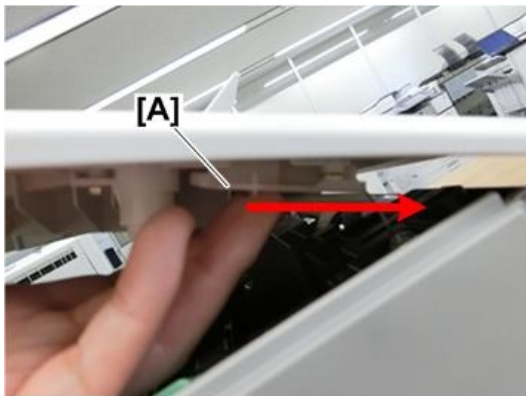
**Note**

- Do not remove the blue circled screws.

**4.** Remove the wire bracket [A].

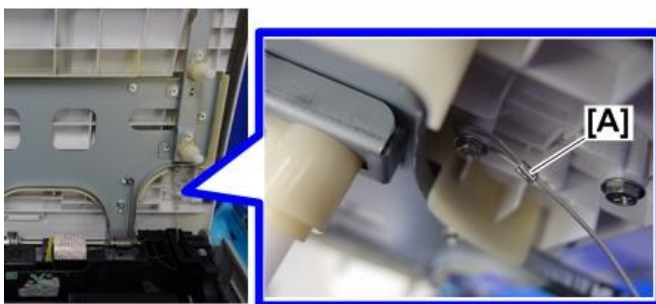
**Note**

- Close the upper cover until you can just about put your fingers in and remove the bracket, and slide the wire bracket [A] in the direction of the arrow.



m111d4002

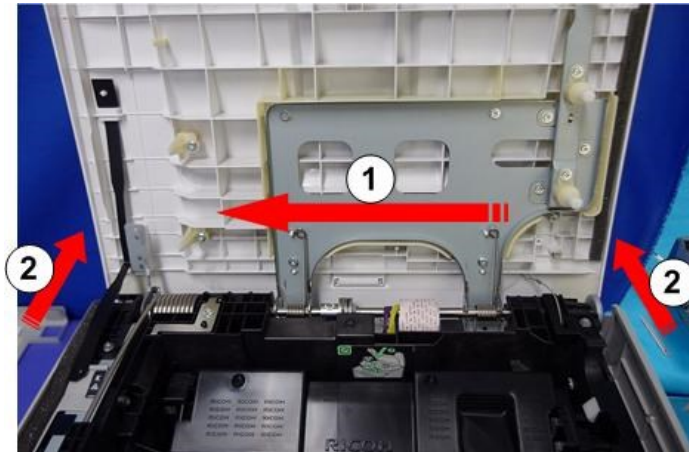
**5.** Remove the wire [A].



m111d4003

## 4.Replacement and Adjustment

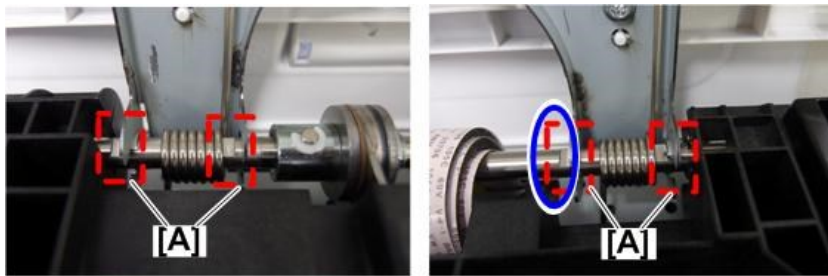
**6.** Slide to the left and remove the upper cover.



m111d4004

### Note

- There are notches [A] on the shaft. You can remove the upper cover by sliding it to the notch position.
- Be careful not to lose the attached silencer (at the position circled in blue).



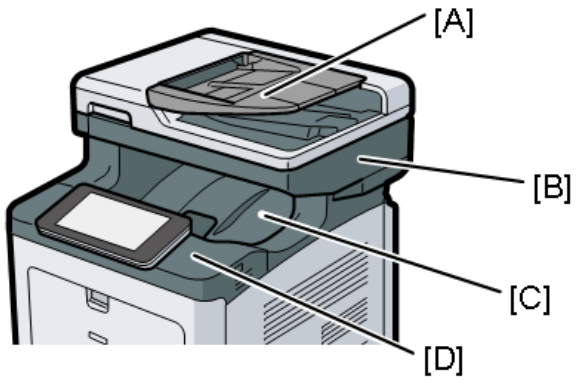
m111d4005a



m111d4006

## MF Models

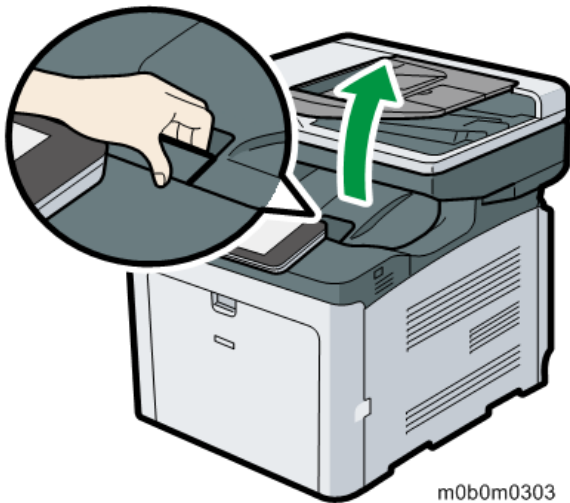
To remove the upper cover, first you have to remove the DF unit and scanner unit.



m0b0m0303a

[A]	DF Unit
[B]	Scanner Unit
[C]	Upper Cover
[D]	Paper Exit Cover (with Operation Panel)

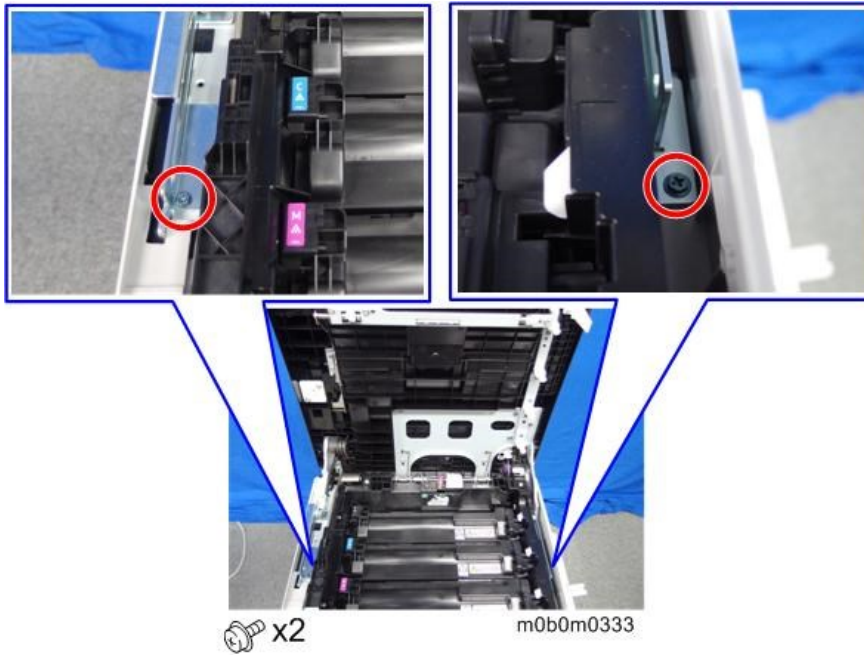
- 1.** Remove the top cover. (Scanner/DF Assembly (Only for MF Models))
- 2.** Remove the rear cover. (MF Models)
- 3.** Open the upper cover.



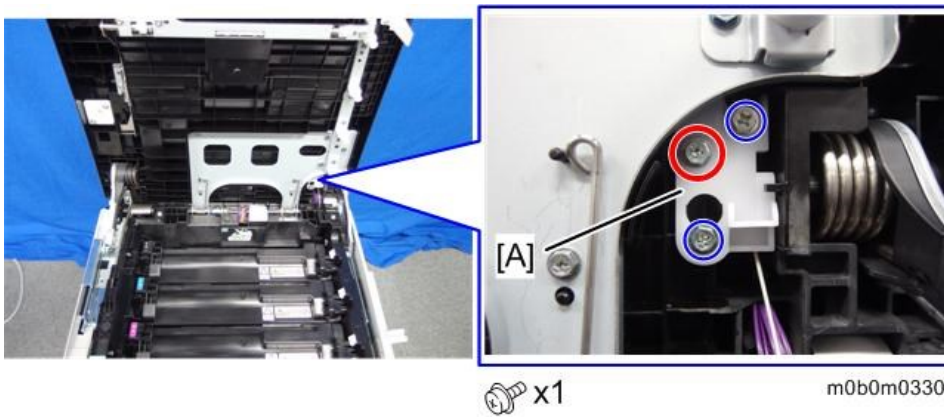
m0b0m0303

- 4.** Remove the screws.

#### 4.Replacement and Adjustment



5. Remove the red circled screw of the wire bracket.



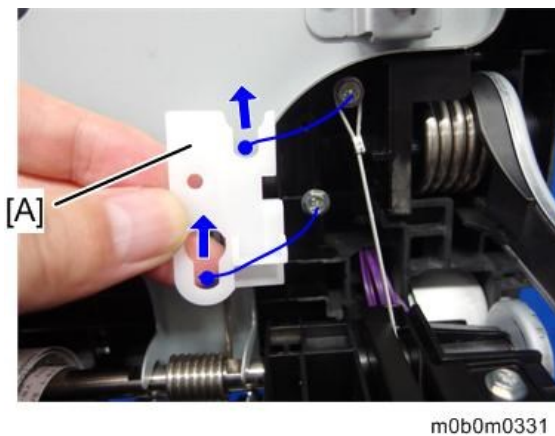
**Note**

Do not remove the blue circled screws.

6. Remove the wire bracket [A].

**Note**

Slide the wire bracket [A] in the direction of the arrow.

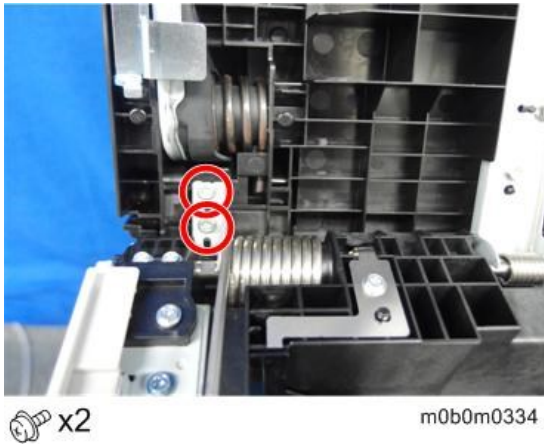


7. Close the upper cover until you can just about put your fingers in, and remove the wire [A].



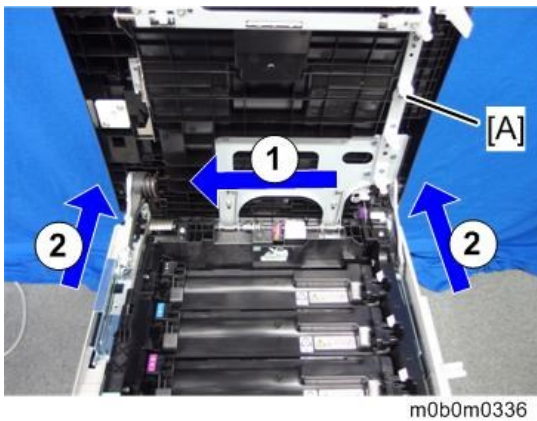
m0b0m0332

**8.** Remove the hinge.



m0b0m0334

**9.** Slide to the left and remove the upper cover.



m0b0m0336

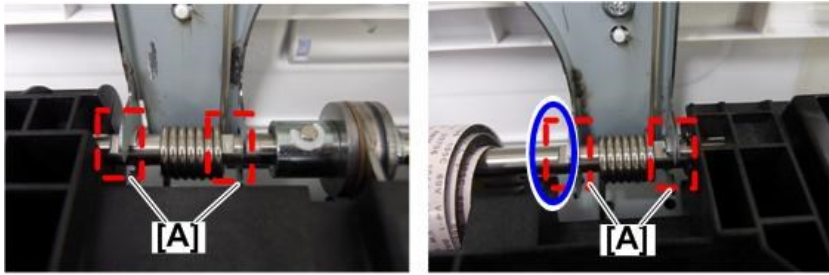
**Note**

There are notches [A] on the shaft. You can remove the upper cover by sliding it to the notch position.

Be careful not to lose the attached silencer (at the position circled in blue).



#### 4.Replacement and Adjustment

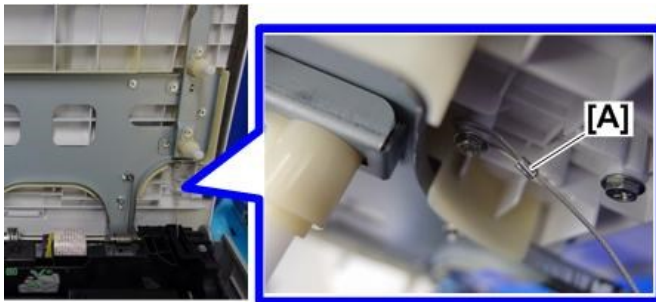


m111d4005a

#### Reinstalling the Upper Cover

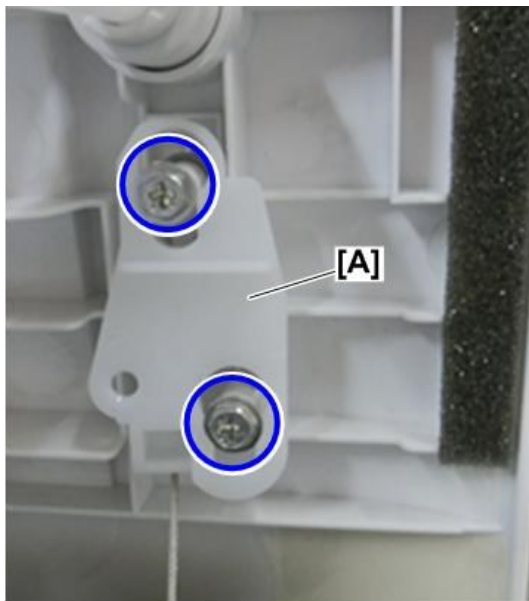
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- 1.** Hook the wire [A] onto the boss.



m111d4003

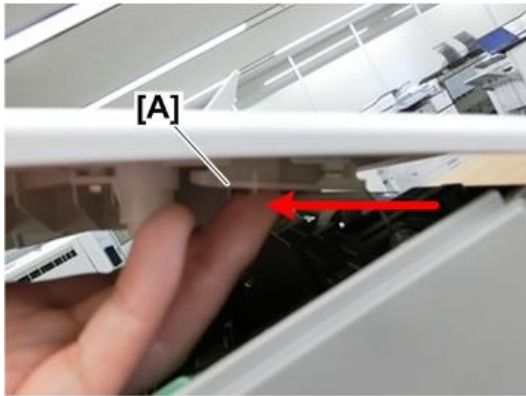
- 2.** Fit the holes in the wire bracket [A] over the screw heads.



m111d4007

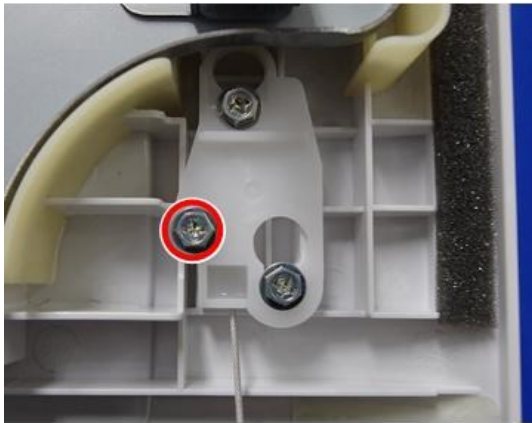
- 3.** Close the upper cover until you can just about put your fingers in, and slide the wire bracket [A] in

the direction of the arrow to fix it temporarily.



m111d4008

**4.** Fix the wire bracket.



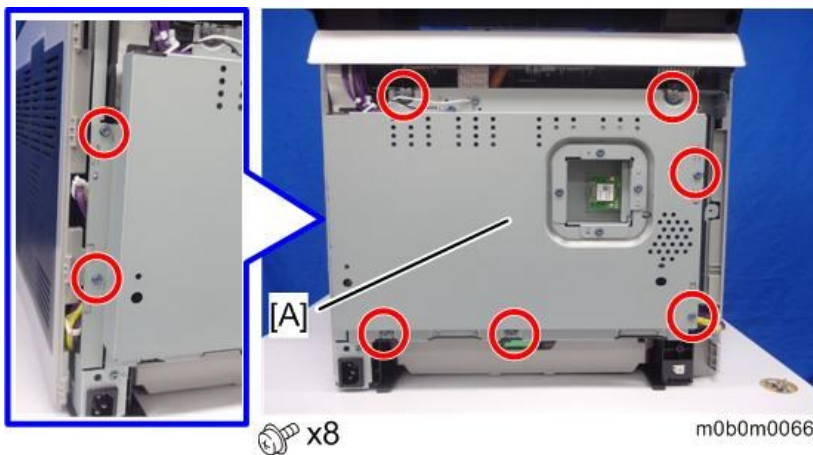
m111d4009

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Scanner/DF Assembly (Only for MF Models)

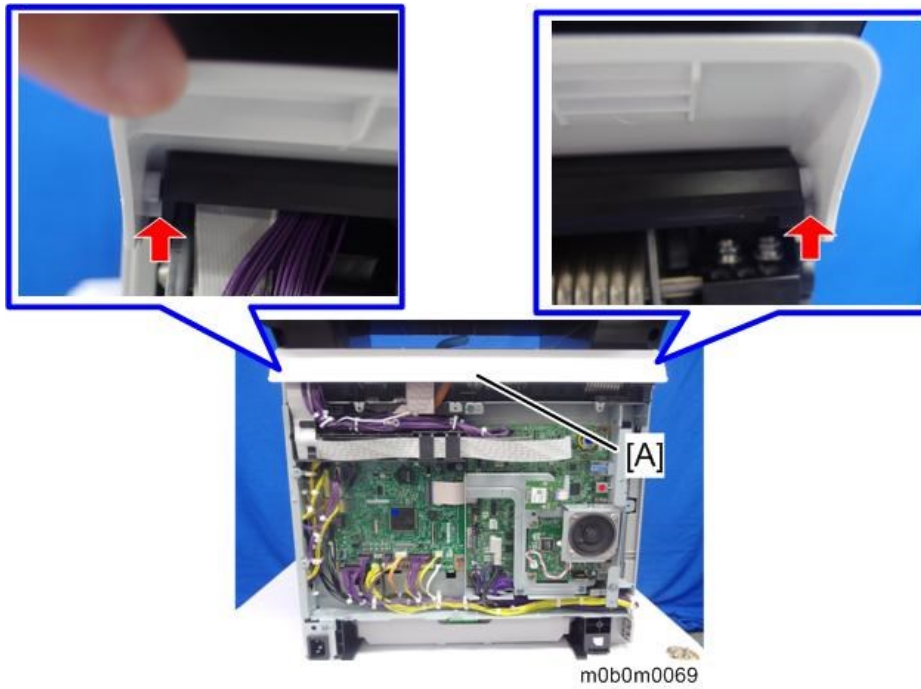
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- 1.** Remove the rear cover. (MF Models)
- 2.** Remove the controller box cover [A].

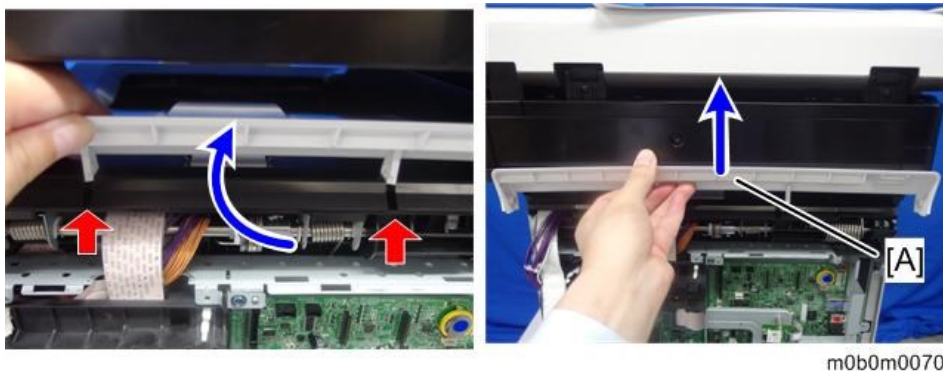


- 3.** Grip both ends of the rear top cover [A], and lift it off its hinges.

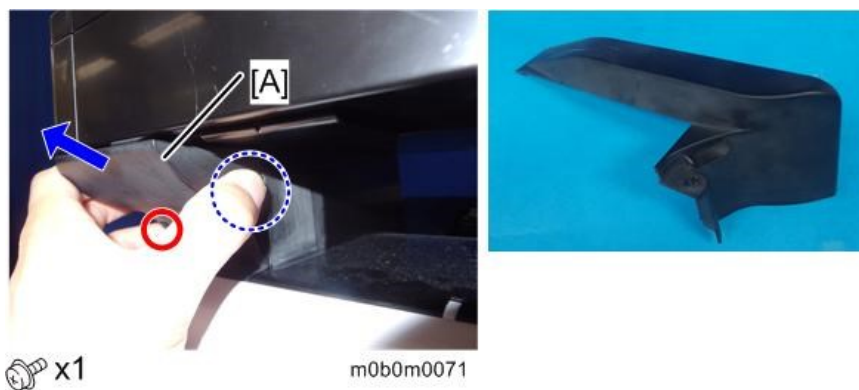
#### 4.Replacement and Adjustment



- 4.** Open the rear top cover [A], and remove it by lifting it up.



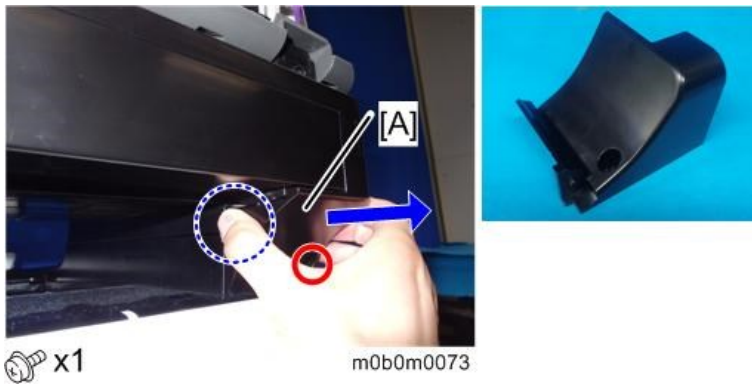
- 5.** Remove the scanner rear left cover [A] while pressing down strongly with your thumb on the blue circle area.



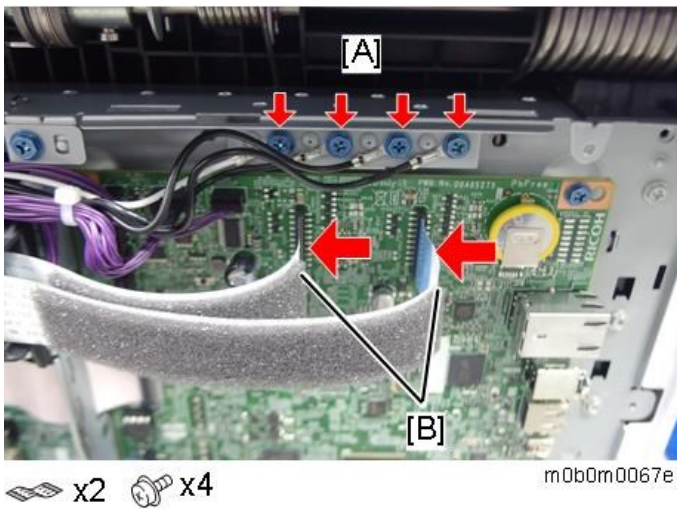
- 6.** Remove the scanner rear right cover [A] while pressing down strongly with your thumb on the blue



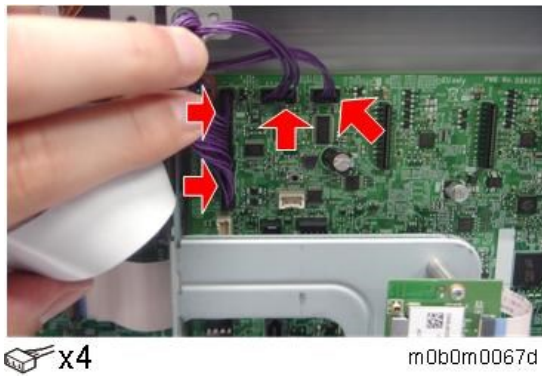
circle area.



**7.** Remove the four ground wires [A] and two FFCs [B].



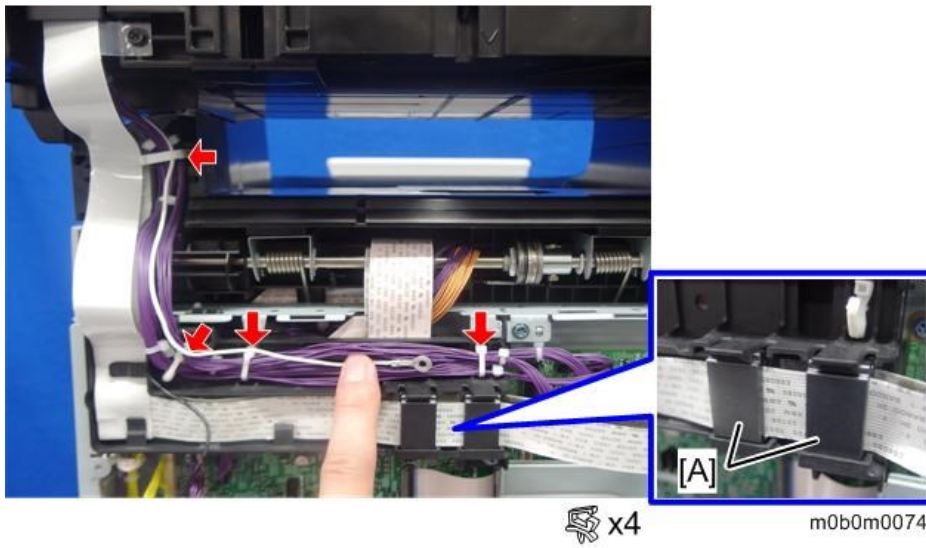
**8.** Remove the four harnesses.



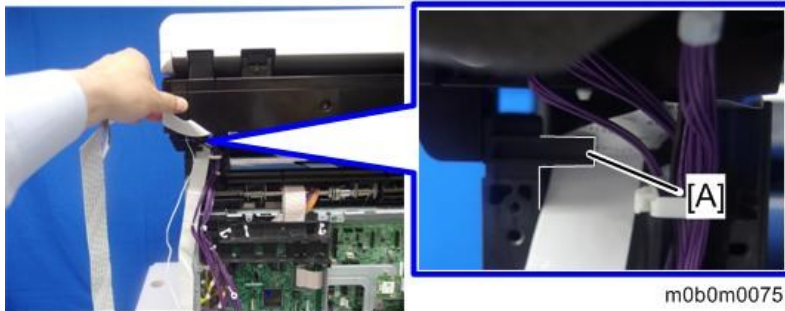
**9.** Remove the two ferrite cores [A], and then release all FFCs and the harness connected to the DF

#### 4.Replacement and Adjustment

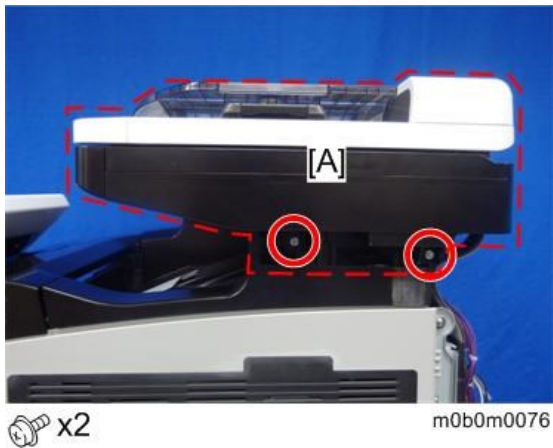
and scanner.



**10.** Release the FFC under the scanner from the guide [A].



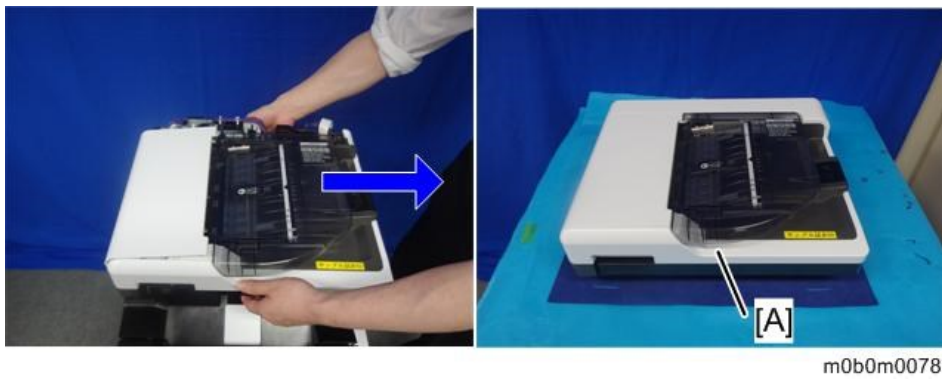
**11.** At the right of the scanner/DF assembly [A], remove the two screws.



**12.** At the left of the scanner/DF assembly [A], remove the screw.

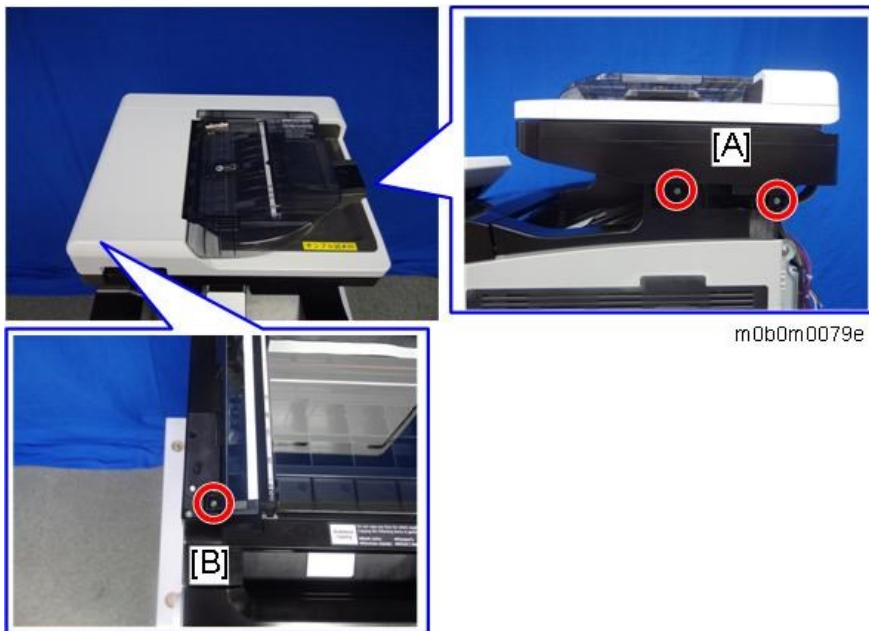


**13.** Slide the scanner/DF assembly [A] to the right and then remove it.



**Note**

- When attaching the Scanner/DF Assembly, first attach the screws [A] removed in Step 11, then attach the screw [B] removed in Step 12.



## LED Optics

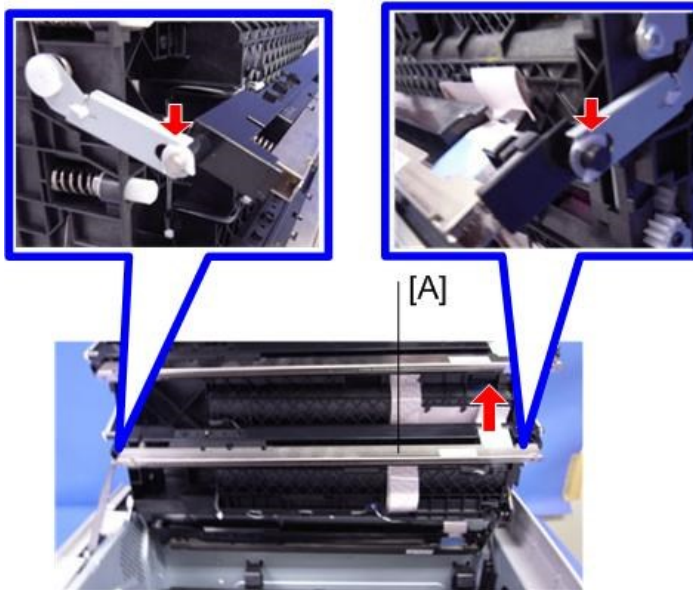
### LED Head

1. Open the upper inner cover, and then cover the PCDUs with a sheet of paper, to prevent foreign objects from falling into the PCDUs. (PCDU)



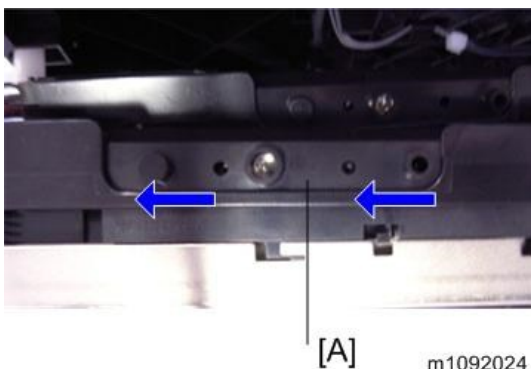
m0b0m0338

2. Remove the snaps and flat cable from the LED head [A] (⌀×2, ⌀×1).



m1092023

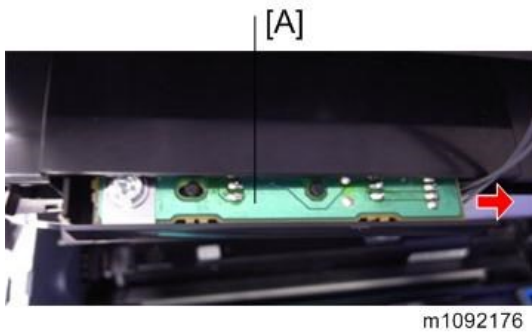
3. Lift the toner end sensor unit [A] upward, and then slide it in the direction of the arrow.



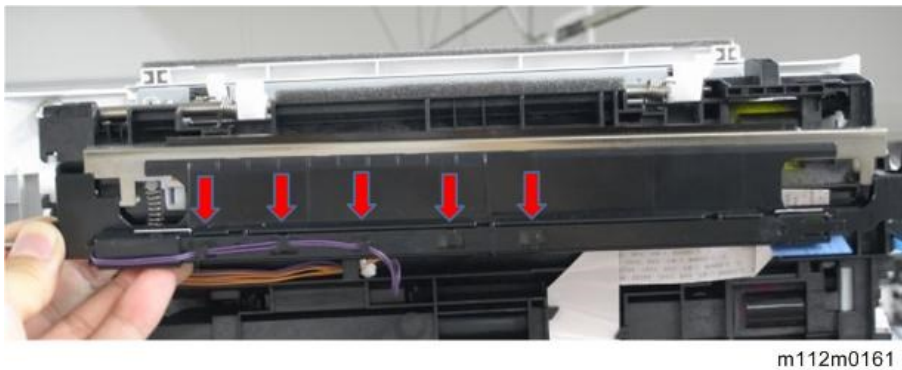
m1092024



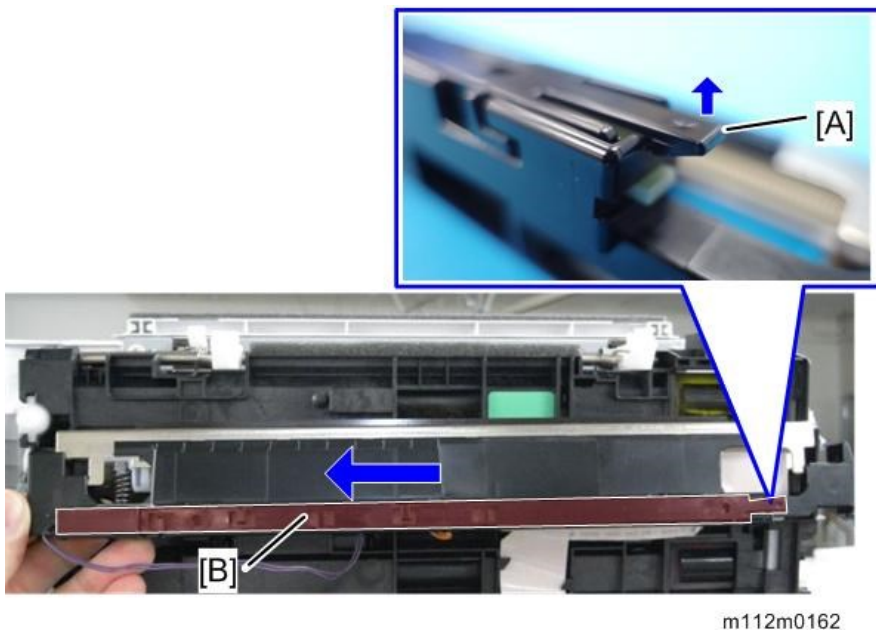
- 4.** Remove the connector from the toner end sensor [A] (🔌 ×1).



- 5.** Release the harness from the guide hooks on the cover (hook x5 for BK, x3 for CMY).

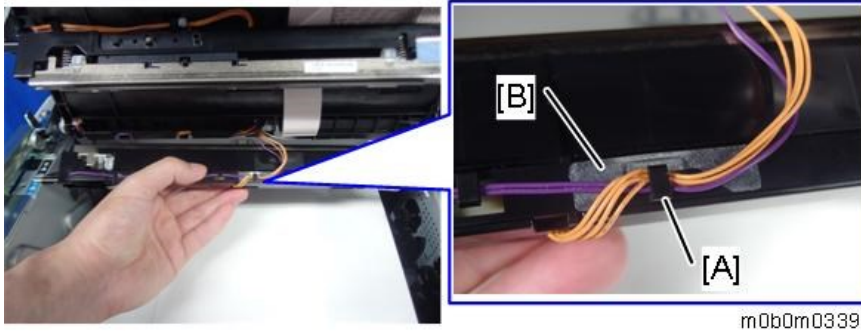


- 6.** Raise the hook [A], and then slide the discharge lamp cover [B] in the direction of the arrow to remove it (hook x1).



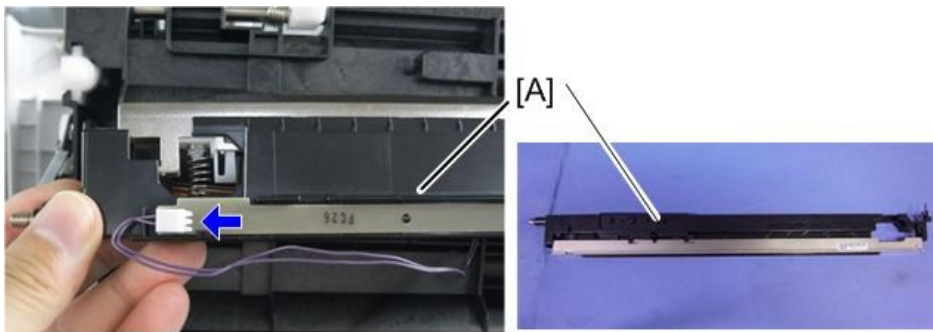
- 7.** Only when removing the LED head (BK), remove the cables (purple×2, orange×4) one by one in advance from the harness guide [A] at the rear right corner.  
This is necessary to make allowance for the harness when removing the connector in the next step. Unlike other cable guides, this part has mylar [B] attached to prevent the cables from coming off, so it is more difficult to remove the cables here. Be careful not to break the cables.

#### 4.Replacement and Adjustment



m0b0m0339

**8.** Disconnect the connector for the discharge lamp and remove the LED head [A] (📦 ×1).



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**Note**

- The flat cables of the LED heads have different colors. They have a fixed order.
- If you remove the flat cables of the LED heads, during re-assembly connect them so that they overlap in the order of Y / M / C / K.

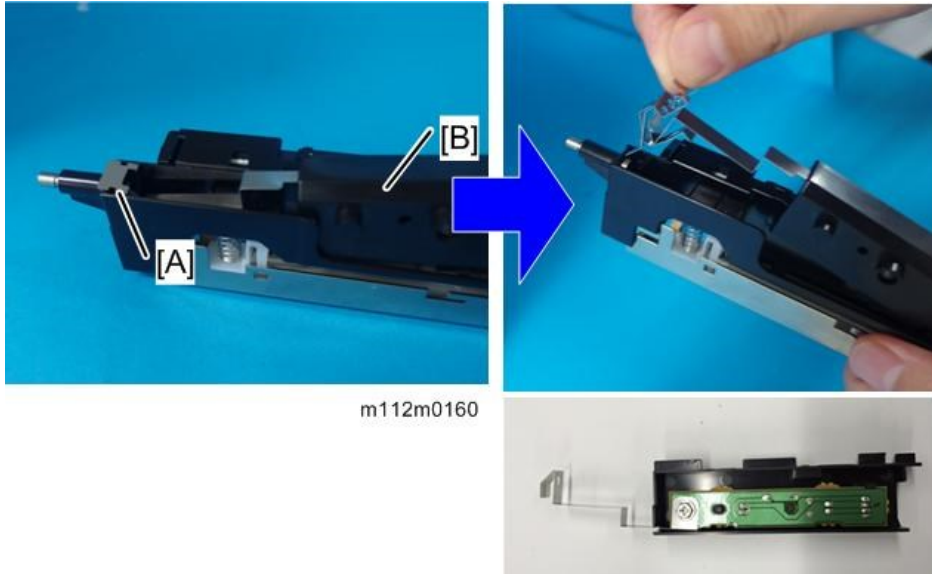


m1092141

- [A]: Flat cable: EGB: LED head Y
- [B]: Flat cable: EGB: LED head M
- [C]: Flat cable: EGB: LED head C
- [D]: Flat cable: EGB: LED head K

## Toner End Sensor

1. Remove the LED head ([LED Head](#)).
2. Pull up the leaf spring [A] and remove the toner end sensor [B].



### Note

- For information that is related to replacing the toner end sensor, refer to "[When SC365/SC332 Is Displayed](#)".
- After replacing the toner end sensor, set SP values according to the leaflet supplied with the unit. After replacing each part, 6 SP values must be adjusted. Set only the SP values corresponding to the replaced station. Check the colors listed under "Description" for the corresponding stations in the following SP value list.

### Related SP:

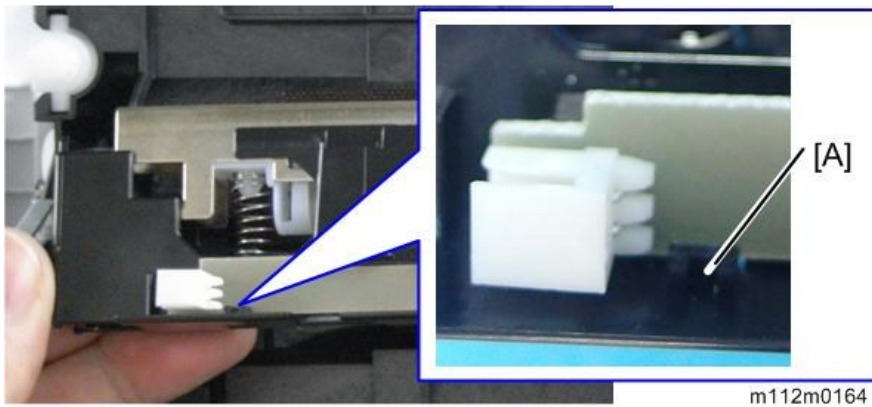
SP No.	Description
SP3-244-005	TonerRmn HHThresh:Up:K
SP3-244-009	TonerRmn HHThresh::Low:K
SP3-244-013	TonerRmn NNThresh::Up:K
SP3-244-017	TonerRmn NNThresh::Low:K
SP3-244-021	TonerRmn LLThresh::Up:K
SP3-244-025	TonerRmn LLThresh::Low:K
SP3-244-008	TonerRmn HHThresh::Up:C
SP3-244-012	TonerRmn HHThresh::Low:C
SP3-244-016	TonerRmn NNThresh::Up:C
SP3-244-020	TonerRmn NNThresh::Low:C
SP3-244-024	TonerRmn LLThresh::Up:C
SP3-244-028	TonerRmn LLThresh::Low:C
SP3-244-007	TonerRmn HHThresh::Up:M

#### 4.Replacement and Adjustment

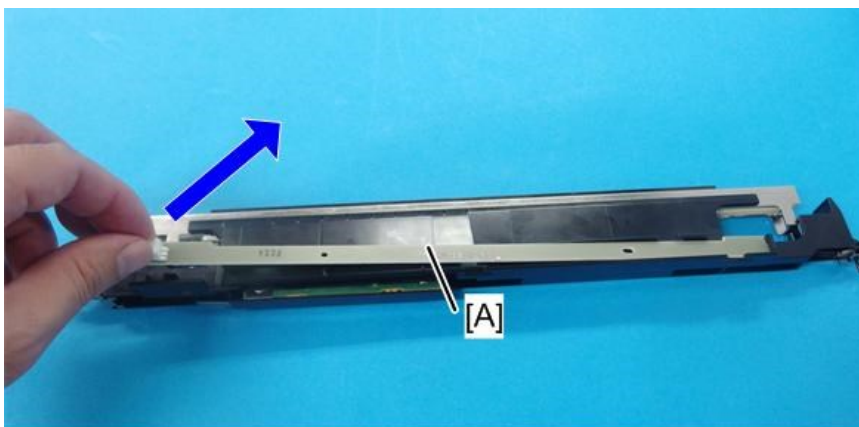
SP No.	Description
SP3-244-011	TonerRmn HHThresh::Low:M
SP3-244-015	TonerRmn NNThresh::Up:M
SP3-244-019	TonerRmn NNThresh::Low:M
SP3-244-023	TonerRmn LLThresh::Up:M
SP3-244-027	TonerRmn LLThresh::Low:M
SP3-244-006	TonerRmn HHThresh::Up:Y
SP3-244-010	TonerRmn HHThresh::Low:Y
SP3-244-014	TonerRmn NNThresh::Up:Y
SP3-244-018	TonerRmn NNThresh::Low:Y
SP3-244-022	TonerRmn LLThresh::Up:Y
SP3-244-026	TonerRmn LLThresh::Low:Y

#### Discharge Lamp

1. Remove the LED head (LED Head).
2. Remove the hook [A] that holds the discharge lamp (hook x1).



3. Remove the discharge lamp.





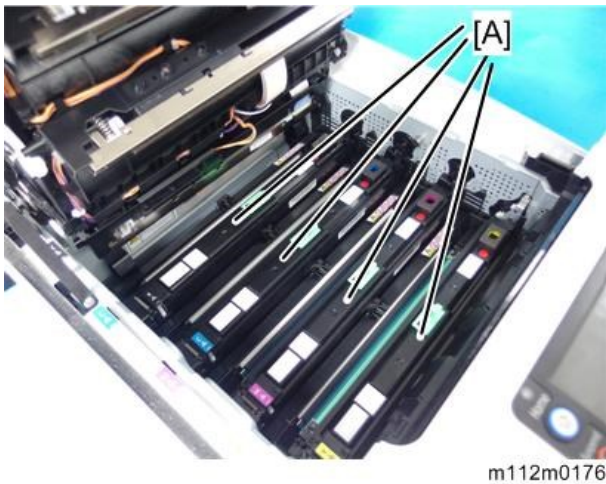
## PCDU

### PCDU

1. Open the upper cover.
2. Release the lock [A], and open the upper inner cover [B].



3. Remove the PCDUs [A].



#### Note

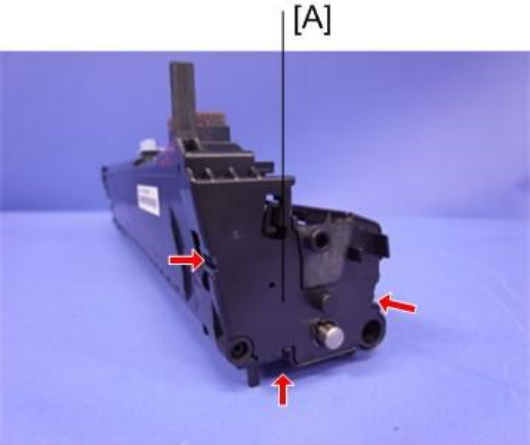
- All PCDUs (Cyan, Magenta, Yellow, and Black) have a new unit detecting mechanism. Technicians do not need to reset counters after replacing, even if not all the PCDUs are replaced at the same time.

### PCDU Cover (Right)

1. Remove the PCDU (PCDU).

4.Replacement and Adjustment

**2.** Remove the PCDU cover [A] (hook ×3).

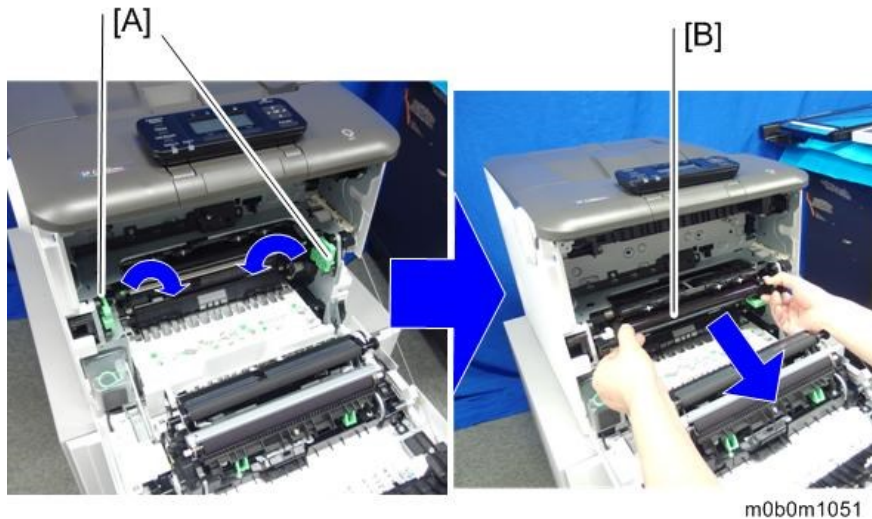


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## Image Transfer

### Image Transfer Belt Unit

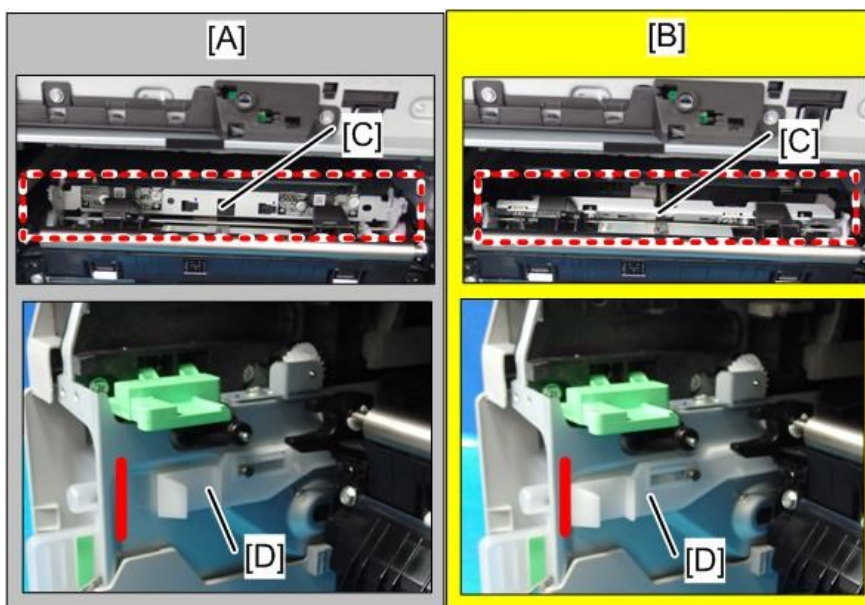
1. Open the front cover.
2. Remove the fusing unit. ([Fusing Unit](#))
3. Release the locks [A], and then pull out the image transfer belt unit [B].



#### Note

- Before reinstalling the ITB unit, if the TM (ID) sensor [C] is facing upward (the white lever [D] is pushed in), pull the lever to the position indicated by the red line in the photo to make sure that the TM (ID) sensor is facing downward.

[A]: Incorrect, [B]: Correct



## 4.Replacement and Adjustment

### After Installing a New Image Transfer Belt Unit

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#### Note

- The Image Transfer Belt Unit as a supply part has a new unit detection mechanism and does not require counter reset. The Paper Transfer Roller as a supply part is kitted together with the Image Transfer Belt unit and does not require counter reset, because it will be replaced at the same time as the Image Transfer Belt Unit.

	Part replaced	Action
1	Image Transfer Belt Unit and Paper Transfer Roller (at the end of their service life)	Execute the following SPs to reset the counters, and then turn the machine off/on. SP7-804-017 (PM Counter Clear ITB Unit) SP7-804-060 (PM Counter Clear Life: ITB Unit) SP7-804-022 (PM Counter Clear PTR Unit) SP7-804-061 (PM Counter Clear Life: PTR Unit)
2	Image Transfer Belt Unit	1. Execute SP7-804-017 and SP7-804-060 2. Turn off the machine, and then turn it back on.
3	Paper Transfer Roller	1. Execute SP7-804-022 and SP7-804-061 2. Turn off the machine, and then turn it back on

#### **As mentioned above, action is necessary only in the following two cases:**

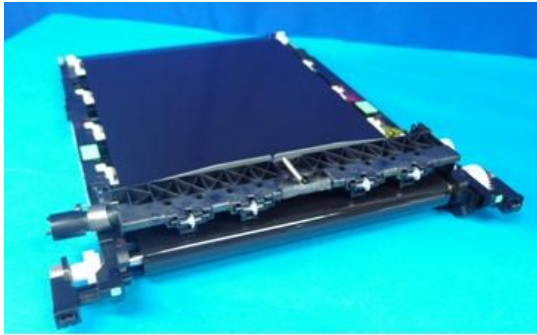
1. If you are replacing the image transfer belt unit  
SP7-804-017 (PM Counter Clear ITB Unit)  
SP7-804-060 (PM Counter Clear Life: ITB Unit)  
If you are replacing the image transfer belt unit, you should execute SP7-804-017 for correct control depending on the rotation distance. But, if you execute only SP7-804-017, the counter for displaying the unit life is not cleared. So you must also clear this counter by executing SP7-804-060 (PM Counter Clear Life: ITB Unit).
2. If you are replacing the paper transfer roller  
SP7-804-022 (PM Counter Clear PTR Unit)  
SP7-804-061 (PM Counter Clear Life: PTR Unit)  
If you are replacing the paper transfer roller, you should execute SP7-804-022 for correct control depending on the rotation distance. But, if you execute only SP7-804-022, the counter for displaying the unit life is not cleared. So you must also clear this counter by executing SP7-804-061 (PM Counter Clear Life: PTR Unit).

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## Image Transfer Belt Cleaning Unit

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1. Remove the image transfer belt unit. ([Image Transfer Belt Unit](#))



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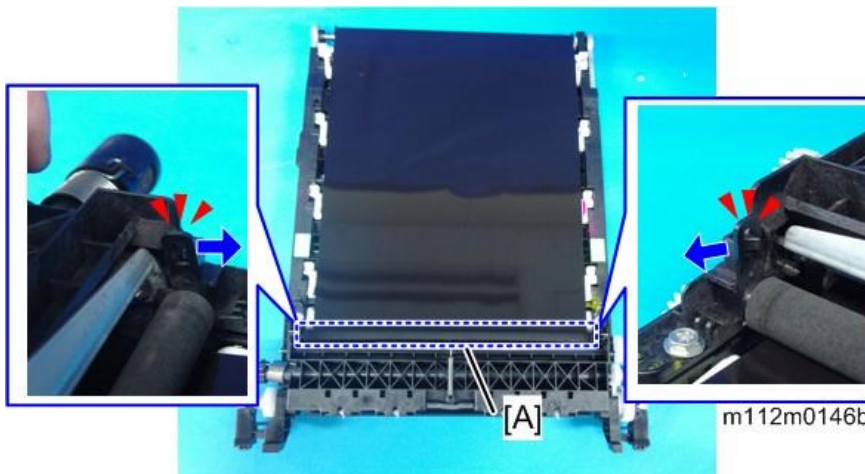
**Note**

- Put a sheet of A4 paper under the ITB unit to protect its surface, as shown.



m112m0146a

2. Remove the belt guide roller [A] (hook×2).



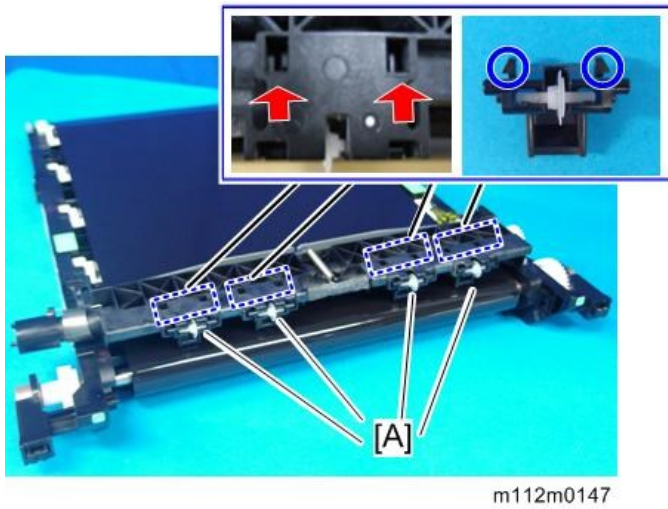
m112m0146b

3. Push the two projections of the paper guide holder [A] inward to disengage them using a small

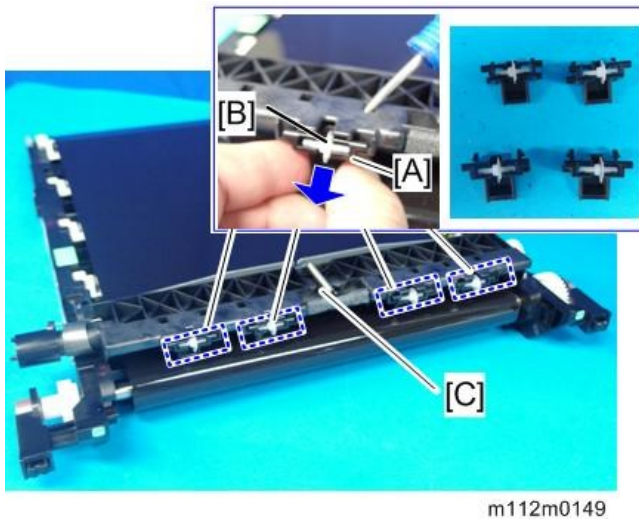


## 4.Replacement and Adjustment

screw driver.



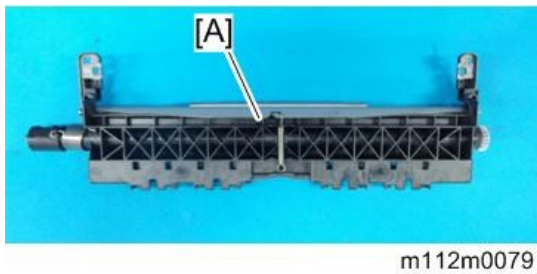
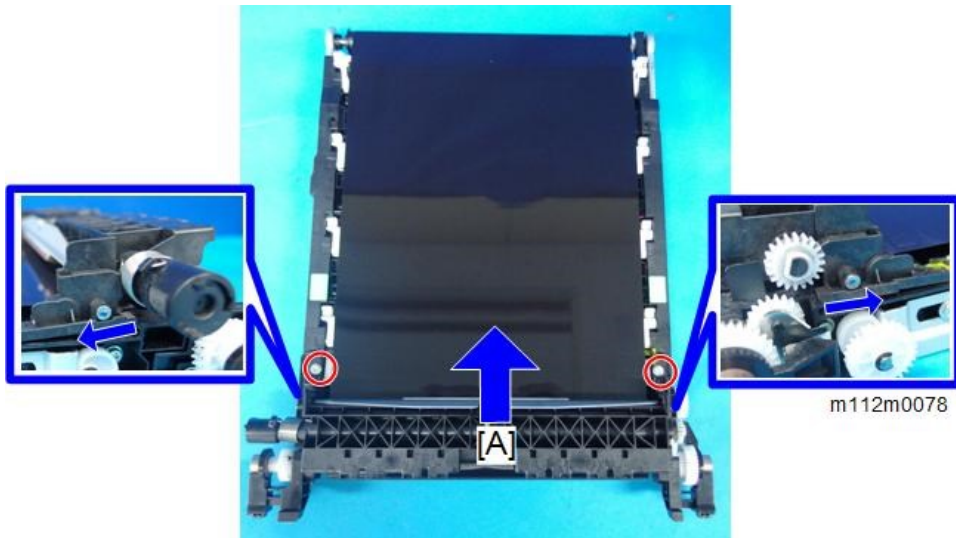
**4.** Remove the paper guide holder [A] and spur [B] from the image transfer belt cleaning unit [C].



### Note

- Take care not to damage the ITB surface when removing and installing the Paper Guide Holder.

5. Remove the image transfer belt cleaning unit [A] (⚙️×2).

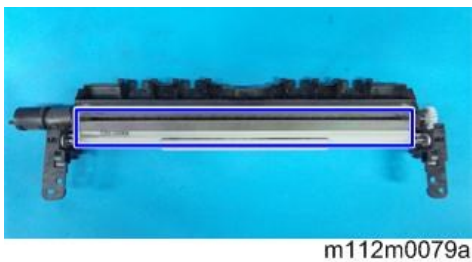


**Important**

- Return the image transfer belt cleaning unit without the Paper Guide Holder & Spur. Then, return the Paper Guide Holder with the Spur. Otherwise, the surface of the ITB may be damaged.

**Note**

- When you change the transfer belt cleaning unit, dust the new one with toner as a lubricant.



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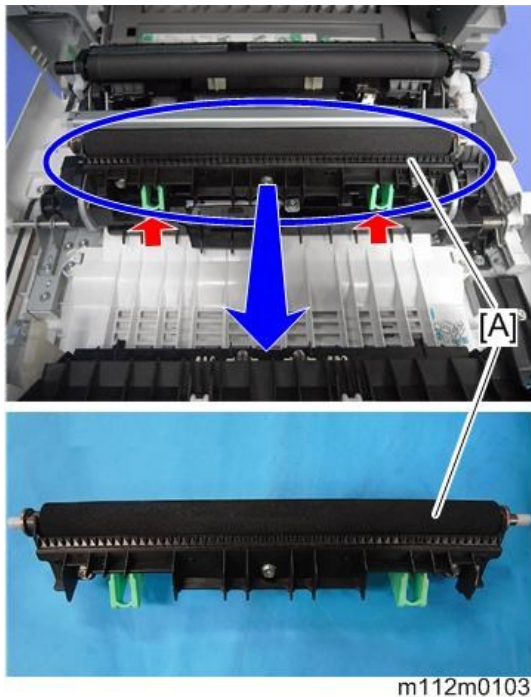
## Transfer Roller

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1. Open the front cover.

#### 4.Replacement and Adjustment

- 2.** Remove the transfer roller [A] using the green handles.



#### After Installing a New Transfer Roller

	Part replaced	Action
1	Image Transfer Belt Unit and Paper Transfer Roller (at the end of their service life)	Execute the following SPs to reset the counter, and then turn the machine off/on. SP7-804-017 (PM Counter Clear ITB Unit) SP7-804-060 (PM Counter Clear Life: ITB Unit) SP7-804-022 (PM Counter Clear PTR Unit) SP7-804-061 (PM Counter Clear Life: PTR Unit)
2	Image Transfer Belt Unit	1. Execute SP7-804-017 and SP7-804-060 2. Turn off the machine, and then turn it back on.
3	Paper Transfer Roller	1. Execute SP7-804-022 and SP7-804-061 2. Turn off the machine, and then turn it back on

#### As mentioned above, action is necessary only in the following two cases:

1. If you are replacing the image transfer belt unit  
SP7-804-017 (PM Counter Clear ITB Unit)  
SP7-804-060 (PM Counter Clear Life: ITB Unit)

If you are replacing the image transfer belt unit, you should execute SP7-804-017 for correct control depending on the rotation distance. But, if you execute only SP7-804-017, the counter for displaying the unit life is not cleared. So you must also clear this counter by executing SP7-804-



060 (PM Counter Clear Life: ITB Unit).

2. If you are replacing the paper transfer roller

SP7-804-022 (PM Counter Clear PTR Unit)

SP7-804-061 (PM Counter Clear Life: PTR Unit)

If you are replacing the paper transfer roller, you should execute SP7-804-022 for correct control depending on the rotation distance. But, if you execute only SP7-804-022, the counter for displaying the unit life is not cleared. So you must also clear this counter by executing SP7-804-061 (PM Counter Clear Life: PTR Unit).

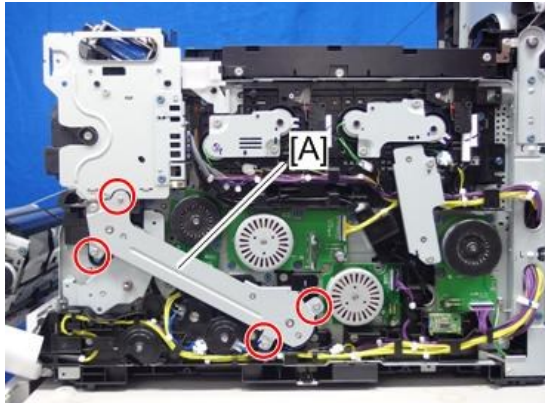
 **Note**

- The Paper Transfer Roller as a supply part is kitted together with the Image Transfer Belt unit and does not require counter reset, because it will be replaced at the same time as the Image Transfer Belt Unit.

## Drive Unit

### Transfer/Transport Motor

1. Remove the right cover. (Right Cover )
2. Remove the bracket [A].

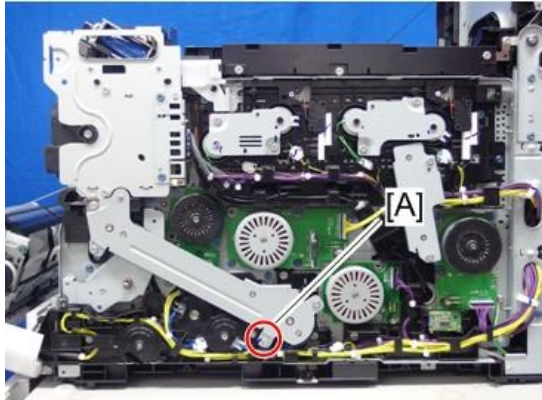


x4

m0b0m1052

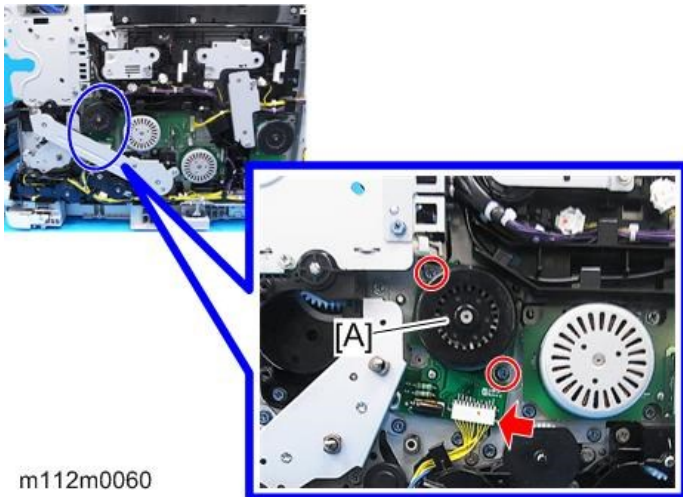
#### Note

- Caution for Installation  
Before tightening the screws for the bracket, make sure that the harness is not caught.  
Take extra attention to avoid pinching at the screw [A].



m0b0m1053

- 3.** Remove the transfer/transport motor [A] (🔧 ×1, ⚙️ ×2).

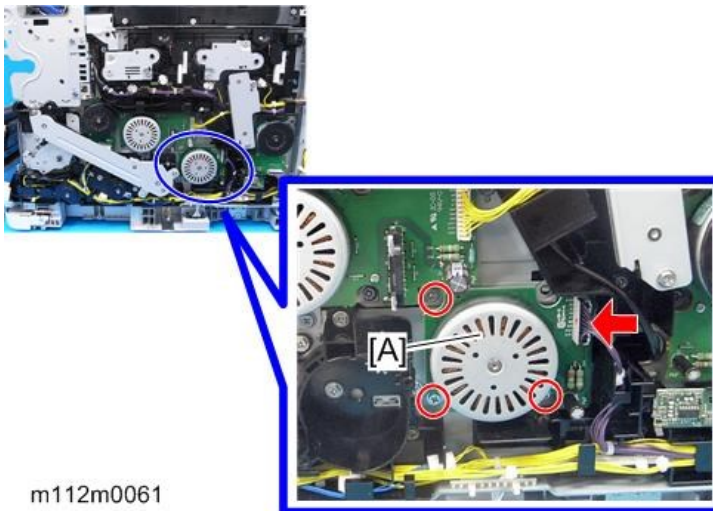


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### Fusing Motor

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- 1.** Remove the right cover. (Right Cover)  
**2.** Remove the fusing motor [A] (🔧 ×1, ⚙️ × 3).



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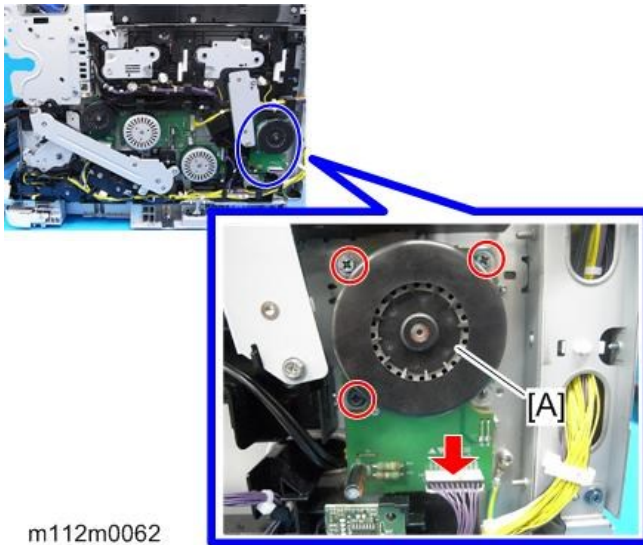
### Drum Motor: K

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- 1.** Remove the right cover. (Right Cover)

## 4.Replacement and Adjustment

2. Remove the drum motor: K (🔧×1,🔩×3).

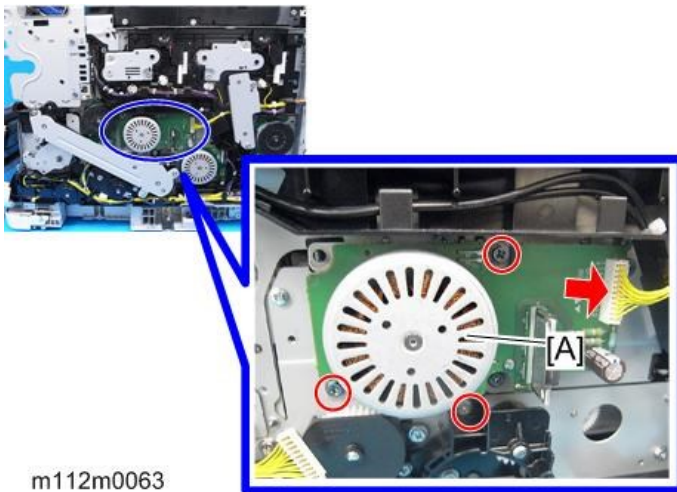


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### Drum Motor: CMY

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1. Remove the right cover. (Right Cover)
2. Remove the drum motor: CMY [A] (🔧×1,🔩×3).



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### Duplex Inverter Solenoid

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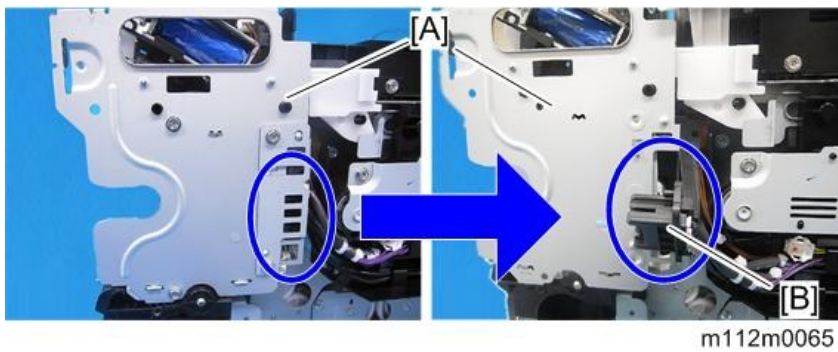
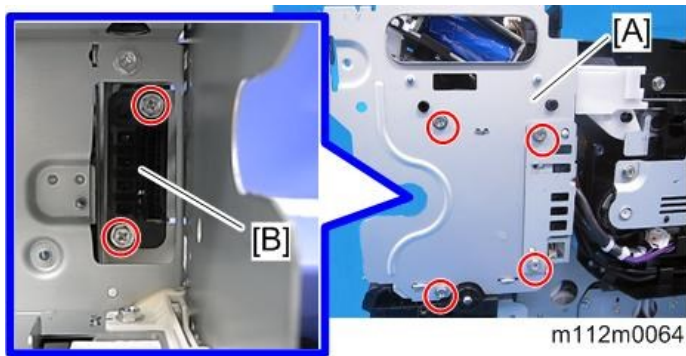
1. Remove the right cover. (Right Cover)
2. Remove the paper exit cover. (Paper Exit Cover (with Operation Panel))
3. Remove the fusing unit. (Fusing Unit)
4. Remove the metal bracket [A] (🔩×6).

📌 **Note**

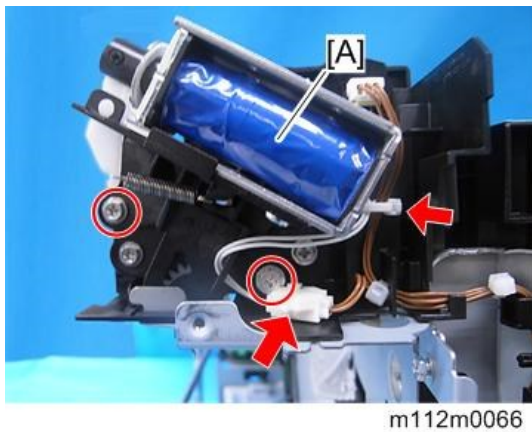
- For the drawer connector of the fusing unit, washer screws are used.

#### 4.Replacement and Adjustment

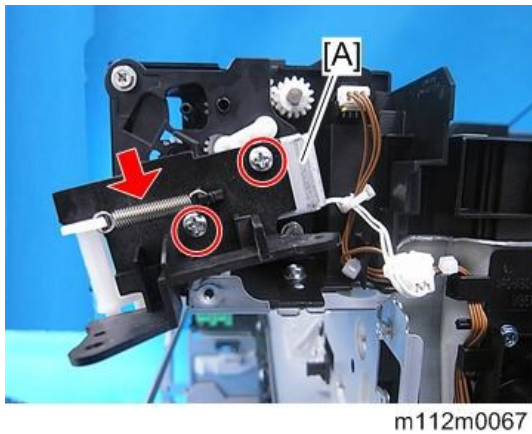
- After removing the screws, turn the connector [B] outward.



- 5.** Remove the solenoid [A] with the bracket (⚙️×2, 📦×1, 🛠️×1).

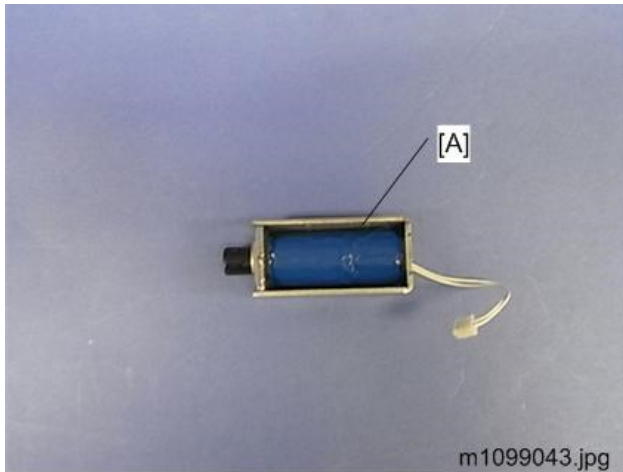


- 6.** Remove the duplex inverter solenoid [A] from the bracket (⚙️×2, 🛠️×1).



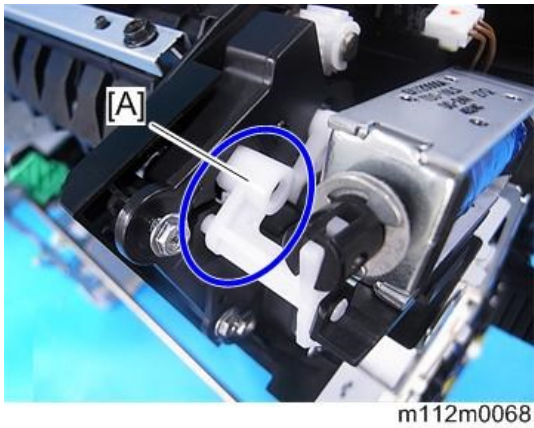


## 4.Replacement and Adjustment



### ↓ Note

- Align the hole in the arm with the boss on the side of the bracket when attaching the solenoid.

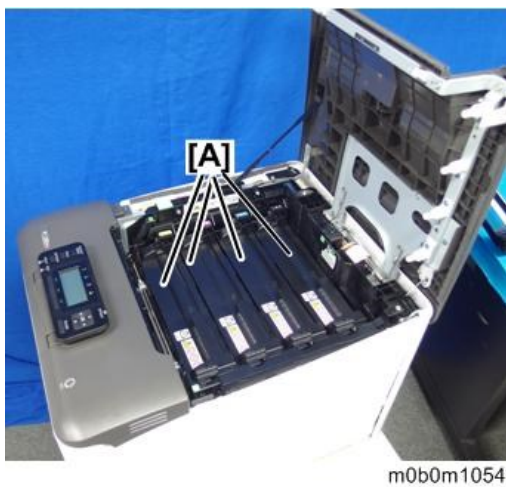


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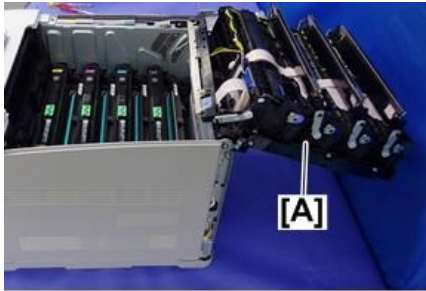
## Toner Supply Solenoid

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1. Remove the upper cover. ([Upper Cover](#))
2. Remove the toner cartridges [A].

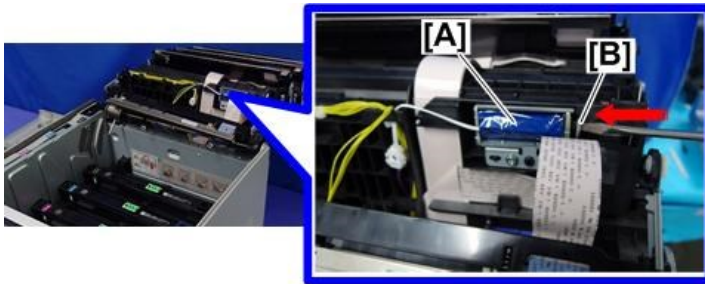


- 3.** Open the upper inner cover [A] 180 degrees.



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- 4.** Push the plunger [B] as shown below.



m0b0m1056

- 5.** Remove the plug [A] and spring [B].

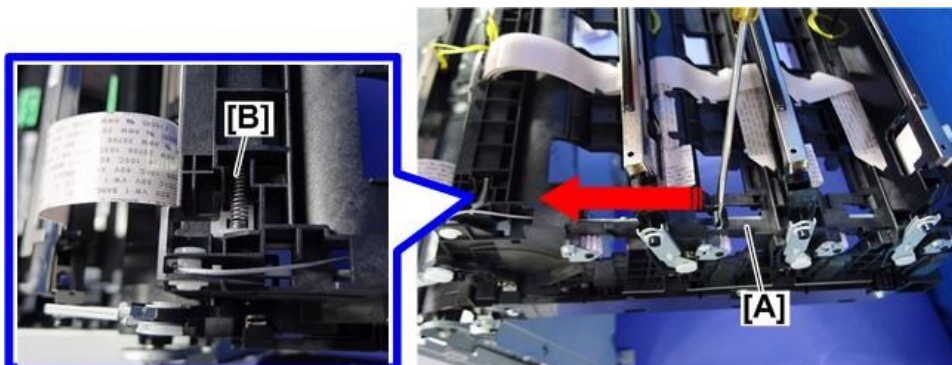


m111d4403



m111d4404

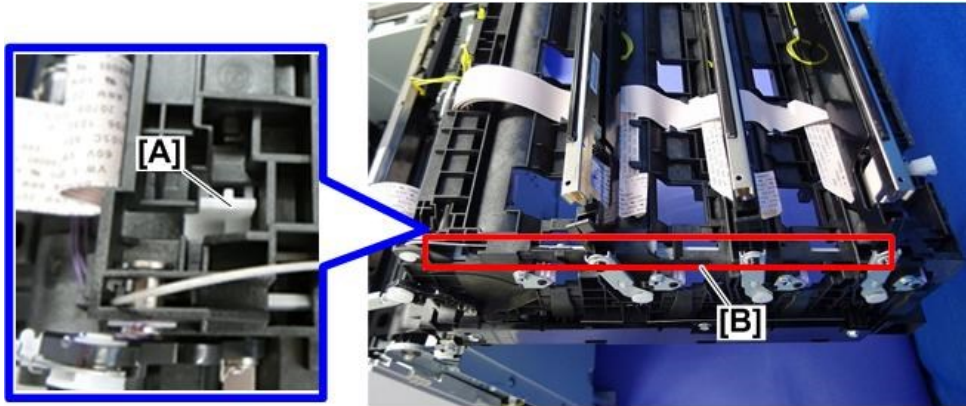
- 6.** Slide the shutter [A] as shown below to remove the spring [B].



m111d4405

#### 4.Replacement and Adjustment

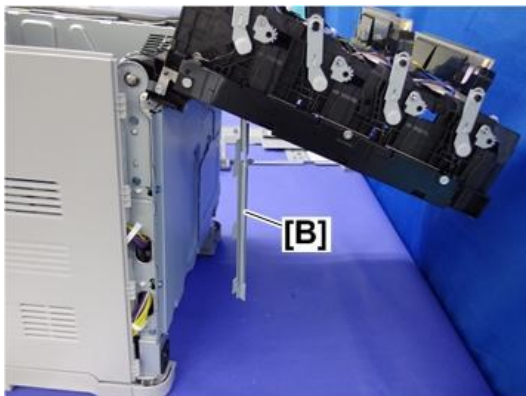
**7.** Move the bracket [A] towards the inside to remove the shutter [B].



m111d4406

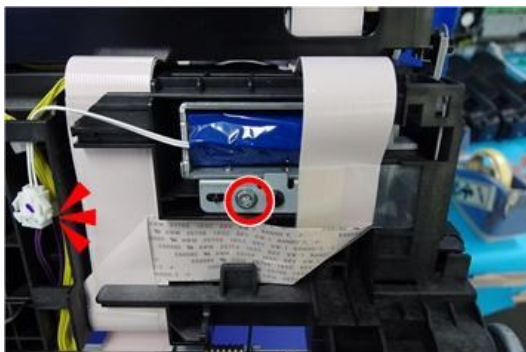
#### Note

- Let the shutter [B] hang, without taking it off.



m111d4407

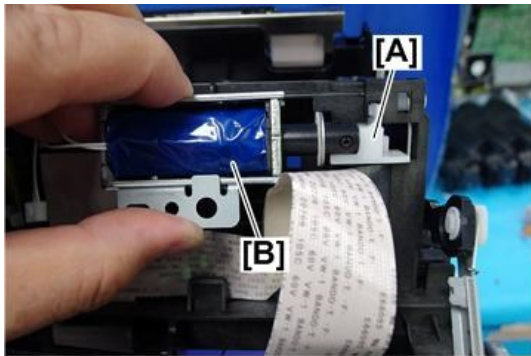
**8.** Remove the screw and connector (🔩 x1, 📌 x1).



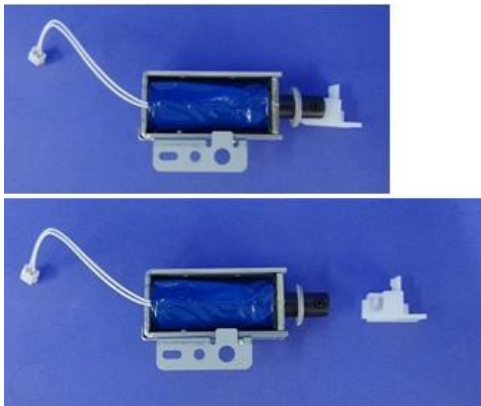
m111d4408



- 9.** Slide the bracket [A] to remove the toner supply solenoid [B].



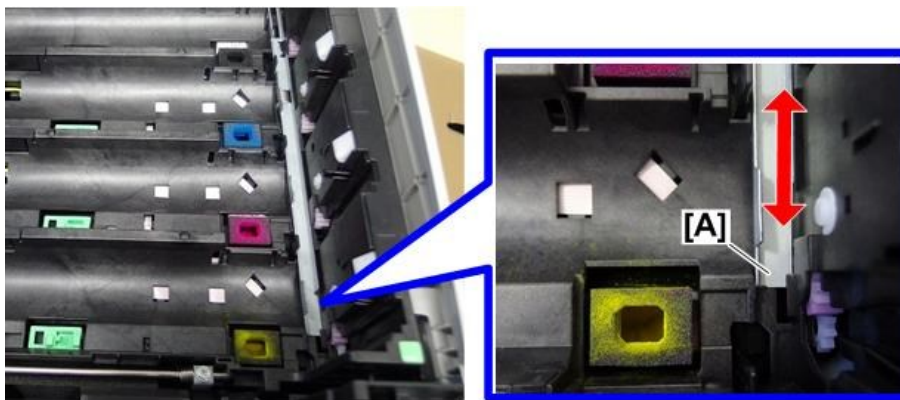
m111d4409



m111d4410

**Note**

- When you attach the shutter [A], fit it securely on the inner side of the upper inner cover, and make sure that it slides properly and is interlocked with the movement of the toner supply solenoid.



m111d4411

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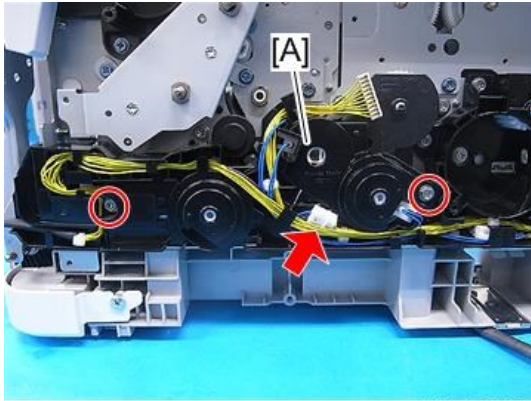
Paper Feed Clutch, ITB Contact Clutch and Drive Gears

---

- 1.** Remove the transfer/transport Motor. ([Transfer/Transport Motor](#))
- 2.** Remove the paper size switch. ([Paper Size Switch](#))

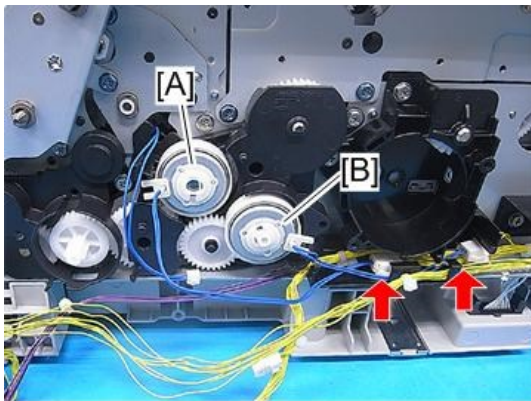
## 4.Replacement and Adjustment

**3.** Remove the harness guide [A] (🔩×2).

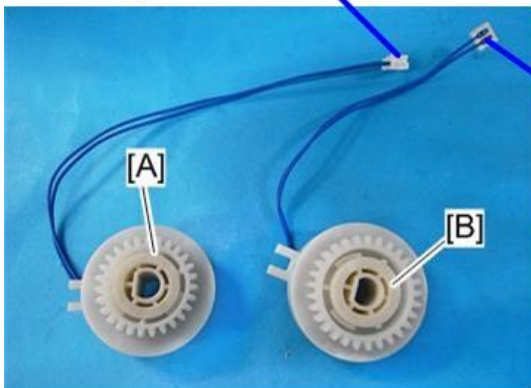


m112m0069

**4.** Remove the paper feed clutch [A] and ITB contact clutch [B] (🔩×2).



m112m0070

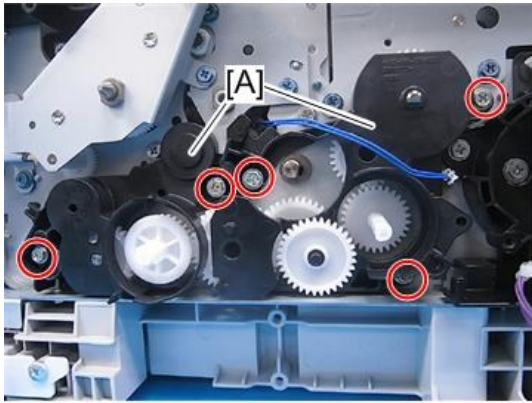


m0b0m0306

### Note

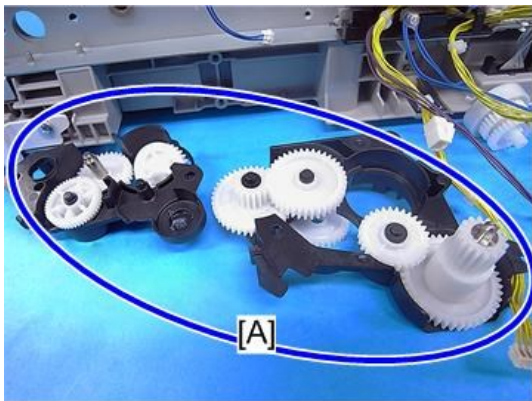
- Paper Feed Clutch: 3-pin
- ITB Contact Clutch: 2-pin

- 5.** Remove the harness guide (inner) [A] (⚙️×5).



m112m0071

- 6.** Remove the drive gears [A].



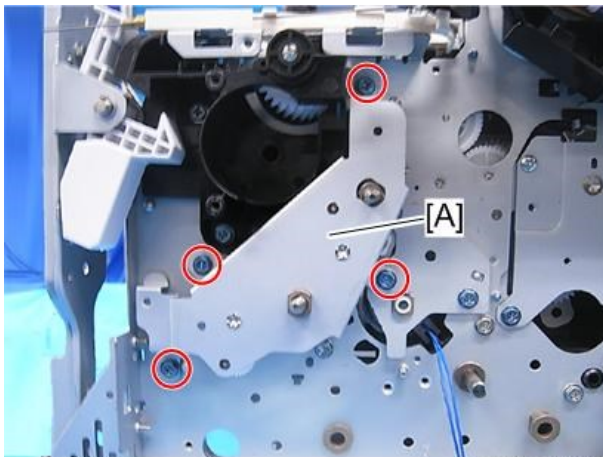
m112m0072

---

## Registration Clutch

---

- 1.** Remove the harness guide. ([Paper Feed Clutch](#), [ITB Contact Clutch](#) and [Drive Gears](#))
- 2.** Remove the gear cover [A] (⚙️×4).



m112m0073

## 4.Replacement and Adjustment

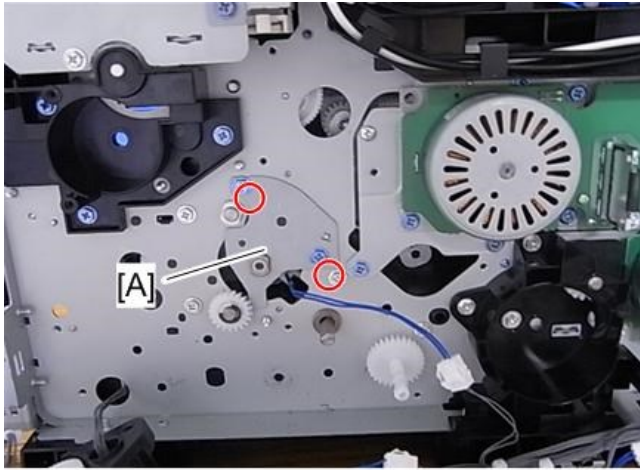
### Note

- Refer to the picture below showing the location of each gear.



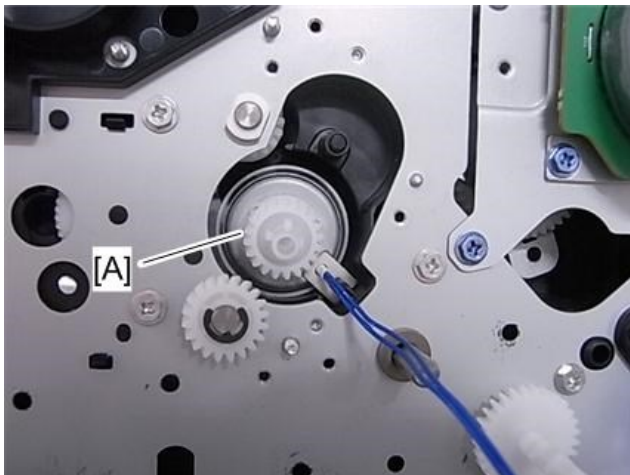
m112m0134

- Remove the bracket [A] (Ⓜ x2).



m1099101.jpg

- Remove the registration clutch [A].



m1099102.jpg

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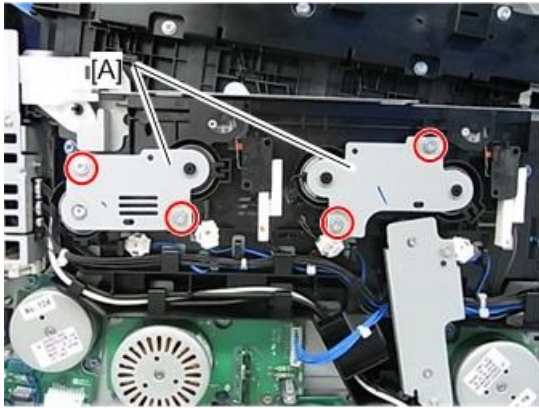
## Toner Supply Clutch

---

- Remove the right cover. ([Right Cover](#))

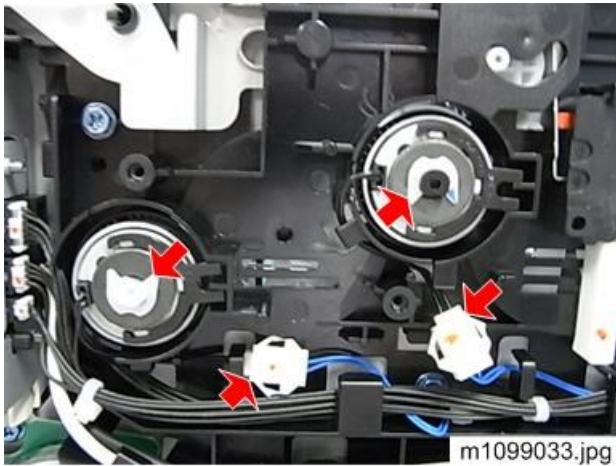


- 2.** Remove the cover brackets [A] (Ⓜ×2 each).



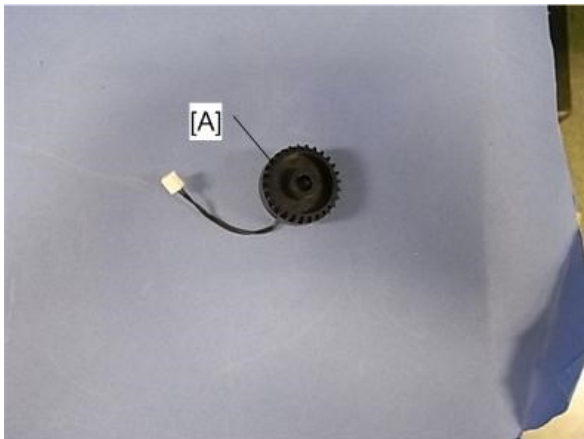
m1099032.jpg

- 3.** Remove the clips and connectors (Ⓜ×1, Ⓜ×1 for each clutch).



m1099033.jpg

- 4.** Remove the toner supply clutch [A].



m1099034.jpg

---

## Bypass Feed Clutch

---

- 1.** Open the front cover.

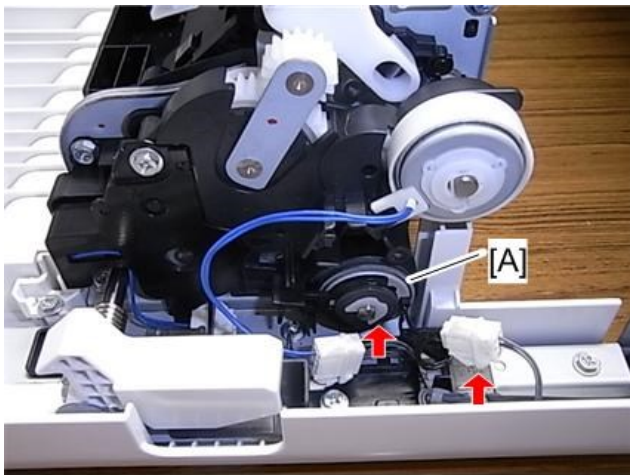
#### 4.Replacement and Adjustment

2. Remove the bracket [A] (⚙️ x1).



m1099103.jpg

3. Remove the bypass feed clutch [A] (⚙️ x1, ⚙️ x1).



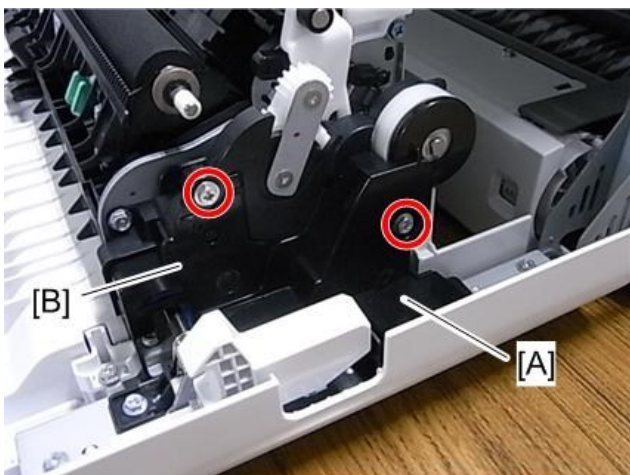
m1099105.jpg

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#### Duplex Intermediate Clutch

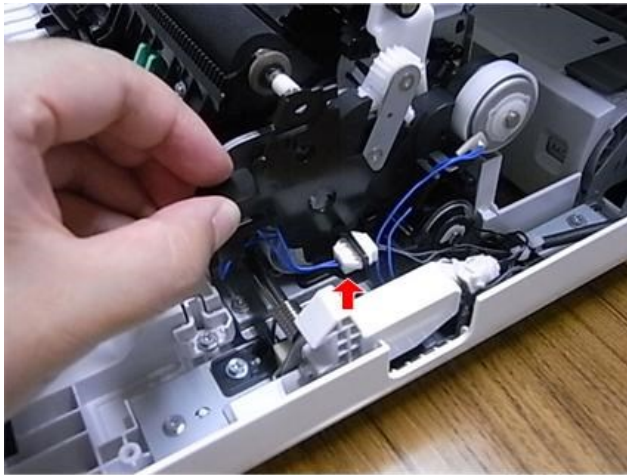
---

1. Open the front cover.
2. Remove the brackets [A] [B] (⚙️ x2).



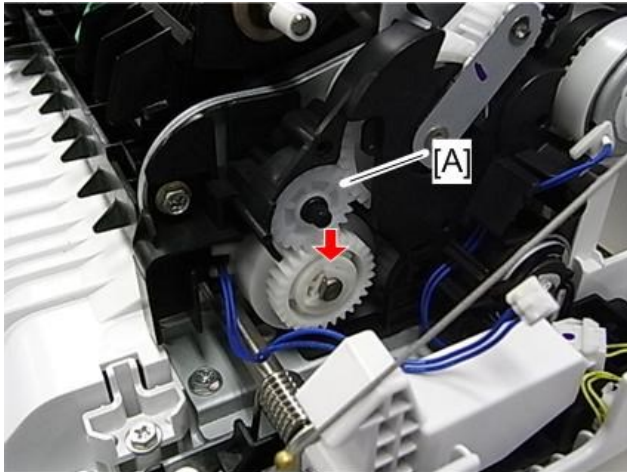
m1099106.jpg

- 3.** Remove the connector (📦 x1).



m1099107.jpg

- 4.** Remove the gear [A] and clip.



m1099108.jpg

- 5.** Remove the duplex intermediate clutch [A].



m1099109.jpg

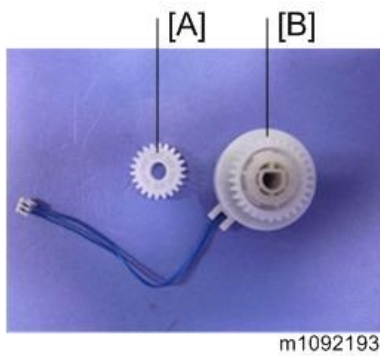
**Note**

- [A]: Gear (This gear has a round hole.)



## 4.Replacement and Adjustment

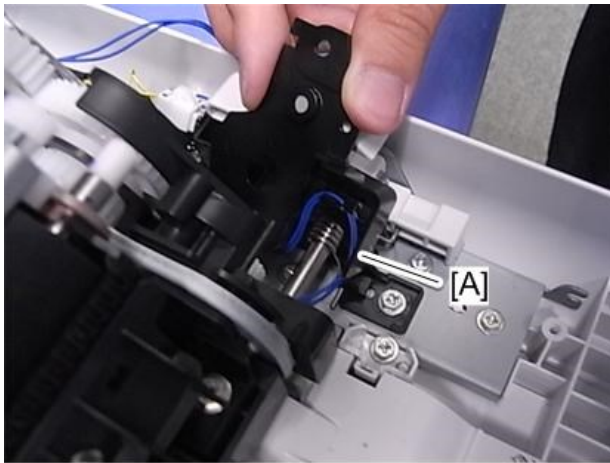
- [B]: Duplex intermediate clutch



m1092193

### ↓ Note

- Make sure that the harness [A] is installed as shown above when reinstalling the duplex intermediate clutch.



M1099184.jpg

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## Duplex Paper Exit Clutch

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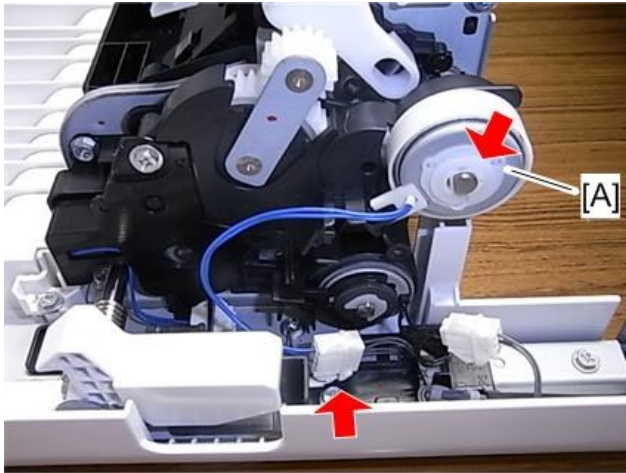
1. Open the front cover.
2. Remove the bracket [A] (🔧 x1).



m1099103.jpg



- 3.** Remove the duplex paper exit clutch [A] (🔧 x1, 🌀x1).



m112m0037

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### Bypass Bottom Plate Clutch

---

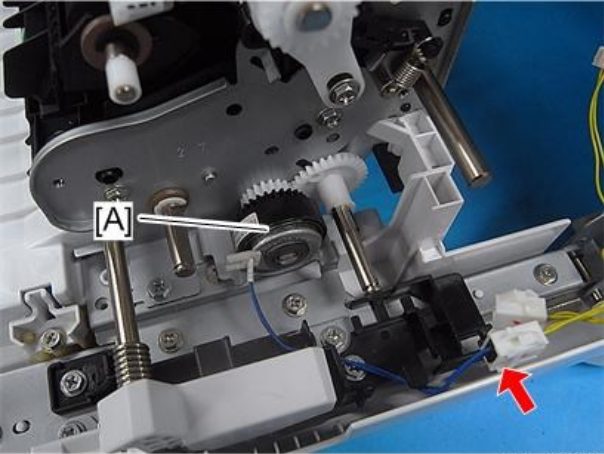
- 1.** Remove the bypass feed clutch. ([Bypass Feed Clutch](#))
- 2.** Remove the duplex intermediate clutch. ([Duplex Intermediate Clutch](#))
- 3.** Remove the duplex paper exit clutch. ([Duplex Paper Exit Clutch](#))
- 4.** Remove the gear unit [A] (🌀x2).



m112m0035

4.Replacement and Adjustment

5. Remove the bypass bottom plate clutch [A] (📦 ×1).



m112m0036

## Fusing

### ⚠ CAUTION

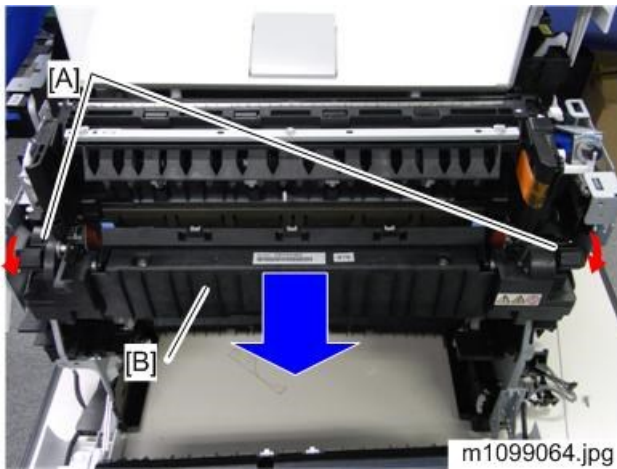
- Make sure that the fusing unit is cool before you touch it. The fusing unit can be very hot. Make sure to restore the insulators, shields, etc. after you service the fusing unit.

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### Fusing Unit

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1. Open the front cover.
2. Hold the fusing unit lock levers [A] while pulling out the fusing unit.
3. Remove the fusing unit [B].




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### Thermistor

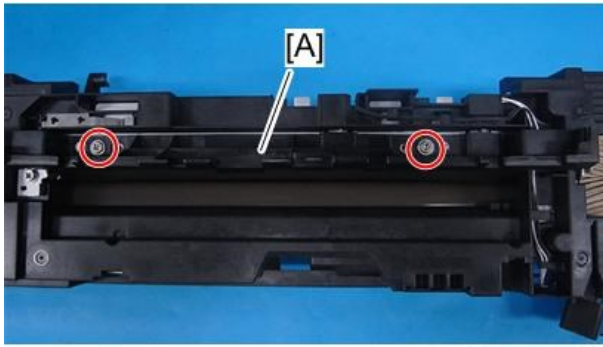
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1. Remove the fusing unit. ([Fusing Unit](#))
2. Remove the fusing upper cover [A] (⊖ ×4).



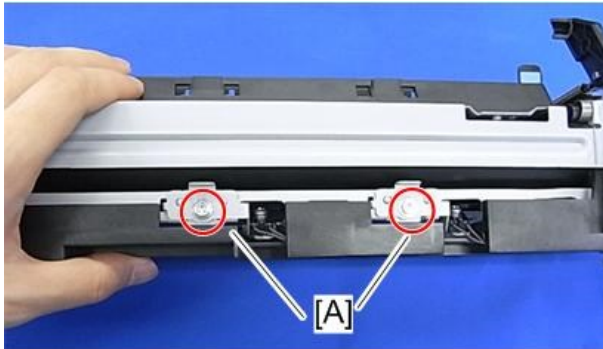
#### 4.Replacement and Adjustment

- 3.** Remove the fusing entrance guide [A] (⊙×2).



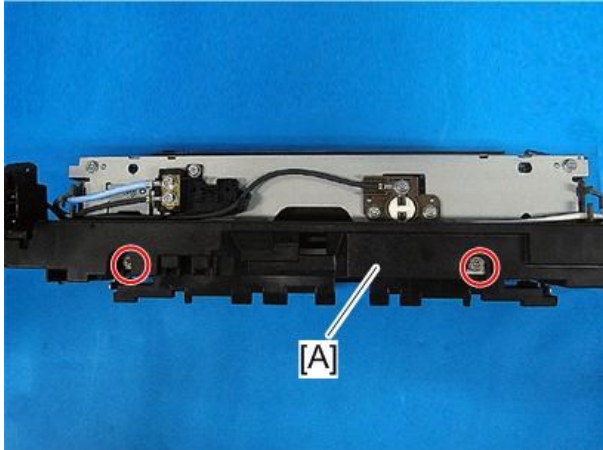
m112m0021

- 4.** Remove the thermistor bracket [A] (⊙×2).

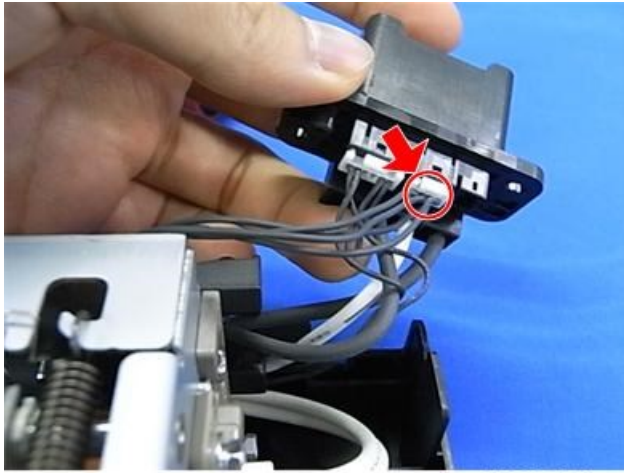


m112m0022

- 5.** Remove the fusing lower cover [A] (⊙×2, ☐×1).



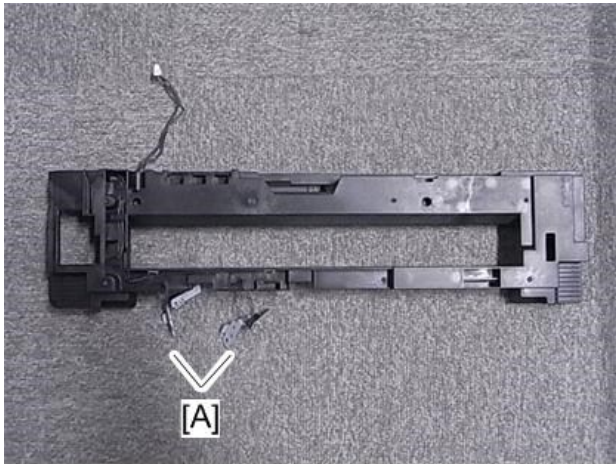
m112m0023



m1099059.jpg

**Note**

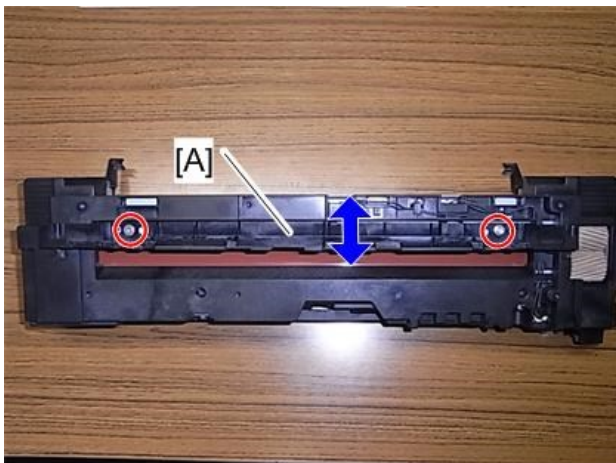
- Put the fusing lower cover as shown above in order to prevent damaging the thermistor [A].



m1099120.jpg

**Note**

- The guide [A] of the fusing lower cover can be adjusted in the arrow directions by removing the two screws.

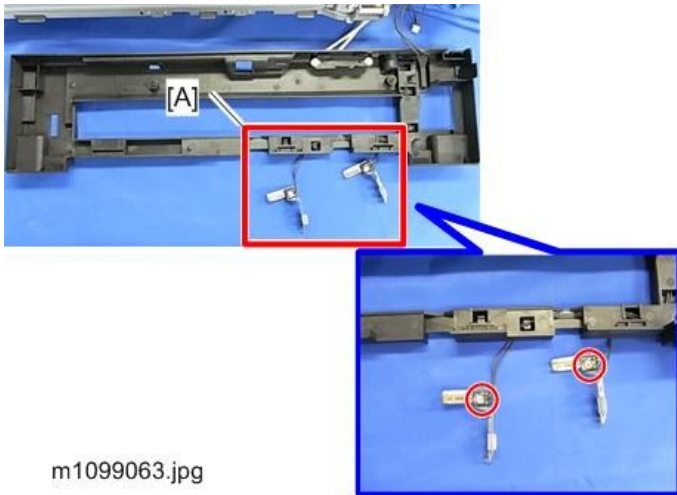


m0b0m1046.jpg

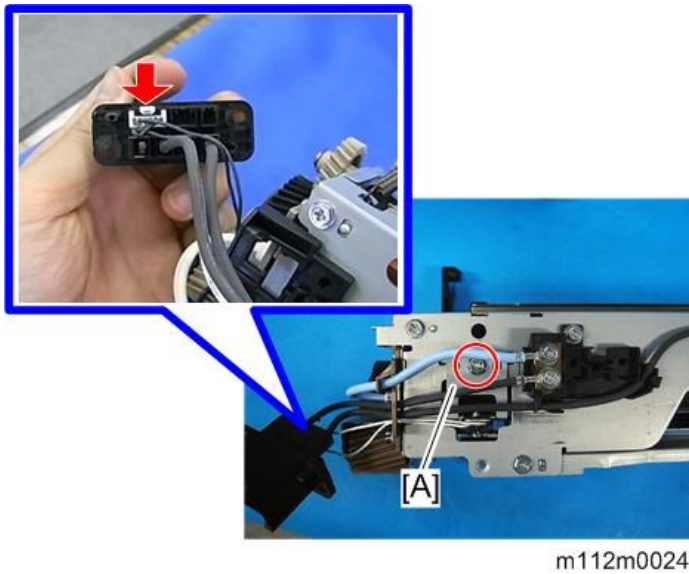


#### 4.Replacement and Adjustment

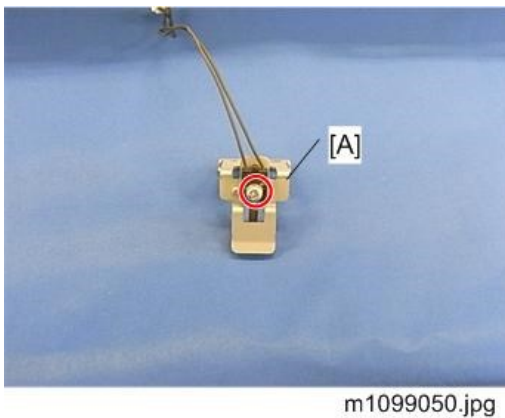
- 6.** Remove the thermistor ×2 [A] (🔩×1 each).



- 7.** Remove the thermistor bracket [A] (🔩×1, 📦×1).



- 8.** Remove the thermistor [A] (🔩×1).



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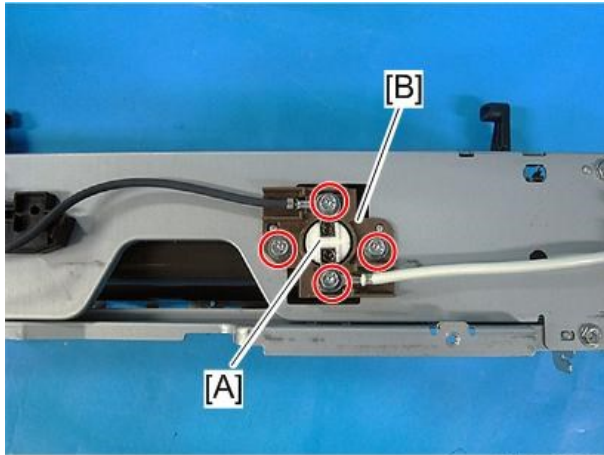
### Thermostat

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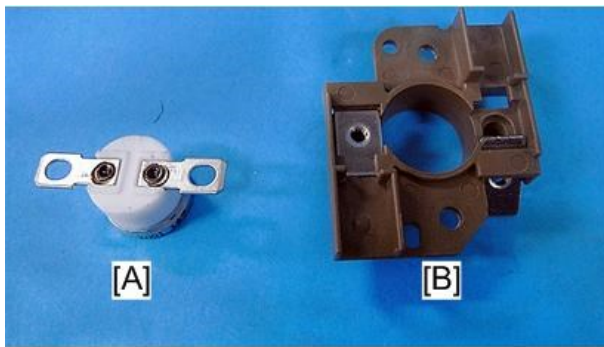
**★ Important**

- If a thermostat has been triggered, be sure to change it.

1. Remove the fusing unit ([Fusing Unit](#)).
2. Remove the fusing upper cover ([Thermistor](#)).
3. Remove the fusing lower cover ([Thermistor](#)).
4. Remove the thermostat [A] and thermostat bracket [B] (🔩×4).



m112m0025



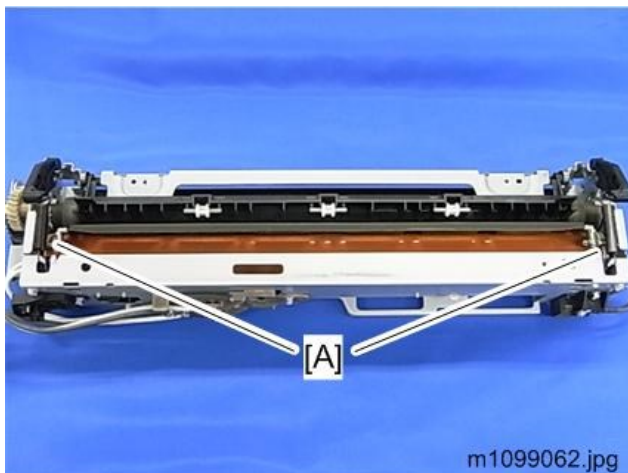
m112m0026

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## Fusing Belt Unit


---

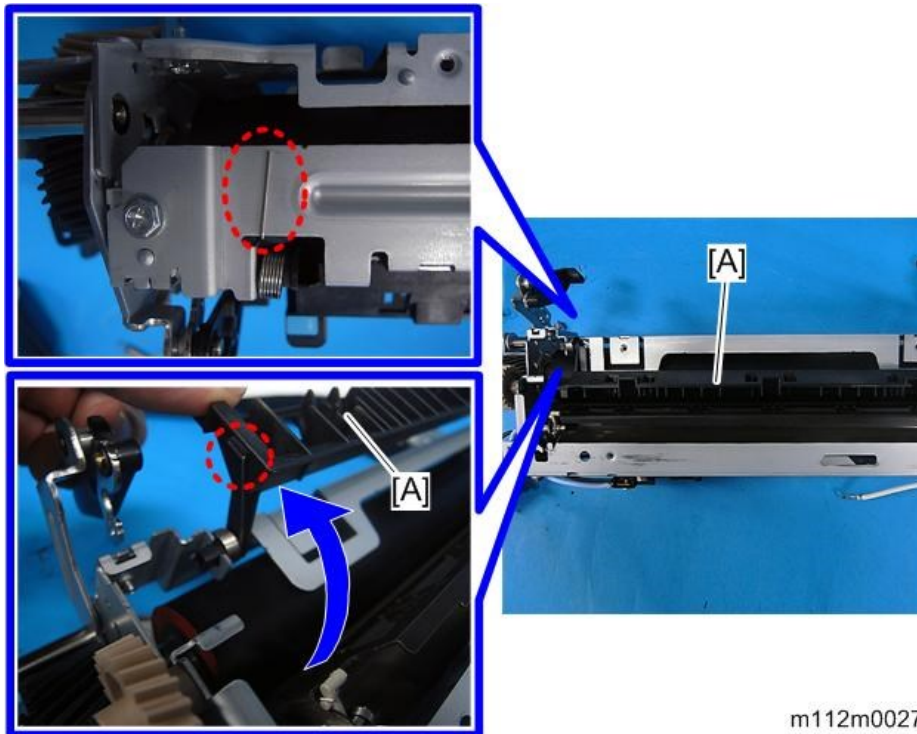
1. Remove the fusing unit. ([Fusing Unit](#))
2. Remove the fusing upper cover. ([Thermistor](#))
3. Remove the fusing lower cover. ([Thermistor](#))
4. Remove the spring [A] (🔩×2).



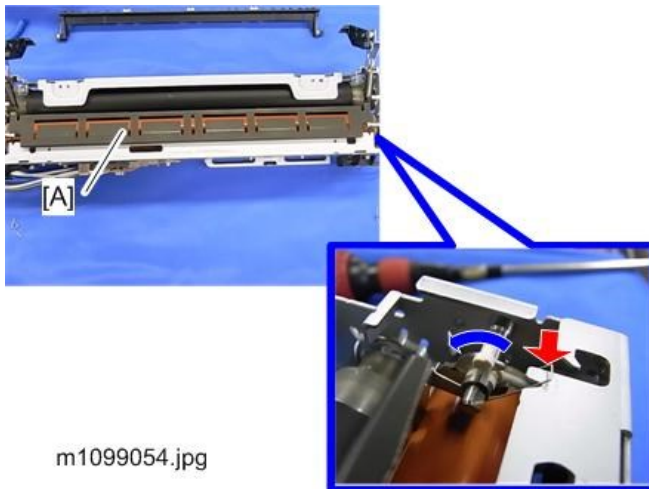
m1099062.jpg

#### 4.Replacement and Adjustment

**5.** Remove the guide [A] (  ×1).



**6.** Remove the guide plate [A] (spring ×2, hook ×2).

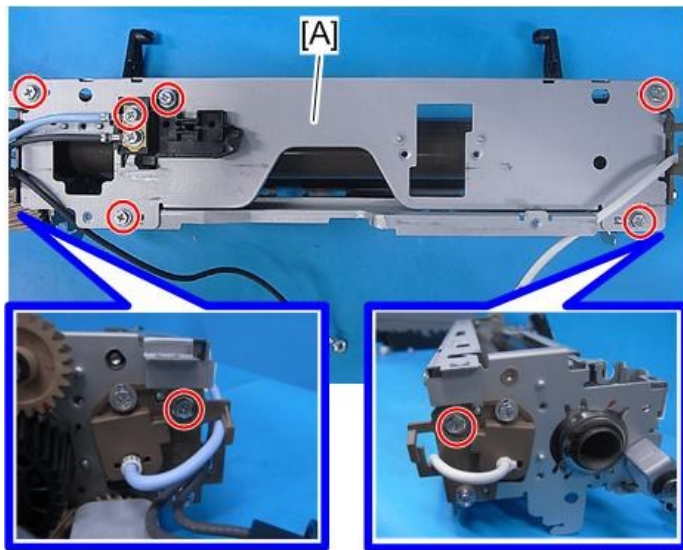


#### **Note**

- Push the lever backward as shown by the blue arrow in the picture above. Then pay attention to the shape (D-shape) of the joints in order to pull the guide plate off the axis smoothly.

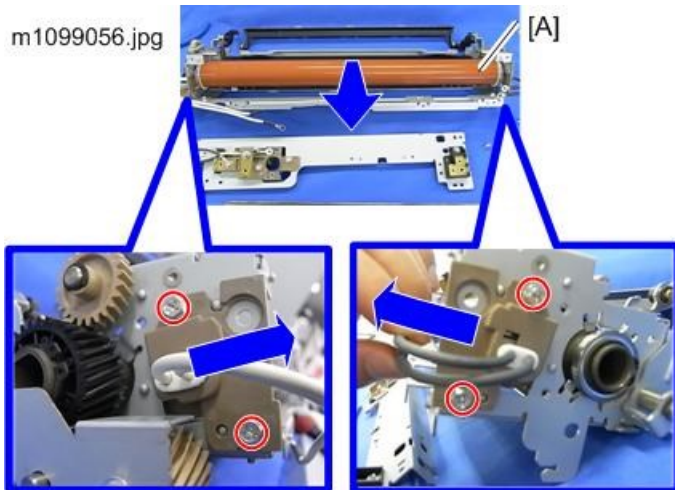


7. Remove the bracket [A] (⚙️×8).



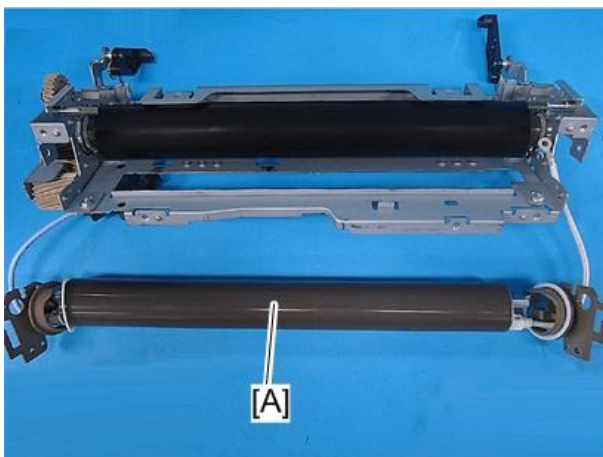
m112m0028

8. Remove the fusing belt unit [A] (⚙️× 4).



**Note**

- To detach easily, move the ends of the fusing belt unit sideways to release the hold. Then try to pull it out.



m112m0029

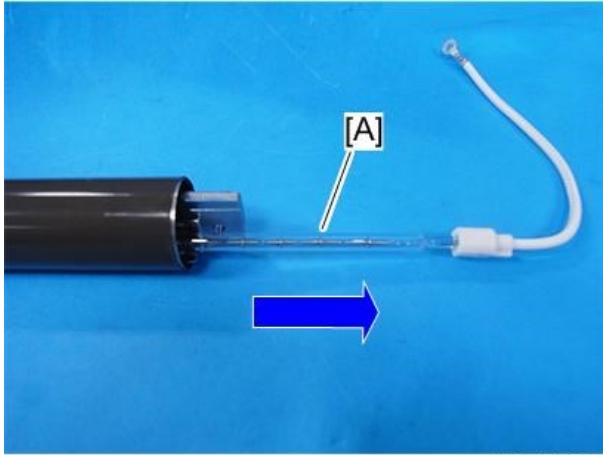
## 4.Replacement and Adjustment

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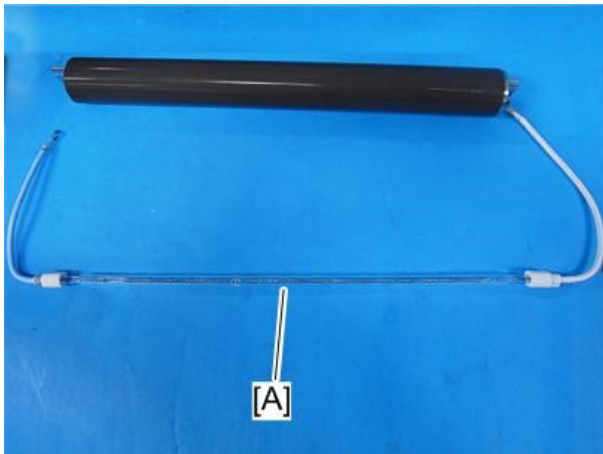
### Fusing Lamp

---

1. Remove the fusing belt unit. ([Fusing Belt Unit](#))
2. Pull out the fusing lamp [A] from the belt assembly.



m112m0030



m112m0031

#### Note

- When you reassemble, pay attention to the shape of brackets [A] and [B] as shown in the picture below.



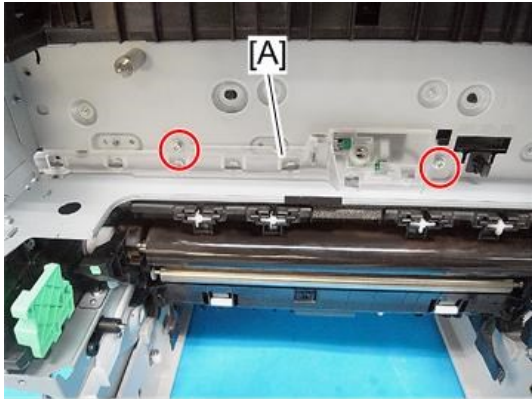
m112m0032

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## Thermopile (with Bracket)

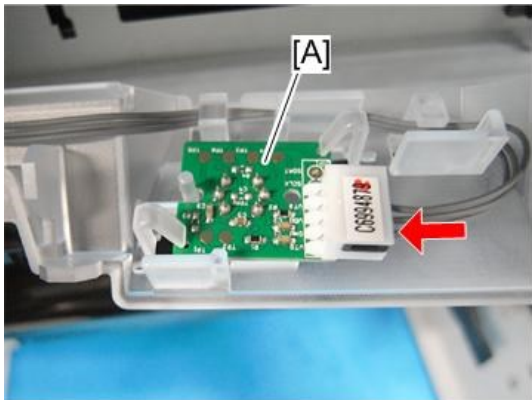
---

1. Remove the fusing unit. ([Fusing Unit](#))
2. Remove the thermopile bracket (holder) [A] (🔩×2).



m112m0145

3. Disconnect the thermopile with its holder [A] (🔌×1).



m112m0144

**★ Important**

- Do not remove the thermopile [A] from the bracket (holder). Otherwise, the hooks of the bracket (holder) will be damaged.

## Paper Feed

---

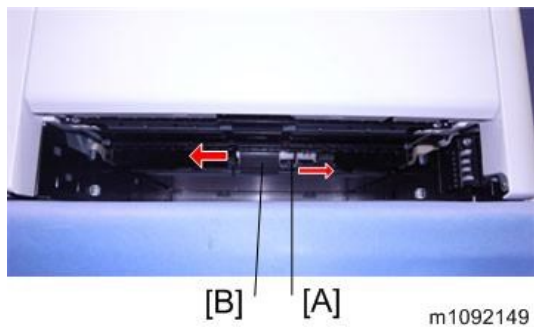
### Paper Feed Roller

---

1. Pull out the standard paper tray [A].



2. Slide the paper feed shaft [A] to the right side, and then slide the paper feed roller [B] to the left side, and remove it.



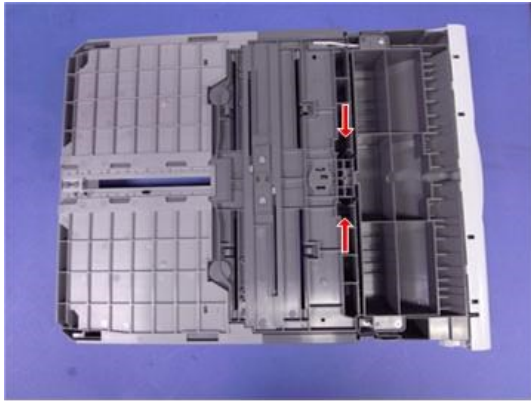
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### Friction Pad

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1. Remove the paper tray unit from the machine before removing the friction pad.

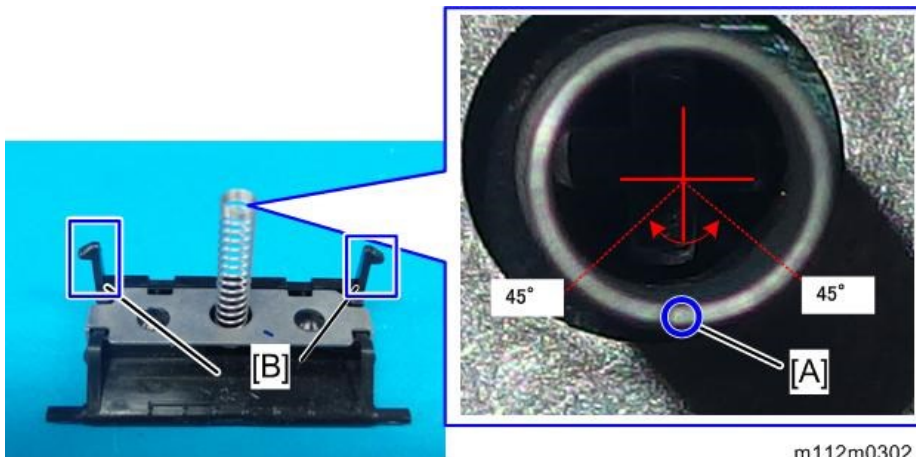
**2.** Remove the friction pad [A] (hook×2).



m1092028

**Note**

- When installing the friction pad, turn the spring so that the tip of the wire [A] faces the opposite edge from where the end hooks [B] are mounted, and is within 45° of an imaginary axis between the center of the spring and this opposite edge, because separation pressure for paper feed is weakened depending on the orientation of the spring.



m112m0302

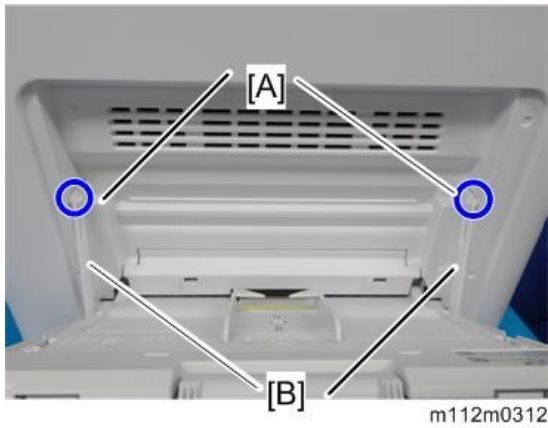
**Bypass Tray Unit**

**1.** Open the bypass tray.

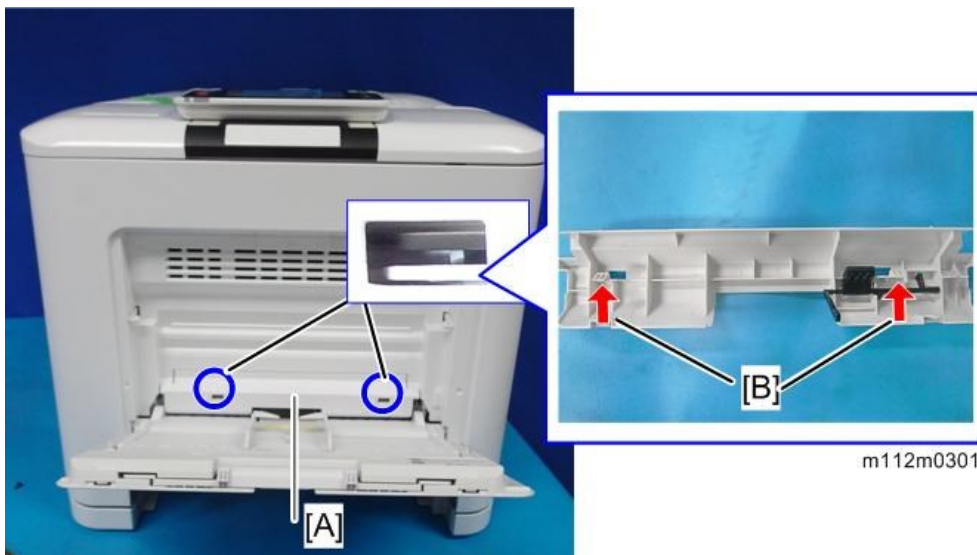


## 4.Replacement and Adjustment

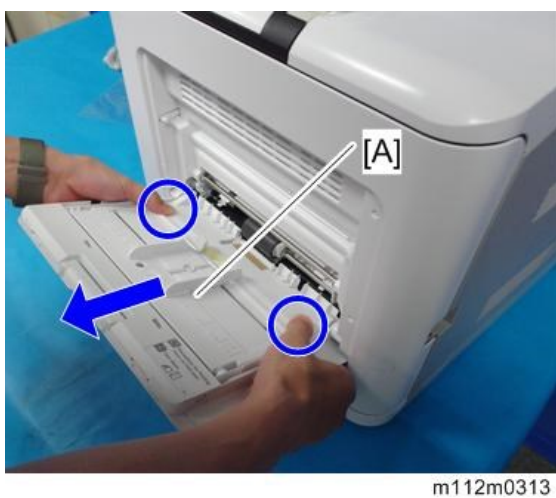
2. Remove the snaps [A] from the shaft, and then release the shaft [B] (hook x2).



3. Insert a flat-bladed screwdriver into the holes indicated by blue circles to push the tabs [B] in, and remove the Bypass Feed Roller Cover [A] (hook x2).



4. While pushing the parts indicated by blue circles, pull out the Bypass Tray Unit [A] towards you.



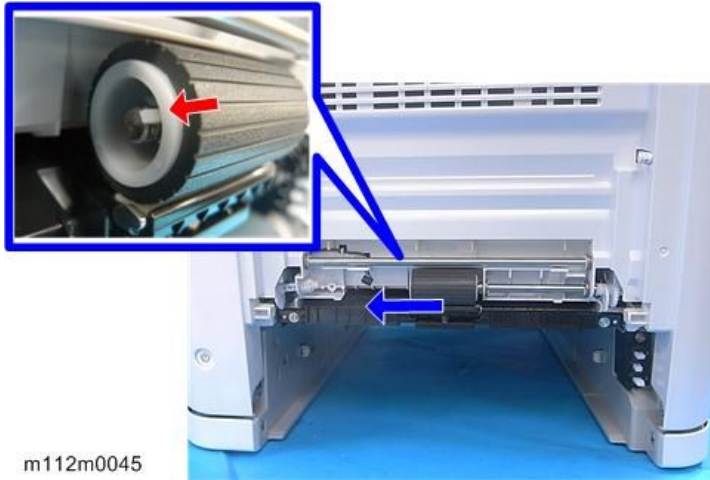
---

## Bypass Feed Roller

---

1. Remove the bypass tray unit (Bypass Tray Unit).

2. Remove the bypass paper end sensor ([Bypass Paper End Sensor](#)).
3. Remove the bypass feed roller [A] (hook ×1).

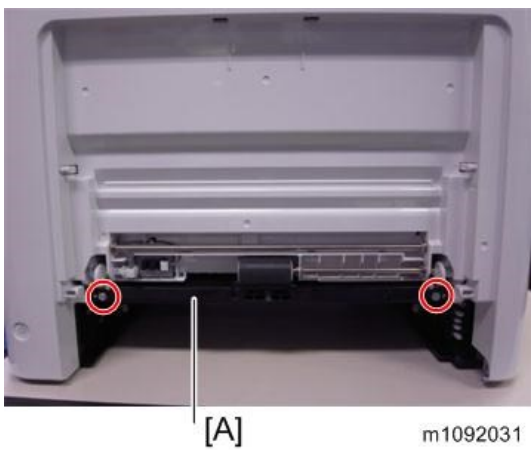


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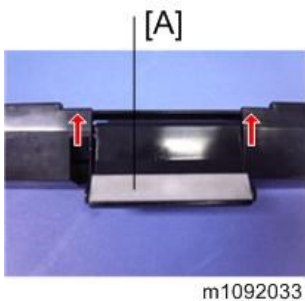
### Bypass Friction Pad

---

1. Remove the bypass feed roller. ([Bypass Feed Roller](#))
2. Remove the guide [A] (⊙ ×2).



3. Remove the bypass friction pad [A].



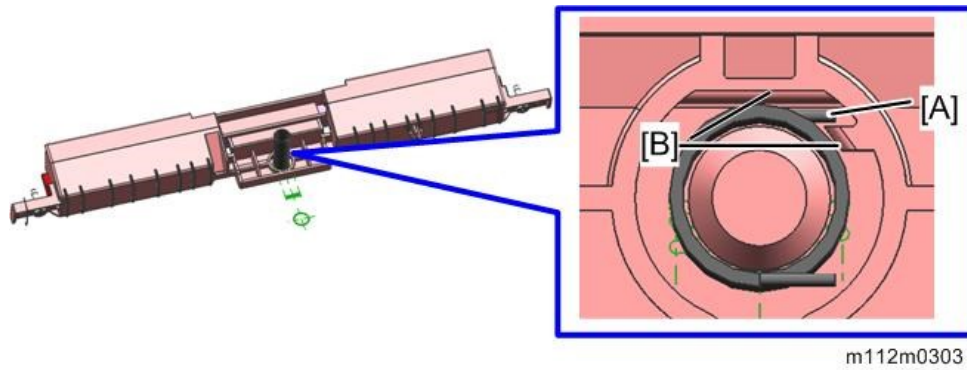
**Note**

- When installing the bypass friction pad, place the lower end of the spring [A] between the ribs [B] on the guide, because separation pressure for bypass paper feed is weakened



## 4.Replacement and Adjustment

depending on the orientation of the spring.

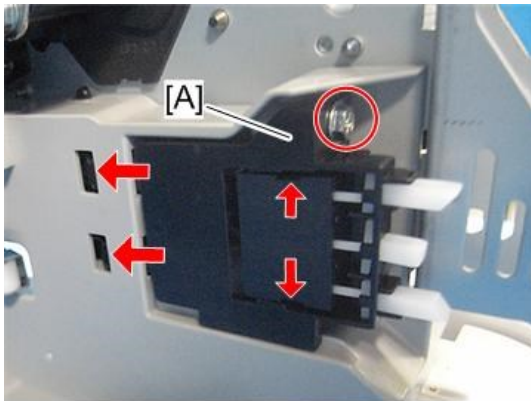


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### Paper Size Switch

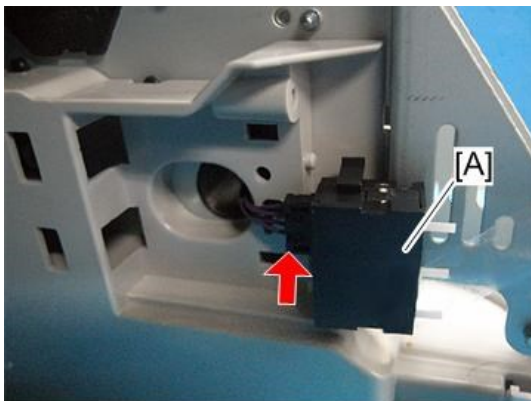
---

1. Remove the standard paper tray. ([Paper Feed Roller](#))
2. Remove the paper size switch cover [A] (⌀×1, hook×4).



m112m0055

3. Remove the paper size switch [A] (⊠×1).



m112m0056

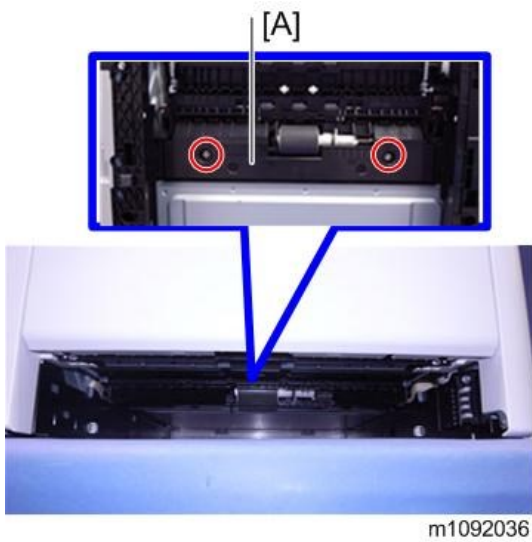
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### Paper End Sensor

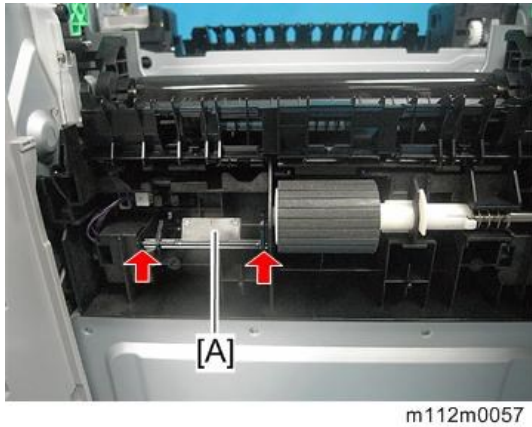
---

1. Remove the standard paper tray. ([Paper Feed Roller](#))

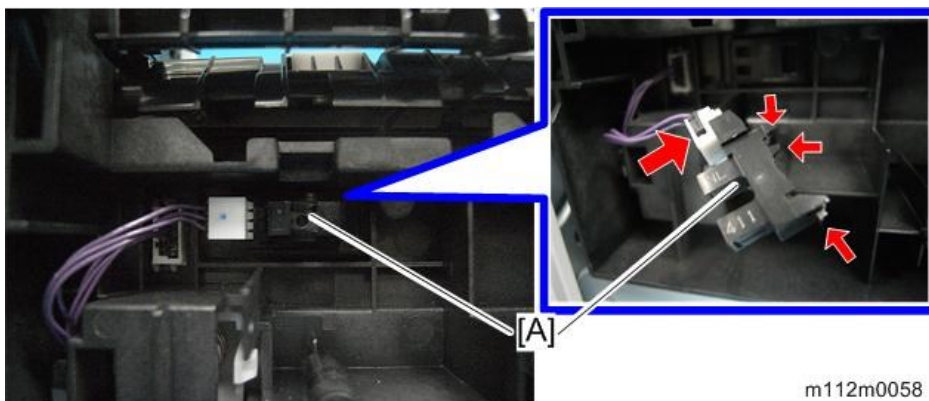
- 2.** Remove the sensor cover [A] (🔩×2).



- 3.** Remove the feeler [A].



- 4.** Remove the hooks of the paper end sensor [A], and then remove the connector (🔩×1, hook×3).



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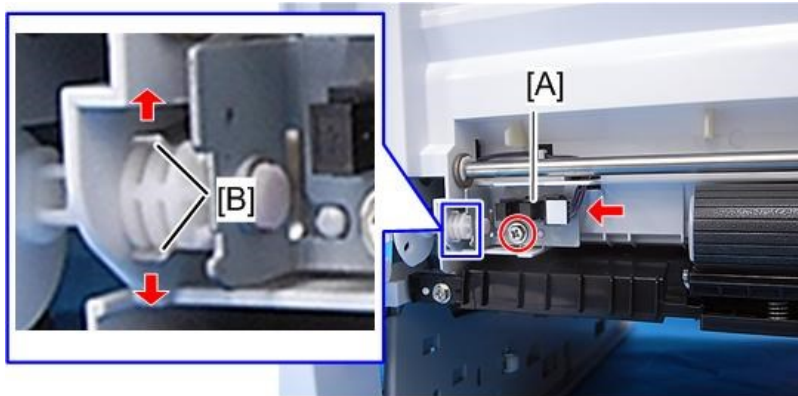
### Bypass Paper End Sensor

---

- 1.** Remove the bypass tray unit. (Bypass Tray Unit)
- 2.** Release the two leaf springs [B], and then remove the bypass paper end sensor [A] (🔩×1, 📌)

## 4.Replacement and Adjustment

×1).



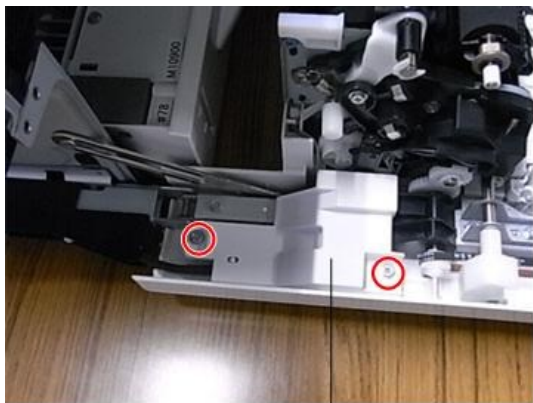
m112m0044

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### Bypass Bottom Plate Home Position Sensor

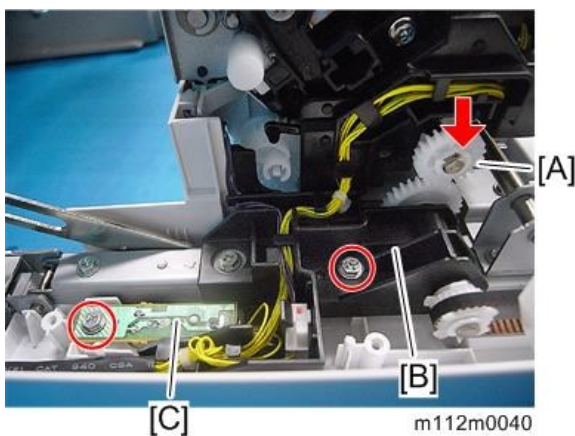
---

- 1.** Open the front cover.
- 2.** Remove the cover [A] (⚙️×2).



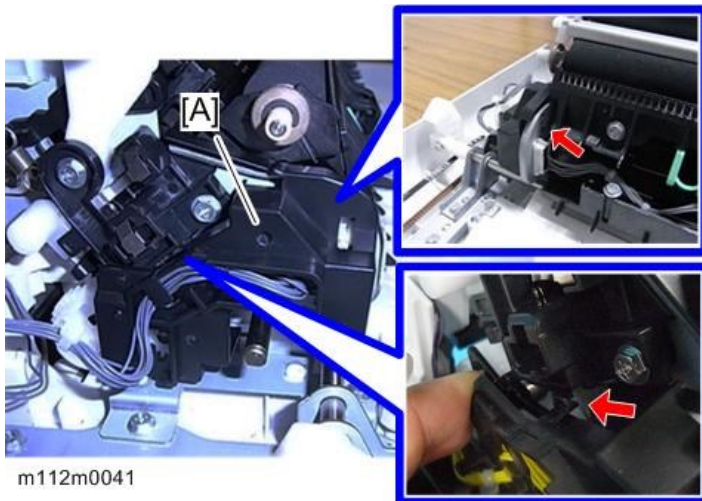
[A] m1092131

- 3.** Remove the gear [A], and then remove the harness guide [B] and the power switch [C] (⚙️×2, ⚙️×1).

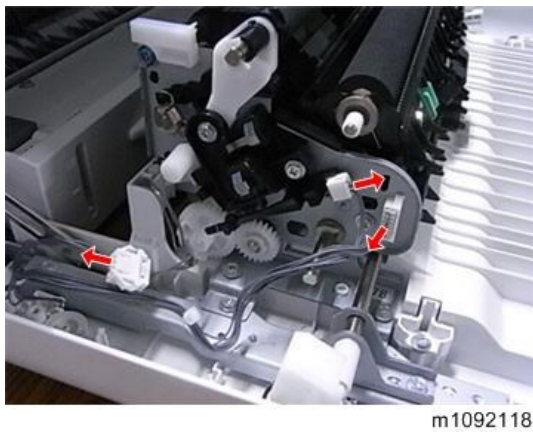


m112m0040

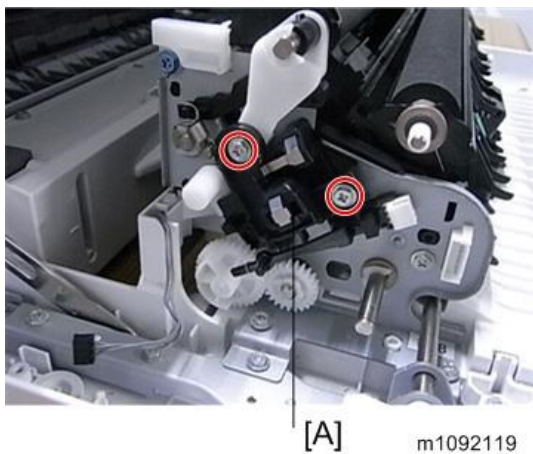
- 4.** Remove the harness guide [A] (hook×2).



- 5.** Remove the connectors (🔌×3).



- 6.** Remove the ground plate [A] (🔩×2).



- 7.** Insert a flat-blade screwdriver under the bypass bottom plate home position sensor [A], and then

4.Replacement and Adjustment

pull it out.



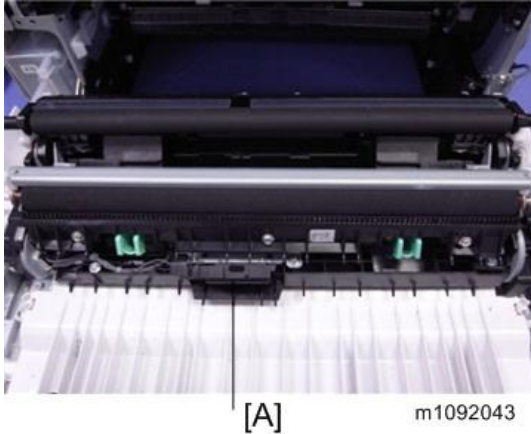
[A] m1092181



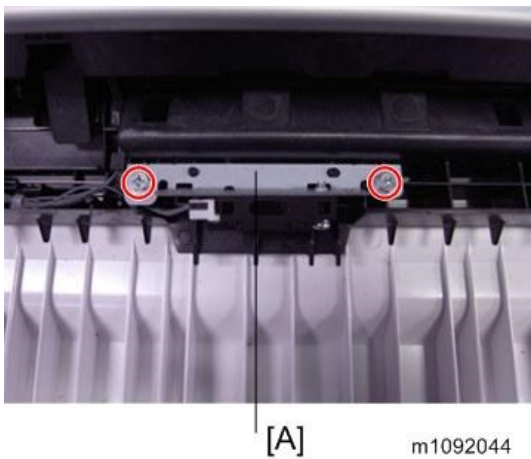
## Paper Transport

### Fusing Entrance Sensor

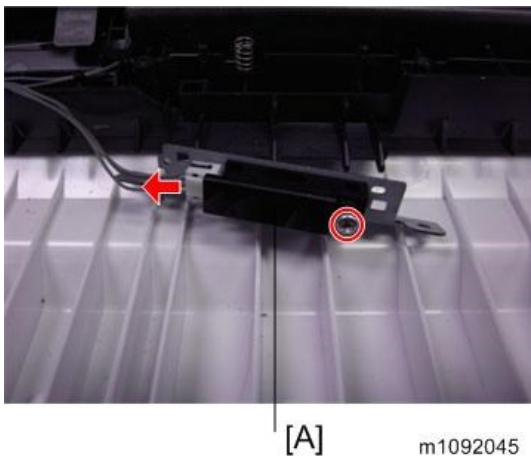
1. Open the front cover.
2. Remove the sensor cover [A] (hook×2).



3. Remove the sensor unit [A] (⊙×2).



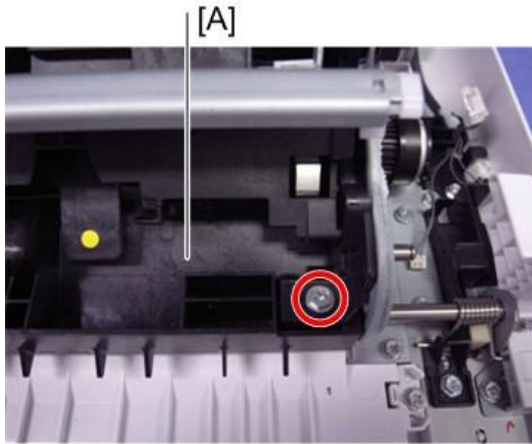
4. Remove the fusing entrance sensor [A] (⊙×1, ⊞×1).



## 4.Replacement and Adjustment

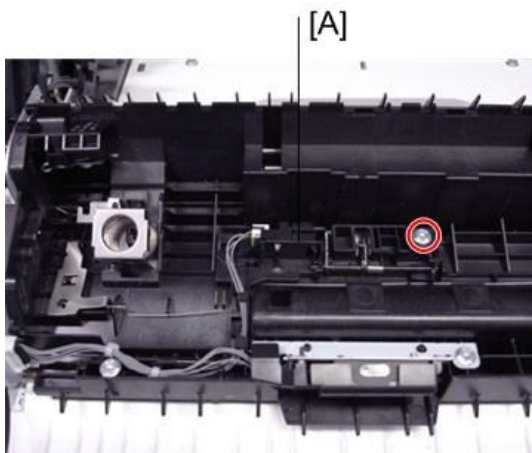
### Duplex Sensor

1. Open the front cover.
2. Remove the transfer roller. ([Transfer Roller](#))
3. Remove the roller upper cover [A] (🔩×1).



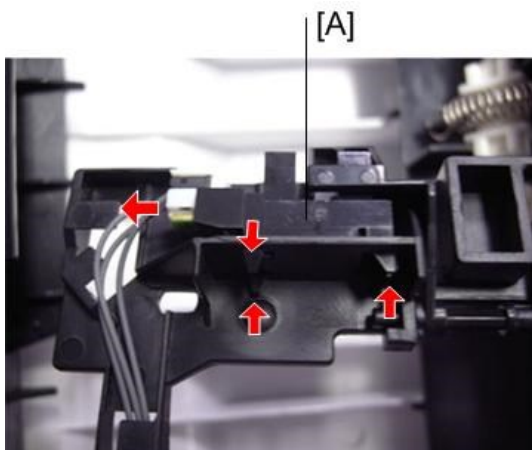
m1092063

4. Remove the sensor unit [A] (🔩×1).



m1092064

5. Remove the duplex sensor [A] (📦×1, hook×3).

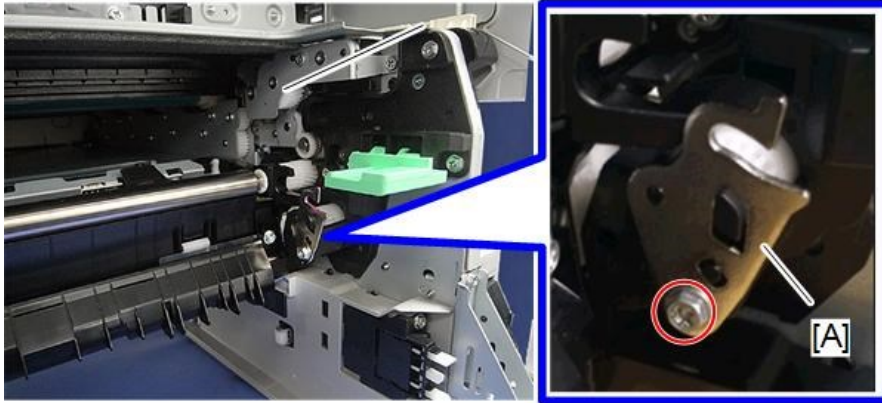


m112m0122



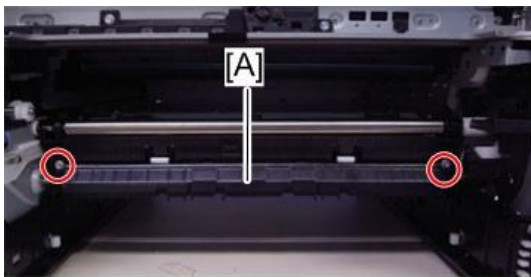
Registration Sensor

1. Remove the paper feed tray. (Paper Feed Roller)
2. Open the front cover.
3. Remove the plate [A] (⚙️×1).



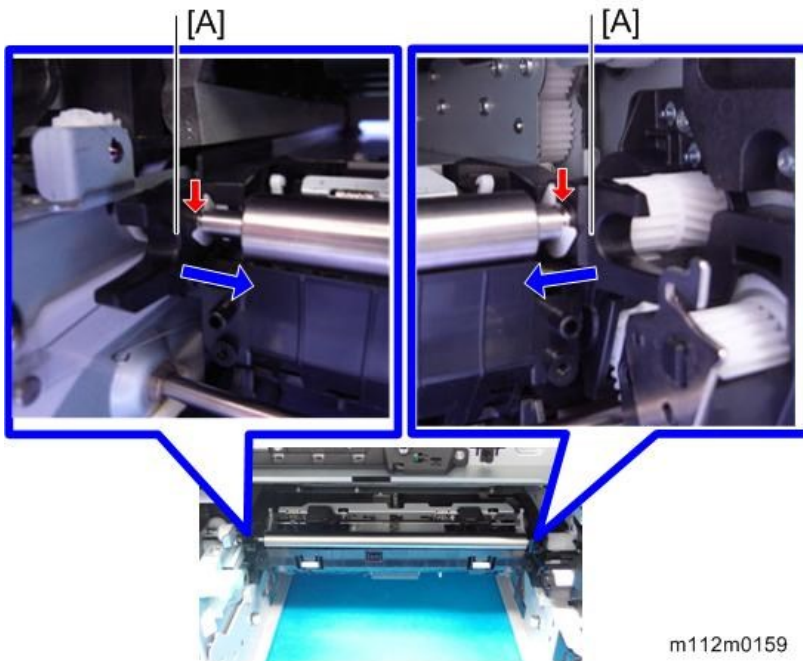
m112m0158

4. Remove the transport guide (front) [A] (⚙️×2).



m112m0080

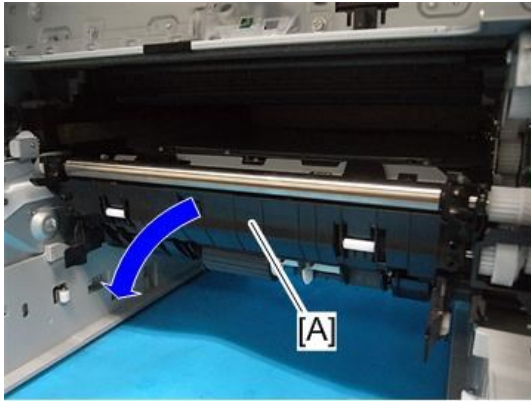
5. Slide the registration position stopper inside (left/right) [A] (⚙️×2).



m112m0159

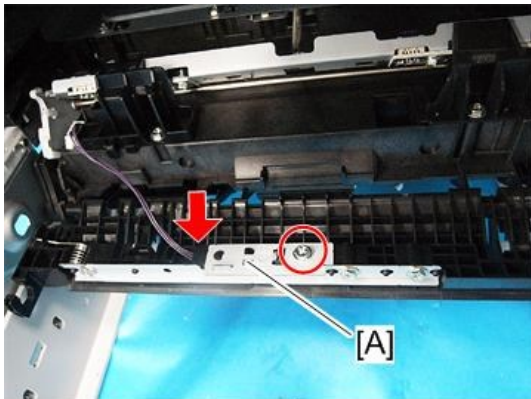
## 4.Replacement and Adjustment

6. Pull out the transport guide (upper) [A].

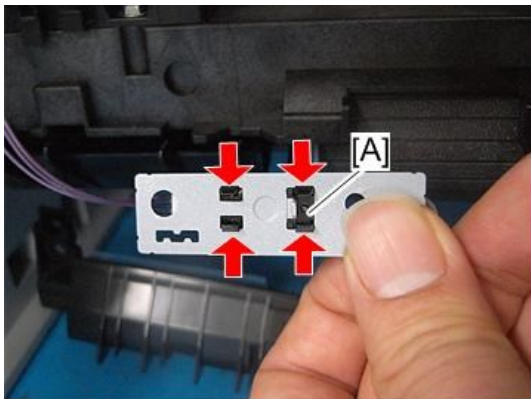


m112m0127a

7. Remove the registration sensor [A] (🔩 ×1, ⚙️ ×1, hook ×4).



m112m0128



m112m0129

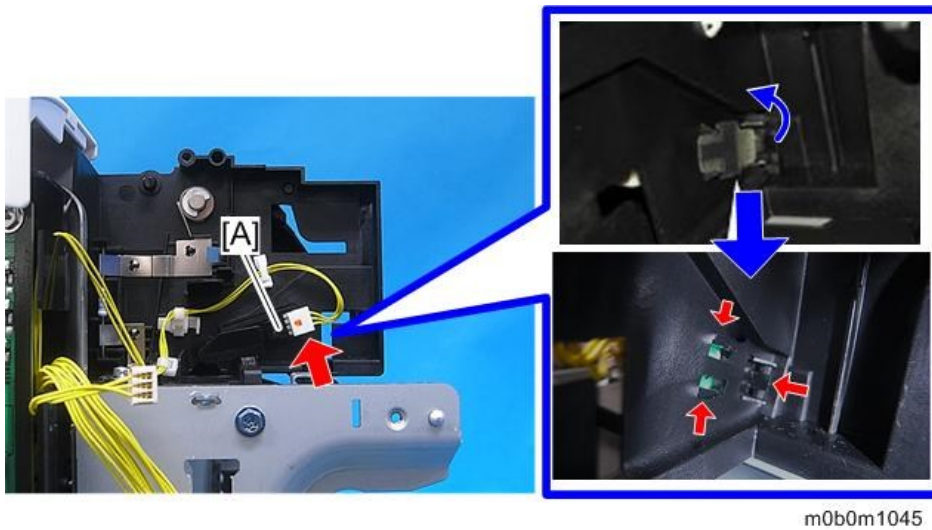
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## Paper Exit Sensor

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1. Remove the fusing fan. (Fusing Fan Motor)

- 2.** Remove the paper exit sensor [A] (🔩 ×1, mylar plate x1, hook×3).

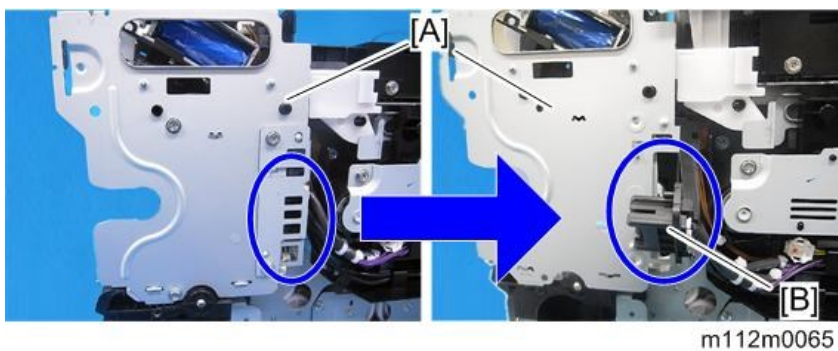
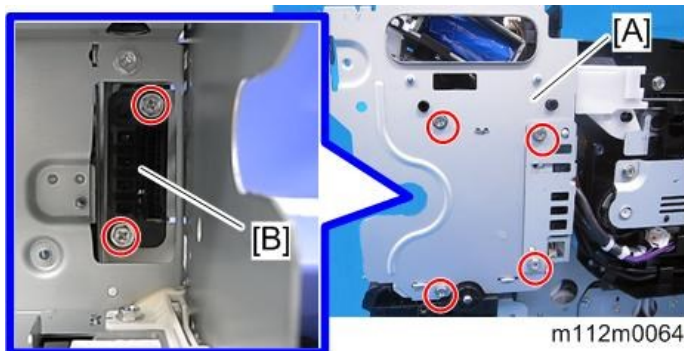


### Paper Exit Full Sensor

- 1.** Remove the right cover. (Right Cover)
- 2.** Remove the paper exit cover. (Paper Exit Cover (with Operation Panel))
- 3.** Remove the fusing unit. (Fusing Unit)
- 4.** Remove the metal bracket [A] (🔩 ×6).

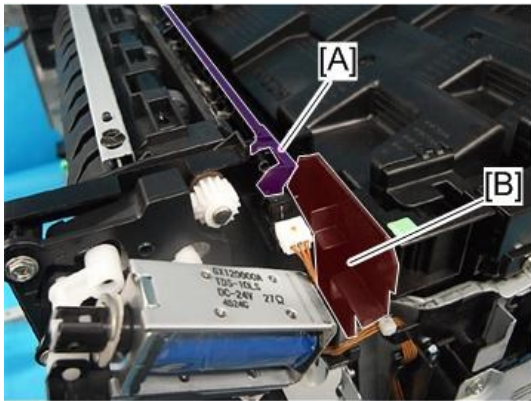
**Note**

- For the drawer connector of the fusing unit, washer screws are used.
- After removing the screws, turn the connector [B] outward.



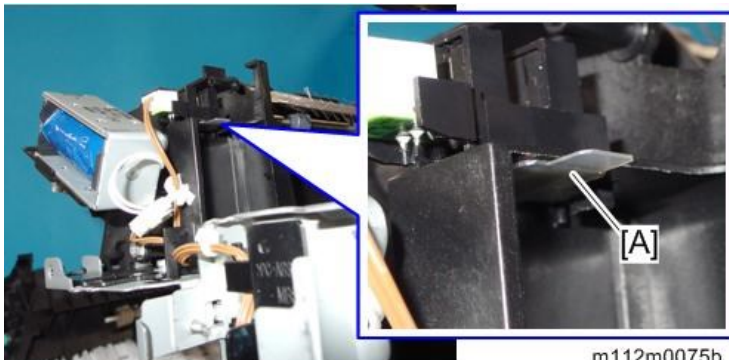
#### 4.Replacement and Adjustment

**5.** Remove the actuator [A] and partition plate [B].



m112m0075

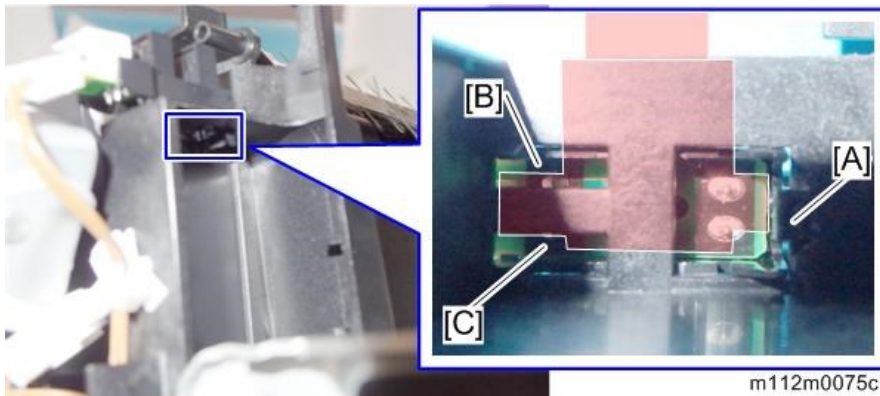
**6.** Remove the Mylar plate [A] attached under the sensor.



m112m0075b

#### Note

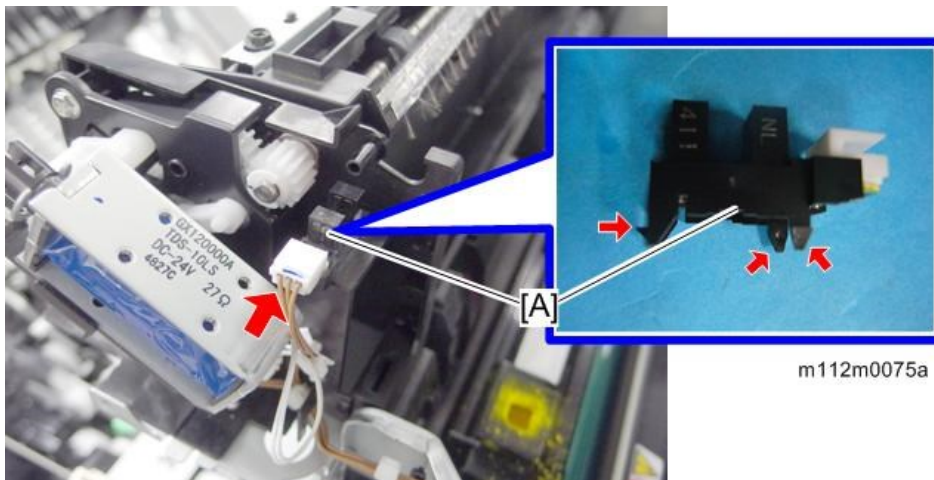
- Do not discard the removed mylar plate because it will be reused when the sensor is installed.
- When reattaching the plate, fit it within the 3 tabs of the sensor.



m112m0075c

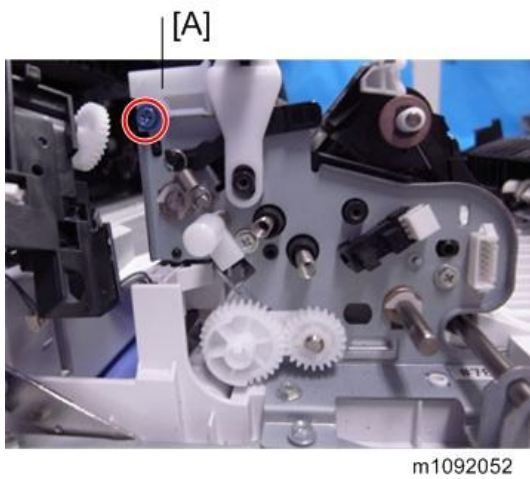


- 7.** Remove the paper exit full sensor [A] (🔌 ×1, hook ×3).

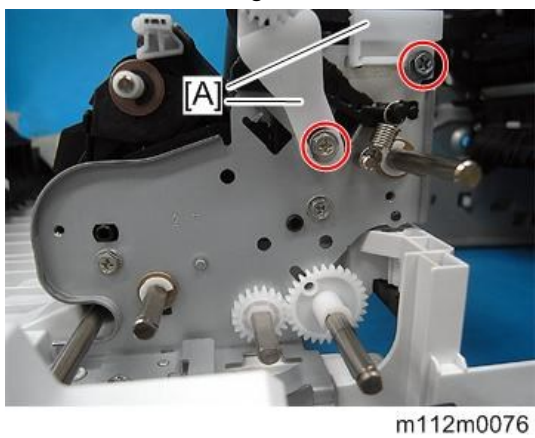


### Registration Roller (Drive)

- 1.** Remove the right and left gear covers. (Front Cover Unit)
- 2.** Remove the roller left slide rail [A] (🔩 ×1).

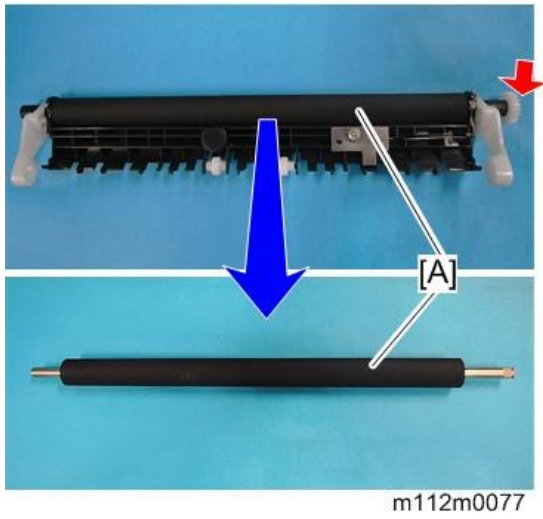


- 3.** Remove the roller right slide rail and bearing [A] (🔩 ×2).



## 4.Replacement and Adjustment

- 4.** Remove the registration roller (Drive) [A] (⌀×1).

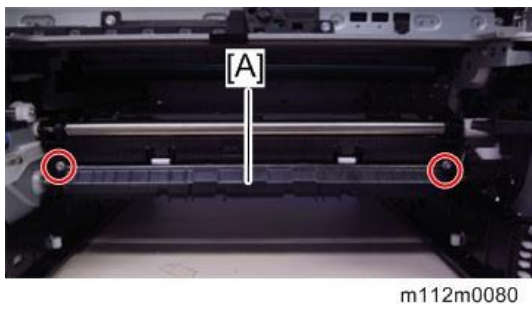


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### Registration Roller (Driven)

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- 1.** Remove the image transfer belt unit. ([Image Transfer Belt Unit](#))  
**2.** Remove the transport guide (front) [A] (⌀×2).



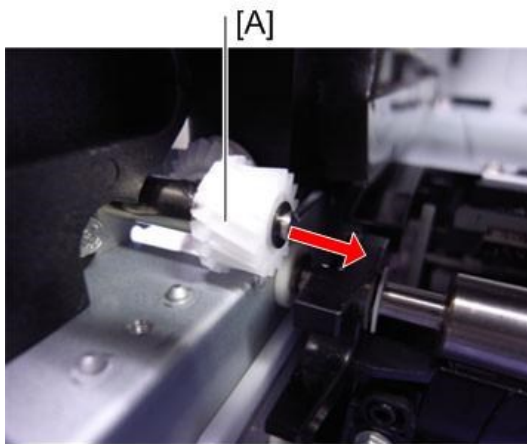
- 3.** Remove the E-ring (⌀×1).





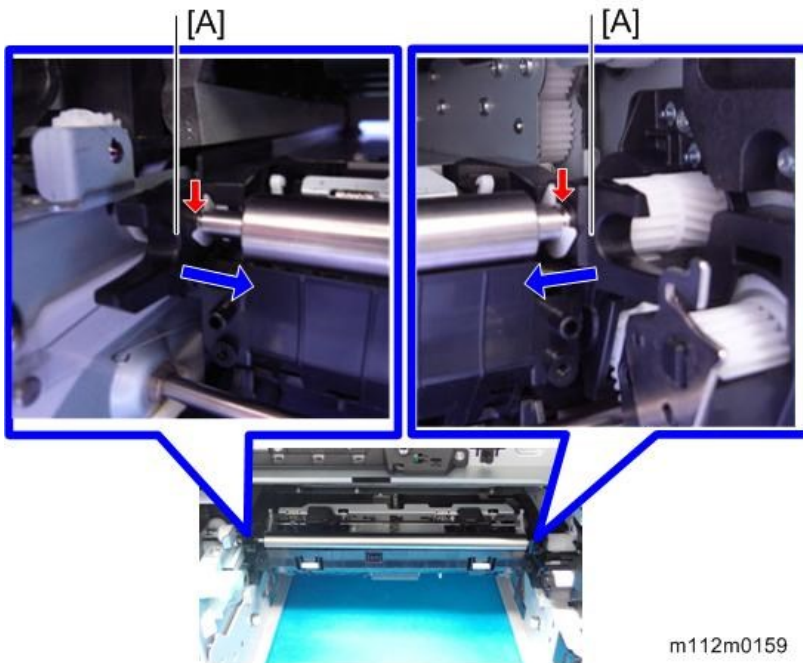
**Note**

- If it is difficult to remove the E-ring, remove the gear [A]. (Waste Toner Duct)



m1092198

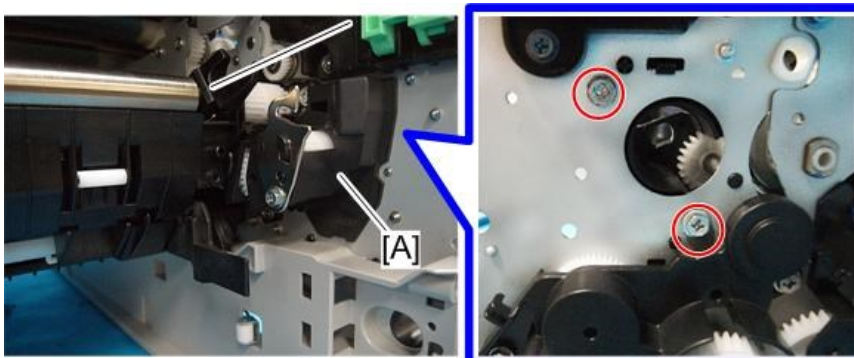
- 4.** Slide the registration position stopper inside (left/right) [A].



m112m0159

- 5.** Remove the gear cover (Registration Clutch)

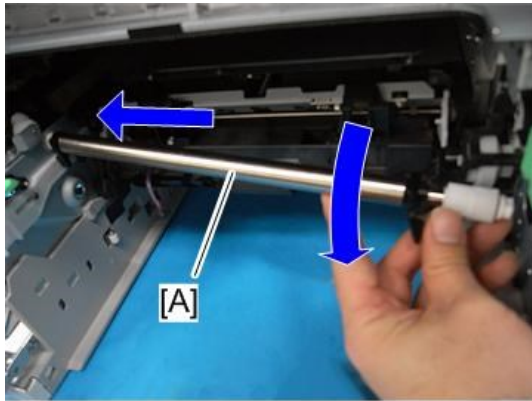
- 6.** Remove the gear bracket [A] (⊗ ×2).



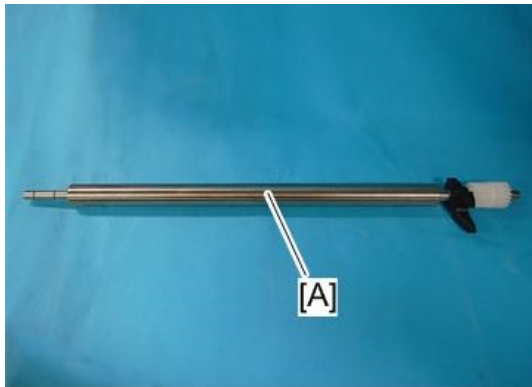
m112m0130

## 4.Replacement and Adjustment

7. Remove the registration roller (driven) [A].



m112m0131



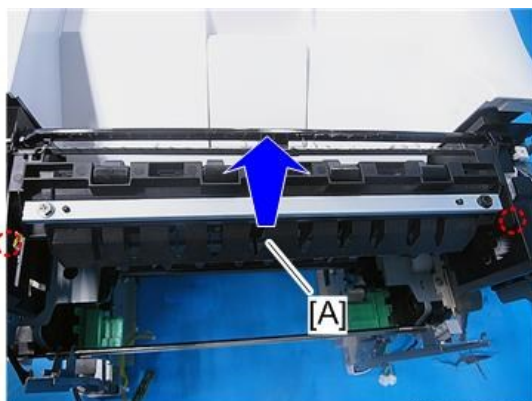
m112m0132

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## Paper Exit/Reverse Roller

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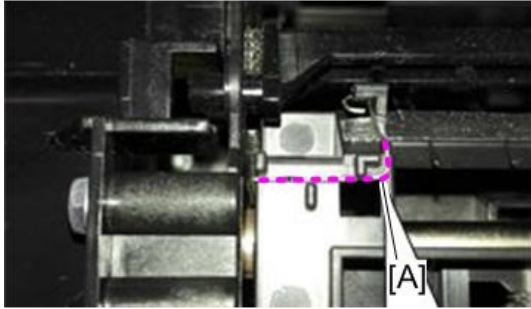
1. Remove the solenoid bracket. (Duplex Inverter Solenoid)
2. Remove the fusing fan bracket. (Fusing Fan Motor)
3. Remove the bracket [A].



m112m0081

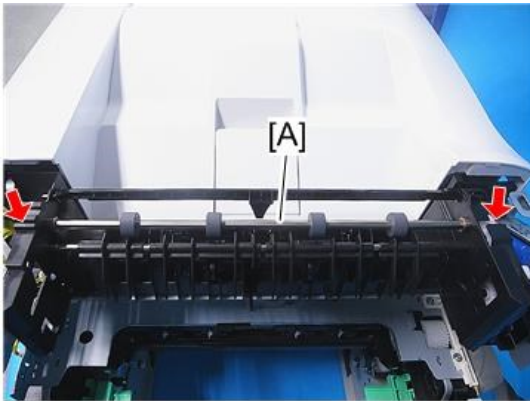
**Note**

Be careful not to lose or damage the ground wire when removing the bracket.



m0b0m1047

- 4.** Remove the paper exit/reverse roller [A] (⊗×2).



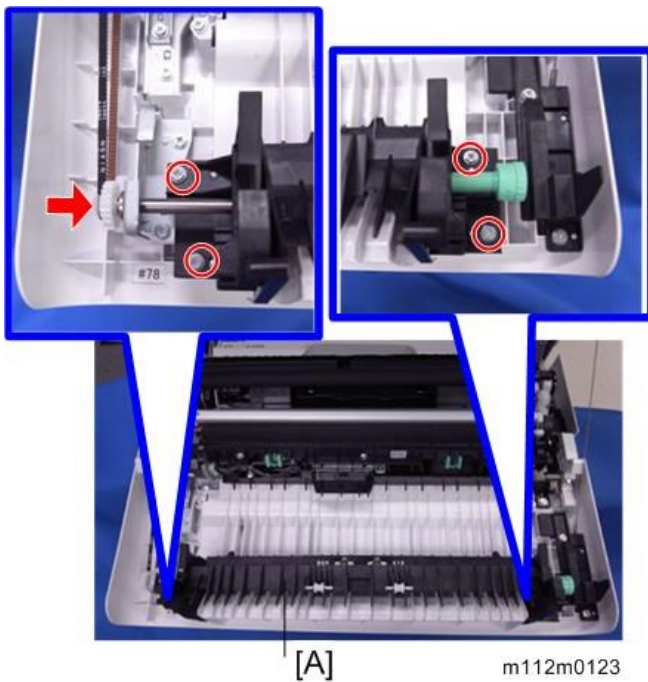
m112m0082

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### Duplex Entrance Roller

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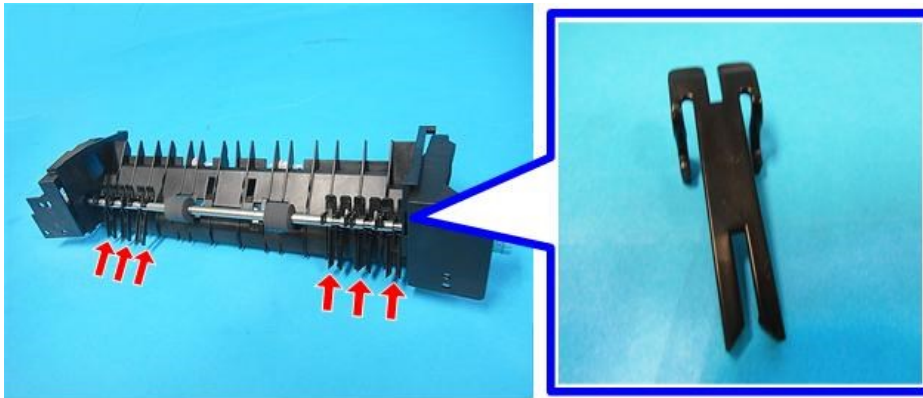
- 1.** Open the front cover.  
**2.** Remove the entrance roller unit [A] (⊗×4, ⊗×1).



m112m0123

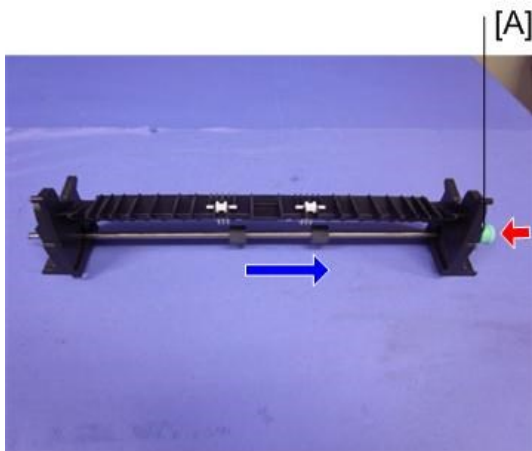
#### 4.Replacement and Adjustment

3. Remove the 6 guides.



m112m0154

4. Remove the duplex entrance roller [A] (⌀x1).



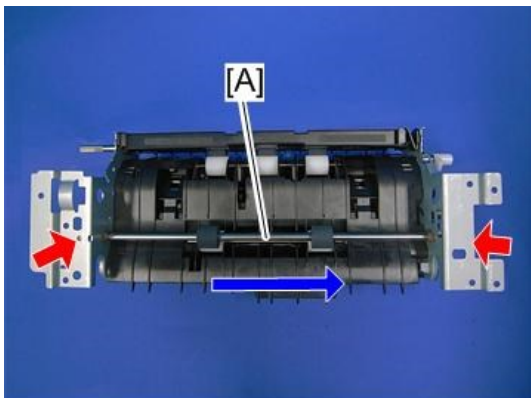
m1092042

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#### Duplex Intermediate Roller

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1. Remove the transport unit. (Front Cover Unit)
2. Remove the duplex intermediate roller [A] (⌀x2).



m112m0125

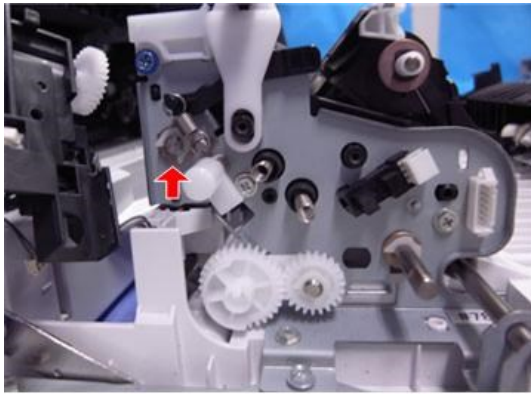
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#### Duplex Exit Roller

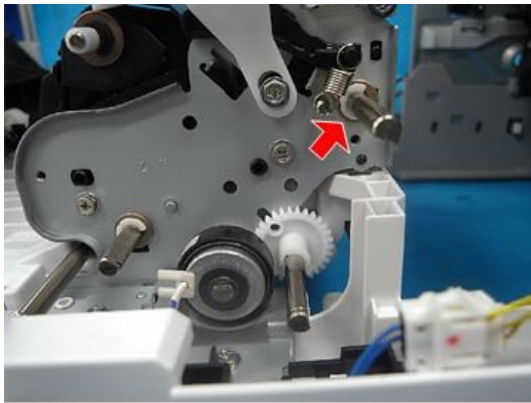
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1. Remove the gear unit. (Bypass Bottom Plate Clutch)

- 2.** Remove the snaps (⑧×2).



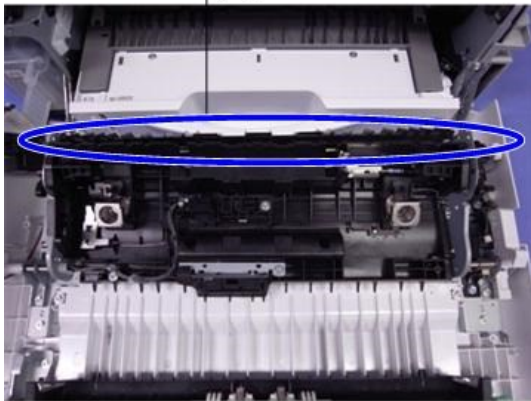
m1092053



m112m0126

- 3.** Remove the roller rear cover [A].

[A]

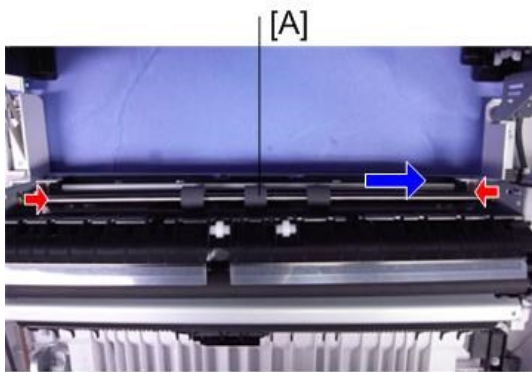


m1092070



#### 4.Replacement and Adjustment

- 4.** Remove the duplex exit roller [A] (⌀×2).



m1092082



## Waste Toner

### Waste Toner Bottle

1. Open the front cover.
2. Pull out the waste toner bottle [A].



[A]

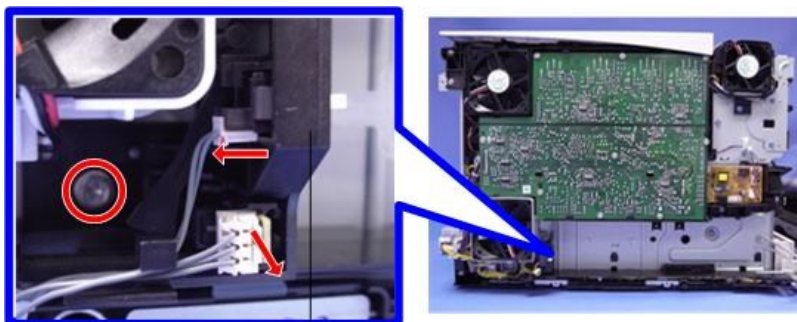
m1092019

#### Note

- Put a seal on the lid of the removed waste toner bottle.
- Be sure to attach the waste toner bottle with the left cover installed. If not, the waste toner bottle is not positioned accurately, which may cause the clogging of waste toner because the lid between the waste toner duct and the waste toner bottle may not open.

### Waste Toner Bottle Set Switch

1. Remove the left cover. (Left Cover)
2. Remove the waste toner sensor unit [A] (⊙ ×1, ⊞ ×2).

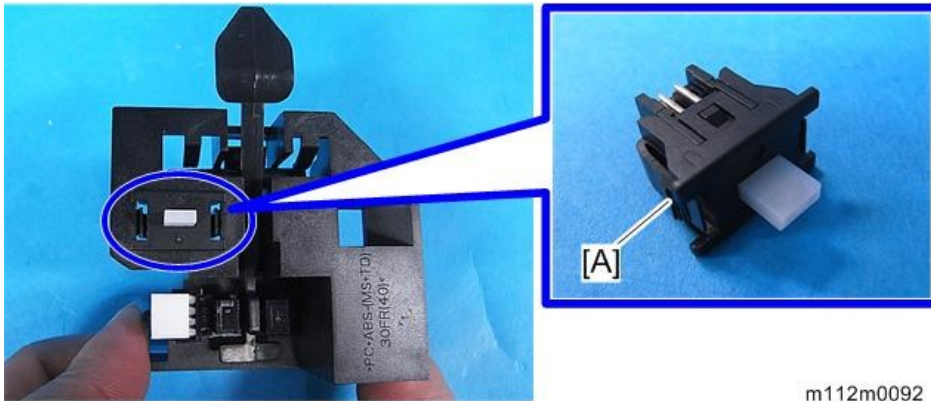


[A]

m1092020

## 4.Replacement and Adjustment

3. Remove the waste toner bottle set switch [A].

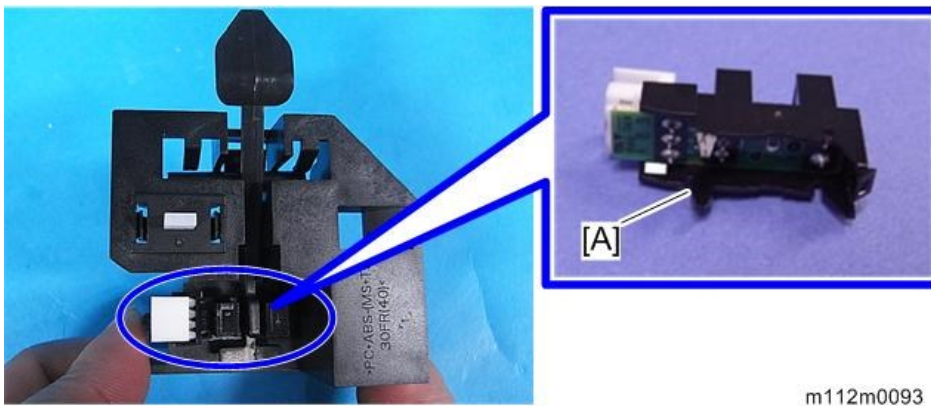


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## Waste Toner Bottle Full Sensor

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1. Remove the waste toner sensor unit. (Waste Toner Bottle Set Switch)
2. Remove the waste toner bottle full sensor [A].

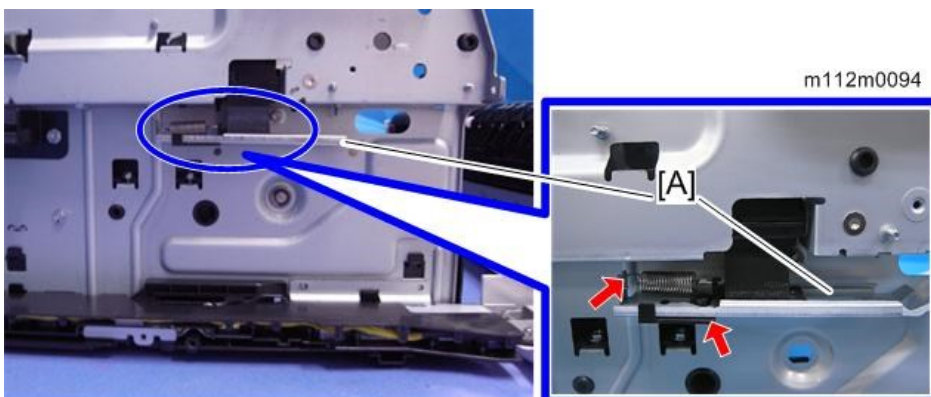


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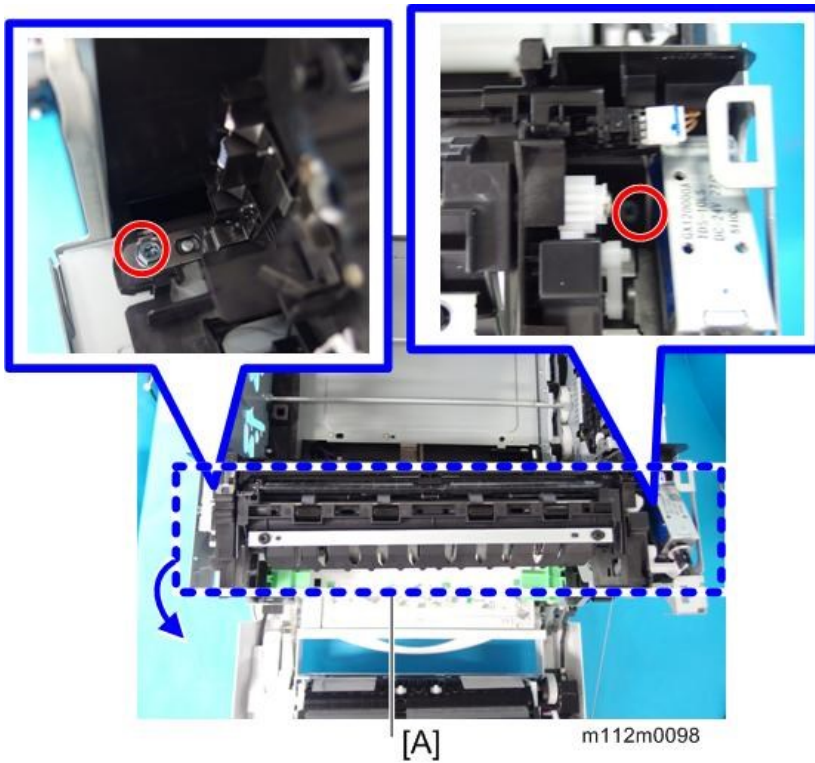
## Waste Toner Duct

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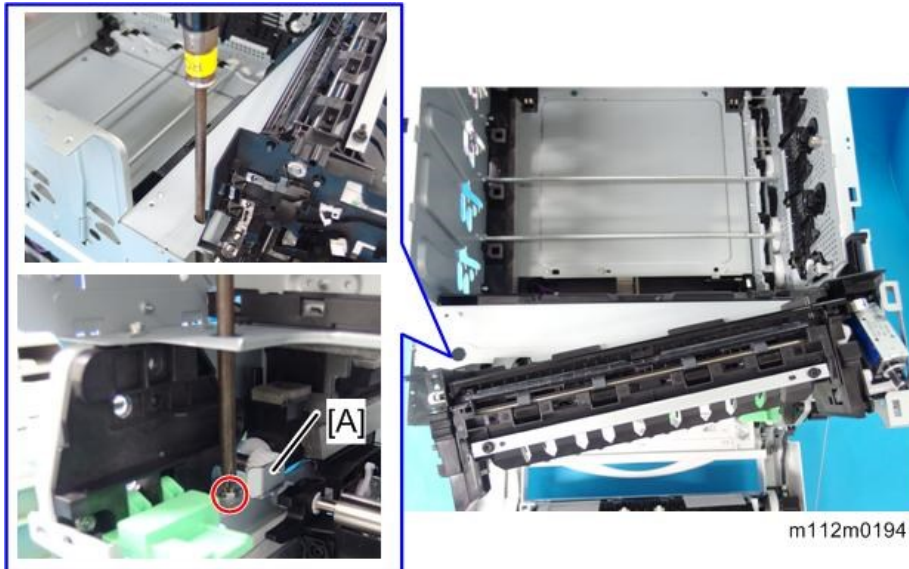
1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
2. Remove the PCDUs. (PCDU)
3. Remove the left inner cover. (PCDU Sensor Board)
4. Remove the waste toner cover [A] (Spring ×1, Stopper ×1).



- 5.** Remove the right cover. (Right Cover)
- 6.** Remove the fusing fan motor. (Fusing Fan Motor)
- 7.** Move the paper exit/reverse roller unit [A] (⊙×2).

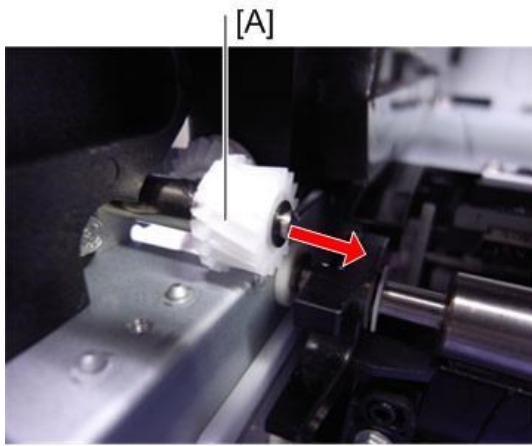


- 8.** Insert a screwdriver through the hole, and then remove the gear plate [A] (⊙×1).



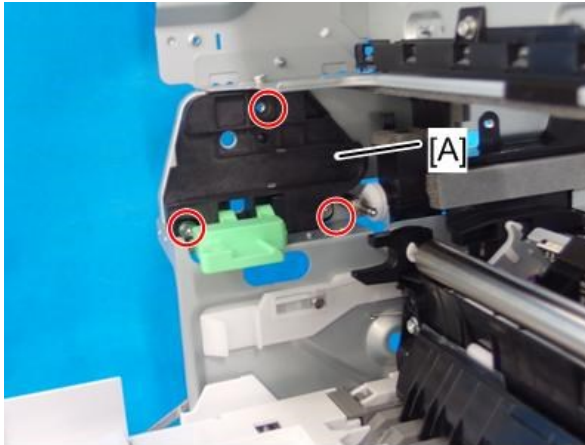
#### 4.Replacement and Adjustment

**9.** Remove the gear [A].



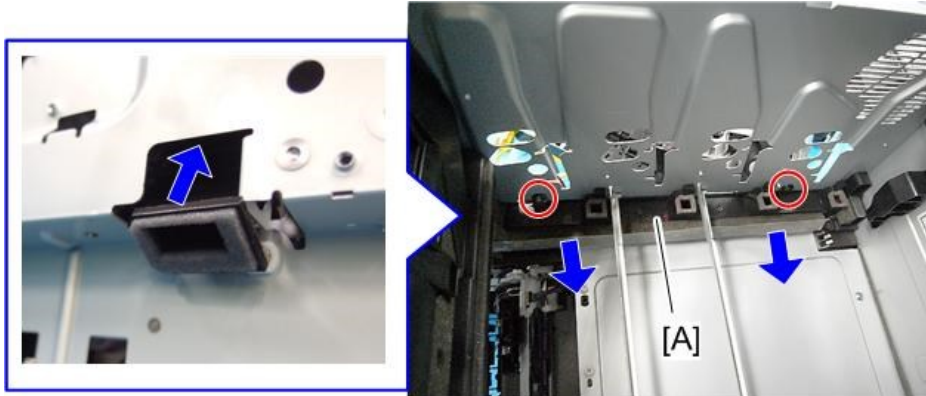
m1092198

**10.** Remove the fixing plate for the image transfer belt unit [A] on the left side (⚙️×3).



m112m0195

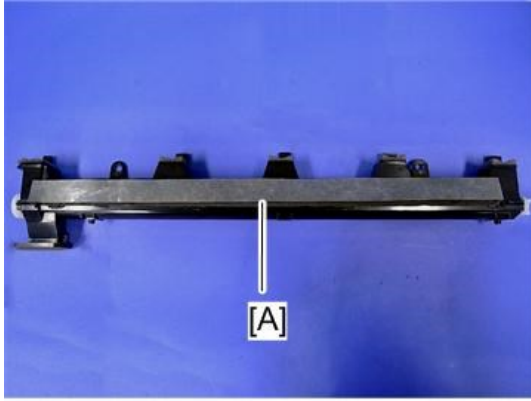
**11.** Remove the waste toner duct [A] (⚙️×2).



m112m0096



#### 4.Replacement and Adjustment



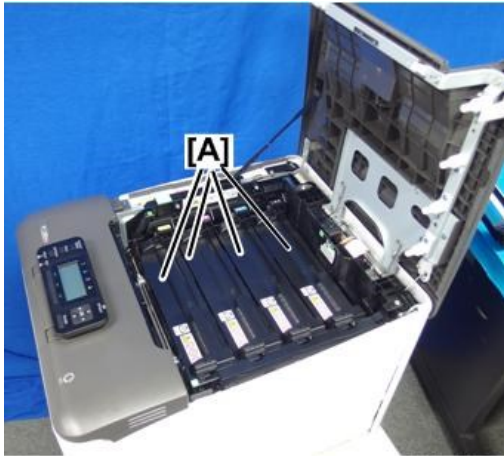
m112m0097

## Electrical Components

### ID Chip Relay Board

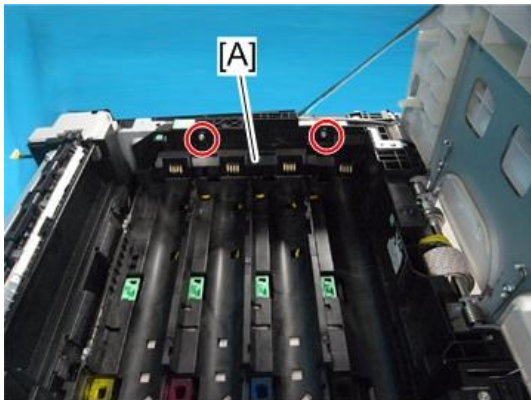
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1. Open the upper cover.
2. Remove the toner cartridges [A].



m0b0m1054

3. Remove the ID chip relay board cover [A] (⊙×2).



m112m0105

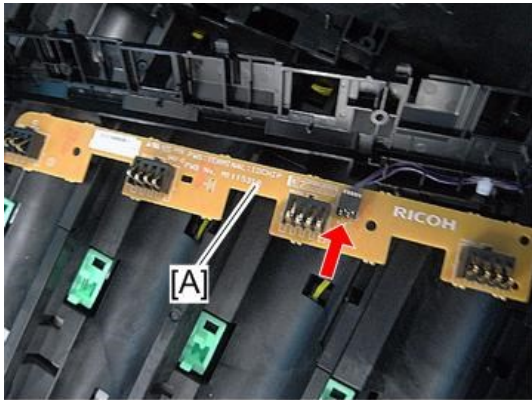
4. Remove the screws (⊙×3).



m112m0106



- 5.** Remove the ID chip relay board [A] (🔧 ×1).



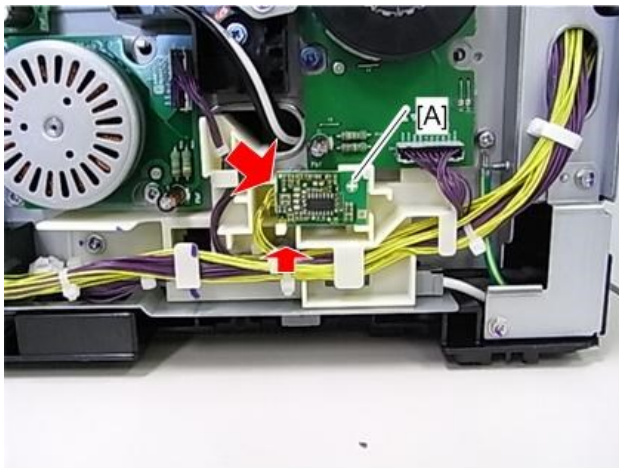
m112m0107

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### Temperature & Humidity Sensor

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- 1.** Remove the right cover. (Right Cover)  
**2.** Remove the temperature & humidity sensor [A] (🔧 ×1, hook ×1).



M1099037a.jpg

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### Engine Board

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#### Printer Model

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- 1.** Remove the rear cover. (Right Cover)

## 4.Replacement and Adjustment

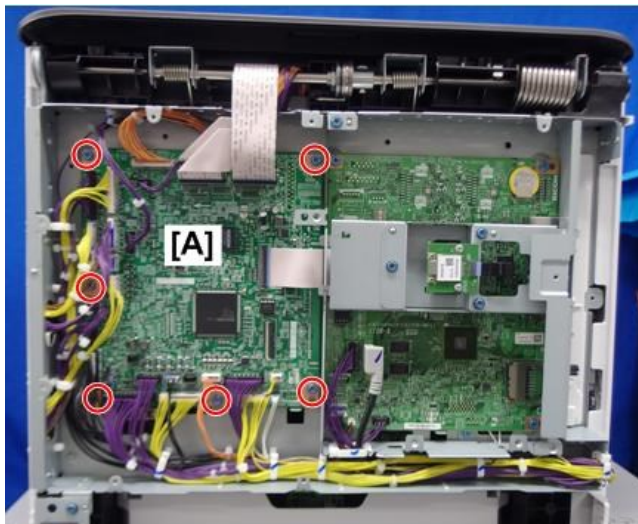
2. Remove the controller box cover.



🔑 x8

m0b0m1059

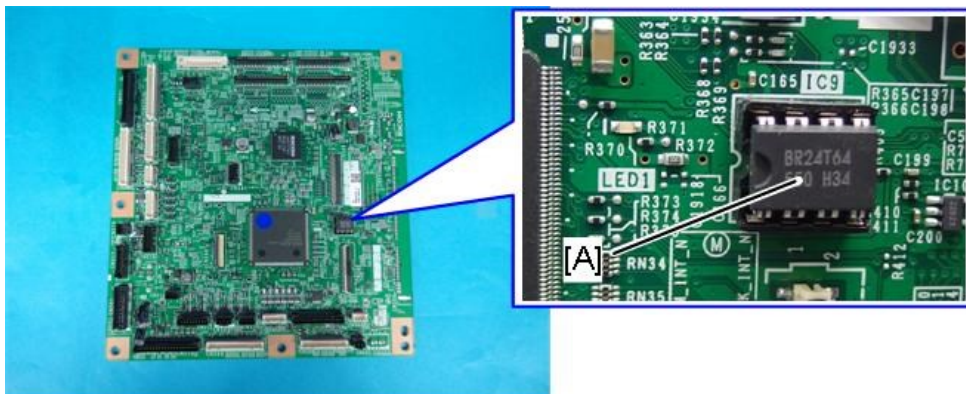
3. Remove the engine board [A].



🔑 x6, 📦 x22, 📄 x5

m0b0m1060

4. Remove the EEPROM [A].

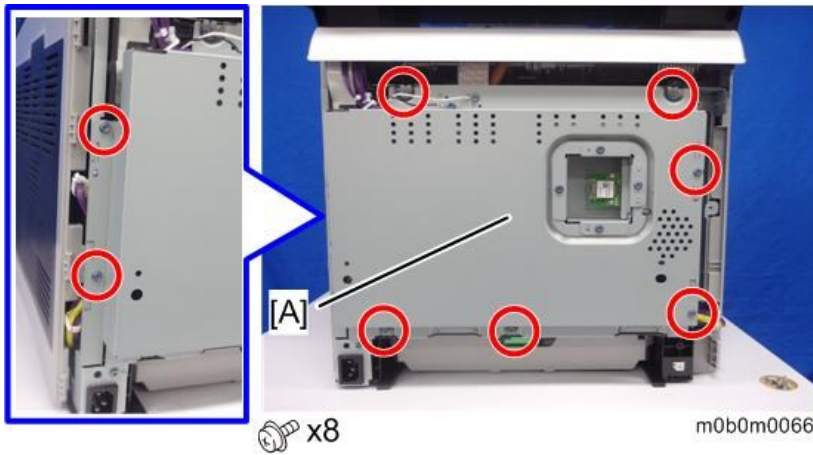


m0b0m0321

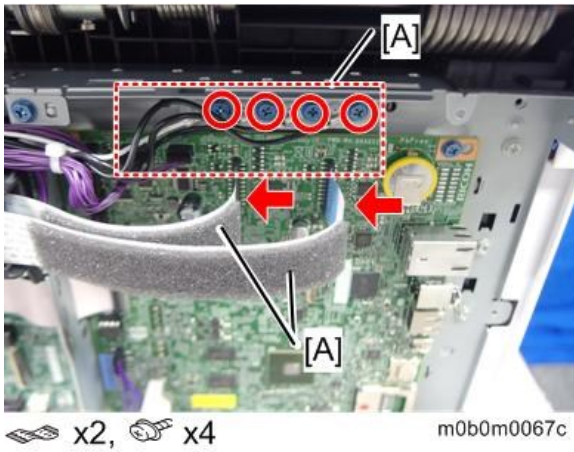
## MF Models

1. Remove the rear cover. (MF Models)

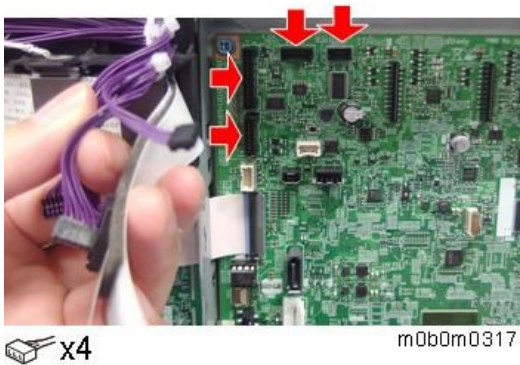
- 2.** Remove the controller box cover [A].



- 3.** Disconnect the 2 FFCs [A] and 4 ground wires [B] on the controller board.



- 4.** Disconnect the four harnesses on the controller board.





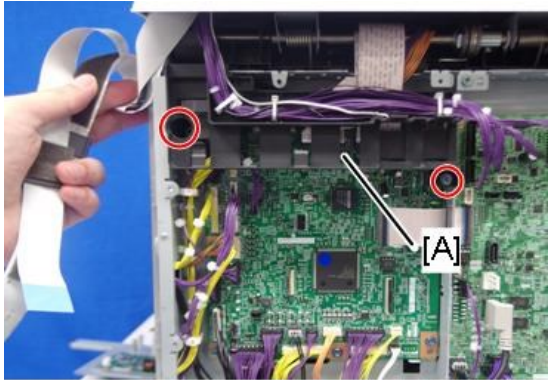
#### 4.Replacement and Adjustment

- 5.** Release the FFCs from the harness guide.



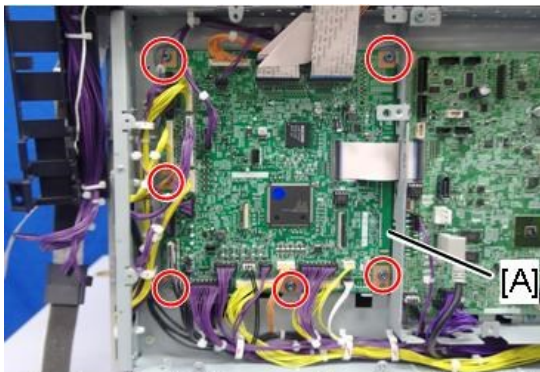
m0b0m0318




- 6.** Remove the harness guide [A].



m 0b0m0319

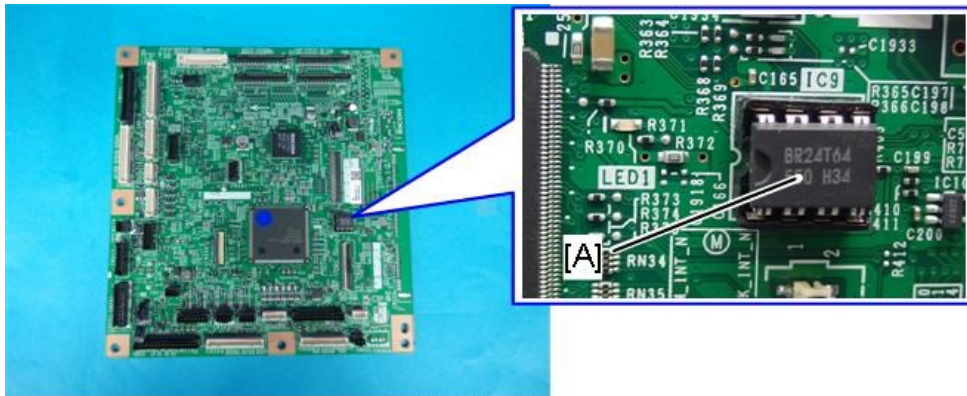
- 7.** Remove the engine board [A].



 x6,  x all,  x3

m 0b0m0320

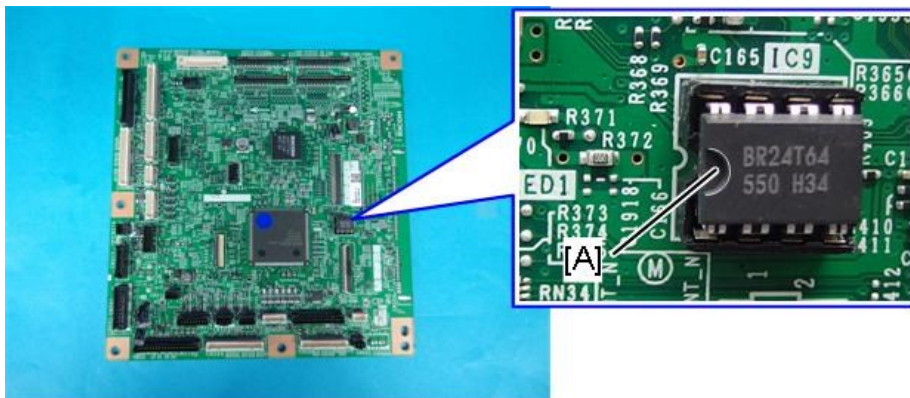
**8.** Remove the EEPROM [A].



m0b0m0321

When Installing the New Engine Board

- 1.** Remove the EEPROM from the old engine board.
- 2.** Install the removed EEPROM on the new engine board, with the mark [A] pointing to the left side of the board.



m0b0m0321a

- 3.** Replace the EEPROM if the EEPROM on the old engine board is defective.

**⚠ CAUTION**

- Keep the EEPROM away from objects that can cause static electricity. Static electricity can damage EEPROM data.
- Make sure that the EEPROM is correctly installed on the engine board.

Controller Board

Printer Model

**★ Important**

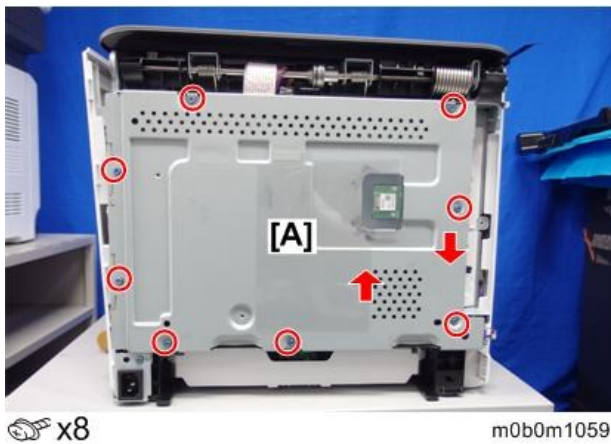
The memory device on the controller board stores the data listed below. When replacing the controller board, be sure to move to the new controller board the data that can be moved.

Where to store	Data	Data migration	How to move
eMMC	Server certificate	Cannot be	-

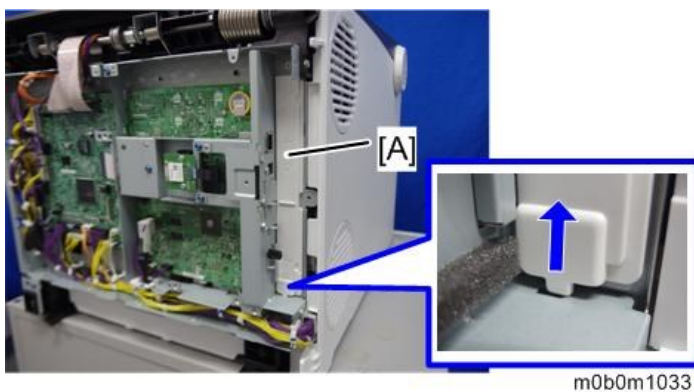
#### 4.Replacement and Adjustment

Where to store	Data	Data migration	How to move
	SSL public certificate Data for customizing the message in the authentication/charging control window	moved	
NVRAM	SP/UP data Counter Data	OK	Transfer the NVRAM of the old controller board to the new controller board.

- 1.** Remove the rear cover. ([Printer Model](#))
- 2.** Remove the controller box cover.

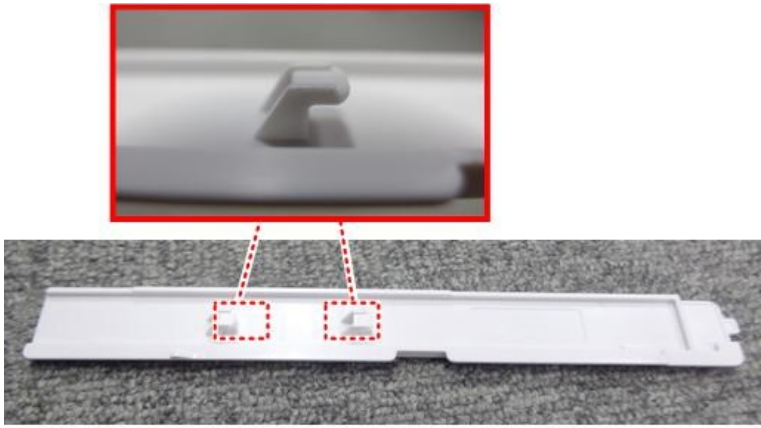


- 3.** Remove the SD card/LAN guide [A].



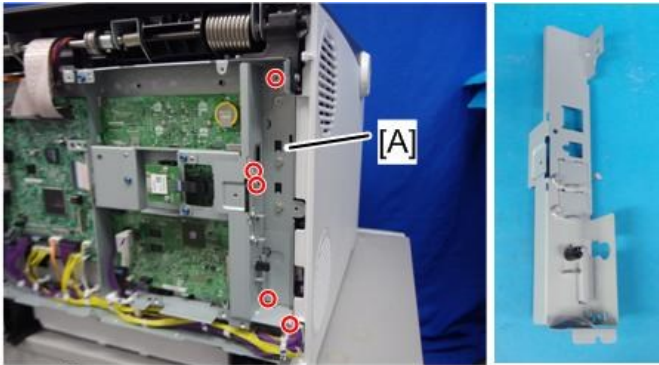
There are two hooks on the SD card/LAN guide [A].





m0b0m0311b

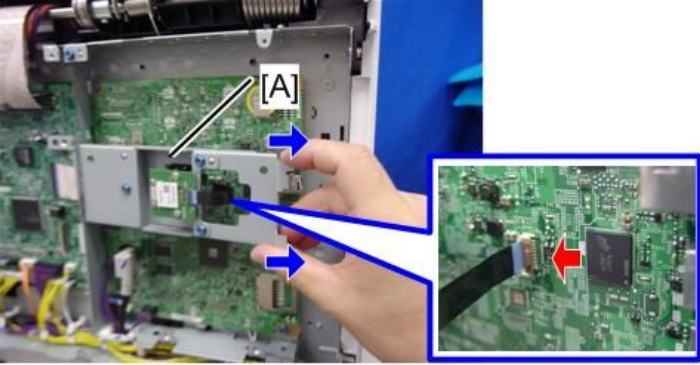
4. Remove the “L-shaped” bracket [A].



x5

m0b0m1034

5. Remove the Wireless LAN board with bracket [A].

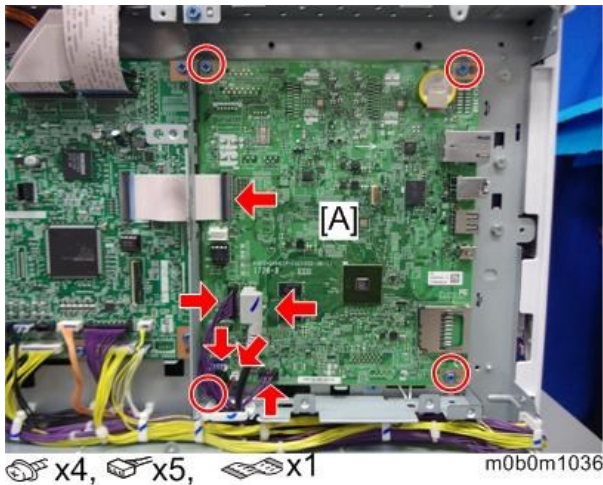


x1

m0b0m1035

#### 4.Replacement and Adjustment

#### 6. Remove the controller board [A].



#### When installing the new controller board

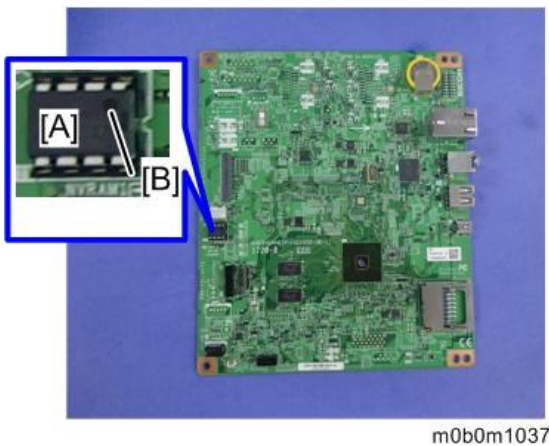
Remove the NVRAM [A] from the old controller board, and install it on the new board.

#### ★ Important

- Keep the NVRAM away from objects that can cause static electricity. Static electricity can damage NVRAM data.

#### ↓ Note

- Install the NVRAM so that the mark [B] on the NVRAM is on the right side when the controller board is installed.



#### MF Models

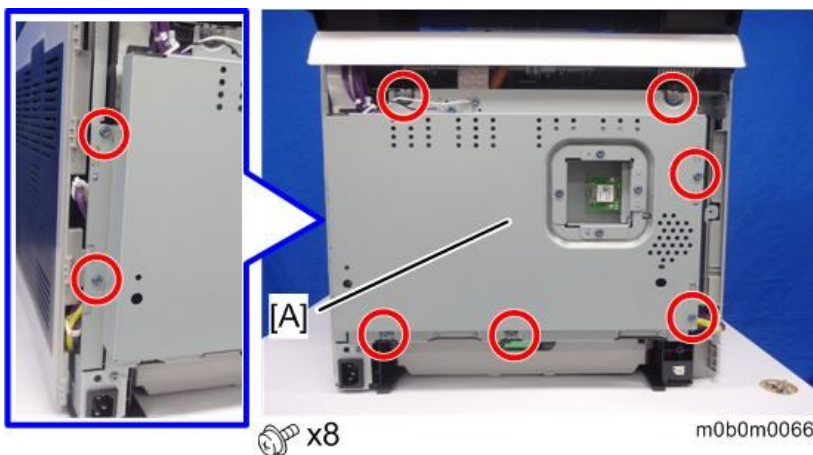
#### ★ Important

The memory device on the controller board stores the data listed below. When replacing the controller board, be sure to move to the new controller board the data that can be moved.

Where to store	Data	Data migration	How to migrate
eMMC	Server certificate	Cannot	-

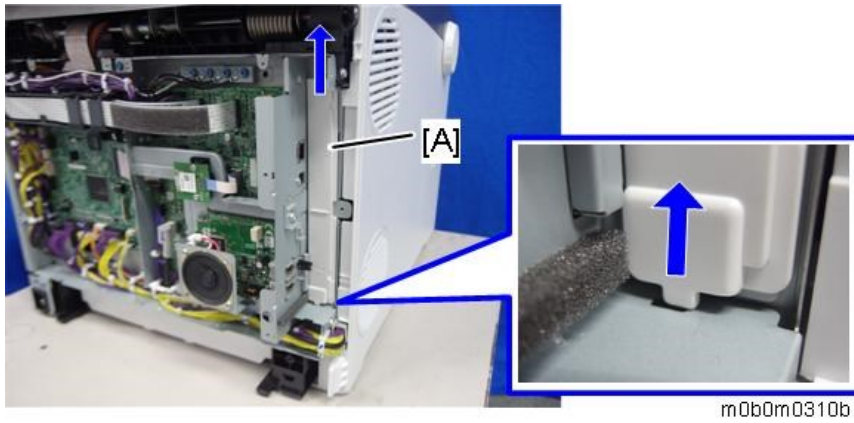
Where to store	Data	Data migration	How to migrate
	SSL public certificate Data for customizing the message in the authentication/charging control window	be moved	
	Address book	OK	Only if the Address Book has been downloaded by the end user with WIM. For details, see <a href="#">Address Book Upload/Download (Only for MF Models)</a>
Micro SD card (Only for SP C361SFNw)	Browser setting value Storage for SDK	OK	Transfer the NVRAM of the old controller board to the new controller board.
NVRAM	SP/UP data Counter Data	OK	Transfer the NVRAM of the old controller board to the new controller board.

- 1.** Ask the customer to download the local address book data via WIM.([Address Book Upload/Download \(Only for MF Models\)](#))
- 2.** Check the SAF memory and if there are fax documents left, send and print all documents stored in the SAF memory.
  - If the data is moved to the new controller board with user documents left in the SAF memory, the power failure report will not be printed (though the transmission history is kept).
- 3.** Remove the rear cover. ([MF Models](#))
- 4.** Remove the controller box cover [A].

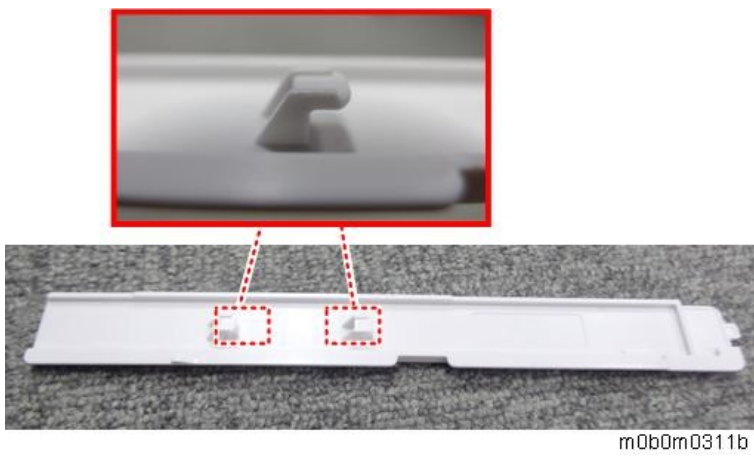


#### 4.Replacement and Adjustment

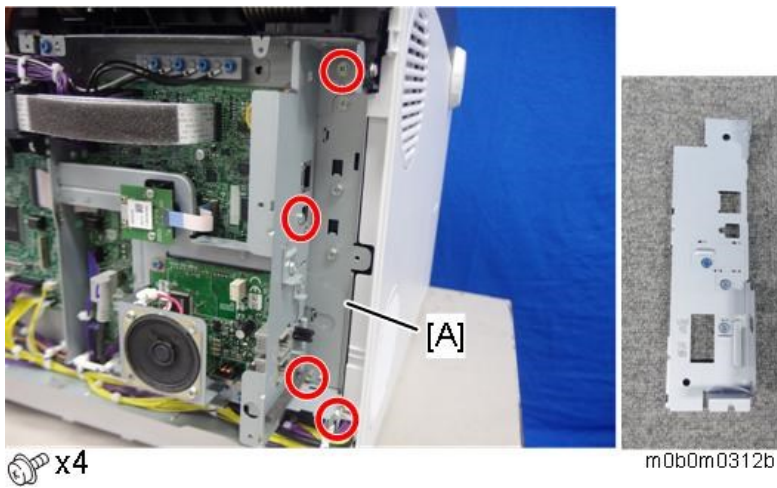
##### 5. Remove the SD card/LAN guide [A].



There are two hooks on the SD card/LAN guide.

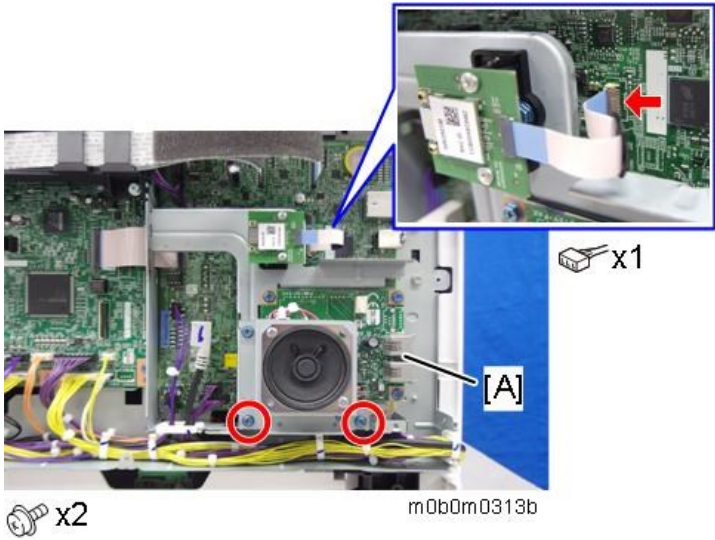


##### 6. Remove the “L-shaped” bracket [A].

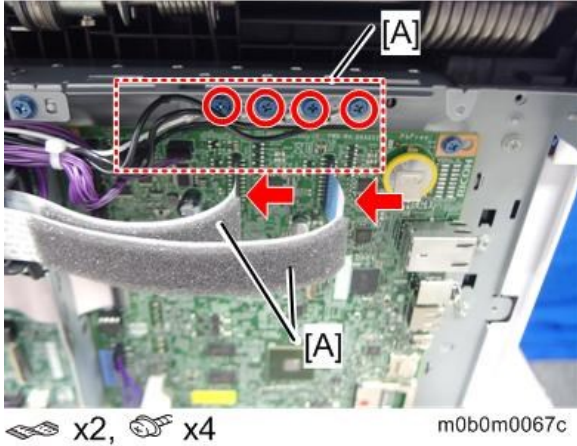




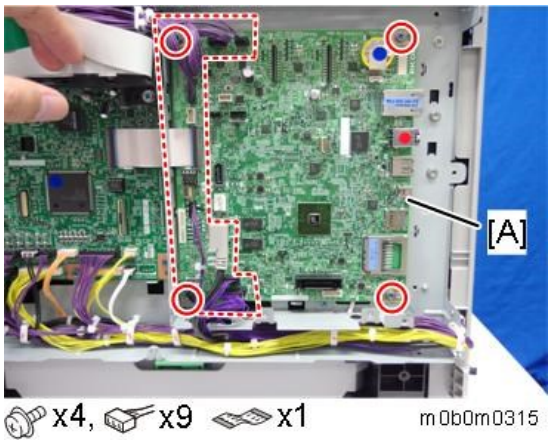
7. Remove the fax board bracket [A].



8. Disconnect the two FFCs.



9. Remove the controller board [A].



**When installing the new controller board**

Remove the NVRAM [A] from the old controller board, and install it on the new board.

## 4.Replacement and Adjustment

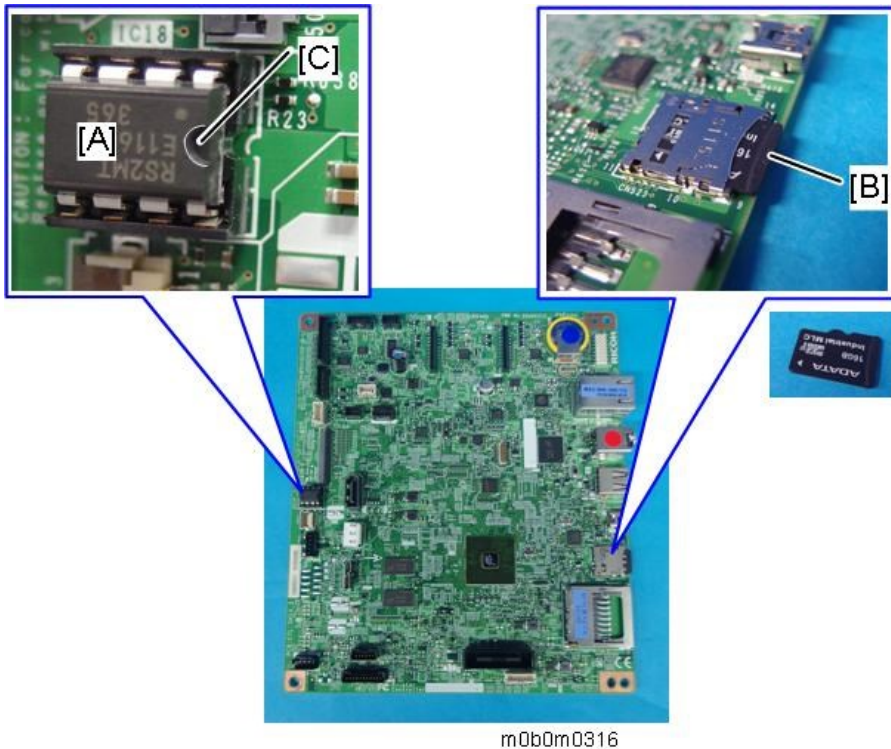
In SP C361SFNw, remove the micro SD card [B] from the old controller board, and install it on the new board.

### ★ Important

- Keep the NVRAM away from objects that can cause static electricity. Static electricity can damage NVRAM data.

### ↓ Note

- Install the NVRAM so that the mark [C] on the NVRAM is on the right side when the controller board is installed.



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## PSU

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### ⚠ CAUTION

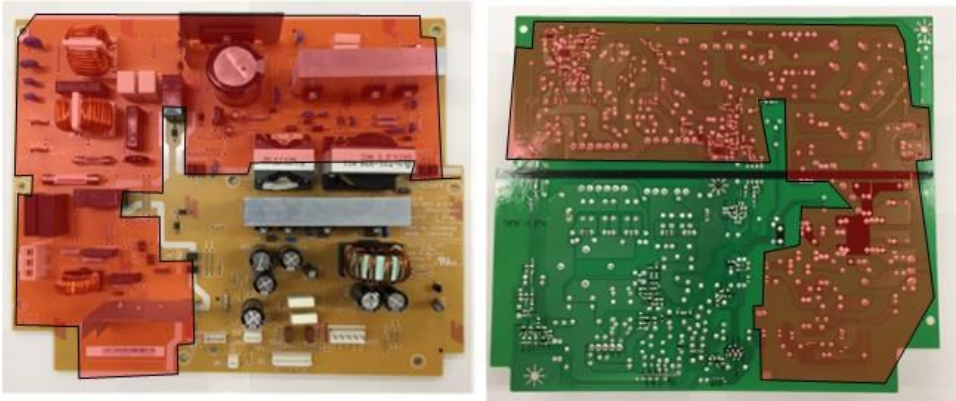
- **NEVER touch** the areas outlined in red in the photos below. This is to prevent electric shock caused by residual charge.
- A residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months, even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.
- The procedure to discharge residual charge from the machine by unplugging the power cord from the AC wall outlet and pressing the main power switch works only for the DC circuits on this board. Residual charge remains in the AC circuits.

[A]: 100V

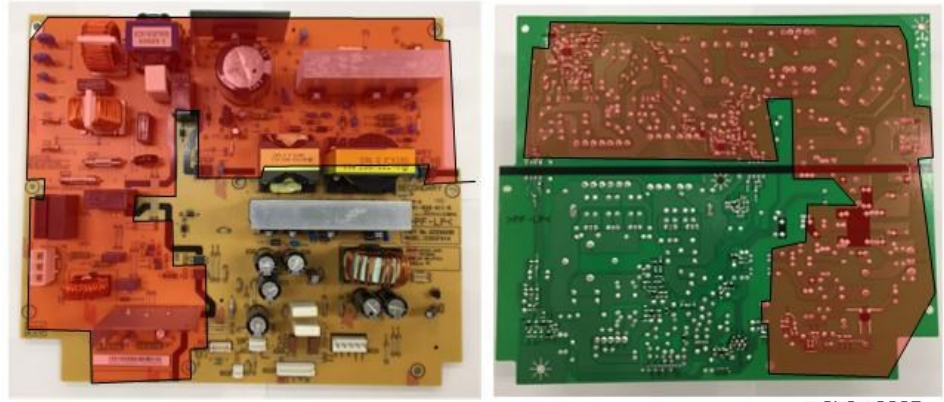
[B]: 200V



[A]

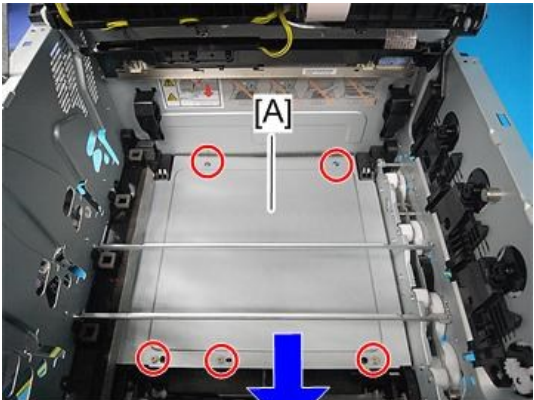


[B]



m0b0m0337

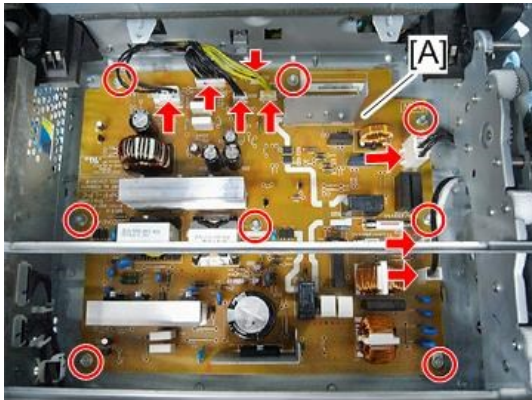
- 1. Remove the image transfer belt unit. (Image Transfer Belt Unit)
- 2. Remove the PCDUs. (PCDU)
- 3. Remove the bracket [A] (🔧 ×5).



m112m0087

## 4.Replacement and Adjustment

- 4.** Remove the PSU [A] (⚙️×8, 📦×All).



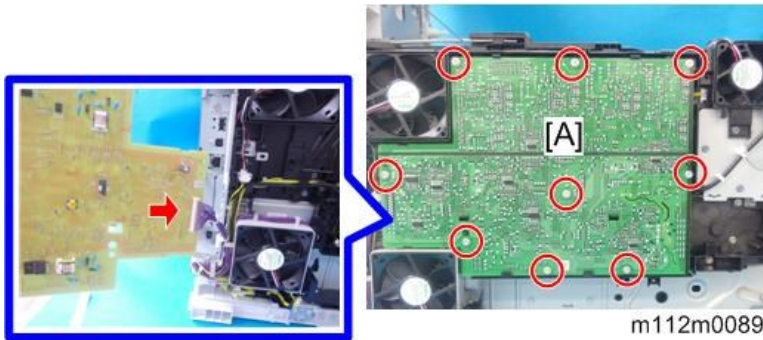
m112m0088

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## High Voltage Power Supply Board

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- 1.** Remove the left cover. (Left Cover)
- 2.** Remove the high voltage power supply board [A] (⚙️×9, 📦×1).



m112m0089

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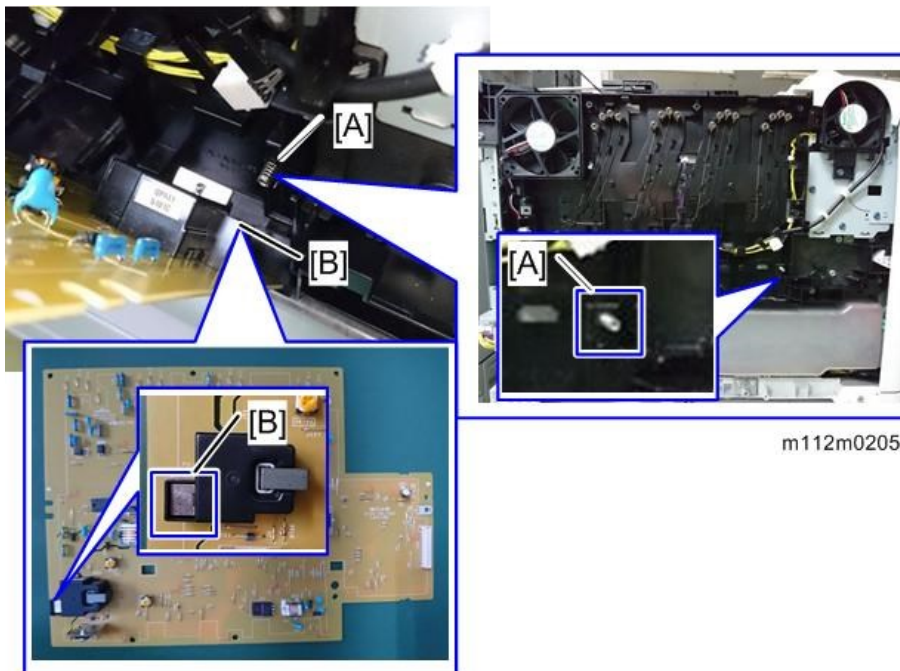
## When Installing the New High Voltage Power Supply Board

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Take the following into account when installing the high voltage power supply board.

- 1.** Install the board so that the transfer pressure spring [A] firmly contacts the secondary transfer

output terminal [B], making sure that the spring does not buckle.



2. In B/W mode, print out a test pattern on two sheets of A4 paper consecutively. Then, make sure that there are no abnormalities in the image.

#### Test pattern printing SPs

- SP5-903-001 1: Tray 1
- SP5-903-002 0: Single
- SP5-903-003 1: A4 SEF
- SP5-903-004 0: BK
- SP5-903-005 11: 2 by 2
- SP5-903-006 0: Plain Paper
- SP5-903-007 2: 2 pages
- SP5-903-008 0: Normal
- SP5-903-009: Execute

#### Note

- For image output, use Engine SP mode and test pattern 2 by 2.
- If the secondary transfer pressure spring has buckled, a horizontal black stripe may be printed on the second sheet.

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#### PCDU Sensor Board

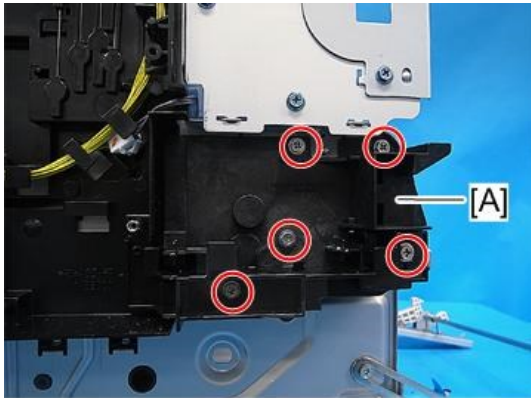
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1. Remove the high voltage power supply board. ([High Voltage Power Supply Board](#))
2. Remove the fusing fan holder. ([Fusing Fan Motor](#))



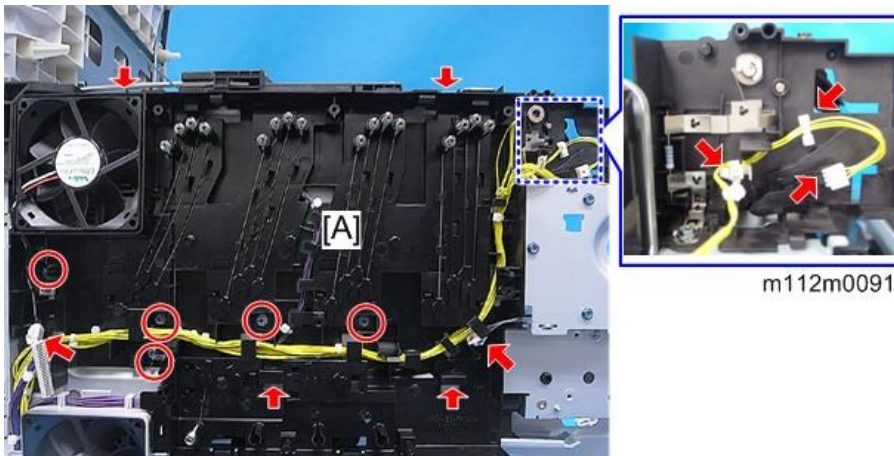
## 4.Replacement and Adjustment

- 3.** Remove the holder [A] (⌀ ×5).



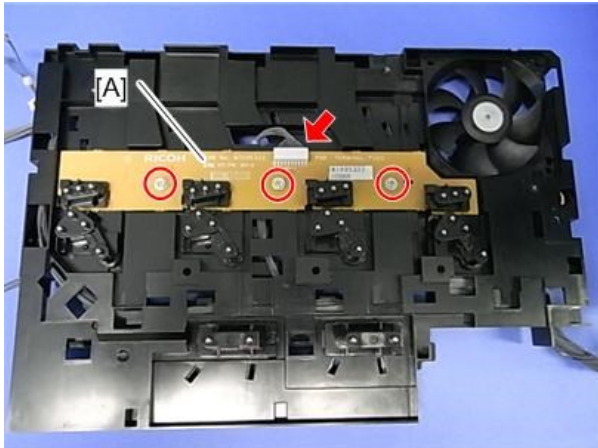
m112m0090

- 4.** Remove the left inner cover [A] (⌀ × 5, ⓧ ×3, ⓧ ×2, hook ×4).



m112m0091

- 5.** Remove the PCDU sensor board [A] (⌀ × 3, ⓧ ×1).



m1099026.jpg

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## TM (ID) Sensor

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### Before TM (ID) Sensor Replacement

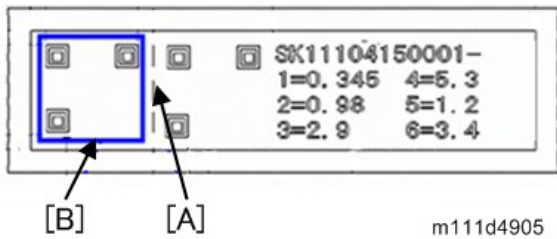
---

On the TM (ID) sensor head, there is a barcode label which shows the characteristics of the TM (ID) sensor. Before replacement, you must input these values into SP mode.

**Note**

- Before replacement, it is recommended that you output SMC all print in case process control/Music cannot complete correctly after replacement.

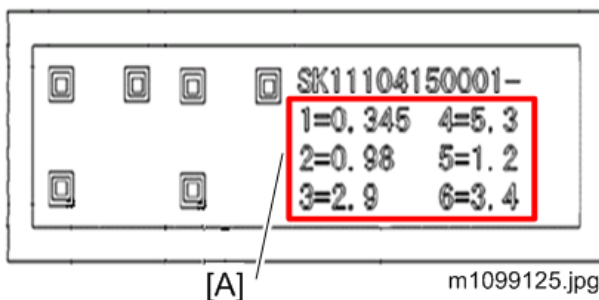
**1.** Tear off the characteristic value data label supplied with the TM (ID) sensor along perforation [A]. (Leave the QR code [B] on the sensor.)



**Note**

- Viewed from the front of the machine, the sensor on the left is the TM (ID) sensor: R, and the sensor on the right is the TM (ID) sensor: L. Be careful about this during the following procedure.

**Barcode label values**



[A]: Characteristic Value

**2.** Turn the machine switch ON and enter the SP mode.

**3.** Then input the characteristic values in SP mode as follows.

Input the values for TM sensor: R in SP3-333 and the values for TM sensor: L in SP3-334 as follows:

#### 4.Replacement and Adjustment

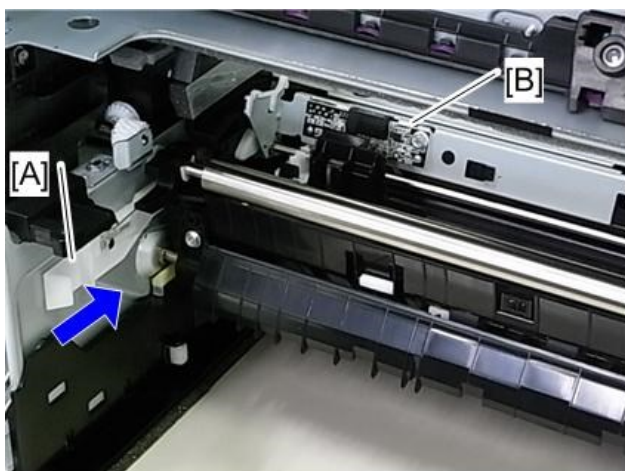
SP No.	Value
3-333-001	Value "1" written on the R sensor label (the sensor on the observer's left)
3-333-002	Value "2" written on the R sensor label (the sensor on the observer's left)
3-333-003	Value "3" written on the R sensor label (the sensor on the observer's left)
3-333-004	Value "4" written on the R sensor label (the sensor on the observer's left)
3-333-005	Value "5" written on the R sensor label (the sensor on the observer's left)
3-333-006	Value "6" written on the R sensor label (the sensor on the observer's left)
3-334-001	Value "1" written on the L sensor label (the sensor on the observer's right)
3-334-002	Value "2" written on the L sensor label (the sensor on the observer's right)
3-334-003	Value "3" written on the L sensor label (the sensor on the observer's right)
3-334-004	Value "4" written on the L sensor label (the sensor on the observer's right)
3-334-005	Value "5" written on the L sensor label (the sensor on the observer's right)
3-334-006	Value "6" written on the L sensor label (the sensor on the observer's right)

**4.** Initialize the values of the sensitivity correction coefficient of the TM sensor.

SP No.	Default Value
3-330-001	0
3-330-002	0
3-330-003	0
3-330-011	1.2
3-330-012	1.2
3-330-013	1.2

#### Replacement

1. Remove the image transfer belt unit. ([Image Transfer Belt Unit](#))
2. Push the lever [A] to bring up the TM sensor [B].



m1099160.jpg

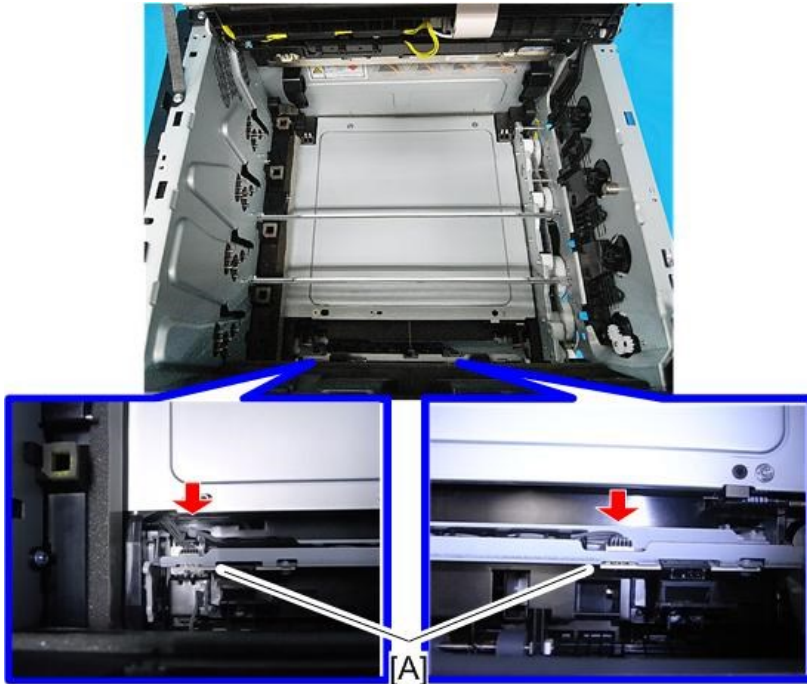


- 3.** Remove the screws (🔩 x4).



m1099113.jpg

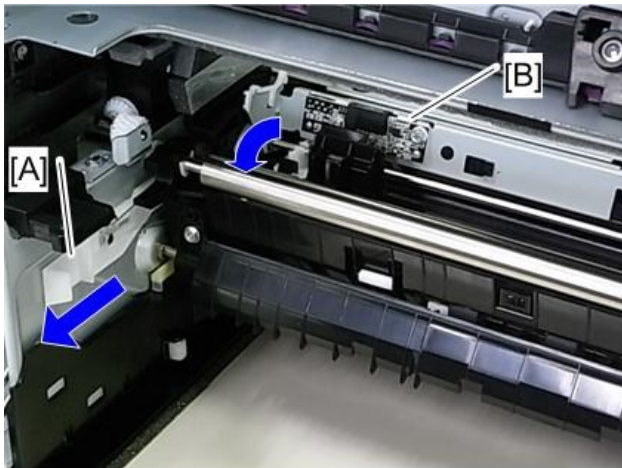
- 4.** Remove the TM (ID) sensor [A] (📦 x2).



m112m0101

#### 4.Replacement and Adjustment

- 5.** Pull the lever [A] to bring down the TM (ID) sensor [B].



m1099161.jpg

#### Adjustment after the TM (ID) Sensor Replacement

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Turn the main switch ON and then enter the SP mode.

Execute SP3-011-004 (Adjustment manual exe. Full Music / process control)

#### **Note**

- If there is something wrong with the image after SP execution, make sure that input values are registered in the correct SPs. If values were input in the wrong SPs, refer to the SMC list which you output before replacement and return those SPs to their previous values, then enter the correct values in the correct SPs.

#### USB Board (Only for Printer Model)

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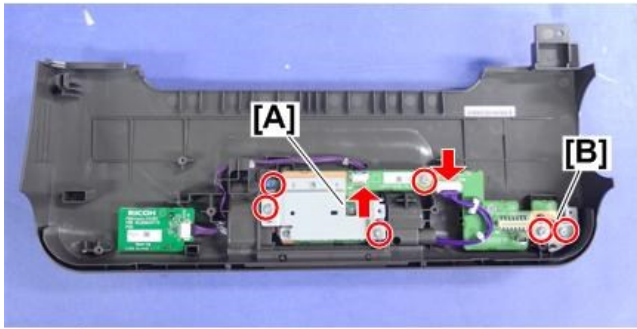
- 1.** Remove the paper exit cover. ([Printer Model](#))
- 2.** Remove the black cover [A].



x6

m0b0m1018

- 3.** Remove the USB board unit [A] and the bracket [B].



 x6,  x2

- 4.** Remove the bracket [A] from the USB board [B].

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## Operation Panel

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Printer Model (Operation Panel, Relay Board, NFC Board)

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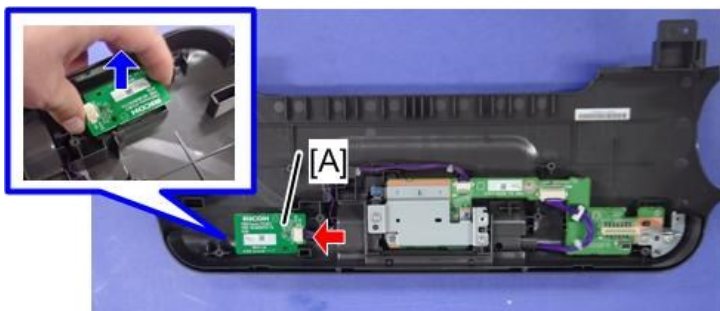
- 1.** Remove the paper exit cover. ([Printer Model](#))  
**2.** Turn over the paper exit cover, and remove the black cover [A].



 x6

m0b0m1018

- 3.** Remove the NFC board.

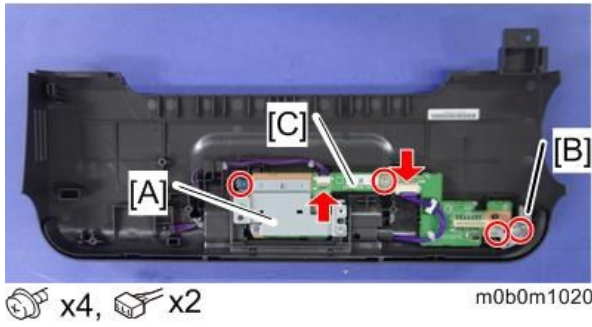


 x1

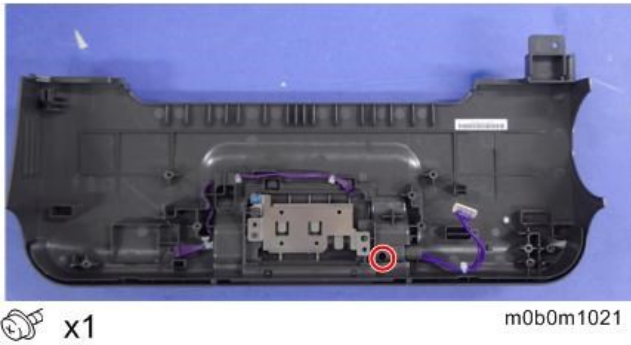
m0b0m1019

#### 4.Replacement and Adjustment

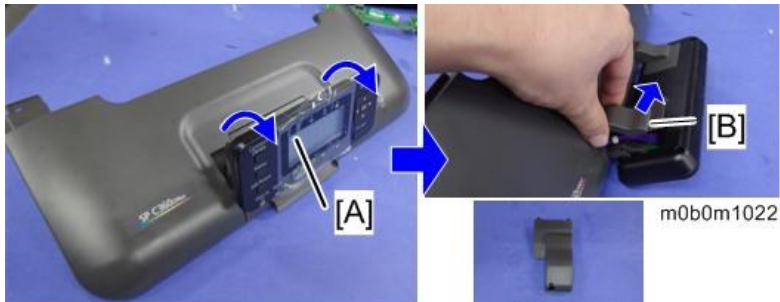
- 4.** Remove the 2 brackets [A], [B], and the relay board [C].



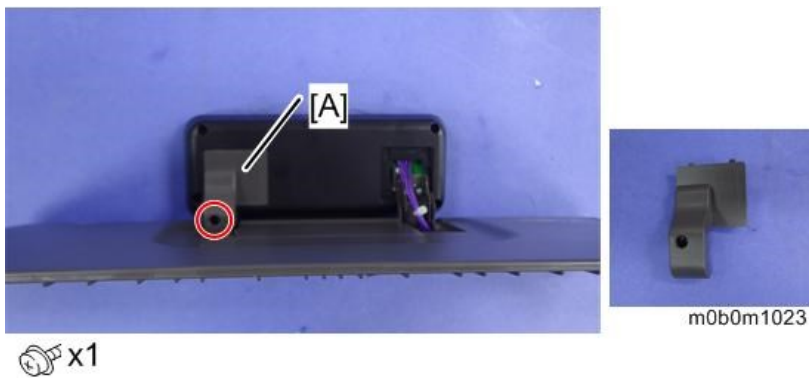
- 5.** Remove the screw.



- 6.** Open the operation panel [A] and remove the left hinge cover [B].



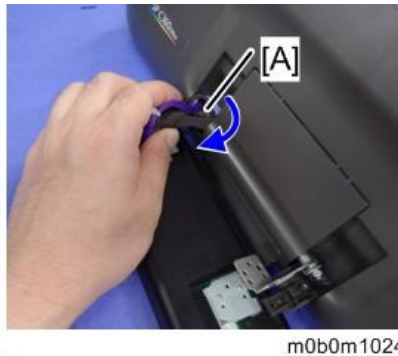
- 7.** Remove the right hinge cover [A].



**8.** Remove the operation panel [A].

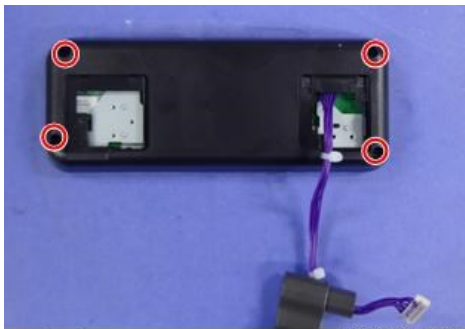


 x7



m0b0m1024

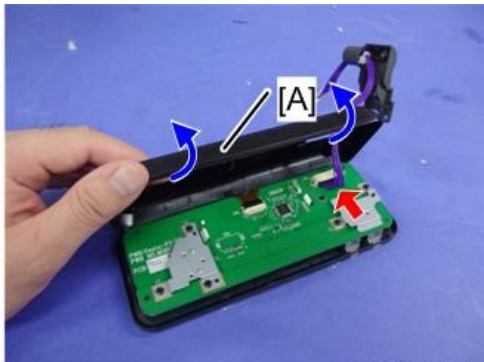
**9.** Remove the 4 screws.



 x4

m0b0m1025

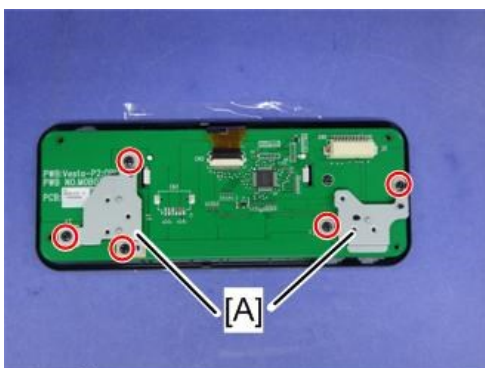
**10.** Open the back cover [A] and disconnect the connector to remove the back cover.



 x1

m0b0m1026

**11.** Remove the 2 brackets [A].



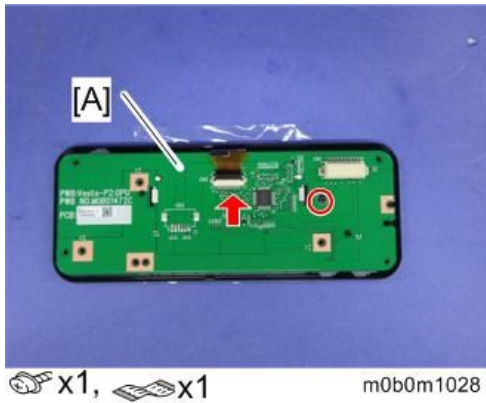
 x5

m0b0m1027

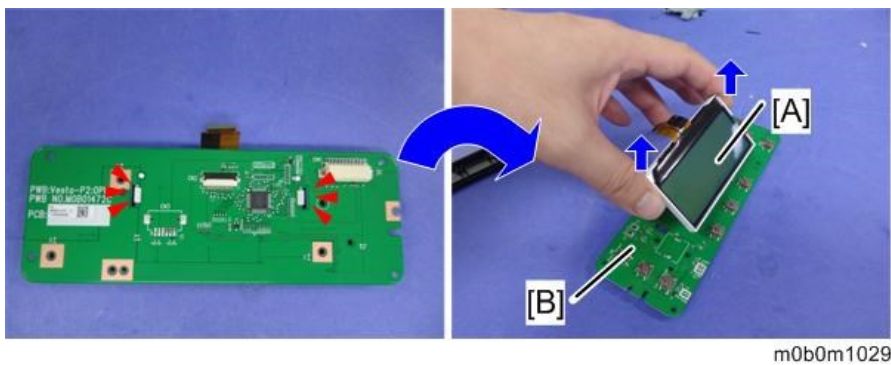


#### 4.Replacement and Adjustment

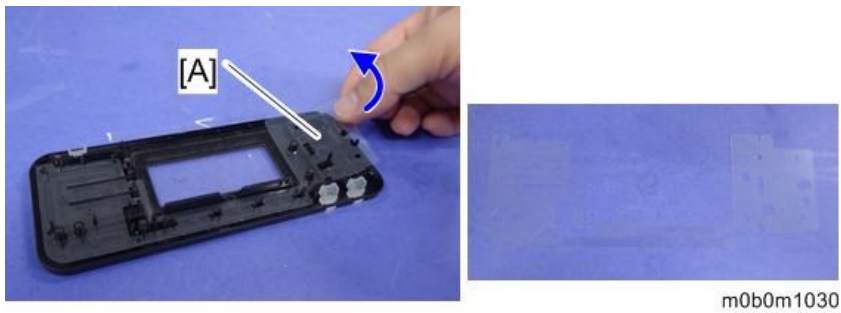
**12.** Remove the LCD panel and the circuit board [A].



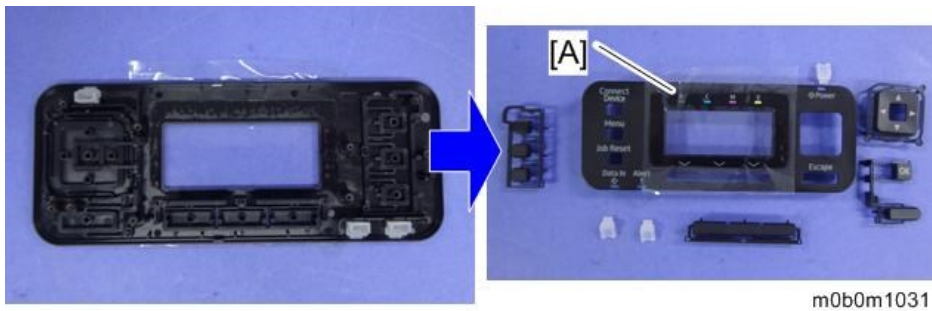
**13.** Separate the LCD panel [A] from the circuit board [B].



**14.** Remove the protection sheet [A].



**15.** Remove all parts from the front cover [A].



#### MF Models (Relay Board, NFC Board)

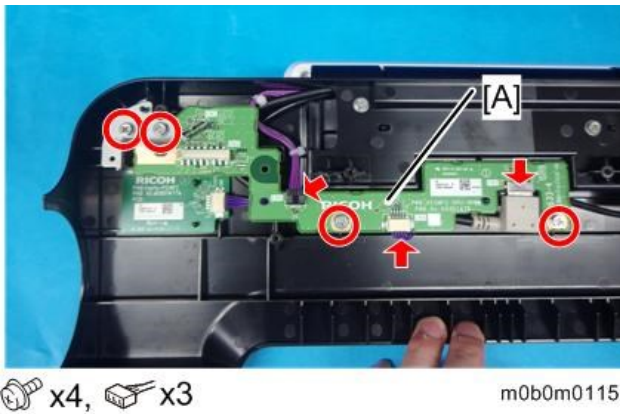
- 1.** Remove the paper exit cover with operation panel. (MF Models)
- 2.** Turn over the paper exit cover, and remove the cover.



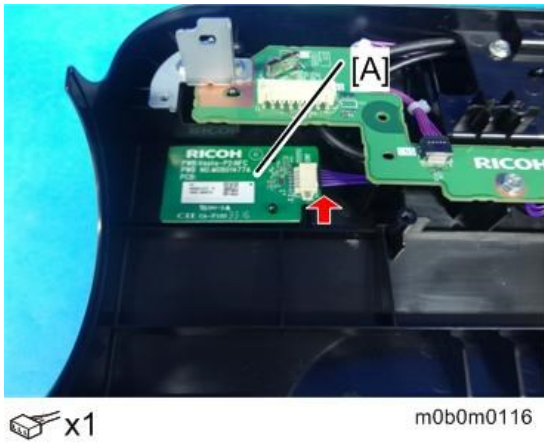
## 4.Replacement and Adjustment



**3.** Remove the relay board [A].

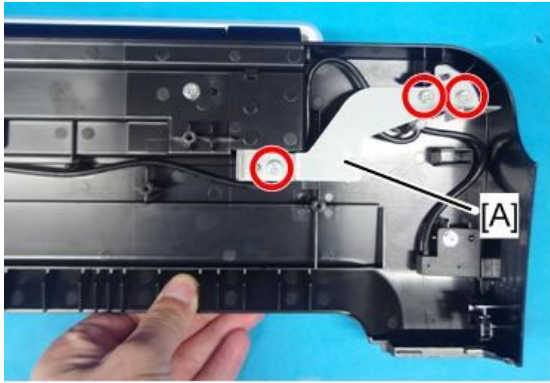


**4.** Remove the NFC board [A].



**5.** Remove the metal bracket [A].

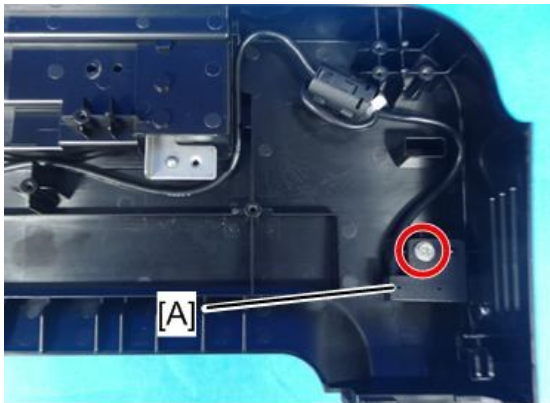
#### 4.Replacement and Adjustment



 x3

m0b0m0117

- 6.** Remove the connector for the optional NFC [A].



 x1

m0b0m0118

- 7.** Remove the top cover [A].



 x2



m0b0m0119

- 8.** Remove the three screws of the hinge.

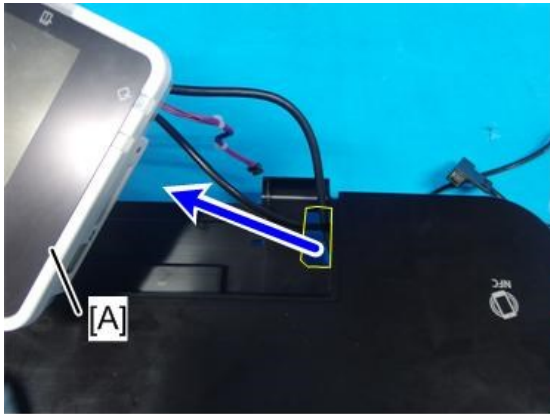
## 4.Replacement and Adjustment



 x3

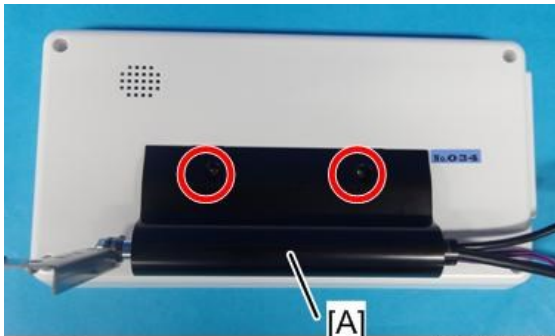
m0b0m0120

- 9.** Pass the connectors of the OPU [A] through the hole in the paper exit cover.



m0b0m0120

- 10.** Remove the cover [A].

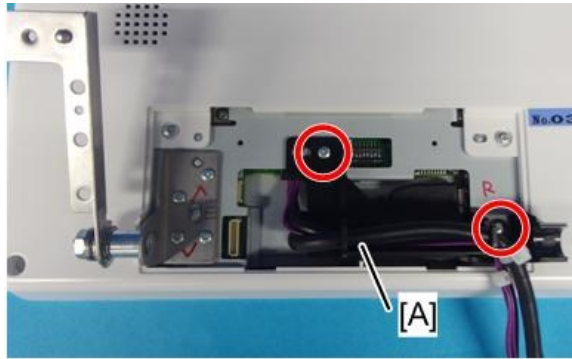


 x2

m0b0m0122

- 11.** Remove the harness guide [A].

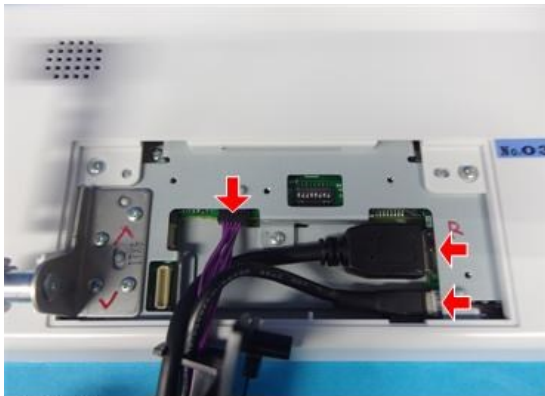
#### 4.Replacement and Adjustment



 x2

m0b0m0123

**12.** Disconnect the harnesses.

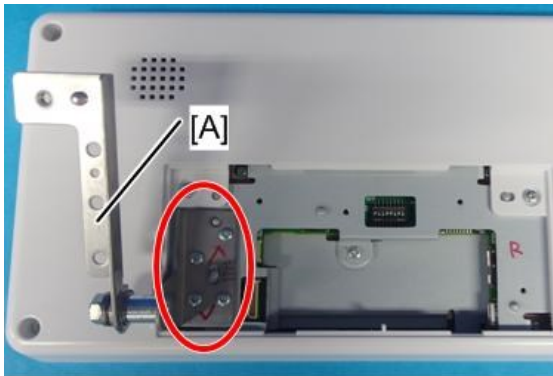


 x3



m0b0m0124

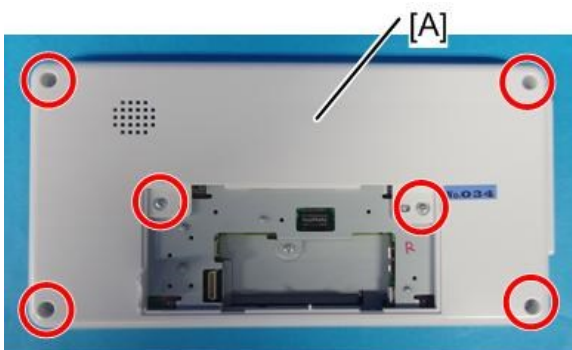
**13.** Remove the four screws of the hinge [A].



 x4

m0b0m0125

**14.** Remove the bottom cover [A].



 x6

m0b0m0126

15. After replacing the operation panel, make sure that the latest version of the Smart Operation Panel firmware has been installed. For details, refer to "Updating the Smart Operation Panel" in the Smart Operation Panel manual.

### Internal Parts

For details about disassembling the Smart Operation Panel, see the service manual for Smart Operation Panel 2nd Generation.



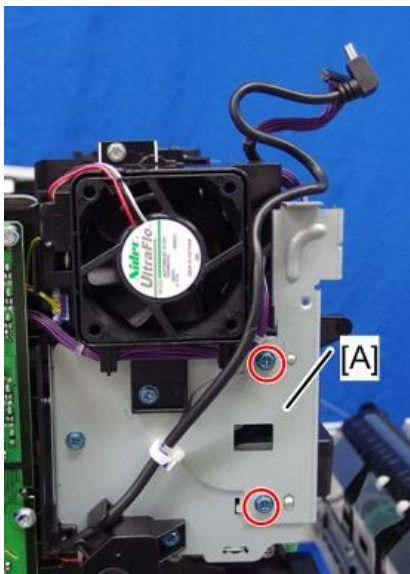
m0b0m0127

---

### Fusing Fan Motor

---

1. Remove the left cover. ([Left Cover](#))
2. Remove the bracket [A].



 x2

m0b0m1061

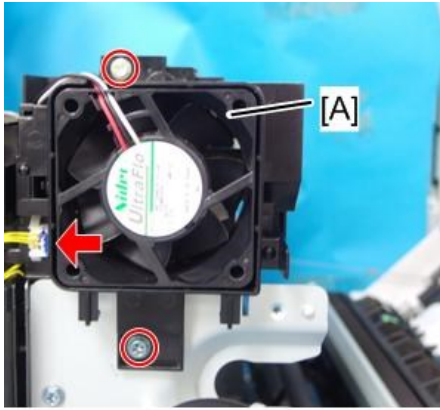
#### Note

- Caution for Installation:  
Before tightening the screws for the bracket, confirm that the harness is not caught.



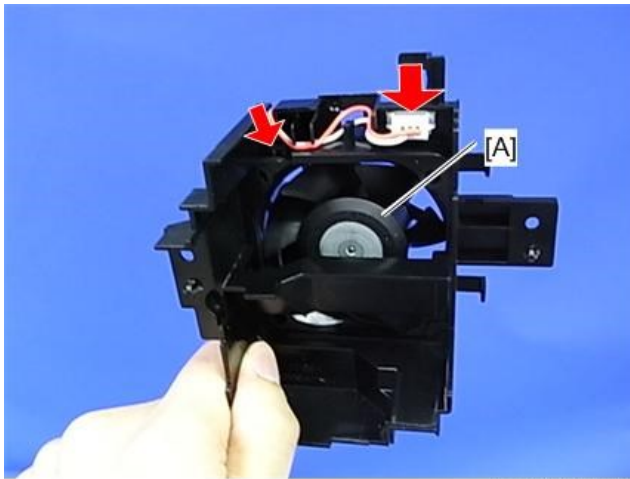
## 4.Replacement and Adjustment

- 3.** Remove the fan holder [A] (🔩×2, 🗝️×1).



m112m0196

- 4.** Remove the fusing fan motor [A] (🗝️×1, hook×1).



m112m0086

---

## Cooling Fan Motor

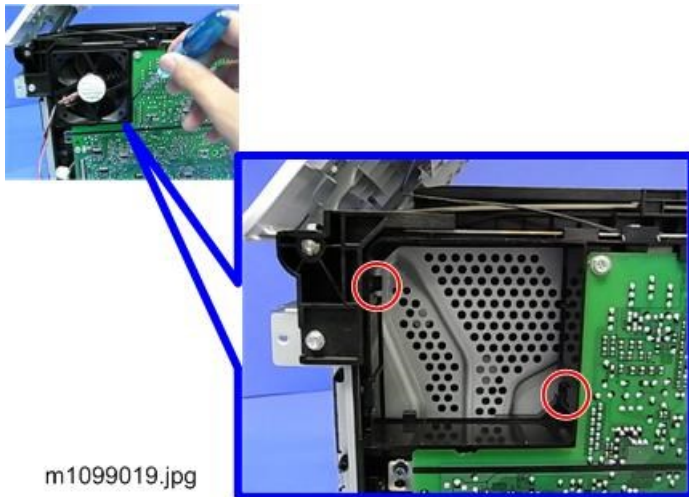
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- 1.** Remove the left cover. ([Left Cover](#))
- 2.** Pull out the cooling fan motor [A] (hook ×2).

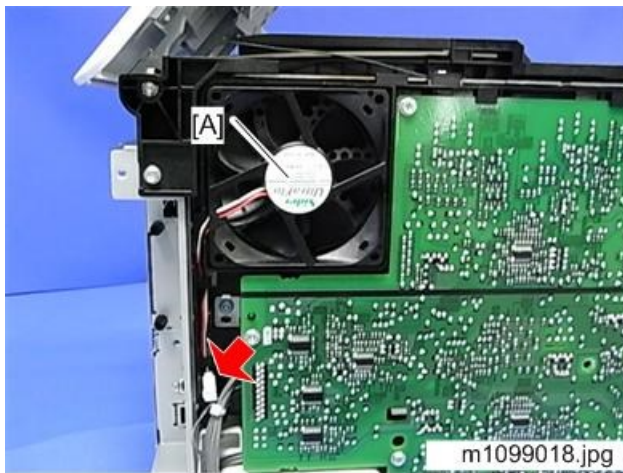
**Note**

- Release the two hooks holding the fan before pulling. (The hooks are circled in red in the picture shown below.)



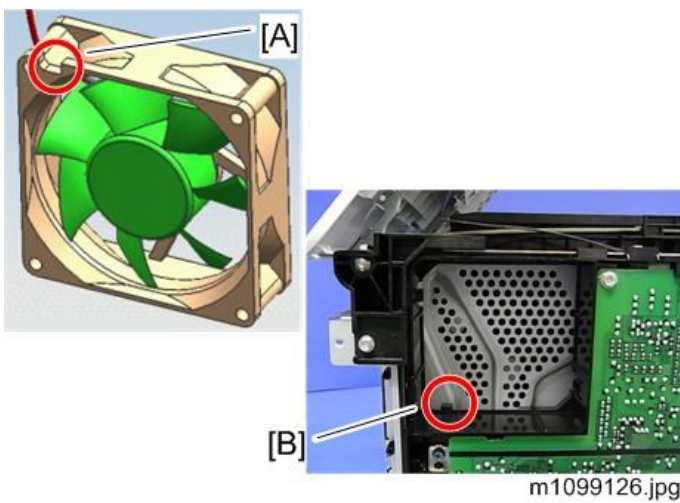


**3.** Remove the connector and then remove the cooling fan motor [A].



#### Reinstalling the Cooling Fan Motor

Reinstall the cooling fan motor so that [A] and [B] are put together as shown below.



#### PSU Fan Motor

**1.** Remove the left cover. (Left Cover)

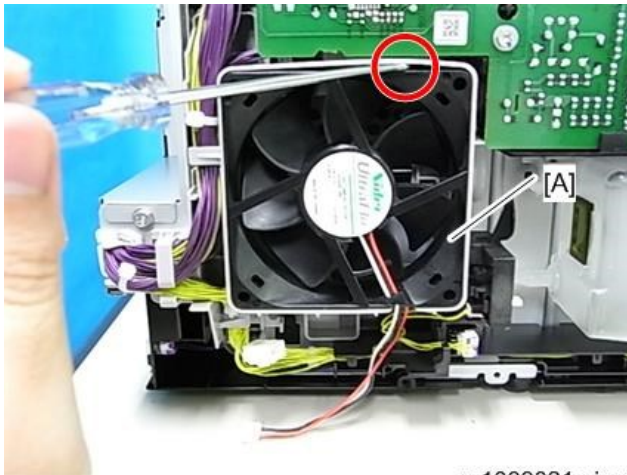
#### 4.Replacement and Adjustment

2. Remove the connector (📦 ×1).



m1099020a.jpg

3. Remove the PSU fan motor [A] (hook ×1).



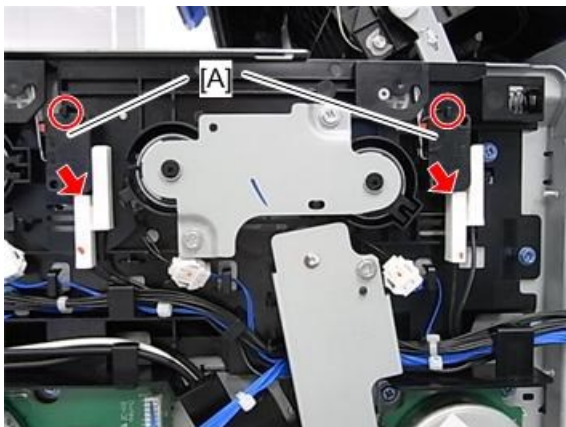
m1099021a.jpg

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#### Interlock Switch

---

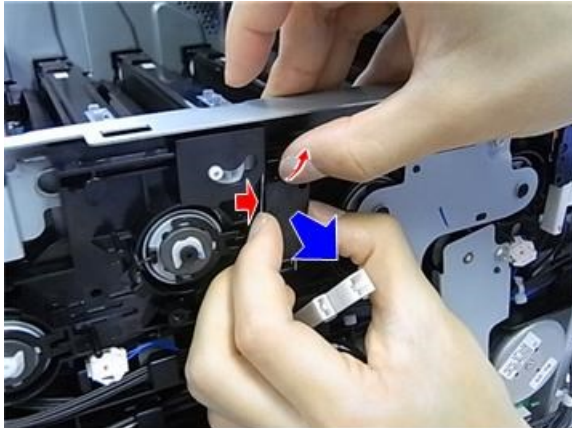
1. Remove the right cover. (Right Cover)
2. Remove the interlock switches [A] (📦 ×1, hook ×1 each).



m1099035.jpg

**Note**

- Pull the switch out while pushing the switch and releasing the hook as shown below.



m1099036.jpg

---

## NVRAM, EEPROM

---

When replacing an old EEPROM or NVRAM with a new one, settings must be stored in the new EEPROM or NVRAM. Follow the EEPROM or the NVRAM setting procedure in the next section.

**Note**

- Replacement and reinstallation procedures for the EEPROM and the NVRAM are included in the "Engine Board" and "Controller Board" replacement procedures. Refer to "Engine Board" or "Controller Board" for details.

---

### NVRAM on the Controller

---

**★ Important**

SP C361SFNw only:

After replacing the NVRAM, the micro SD card is formatted when you turn the power on.

Before replacing the NVRAM, check the following table for the data in the micro SD card.

Data	Data migration
Browser setting value	OK, only if the browser setting value has been downloaded by the end user with WIM.
Storage for SDK	Cannot be moved. This case is the same as a broken hard disk on a GW+ model. For information about the data in the micro SD and what to do with it, consult the software supplier in advance.

- 1.** Make sure that you have the SMC report (factory settings). This report comes with the machine.
- 2.** Insert an SD card in the service slot.
- 3.** Plug in the power cord, and then turn on the main power switch.
- 4.** Start the SP mode.
- 5.** Use SP5-990 to print out the SMC reports ("SP Mode Data" and "Logging Data") if possible.

#### 4.Replacement and Adjustment

- 6.** Use SP5-824-001 to upload the NVRAM data if possible.
- 7.** Turn off the main power switch and unplug the power cord.
- 8.** Replace the NVRAM on the controller and reassemble the machine ([Controller Board](#)).
- 9.** Plug in the power cord.
- 10.** Turn on the main power switch.

**★ Important**

- When you do this, SC995-02 (Defective NVRAM) will be displayed. However, DO NOT turn off the main power switch. Continue with this procedure.

- 11.** If the data in the NVRAM to be replaced is encrypted, a message prompting you to execute restoration appears.

If this happens, clear the NVRAM according to whichever of the two cases below is applicable.

If the data in the NVRAM to be replaced is not encrypted, this procedure is not required.

- If the encryption key kept by the customer is available:  
Use the encryption key to prepare an SD card for restoration, and then execute restoration. (Example: If a controller board with encrypted data malfunctions, replace it with a new controller board, and then use the SD card for restoration to restore the data in the NVRAM and microSD card.)  
For details, see [Restoring the Encryption Key](#).
- If the encryption key kept by the customer has been lost:  
Get an SD card ready for canceling data encryption, and then execute forced start-up without an encryption key.  
For details, see [Forced Start Up with No Encryption Key](#).

- 12.** Start the SP mode.

- 13.** Use SP5-825-001 to download the NVRAM data if possible.

- 14.** Make these contract-related settings:

- Counter Method (SP5-045)
- Meter-click Charge Mode ( Set the following SPs to "0": SP5-930, 5-083 and Printer SP1-  
~~007~~)
- Telephone Number Setting > Fax Telephone Number (SP5-812-002) if the meter charge mode (SP5-930-001) is "ON" (enabled)
- Counter Size Setting (SP5-104)

- 15.** Turn off the main power switch, and then remove the SD card from the lower slot.

- 16.** Turn on the main power switch.

- 17.** Output the SMC data ("ALL") using SP5-990-001, and make sure that it matches the SMC data you printed out in step 5 above (except for the value of the total counter).

**↓ Note**

- The value of the total counter is reset to "0" when the NVRAM is replaced.

- 18.** Do the process control self-check (SP3-011-001).

**★ Important**

- Do the following if SP5-824-001 (NVRAM Data Upload) and SP5-825-001 (NVRAM Data

Download) cannot be performed for some reason.

- Manually enter all data on the SMC report (factory settings).

### EEPROM on the Engine Board

---

When replacing the EEPROM on the Engine Board, please check the following points:

- If a near end alert for the fusing unit, paper transfer roller unit, or PCDU is displayed, replace them with new units before carrying out EEPROM replacement. Not doing so may cause image quality problems or SC490.
- If the Waste Toner Bottle is near full, replace it with a new one. Not doing so may cause toner overflow.
- After replacing the EEPROM, check that there is no image quality problem. If an image quality problem occurs, do not try to fix it by putting the old EEPROM back, but make adjustments so that they are stored in the new EEPROM.

If the EEPROM download/upload feature cannot be used, do the following steps;

#### **1.** Set these SPs.

1. 5-807-001 "Machine Type Area Selection" <- NA:"2", EU:"3", ASIA:"4", CHN: "5" , TWN:"6" , KOR:"7"
2. 5-807-002 "Machine Type Model Selection":  
SP C360SFNw/SNw/DNw: "1", SP C361SFNw: "2"
3. 5-988-002 "Brand ID": Set the value on the latest SMC sheet
4. 5- 811-001 "Machine Info Set: Serial No.": Input the 5-811-002 value from the SMC sheet
5. 5-801-002 Execute "Engine Memory Clear"

#### **Note**

For information on how to configure these SPs, contact the supervisor in your branch office.

#### **2.** Power OFF, then power ON. Login to the normal SP mode.

- Input values from the latest SMC sheet
  1. 3-333-001 to 3-333-006 "TM (ID) sensor (right) adjustment value"
  2. 3-334-001 to 3-334-006 "TM (ID) sensor (left) adjustment vale"
  3. 1-001-013 to 1-001-024 "Sub scan direction registration"
  4. 1-002-001 to 1-002-006 "Main scan direction registration"
  5. 1-003-001 to 1-003-012 "Paper buckle adjustment"

#### **3.** Close Cover, then do the following steps in this order.

1. 2-111-002 Execute "Line position adjustment factory mode"
2. 3-011-001 Execute "Normal Process Control"
3. 2-185-002 Input "1" in "Margin Position: Base Calculation Flag"
4. 2-111-001 Execute "Line position adjustment normal mode"



#### 4.Replacement and Adjustment

5. 2-185-002 Input "1" in "Margin Position: Base Calculation Flag"
6. 2-111-003 Execute "Line position adjustment Black mode"

#### 4. Ready to use the machine

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### Micro SD Card (Only for SP C361SFNw)

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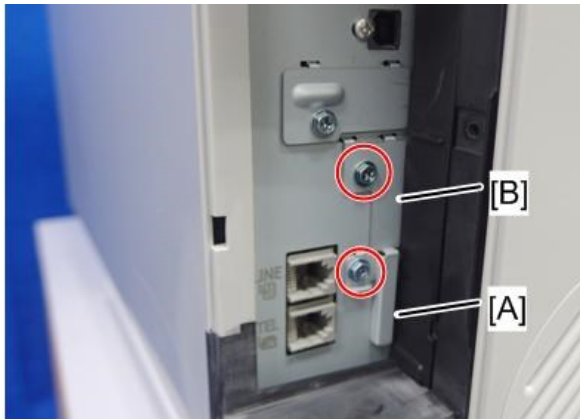
#### ★ Important

After replacing the NVRAM, the micro SD card is formatted when you turn the power on.

Before replacing the NVRAM, check the following table for the data in the micro SD card.

Data	Data migration
Browser setting value	OK, only if the browser setting value has been downloaded by the end user with WIM.
Storage for SDK	Cannot be moved. This case is the same as a broken hard disk on a GW+ model. For information about the data in the micro SD and what to do with it, consult the software supplier in advance.

- 1.** Remove the slot cover [A], and then remove the micro SD card cover [B].



m0b0m0128

- 2.** Push the micro SD card [A] to release the lock, then remove it.



m0b0m0129

- 3.** Insert the replacement micro SD card, and then power the machine on.

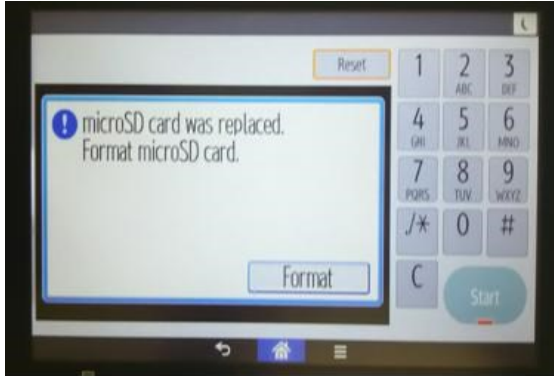
#### ↓ Note

The machine recognizes only micro SD cards configured as service parts.



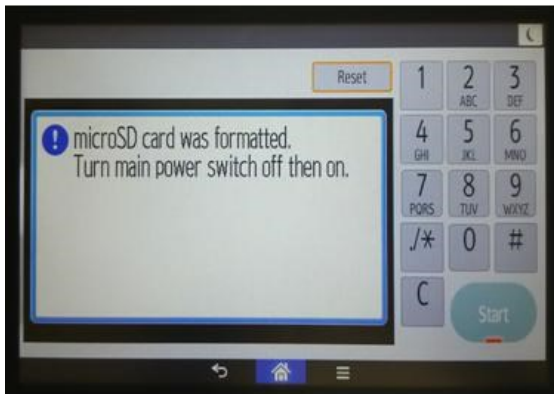
**4.** Format the micro SD card.

Do not turn the machine off during formatting.



m0b0m0377

**5.** After formatting, turn the power off and then back on.



m0b0m0378

**Note**

- For details about what data is saved to the micro SD card, and the data transfer procedure when the micro SD card is damaged, refer to [Notes on Data Storage Devices](#)

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Speaker (Only for Printer Model)

---

**1.** Remove the rear cover. ([Right Cover](#))

## 4.Replacement and Adjustment

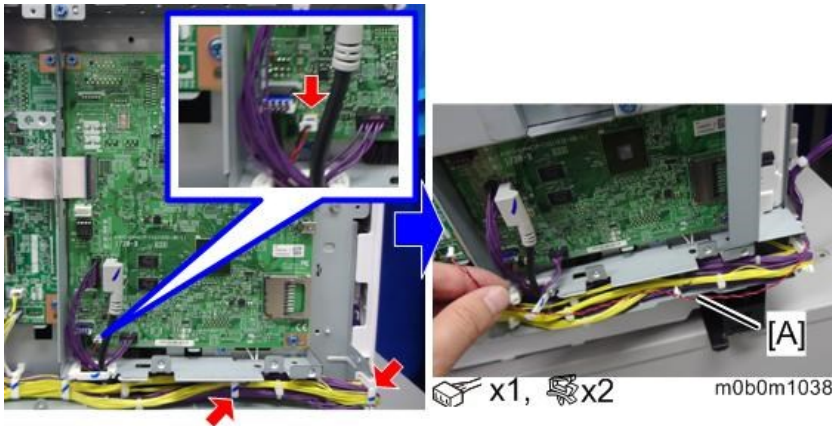
- 2.** Remove the controller box cover.



x8

m0b0m1059

- 3.** Release the speaker harness [A].

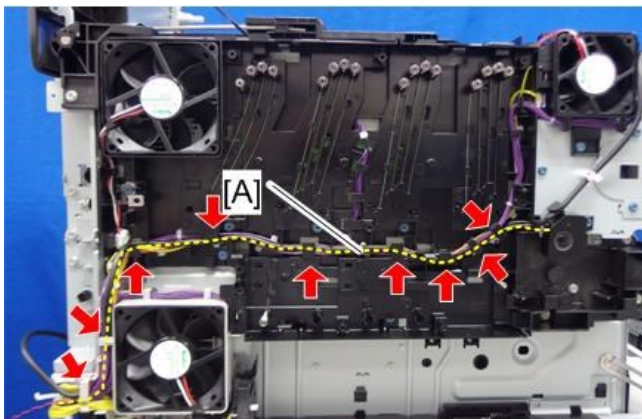


x1, x2

m0b0m1038

- 4.** Remove the high voltage power supply board. ([High Voltage Power Supply Board](#))

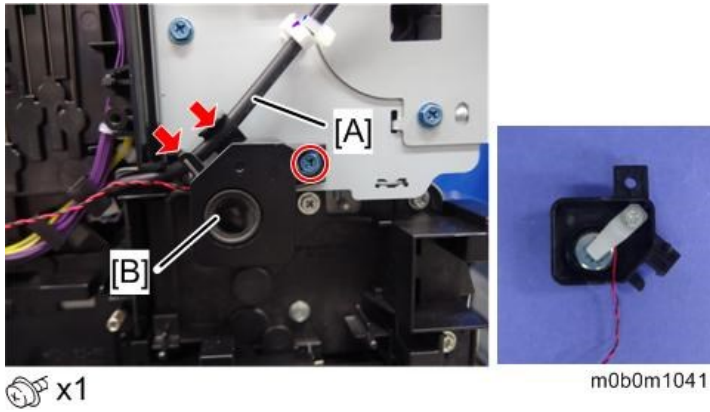
- 5.** Release the speaker harness [A] from the cable guides.



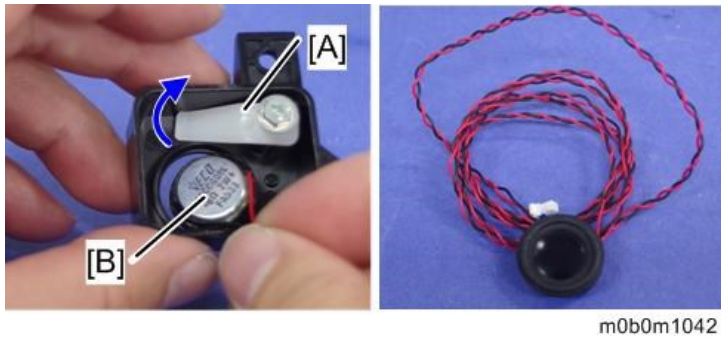
x1

m0b0m1040

- 6.** Release the USB cable [A] from the cable guides, and remove the speaker with bracket [B].



7. Release the speaker holder [A], and remove the speaker [B].

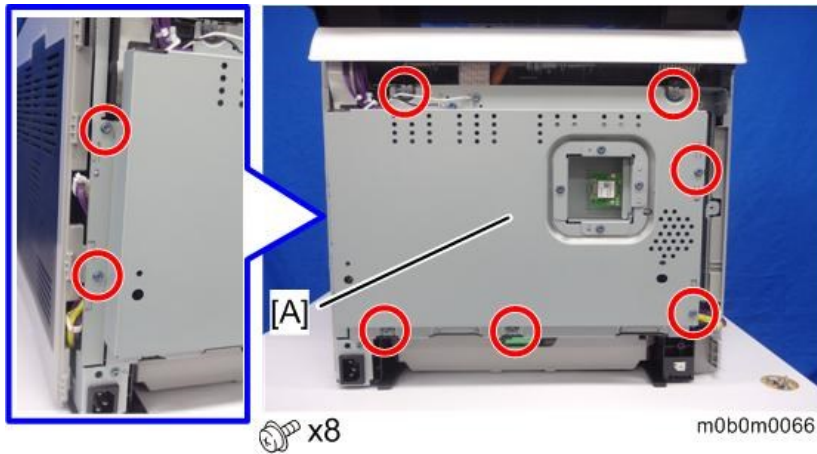


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### Wireless LAN Board (Only for MF Models)

---

1. Remove the rear cover. (MF Models)
2. Remove the controller box cover [A].



3. Remove the wireless LAN board [A].

## 4.Replacement and Adjustment



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### FFCs on the DF Unit and the Scanner Unit

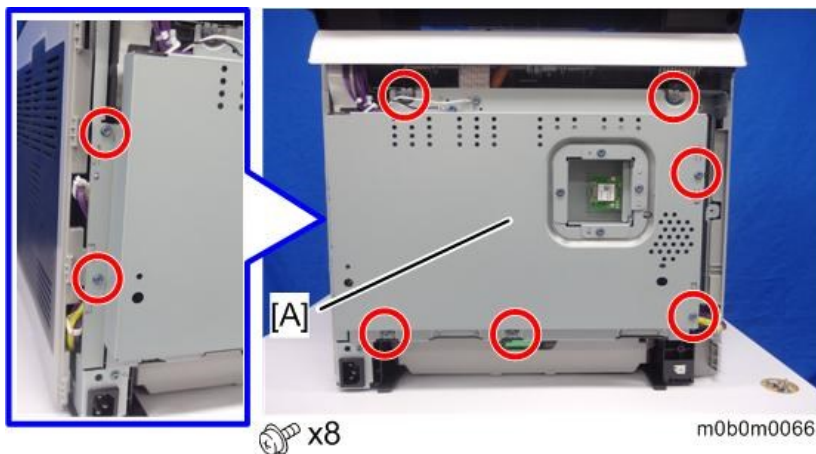
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#### Common Procedure

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First of all, you have to remove the FFCs on the controller board.

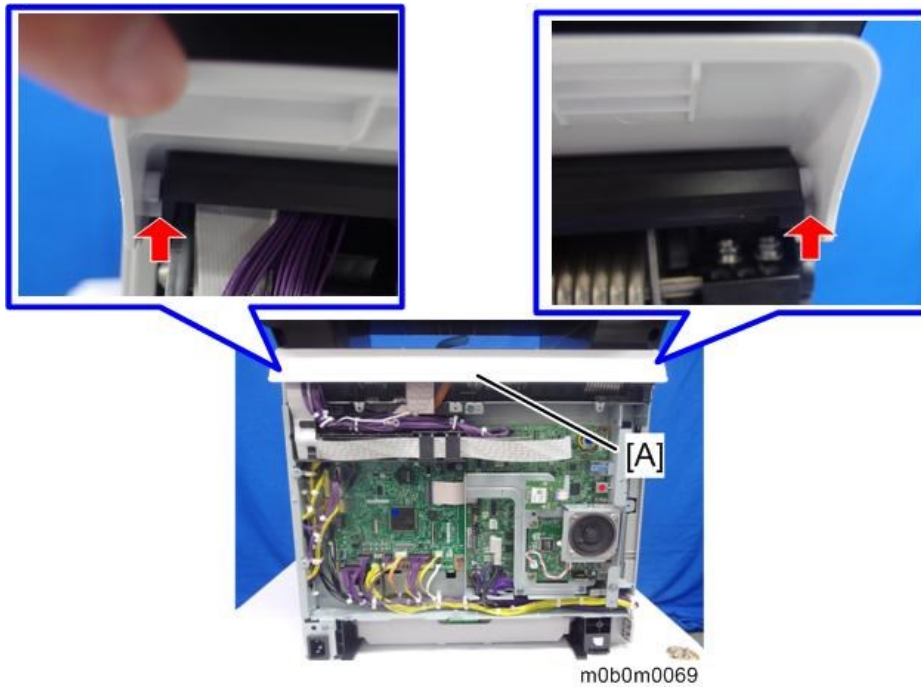
- 1.** Remove the rear cover. (MF Models)
- 2.** Remove the controller box cover [A].



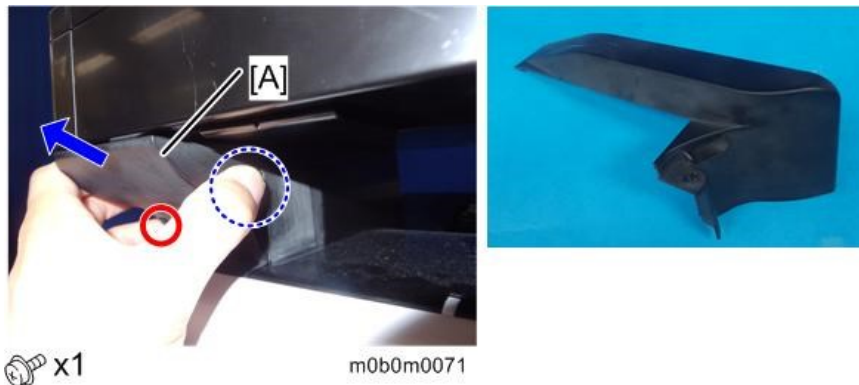
- 3.** Grip both ends of the rear top cover [A], and lift it off its hinges.



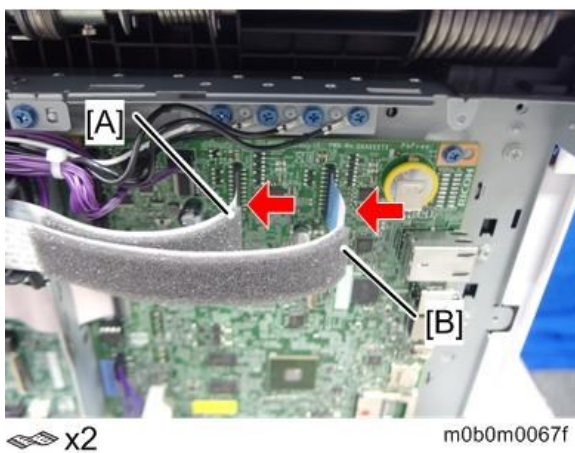
## 4.Replacement and Adjustment



- 4.** Remove the scanner rear left cover [A] while pressing down strongly with your thumb on the blue circle area.

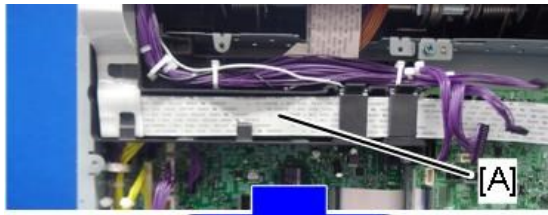


- 5.** Disconnect the two FFCs on the controller board.  
[A]: Scanner FFC, [B]: DF FFC



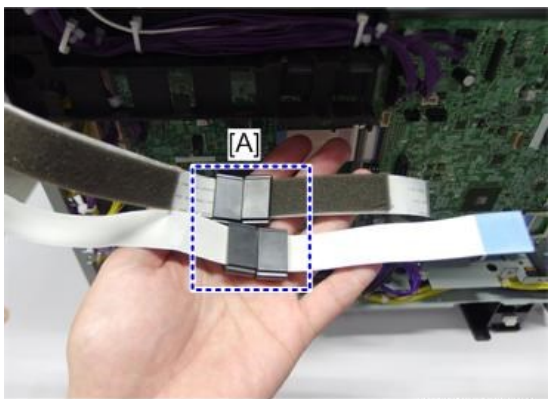
- 6.** Release the FFCs from the harness guide.

#### 4.Replacement and Adjustment



m0b0m0318

#### 7. Remove the ferrite cores [A].



m0b0m0365

#### Removing the FFC on the DF Unit

---

1. Remove the DF rear cover. ([DF Rear Cover](#))
2. Disconnect the FFC.

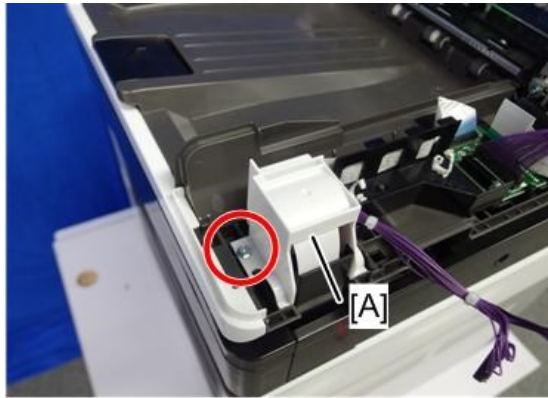


x1

m0b0m0014b

#### 3. Remove the harness box [A].

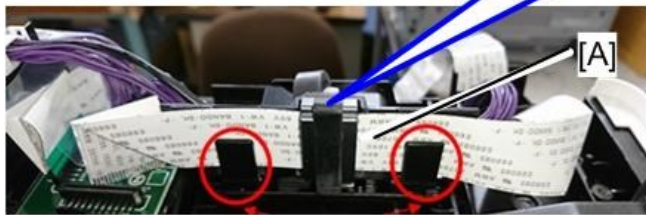




 x1

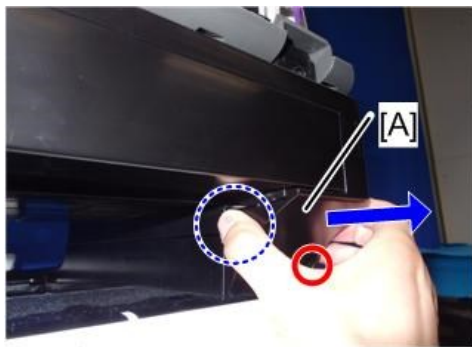
m0b0m0015

- 4.** Release the FFC [A] from the harness guide.



m0b0m0016

- 5.** Remove the scanner rear right cover [A] while pressing down strongly with your thumb on the blue circle area.



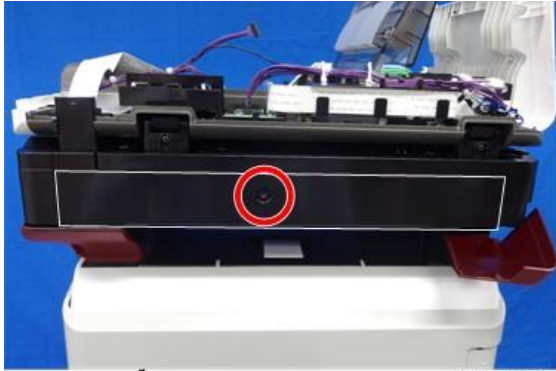
 x1

m0b0m0073



- 6.** Remove the screw of the scanner rear cover.

#### 4.Replacement and Adjustment



 x1

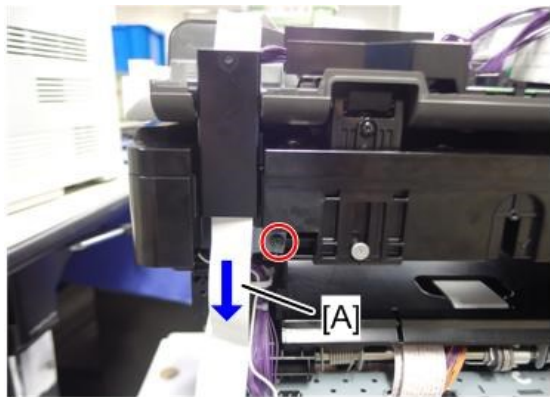
m0b0m0020

- 7.** Remove the scanner rear cover [A].



m0b0m0021

- 8.** Remove the screw and pull out the FFC [A].



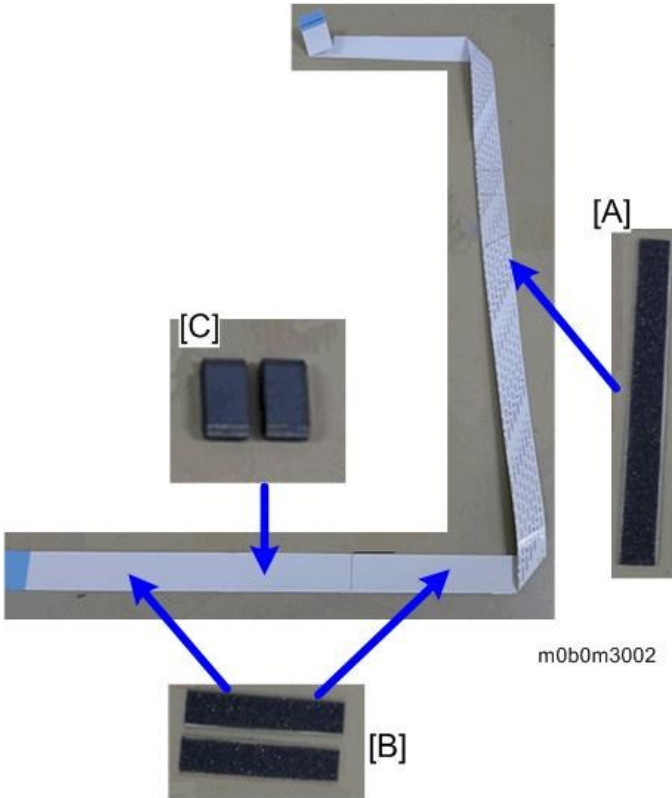
 x1

m0b0m0370

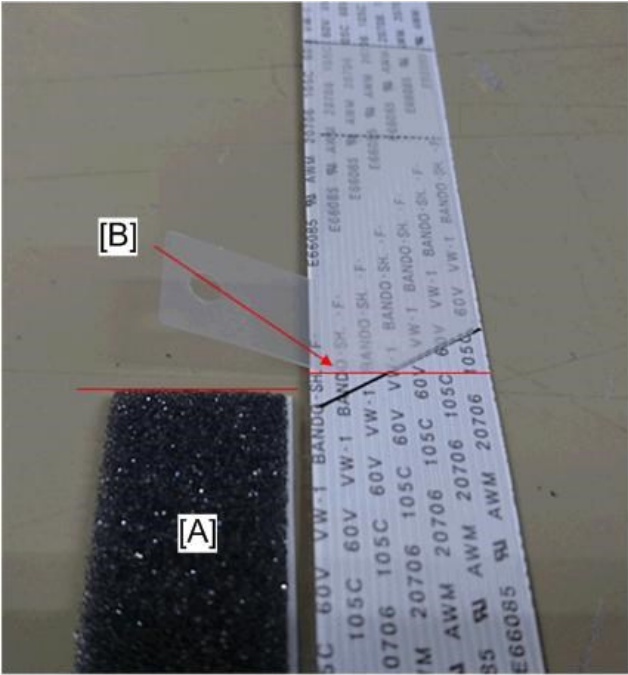
#### **Attaching the Sponge and Ferrite Cores When Replacing the FFC on the SPDF**

To replace the FFC, it is necessary to attach the sponges [A], [B] and ferrite cores [C]. Attach them as follows.

4.Replacement and Adjustment



- 1. Attach the sponge [A] along the edge of the mylar [B] on the FFC.  
 [C]: 1mm  
 [D]: Attach it within the width of the FFC.



#### 4.Replacement and Adjustment

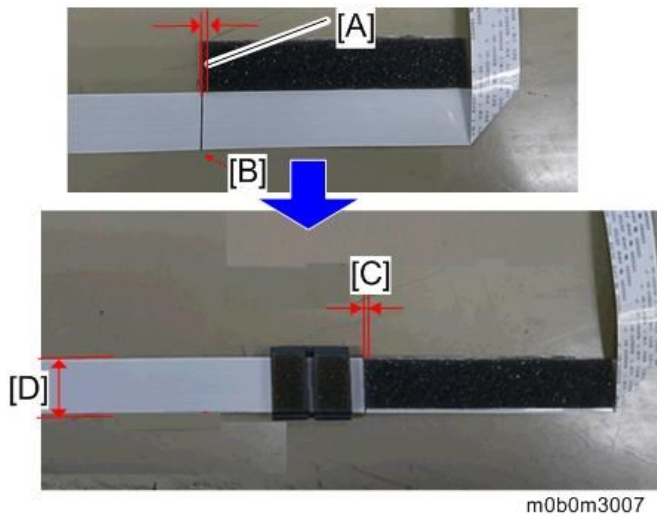


**2.** Attach the sponge.

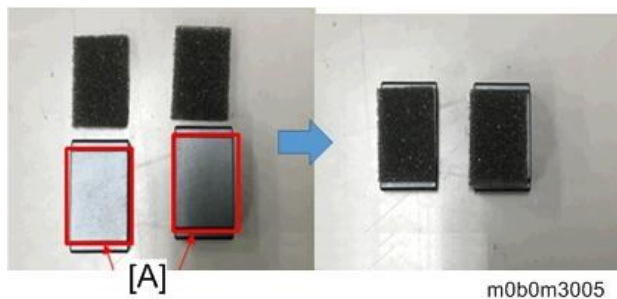
Align the edge of the sponge [A] with the positioning line [B] on the FFC and attach the sponge.

[C]: 0 to 1 mm

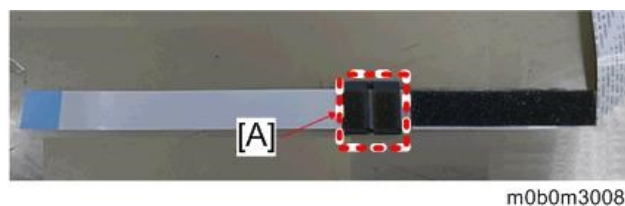
[D]: Attach it within the width of the FFC.



**3.** Attach the spacer sponges within the parts framed in red [A] on the ferrite cores.



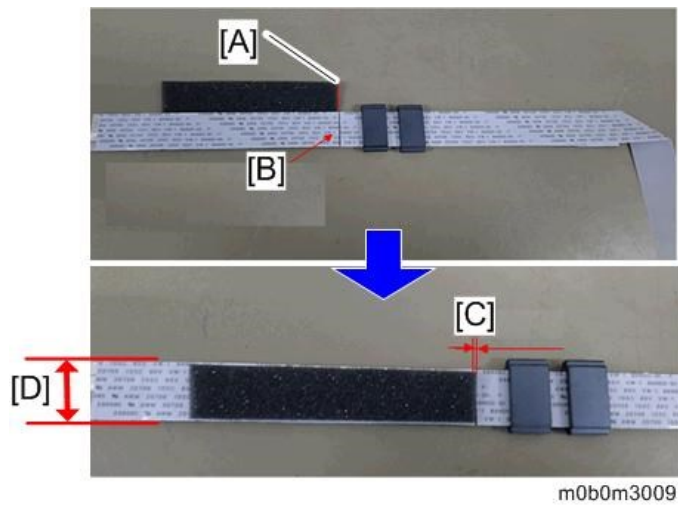
**4.** Pass the FFC through the ferrite cores [A].



**5.** Align the edge of the sponge with the positioning line [B] on the printed side of the FFC.

[C]: 0 to 1 mm

[D]: Attach it within the width of the FFC.



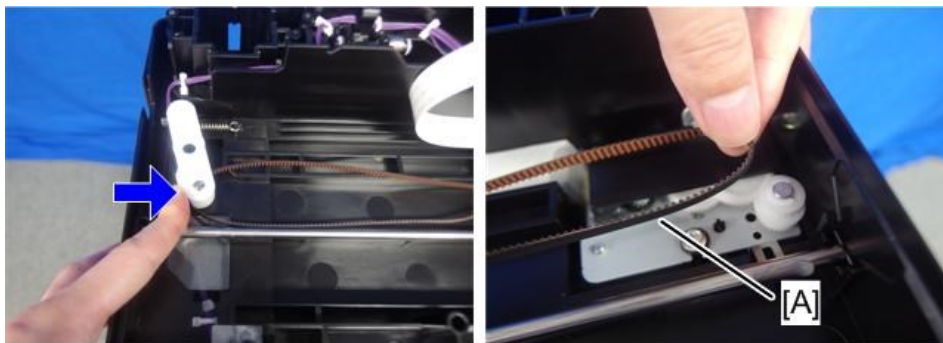
If you forget to attach the sponge, the following problems may occur:

- The proximity of the analog signals produces crosstalk so that, depending on the document, vertical streaks may appear on the scanned image.
- Radio interference may be caused by contact with the metal plate.

#### Removing the FFC on the Scanner Unit

---

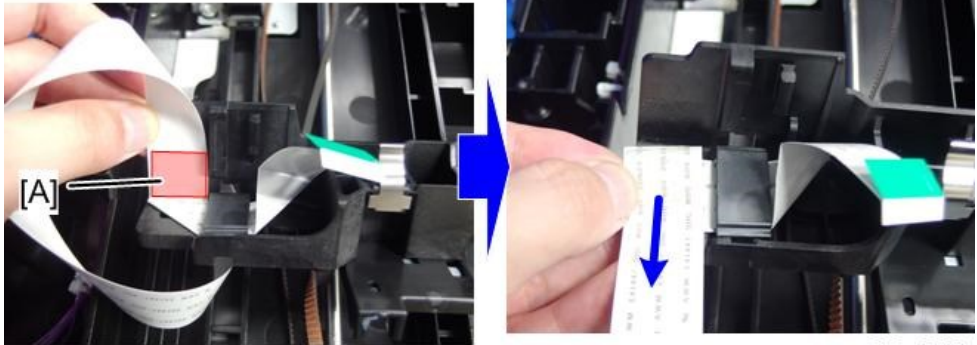
- 1.** Remove the DF unit. ([Document Feeder](#))
- 2.** Remove the scanner front cover. ([Scanner Front Cover](#))
- 3.** Remove the scanner top cover. ([Scanner Top Cover \(Left Scale, Top Scale, Exposure Glass, Sheet-through Glass\)](#))
- 4.** Remove the front CIS in the scanner unit. ([CIS in the Scanner \(Original Front Side CIS\)](#))
- 5.** Press the pulley, and then remove the timing belt [A] by bending it.



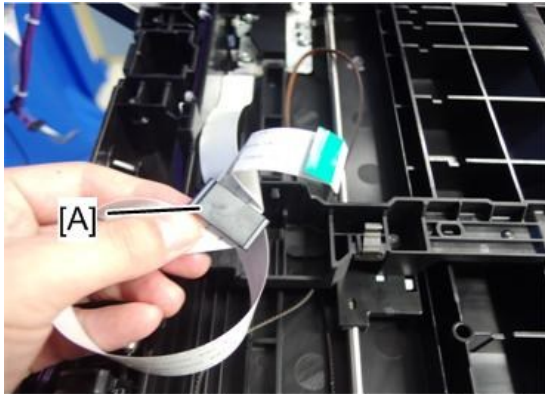
- 6.** Remove the double-sided adhesive tape [A] on the FFC, and then remove the FFC from the carriage.



#### 4.Replacement and Adjustment

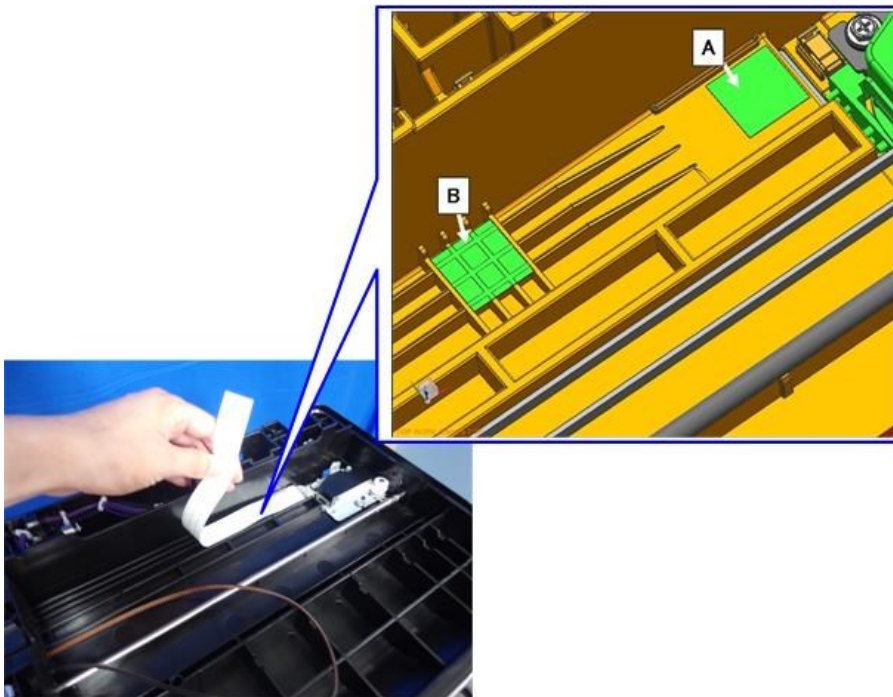


m0b0m0371



m0b0m0372

- 7.** Remove the double-sided adhesive tapes [A] and [B] from the scanner base.



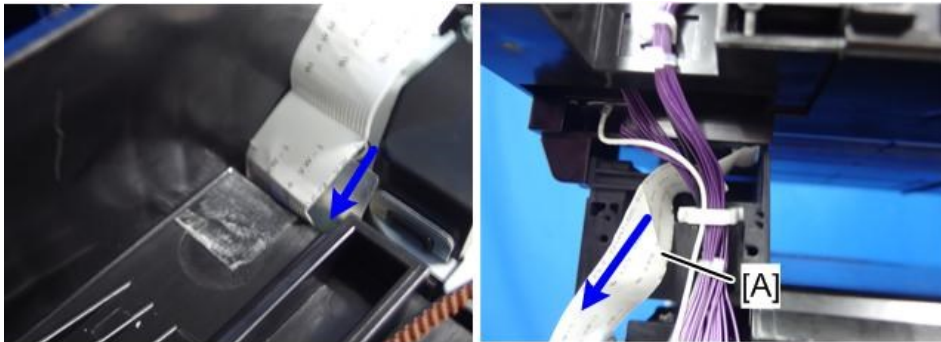
m0b0m0373b





m0b0m0373c

- 8.** Disconnect the FFC [A] from the machine's rear.

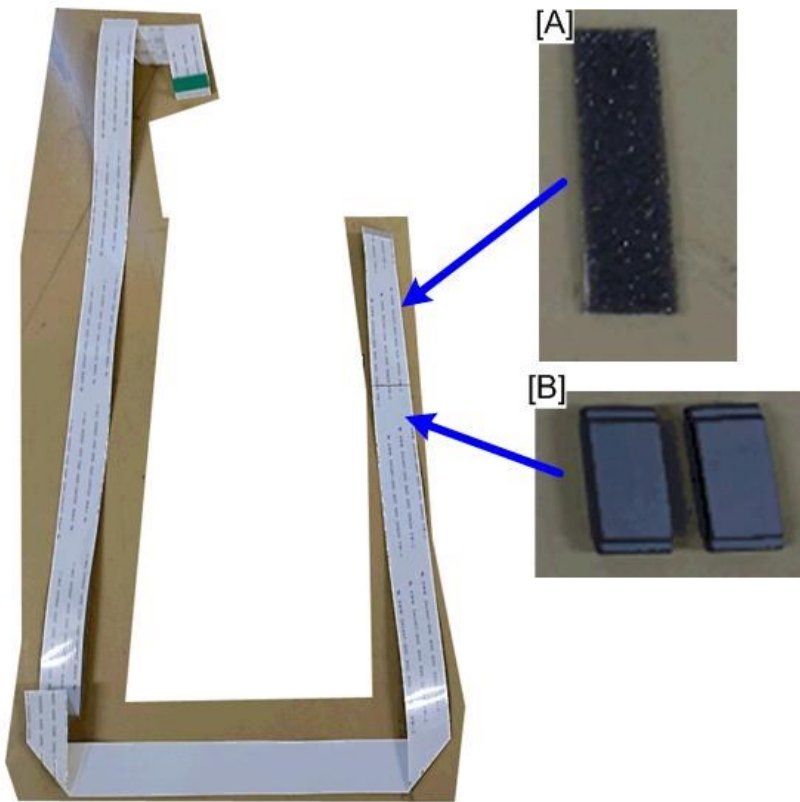


m0b0m0374

**Attaching the Sponge and Ferrite Cores When Replacing the FFC on the Scanner Unit**

To replace the FFC, it is necessary to attach the sponge [A] and ferrite cores [B]. Attach them as follows.

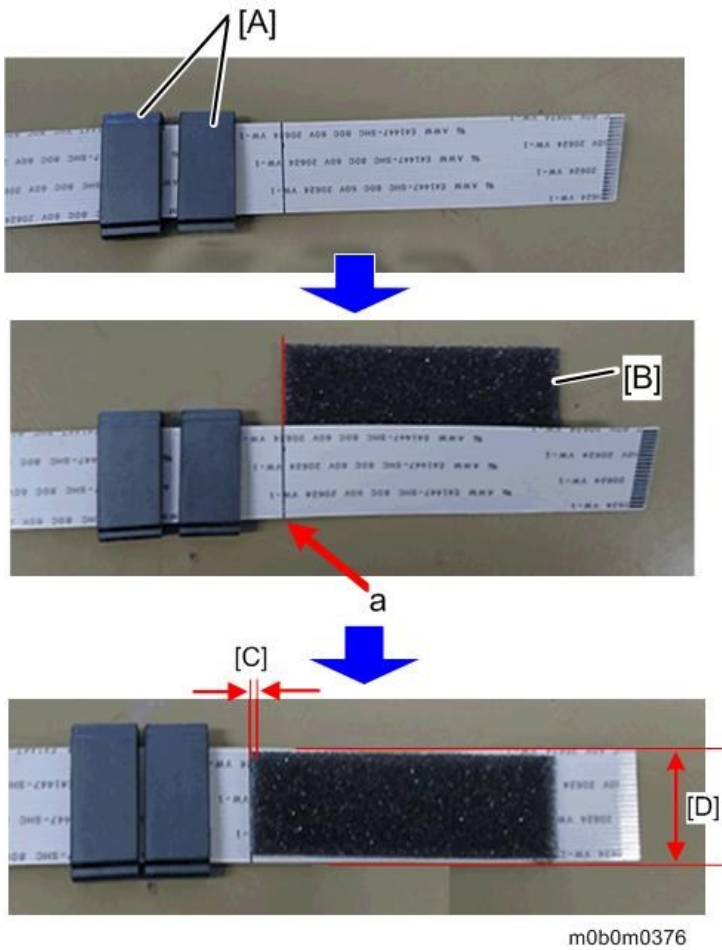
#### 4.Replacement and Adjustment



m0b0m0375

- 1.** Pass the FFC through the ferrite cores [A].
  - 2.** Attach the sponge along the line [a] on the FFC.
- [C]: 1mm  
[D]: Attach it within the width of the FFC.

## 4.Replacement and Adjustment



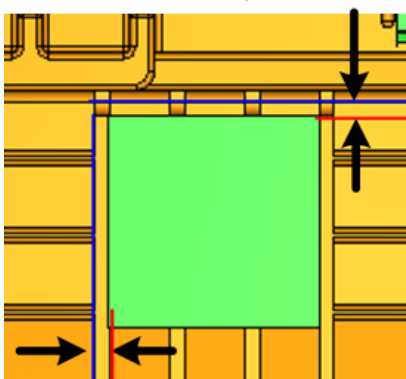
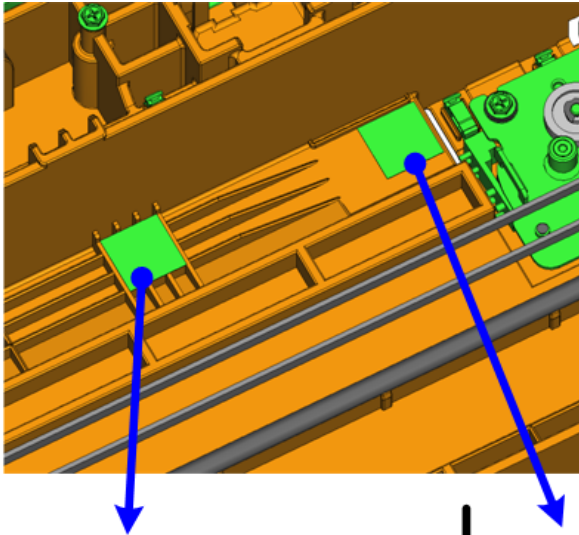
If you forget to attach the sponge, the following problems may occur:

- The proximity of the analog signals produces crosstalk so that, depending on the document, vertical streaks may appear on the scanned image.
- Radio interference may be caused by contact with the metal plate.

**Attach the double-sided adhesive tape here.**

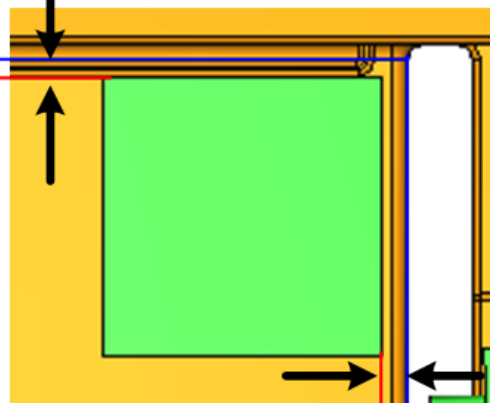
Scanner base

#### 4.Replacement and Adjustment



[B]

[A]



m0b0m0379a

[A]: 0 to 1mm

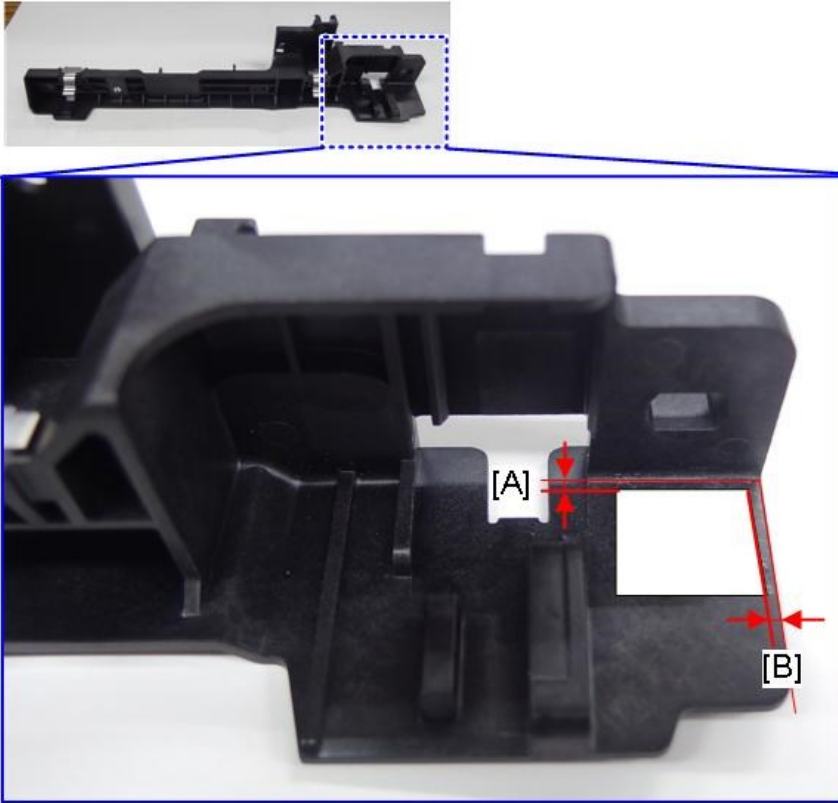
[B]: 0 to 1mm

[C]: 0 to 1mm

[D]: 1 to 2mm

#### Carriage

#### 4.Replacement and Adjustment



m0b0m0380

[A]: 2.5±2mm

[B]: 0 to 1mm



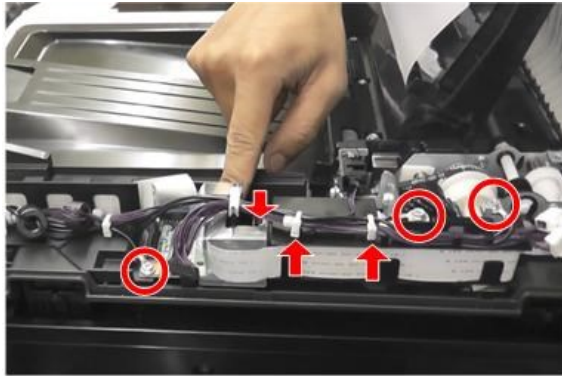
## SPDF (Only for MF Models)

### Document Feeder

**1.** Remove the DF rear cover. ([DF Rear Cover](#))

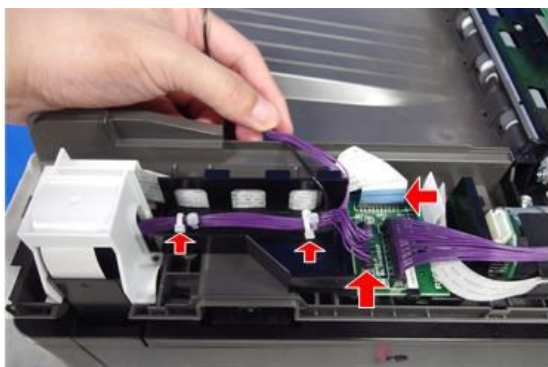
**2.** Disconnect the harnesses and ground wires.


Use a self-tapping screw for the screw of the ground wire on the relay board.



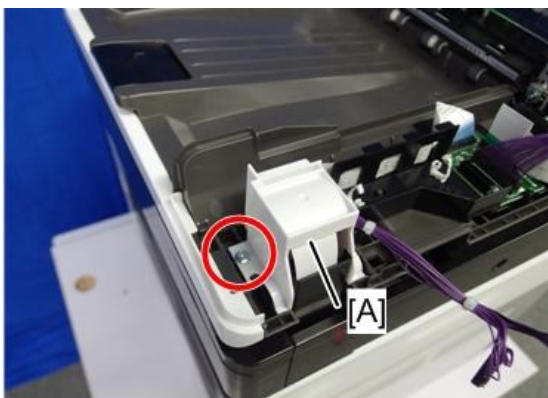
 x3,  x2,  x1 m0b0m0013

**3.** Disconnect the FFCs and harness for the relay board.



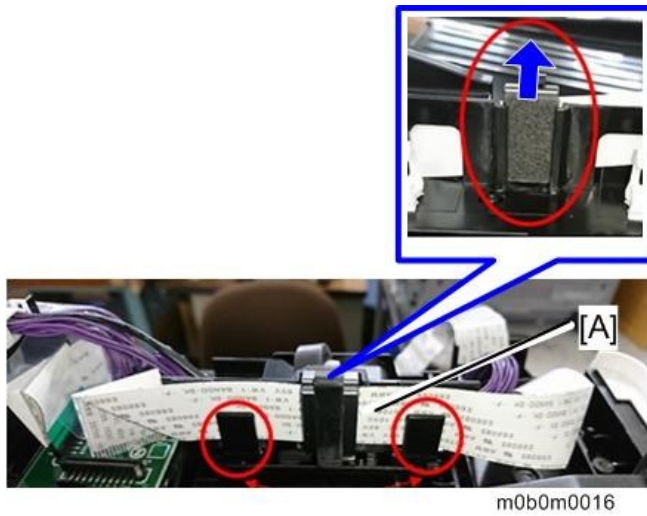
 x2,  x1,  x1 m0b0m0014

**4.** Remove the harness box [A].

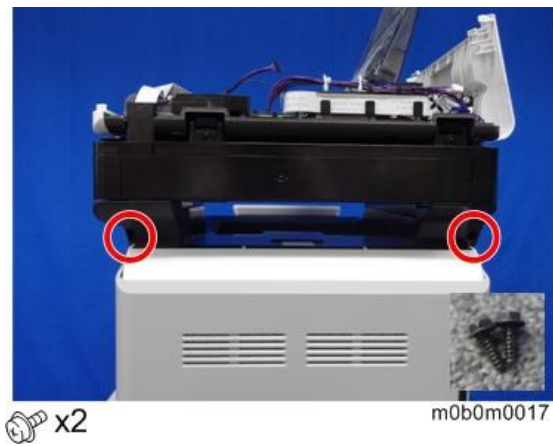


 x1 m0b0m0015

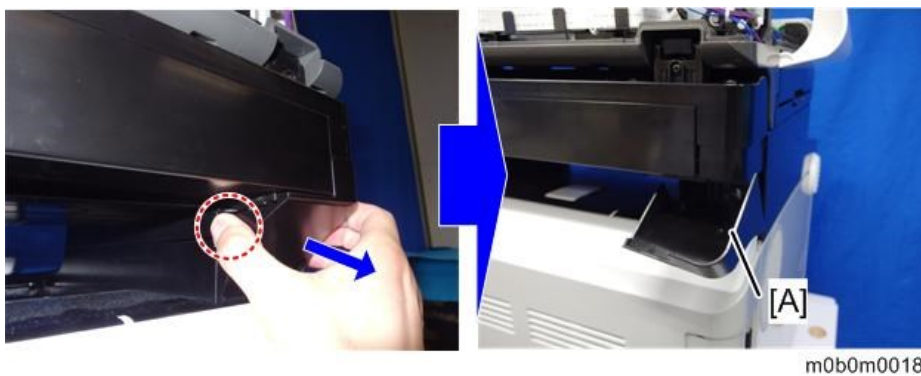
- 5.** Release the FFC with ferrite core [A] from the harness guide.



- 6.** Remove the two screws.

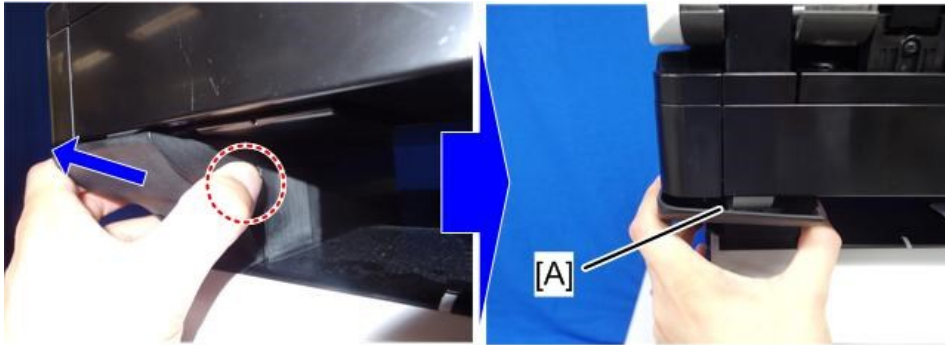


- 7.** Slide the rear left cover [A] towards you while pressing strongly with the thumb at the part marked with the red dotted circle.



- 8.** Slide the rear right cover [A] towards you (front) while pressing strongly with the thumb at the part marked with the red dotted circle. This cover slides only a little as shown in the photo below.

#### 4.Replacement and Adjustment



m0b0m0019

- 9.** Remove the screw of the scanner rear cover.



 x1

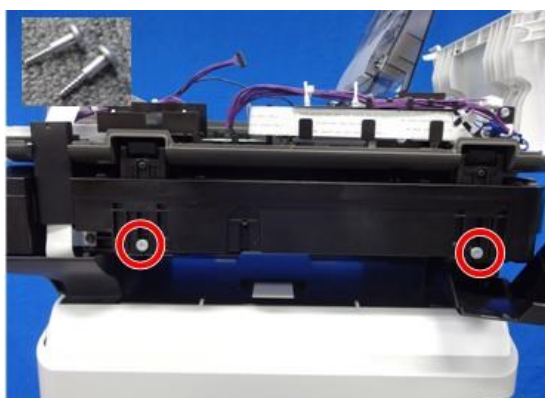
m0b0m0020

- 10.** Remove the scanner rear cover [A].



m0b0m0021

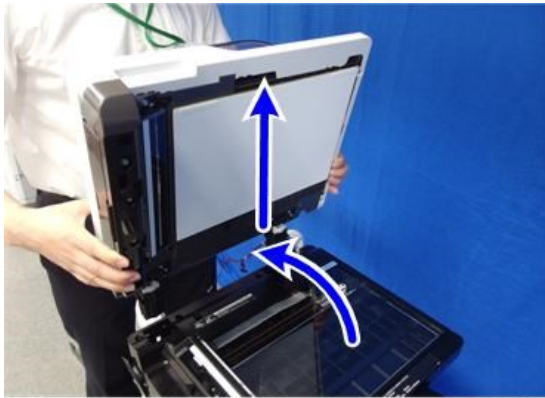
- 11.** Remove the two stepped screws.



 x2

m0b0m0022

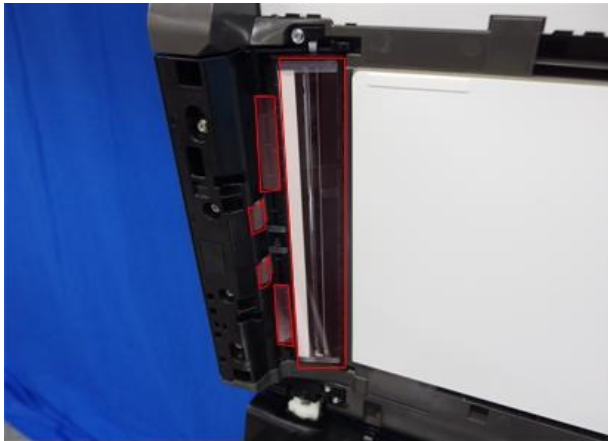
- 12.** Remove the DF unit from the machine.



m0b0m0023

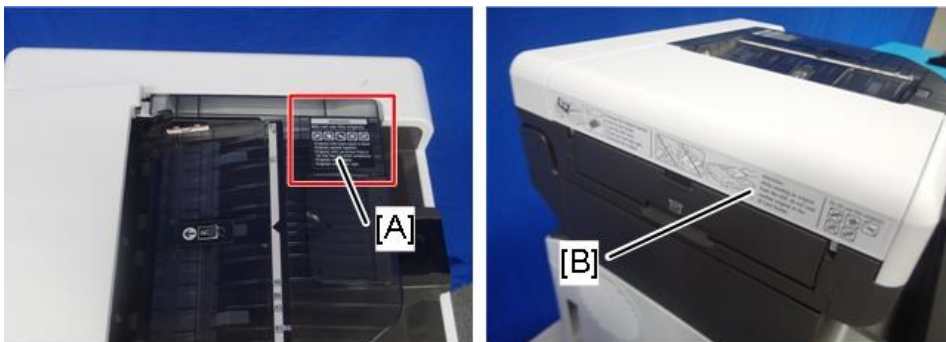
**Note**

- When removing the DF unit, do not touch the sheet-through glass, mylar, and rollers (marked with red squares).



m0b0m0024

- Decals [A] [B] are not attached to the DF that you order for replacement. Order the decals also when replacing the DF.



m0b0m0064b

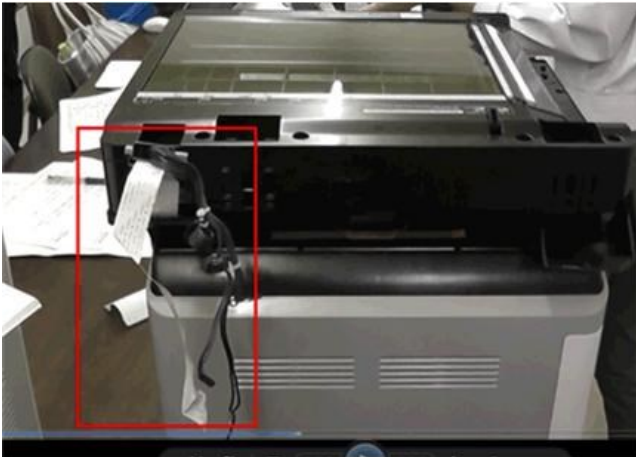
When Installing the Document Feeder

**New unit components**

The new DF unit has a harness connected to it, to connect the DF unit to the machine. Remove this harness, and connect the DF unit to the machine using the harness in the red frame that is already connected to the machine.



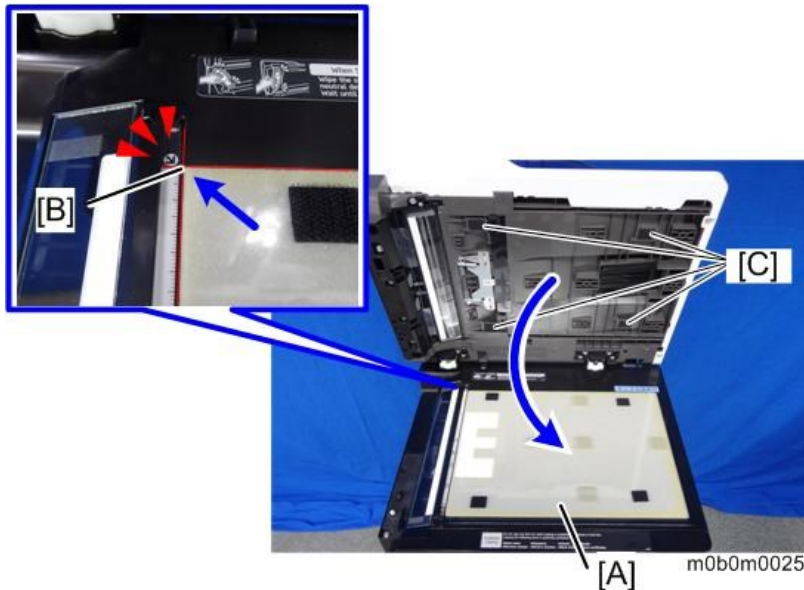
## 4.Replacement and Adjustment



m0b0m0351

### Platen sheet adjustment

1. Open the DF.
2. Place the platen sheet [A] on the exposure glass
3. Align the platen sheet with the hook-and-loop fasteners [C], with the rear left corner [B] on the exposure glass corner as a reference.



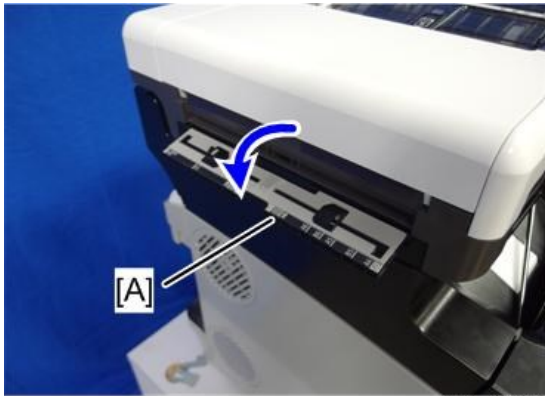
4. Close the DF gently.
5. Reopen the DF
6. Press the surface of the platen sheet gently to attach it firmly to the DF.

---

### CIS in the Document Feeder (Original Rear Side CIS)

---

1. Open the ID card tray [A].



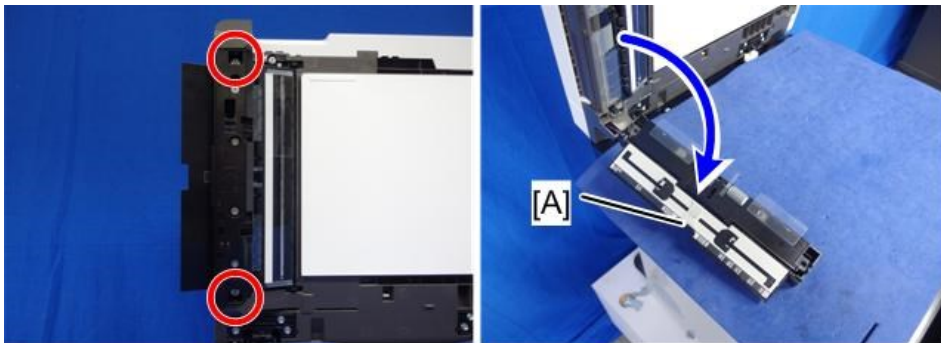
m0b0m0045

- 2.** Open the DF, and cover the exposure glass with a mat [A] or something to prevent it from being damaged.



m0b0m0046

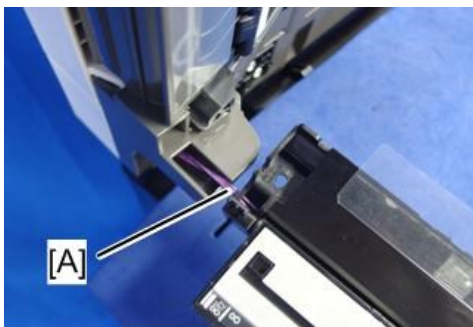
- 3.** Remove the two screws of the ID card feeder [A], and place it on the mat gently.



m0b0m0047

 x2

- 4.** The harness [A] of the ID card set sensor is connected, and so the ID card feeder itself cannot be removed.

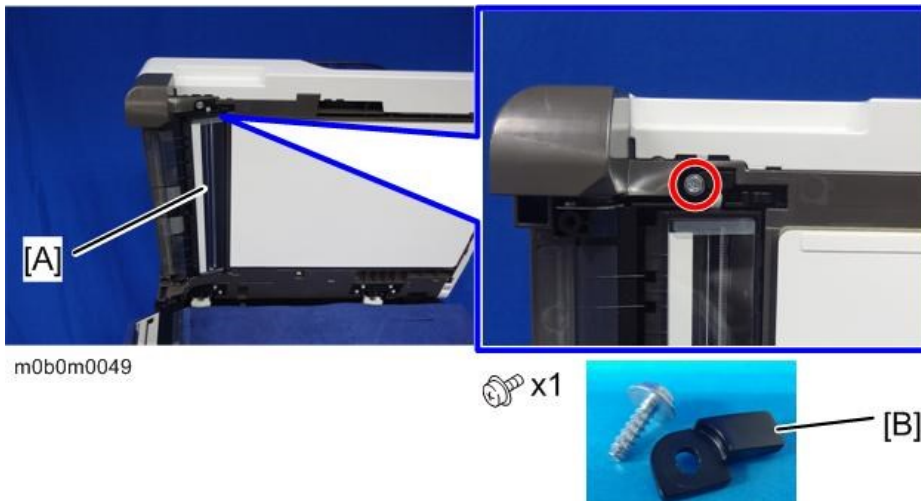


m0b0m0048

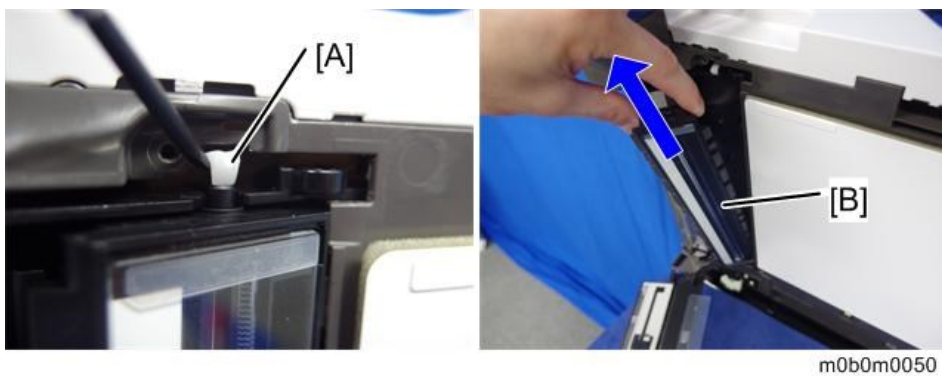


#### 4.Replacement and Adjustment

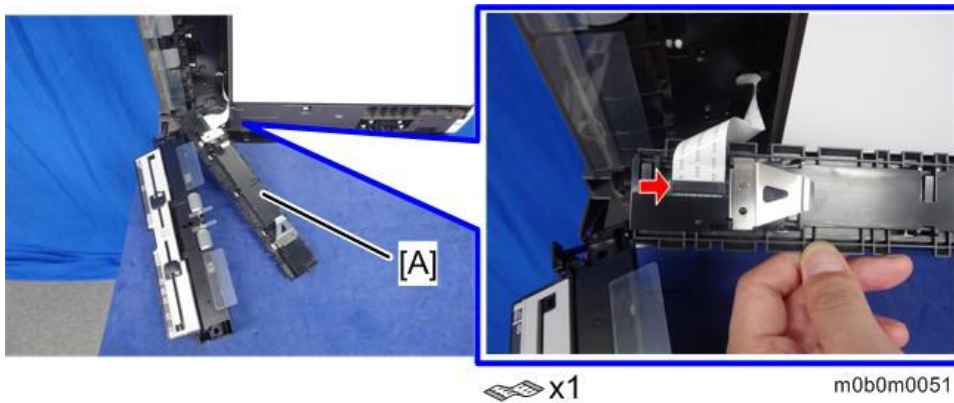
**5.** Remove the stopper [B] of the original rear side CIS [A].



**6.** Release the tab [A], and place the original rear side CIS [B] on the mat.

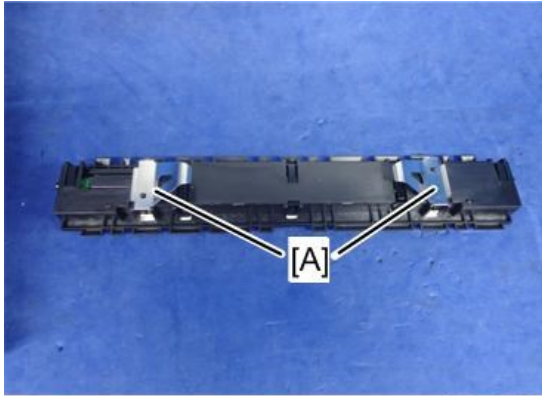


**7.** Disconnect the FFC, and remove the original rear side CIS [A].



#### ★ Important

- Make sure not to bend or deform the leaf springs [A]

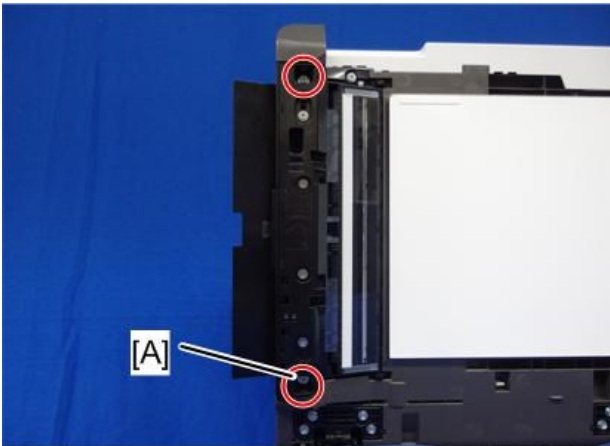


m0b0m0052

- 8.** After replacing, do the AGC adjustment for the original rear side CIS. ([AGC Adjustment for the Original Rear Side CIS](#))

**★ Important**

When attaching the ID card feeder, be sure to begin with the screw [A] at the bottom (rear).

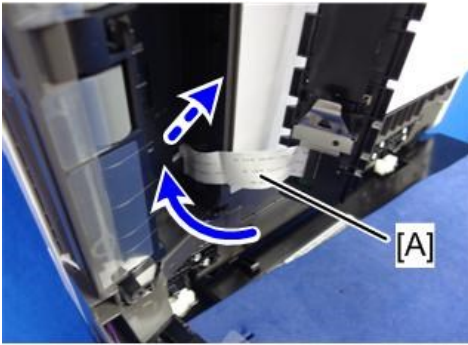


m0b0m0047b

When Installing the Original Rear Side CIS

When installing, store the FFC [A] inside the DF and make sure that the FFC is not loose before attaching the CIS.

## 4.Replacement and Adjustment



m0b0m0053

### Check the State of the FFC

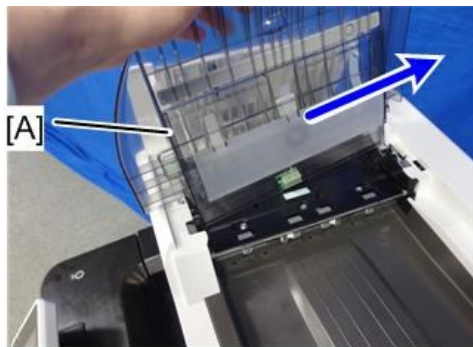
After installing, check that the FFC is not double-folded.

1. Open the top cover.
2. Lift the original tray up, and release the boss on the rear side of the original tray.



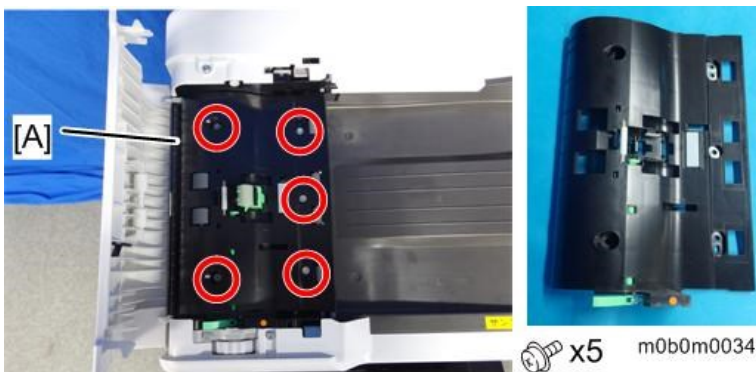
m0b0m0032

3. Remove the original tray [A].



m0b0m0033

4. Remove the DF inner cover [A].

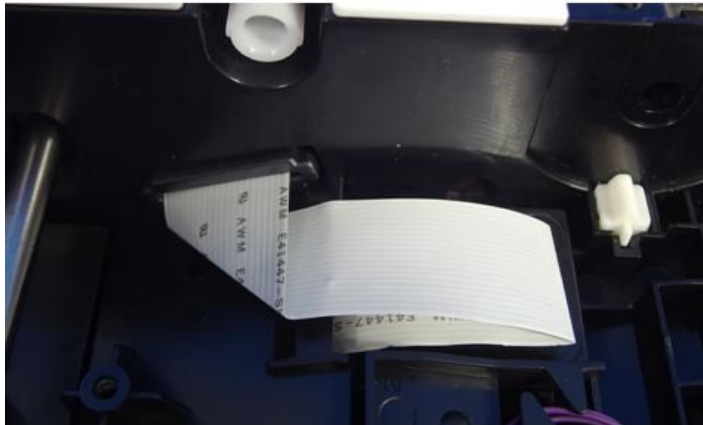


x5 m0b0m0034

**5.** After installing, check that the FFC is not double-folded as shown in the photo below.

[A]: Correct

[A]



m0b0m0036c

[B]: Incorrect

[B]



m0b0m0036d

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### AGC Adjustment for the Original Rear Side CIS

---

This adjustment must be implemented when replacing the DF unit and/or the original rear side CIS. AGC adjustment is implemented by scanning the white plate. During a DF scan, the white plate that is attached to the scanner is scanned, and so it cannot scan successfully when the DF is open or there is a gap between the DF and the scanner. As a result, it is no longer possible to make proper adjustments. Therefore, appropriate AGC adjustment values are saved to the SP on this machine when it is dispatched from the factory, and adjustments made later are compared to the SP values. If there is an abnormal value in SP4-691-003, this may cause a paper jam.

After replacing the DF unit and/or original rear side CIS, do the following procedure.

**1.** Check that the white plate is not stained with cosmetics or finger prints, etc.

#### 4.Replacement and Adjustment

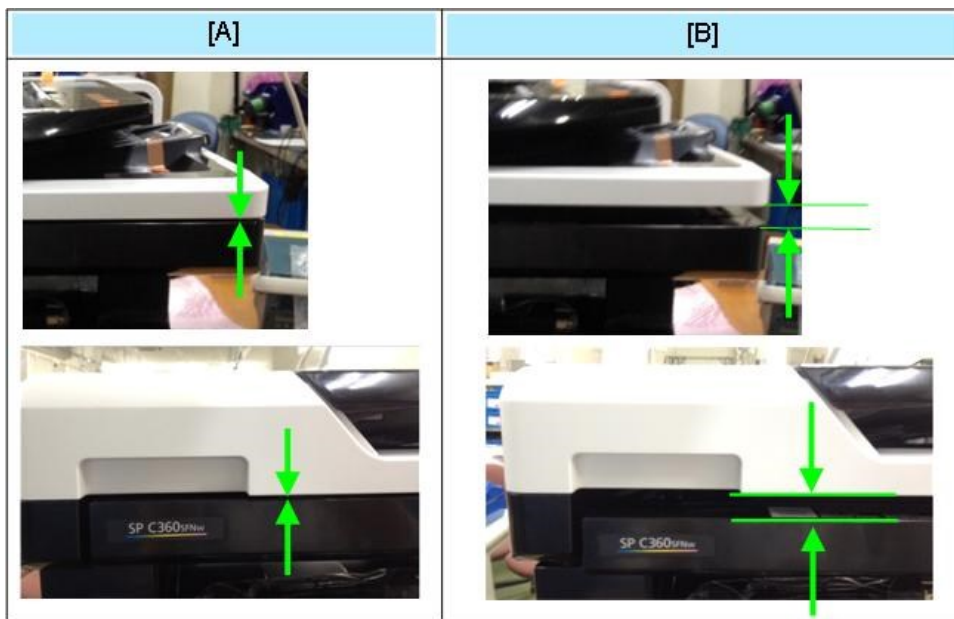
If it is dirty, clean the white plate with a dry cloth.

- 2.** Turn the power ON.
- 3.** Enter the SP mode.
- 4.** Press "System SP".
- 5.** Select SP4-602-001, and set it to "0".
- 6.** Select SP4-691-003, and set it to "0".
- 7.** Exit the SP mode.
- 8.** Check that the DF is firmly closed, and make a double-sided copy.

If it is closed or only open by 5 mm or less, it is acceptable.

Do not open the DF until scanning is finished.

[A]: Good, [B]: Not Good



m0b0m0107b

- 9.** Enter the SP mode again.
- 10.** Press "System SP".
- 11.** Check that SP4-602-001 is set to "1".

The SP will be set to "0" if the AGC does not finish successfully (for example, if the DF is open when implementing AGC, etc.). Resolve the problem, and then make a double-sided copy again.

#### Execution result for SP4-602-001

Value	Descriptions
0	The DF is open or the CIS is defective. A jam alert is displayed until the second time. If detected for the third time, SC is displayed.
1	Successful
2 or 3	There is a gap between the DF and the scanner, and so the adjustment result is an abnormal value.

- 12.** Make sure that the adjustment value of the AGC is reflected in SP4-691-003.

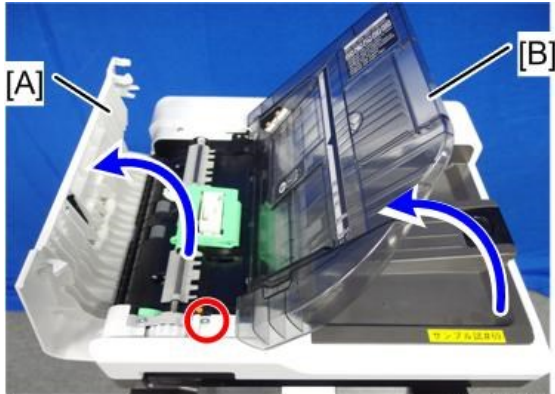


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DF Front Cover

---

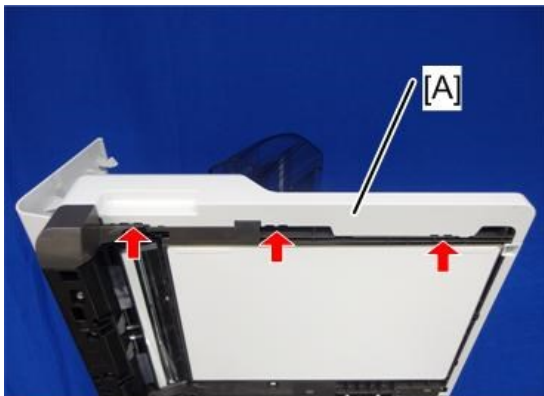
1. Open the top cover [A] and lift up the original tray [B], then remove the screw of the front cover.



x1

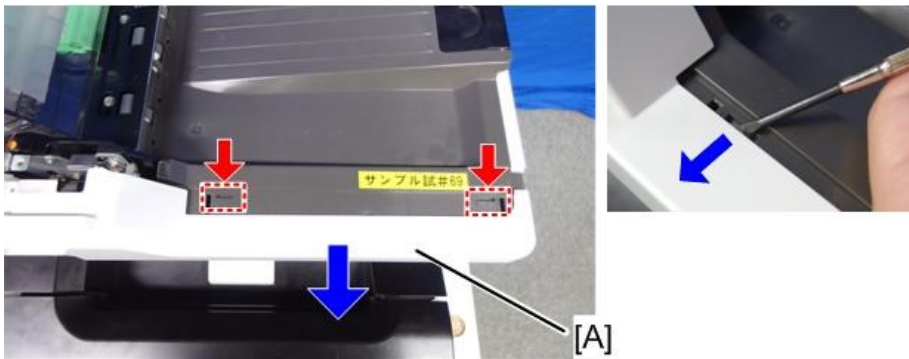
m0b0m0026

2. Open the DF, then release the three tabs of the DF front cover [A].



m0b0m0027

3. Close the DF slightly, then remove the DF cover [A] by releasing the two tabs with a thin screwdriver.



m0b0m0028

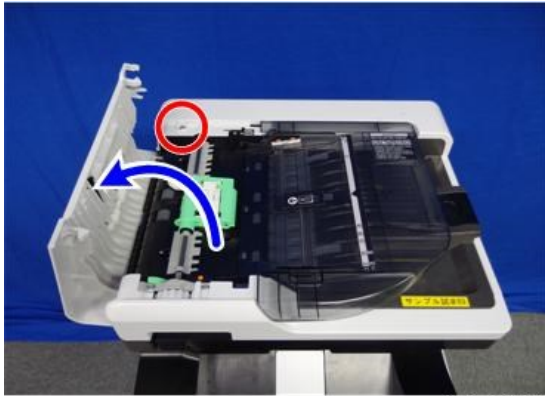
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DF Rear Cover

---

1. Open the top cover, and remove the screw of the rear cover.

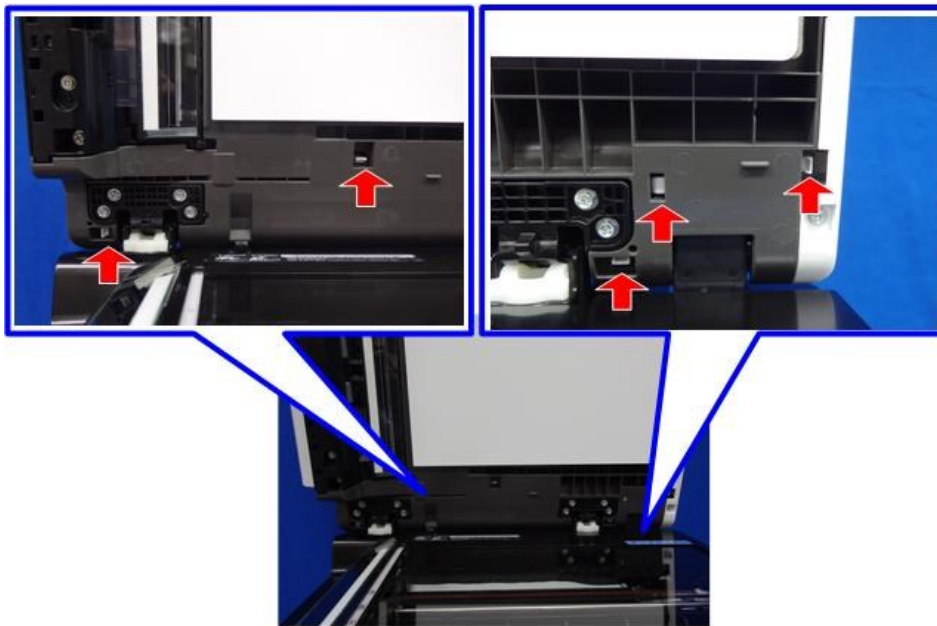
## 4.Replacement and Adjustment



x1

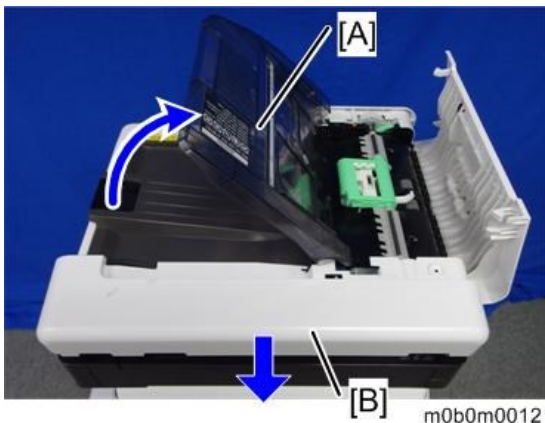
m0b0m0010

2. Open the DF, and release the five tabs of the DF rear cover with a thin screwdriver.



m0b0m0011

3. Lift the original tray [A] up, and remove the rear cover [B]



m0b0m0012

---

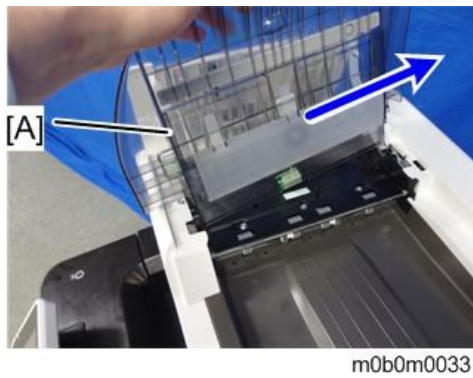
### Original Tray

---

1. Open the top cover.
2. Lift the original tray up, and release the boss on the rear side of the original tray.



- 3.** Remove the original tray [A].

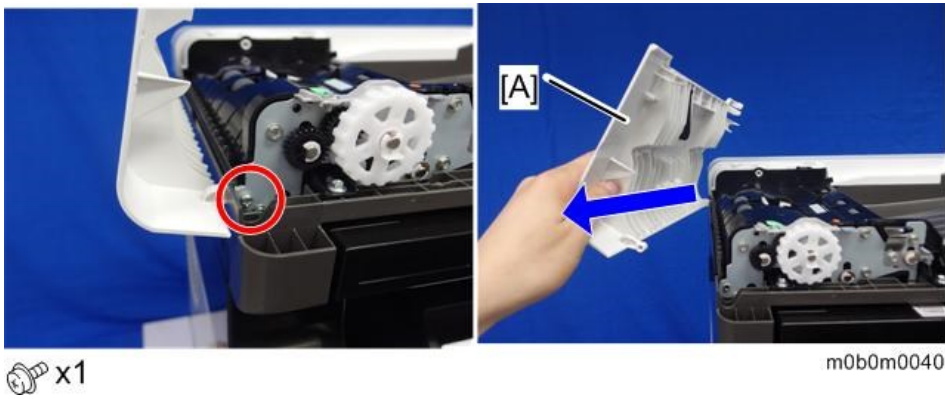


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### Top Cover

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- 1.** Remove the DF front cover. (DF Front Cover)  
**2.** Remove the top cover [A].



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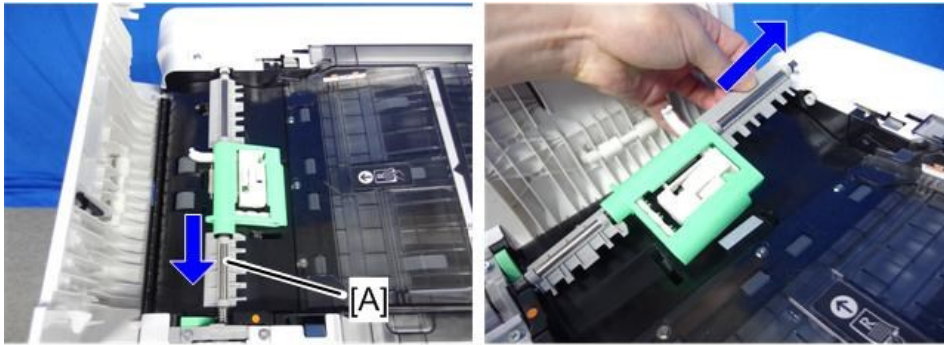
### Original Feed Unit

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- 1.** Open the DF top cover.

## 4.Replacement and Adjustment

2. Slide the shaft [A] of the original feed unit towards the front of the machine to remove it.

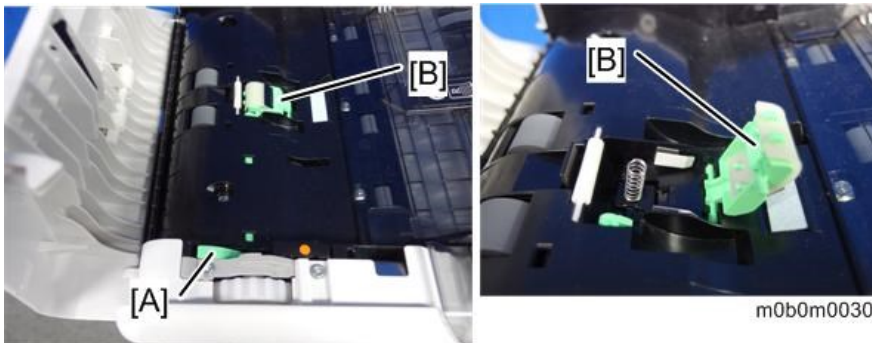


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### DF Friction Pad

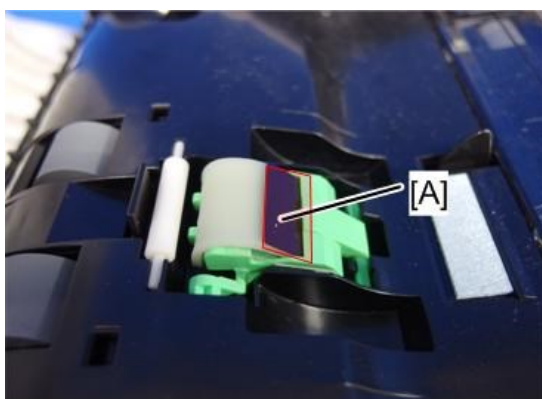
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1. Remove the original feed unit. ([Original Feed Unit](#))
2. Push the lever [A], and remove the DF friction pad [B].



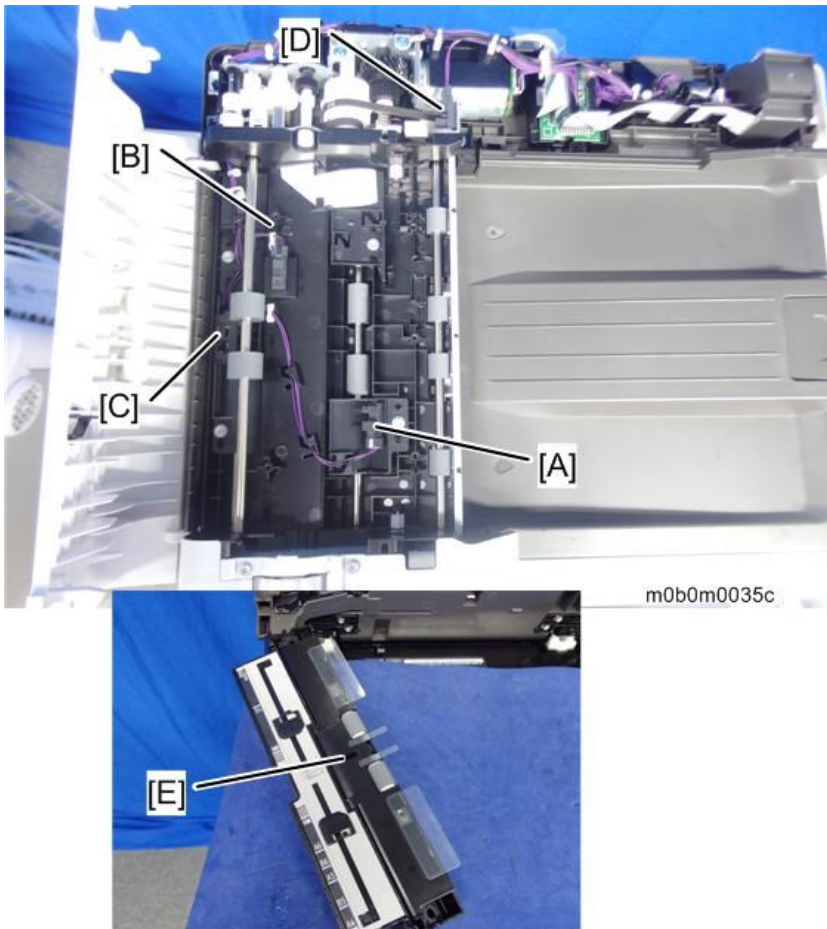
#### ↓ Note

- When installing the DF friction pad, hold the mylar [A] with your fingers. Do not touch the rubber part.





## Sensors



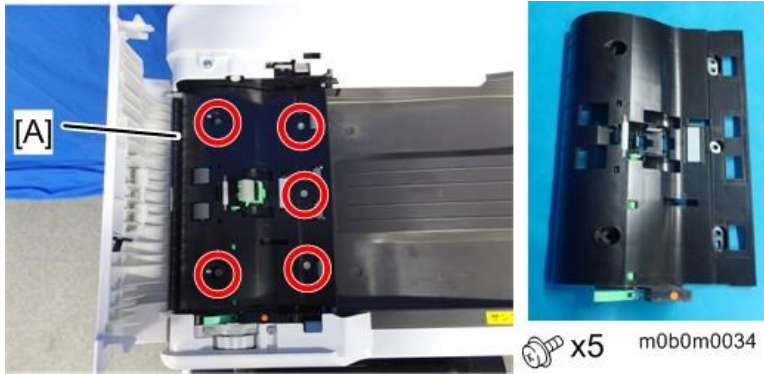
[A]	Original Set Sensor	[D]	Top Cover Set Sensor
[B]	DF Feed Sensor	[E]	ID Card Set Sensor
[C]	Registration Sensor		

## DF Feed Sensor

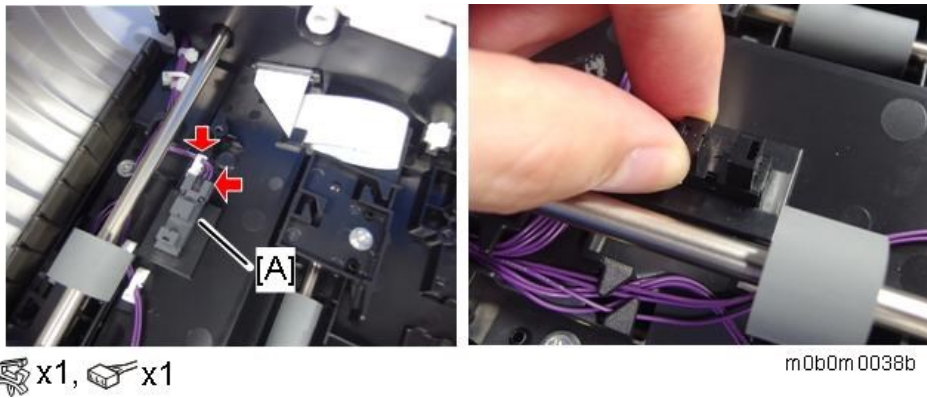
- 1.** Open the top cover.
- 2.** Remove the original tray. ([Original Tray](#))
- 3.** Remove the original feed unit. ([Original Feed Unit](#))
- 4.** Remove the DF inner cover [A].



## 4.Replacement and Adjustment



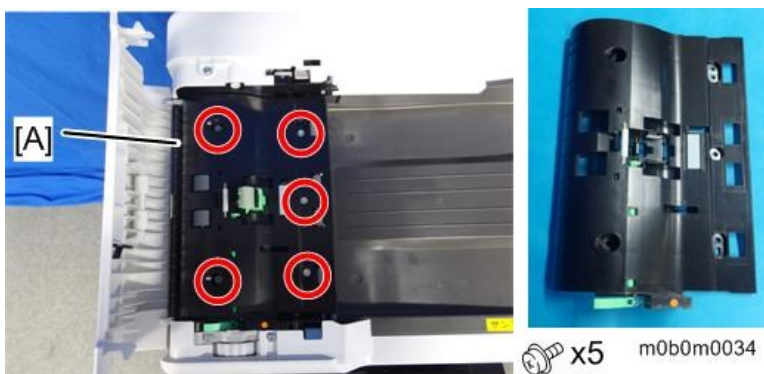
- 5.** Remove the DF feed sensor [A].



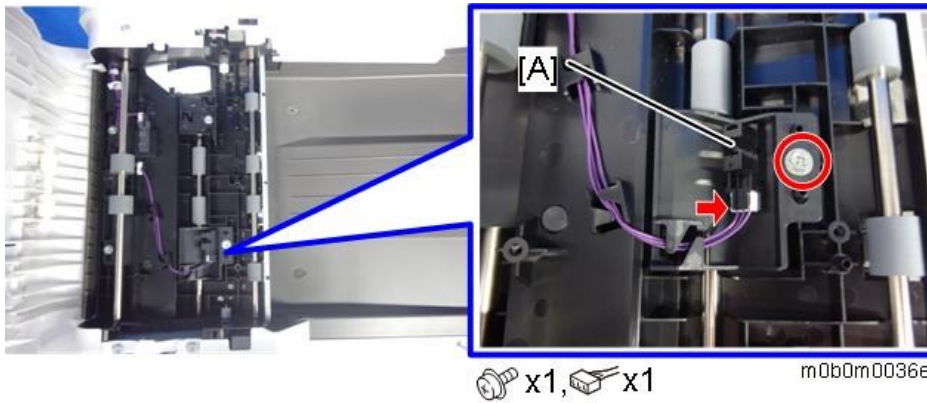
## Original Set Sensor

---

- 1.** Open the top cover.
- 2.** Remove the original tray. (Original Tray)
- 3.** Remove the original feed unit. (Original Feed Unit)
- 4.** Remove the DF inner cover [A].

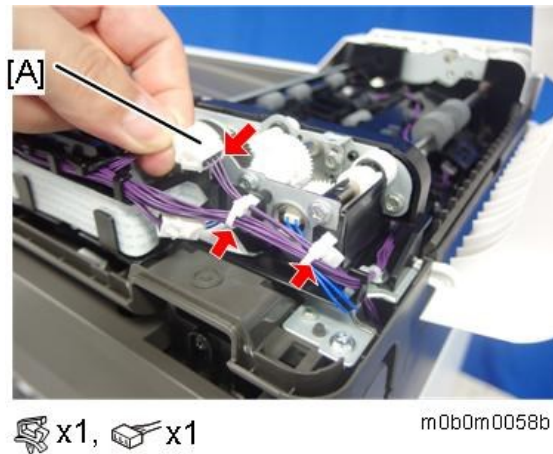


- 5.** Remove the original set sensor [A].

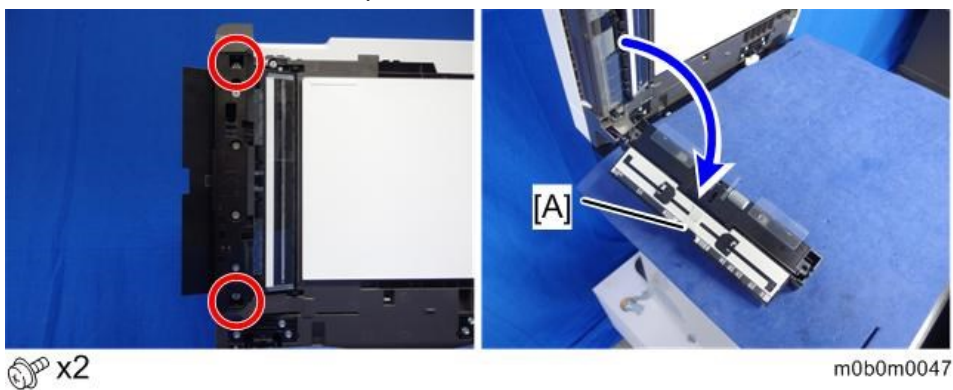


### ID Card Set Sensor

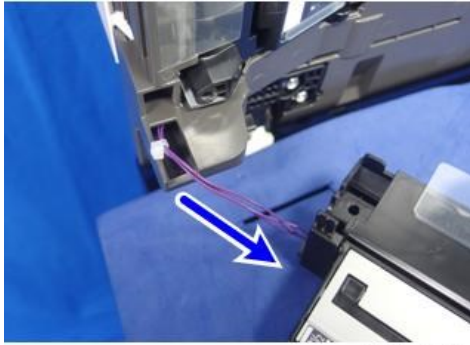
- 1.** Remove the DF rear cover. (*DF Rear Cover*)  
**2.** Disconnect the connector [A].



- 3.** Remove the two screws and pull the harness out, then remove the ID card feeder [A].

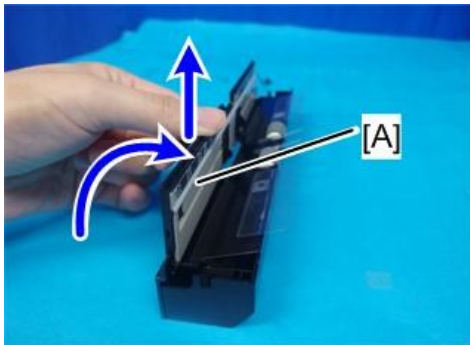


#### 4.Replacement and Adjustment



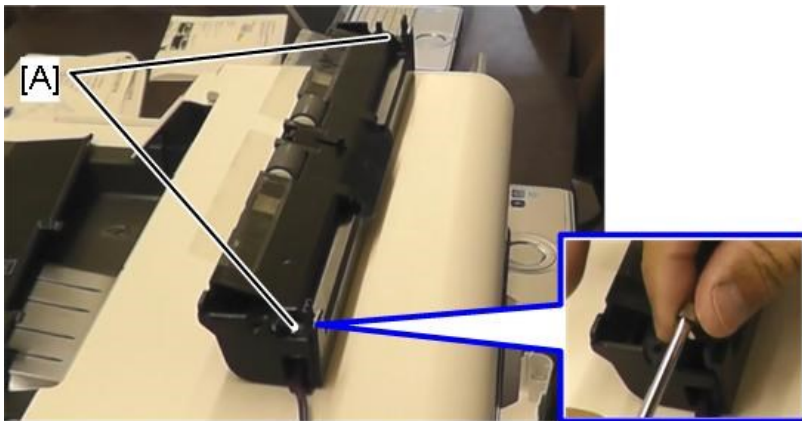
m0b0m0059

- 4.** Remove the ID card tray [A].



m0b0m0060

- 5.** Remove the two leaf springs.



m0b0m0063b

6. Turn over the feeder, and then remove the cover [A].

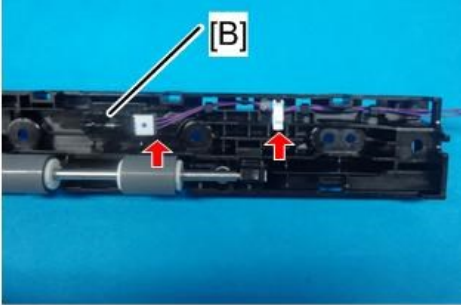
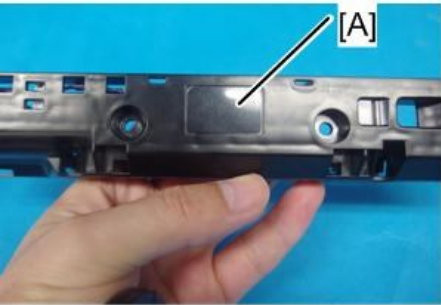




 x4



m0b0m0061

7. Peel off the mylar [A], then remove the IC card set sensor [B].



 x1,  x1



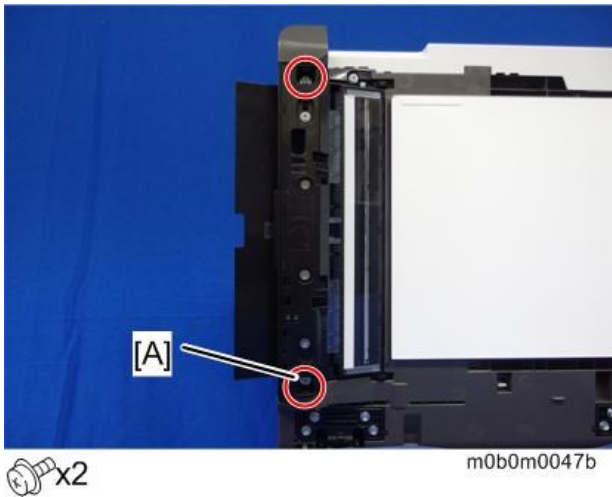
m0b0m0062

**Note**

When attaching the ID card feeder, be sure to begin with the screw [A] at the bottom (rear).

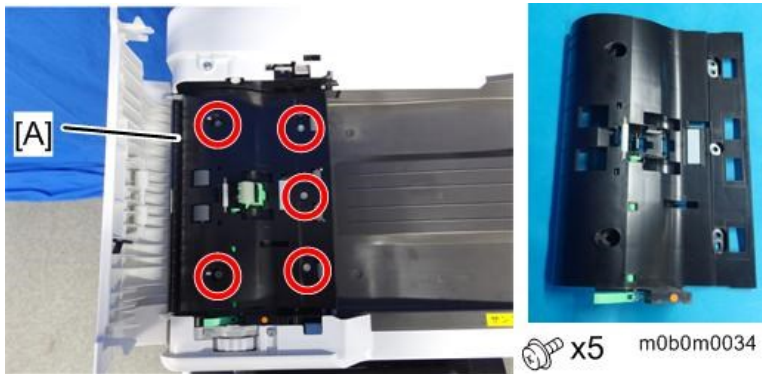


## 4.Replacement and Adjustment

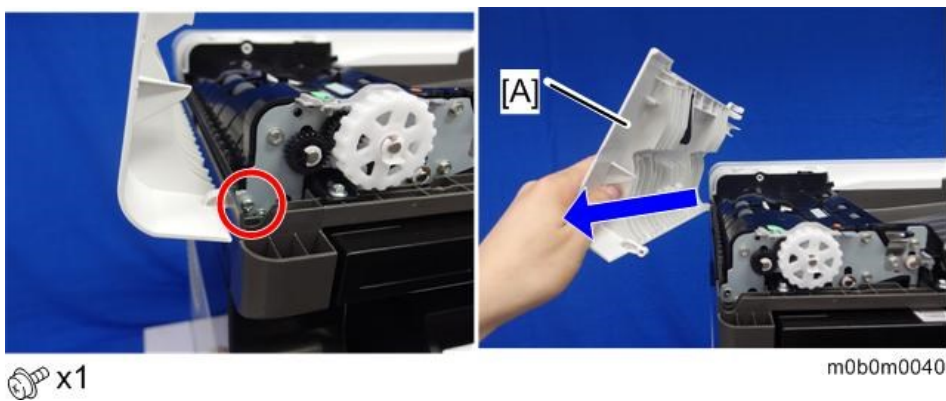


### Registration Sensor

1. Remove the original tray. ([Original Tray](#))
2. Remove the original feed unit. ([Original Feed Unit](#))
3. Remove the DF inner cover [A].



4. Remove the top cover [A].

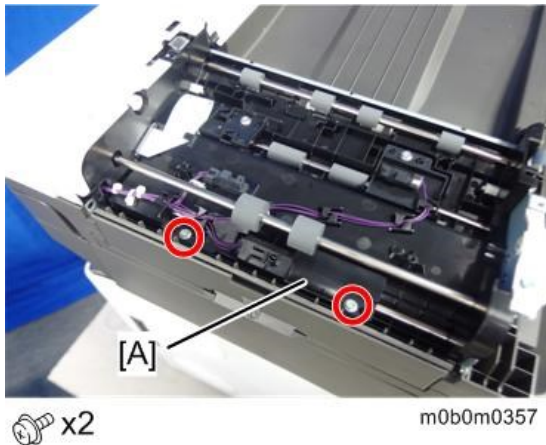


5. Remove the two screws of the registration sensor bracket [A].

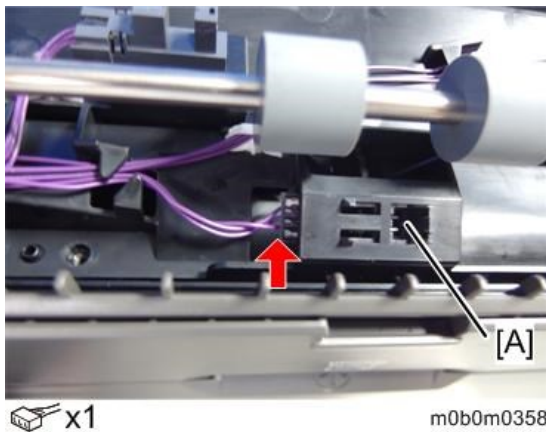


## 4.Replacement and Adjustment

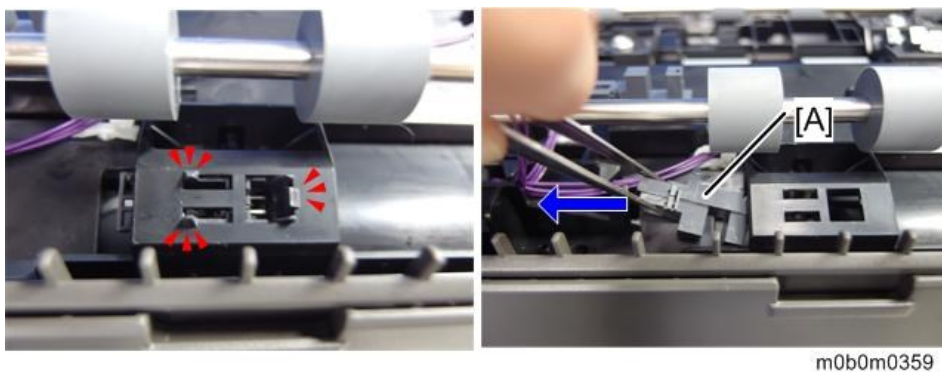
The bracket cannot be removed from the DF unit, because doing so interferes with the paper transfer roller. However, remove the screws to make space for removing the registration sensor.



- 6.** Remove the connector of the registration sensor [A].



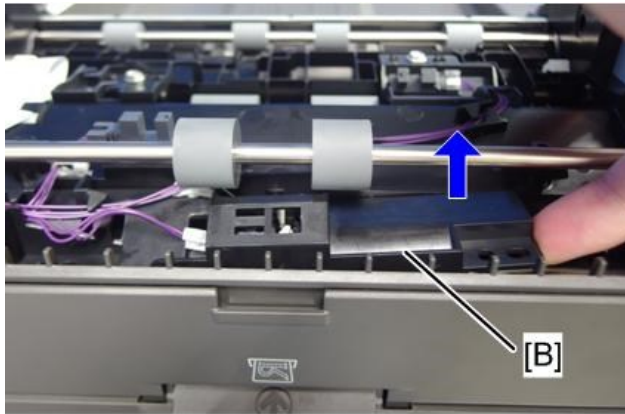
- 7.** Disengage the hooks, and then, using tweezers, rotate the registration sensor [A] into a sideways position (as shown) and pull it out.



- 8.** To pull the registration sensor out, it is recommended to slightly lift the bracket with the fingers to

#### 4.Replacement and Adjustment

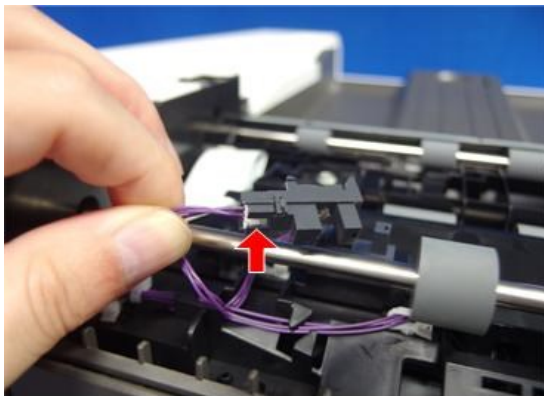
make space.



m0b0m0360

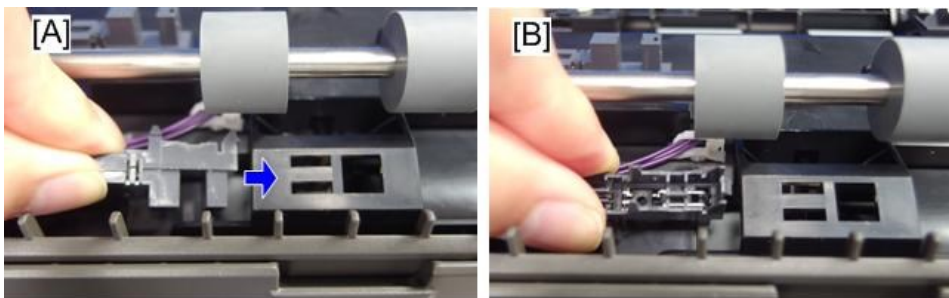
#### Attaching the Registration Sensor and Adjusting it after Replacement

1. Attach the connector to the registration sensor before attaching the registration sensor to the bracket.



m0b0m0361

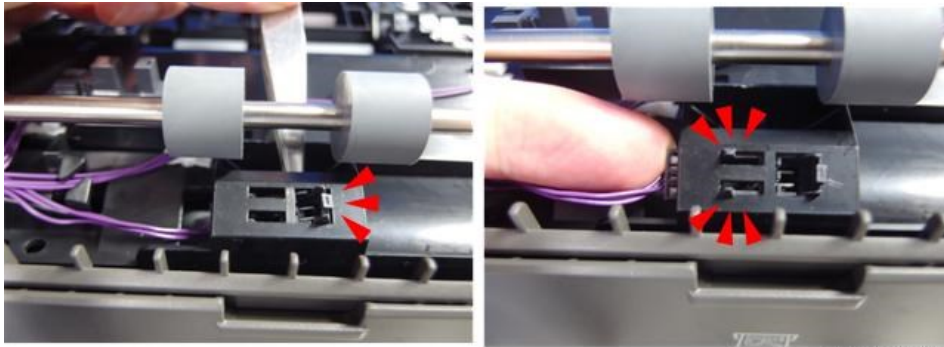
2. Insert the registration sensor sideways [A] into the bracket. Otherwise, it cannot be inserted [B].



m0b0m0362

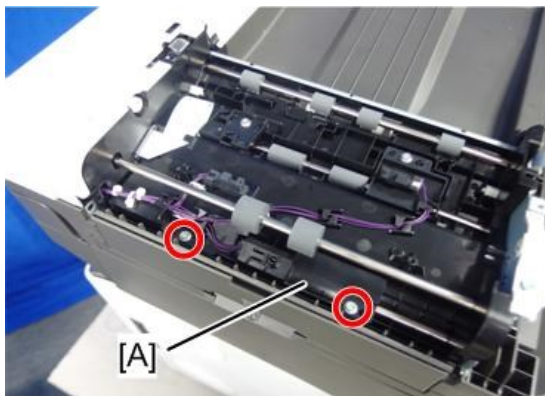
3. Lifting the registration sensor with tweezers, engage the right hook.

- 4.** Lifting the connector with a finger, engage the left hook.



m0b0m0363

- 5.** Screw the bracket [A] on.



 x2

m0b0m0357

**Note**

Be careful not to tighten the screws too much. Doing so may deform the bracket.

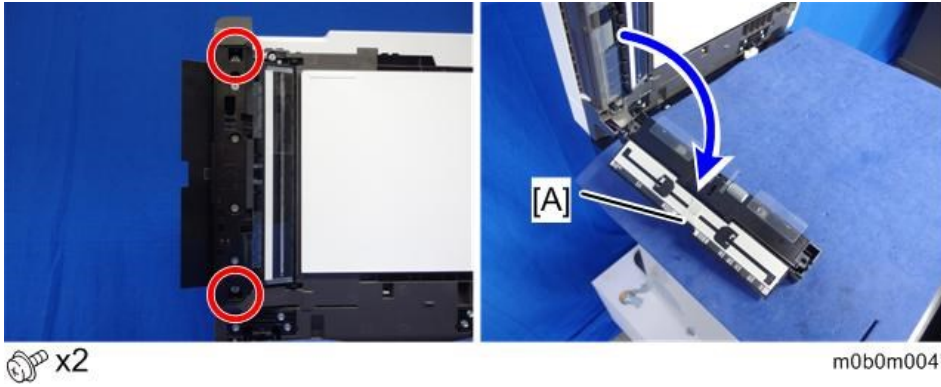
- 6.** Reattach the removed parts.  
**7.** Open the DF, and cover the exposure glass with a mat [A] or something to prevent it from being damaged.



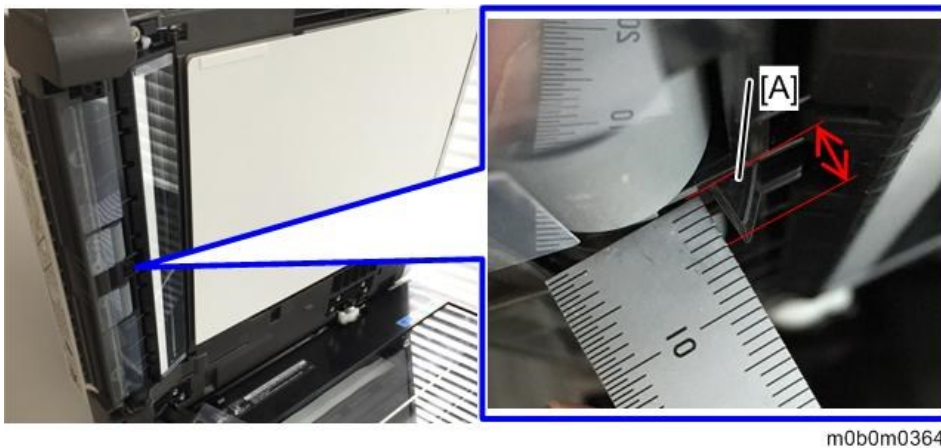
m0b0m0046

- 8.** Remove the two screws of the ID card feeder [A], and place it on the mat gently.

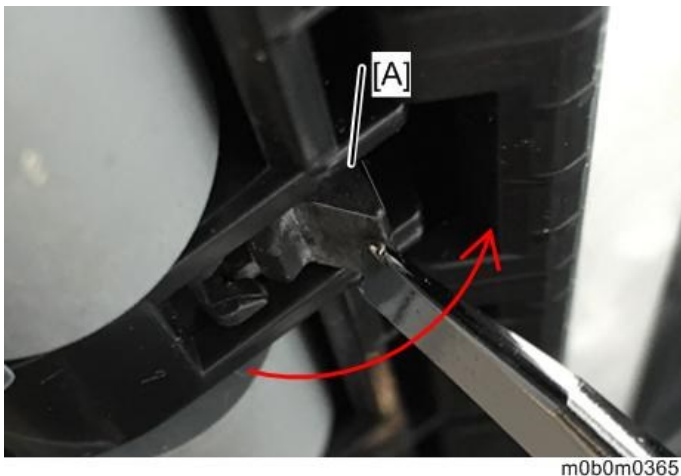
#### 4.Replacement and Adjustment



- 9.** Check the degree of protrusion of the registration sensor (the position of its tip) with a ruler. If it is within 4 to 5 mm, the sensor is correctly attached. If not, the registration sensor bracket may be attached (screwed on) incorrectly, so reattach the bracket.



- 10.** Check the movement of the registration sensor's actuator. Rotate it in the direction of the arrow. If it moves without getting snagged, it is attached correctly. If it gets snagged or does not move, the registration sensor bracket may be attached (screwed on) incorrectly, so reattach the bracket.

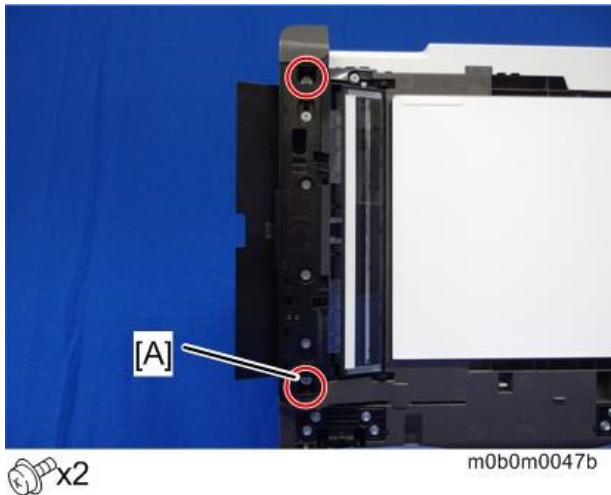


- 11.** After checking the actuator movement, return the ID card feeder to its original position.

**Note**

When attaching the ID card feeder, be sure to begin with the screw [A] at the bottom (rear).





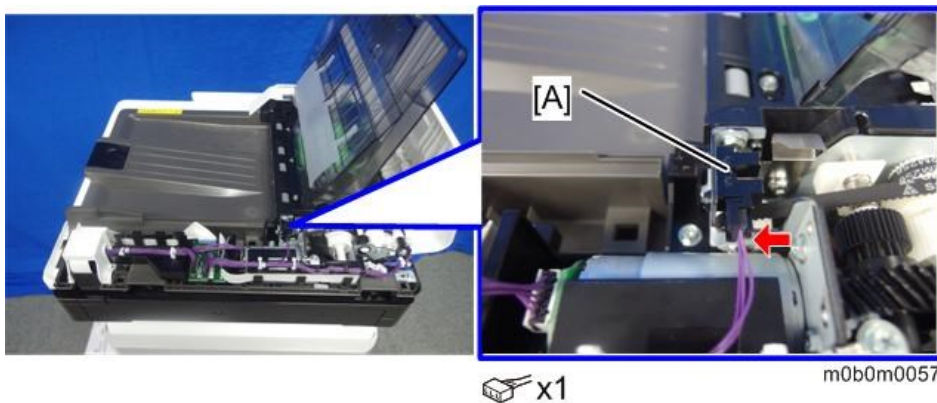
**12.** Scan a document to check for vertical registration errors. If there is a registration error, adjust using the following SPs.

- SP6-006-010 (ADF Adjustment L-EdgeResist: Front)
- SP6-006-011 (ADF Adjustment L-EdgeResist: Back)
- SP6-006-012 (ADF Adjustment Manual Feed L-EdgeResist: Front)
- SP6-006-013 (ADF Adjustment Manual Feed L-EdgeResist: Back)

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#### Top Cover Set Sensor

- 1.** Remove the DF rear cover. ([DF Rear Cover](#))
- 2.** Remove the top cover set sensor [A].



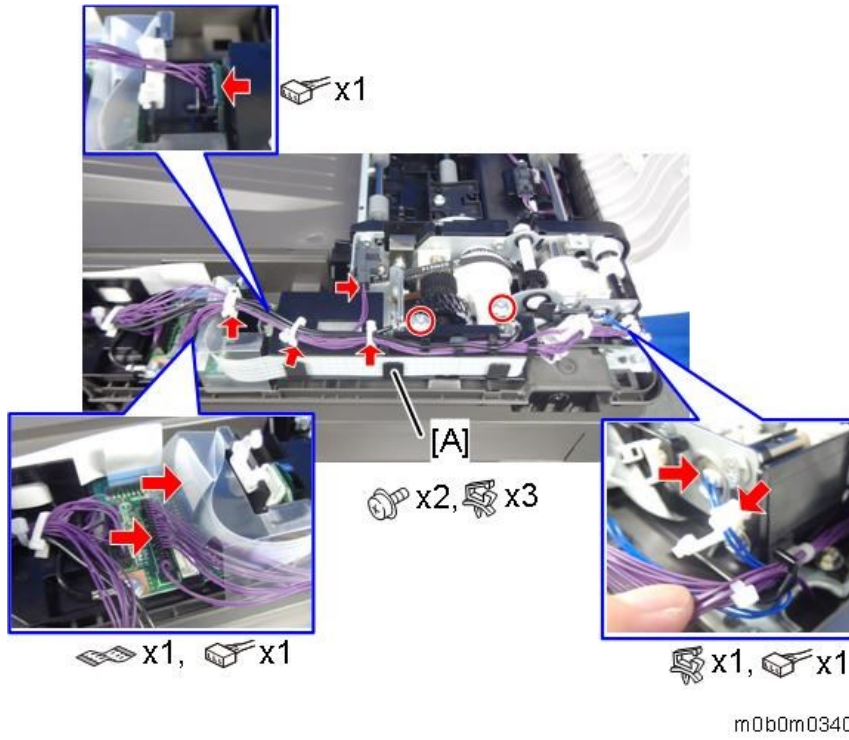

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#### DF Drive Motor

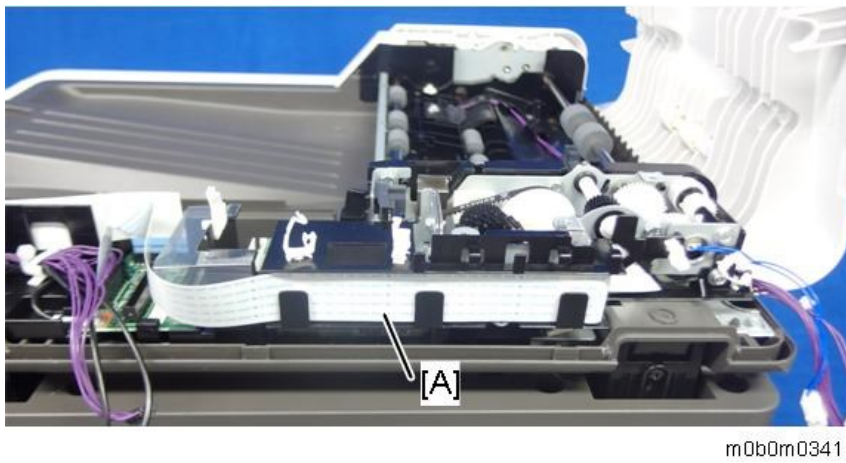
- 1.** Remove the DF rear cover. ([DF Rear Cover](#))
- 2.** Remove all the harnesses routed along the left harness guide [A]



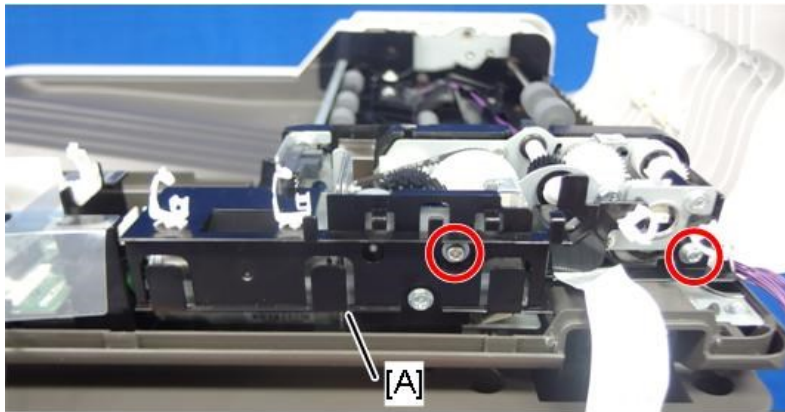
#### 4.Replacement and Adjustment



#### 3. Remove the FFC [A] from the left harness guide



**4.** Remove the left harness guide [A]

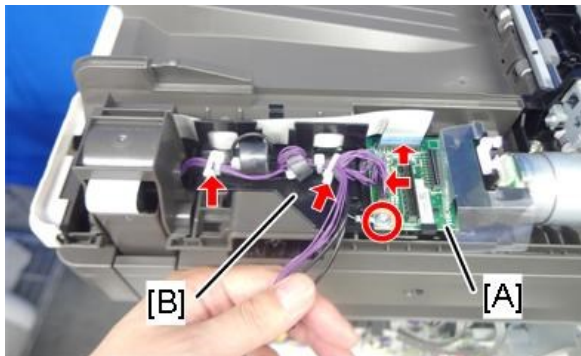


 x2



m0b0m0342

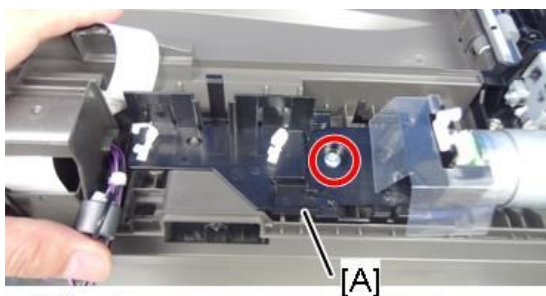
**5.** Remove the DF relay board [A] and then remove all the harnesses and the FFC routed along the right harness guide [B].




 x1,  x2,  x1,  x1

m0b0m0343

**6.** Remove the right harness guide [A]



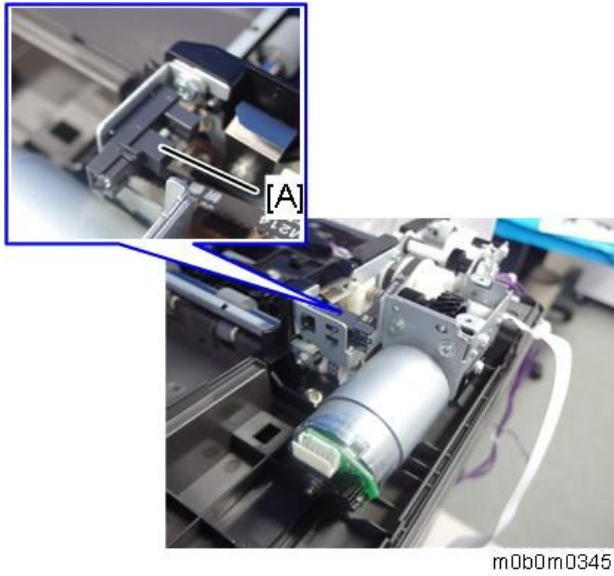
 x1



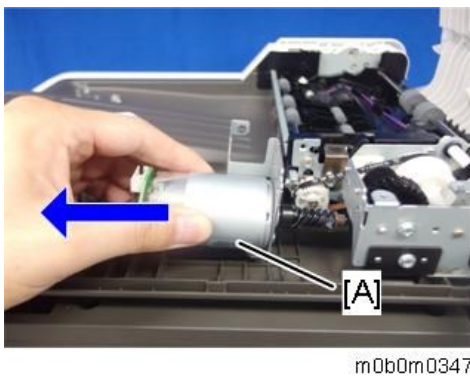
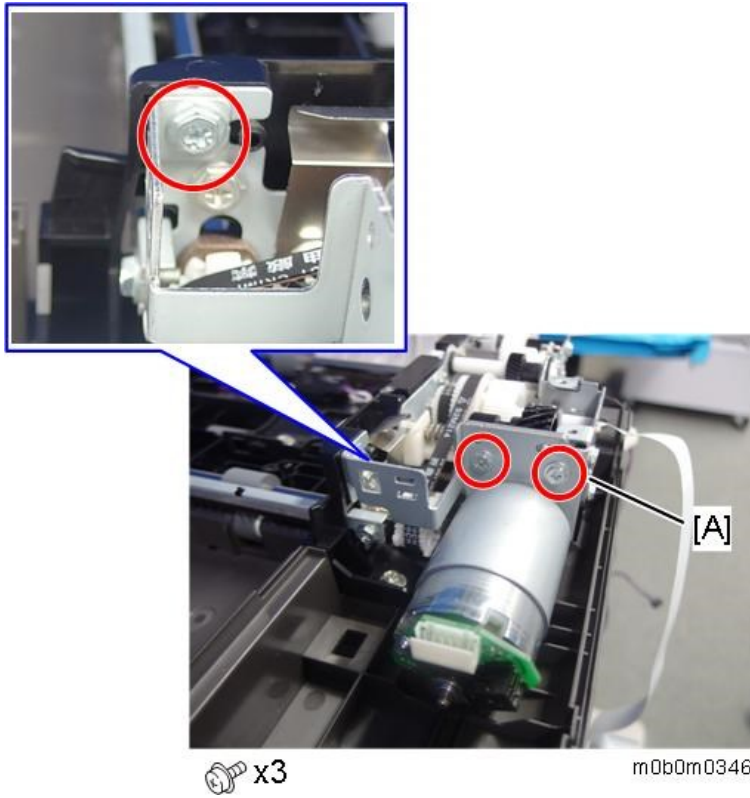
m0b0m0344

#### 4.Replacement and Adjustment

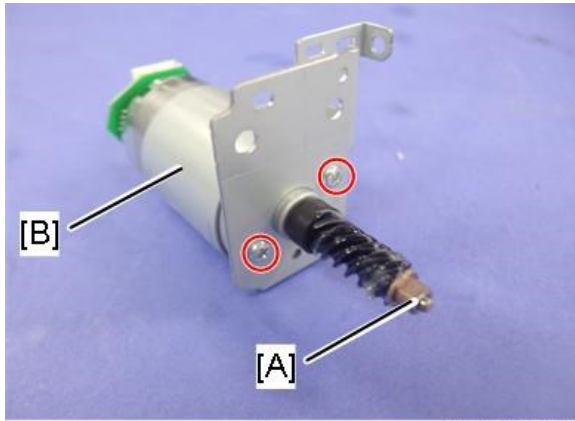
- 7.** Remove the DF top cover set sensor [A].



- 8.** Remove the DF drive motor with bracket [A]



- 9.** Remove the bearing [A], then remove the DF drive motor [B].



 x2

m0b0m0348

- 10.** When replacing the new motor, apply grease (Molykote) as shown in the photo below.



m0b0m0348

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## DF Relay Board

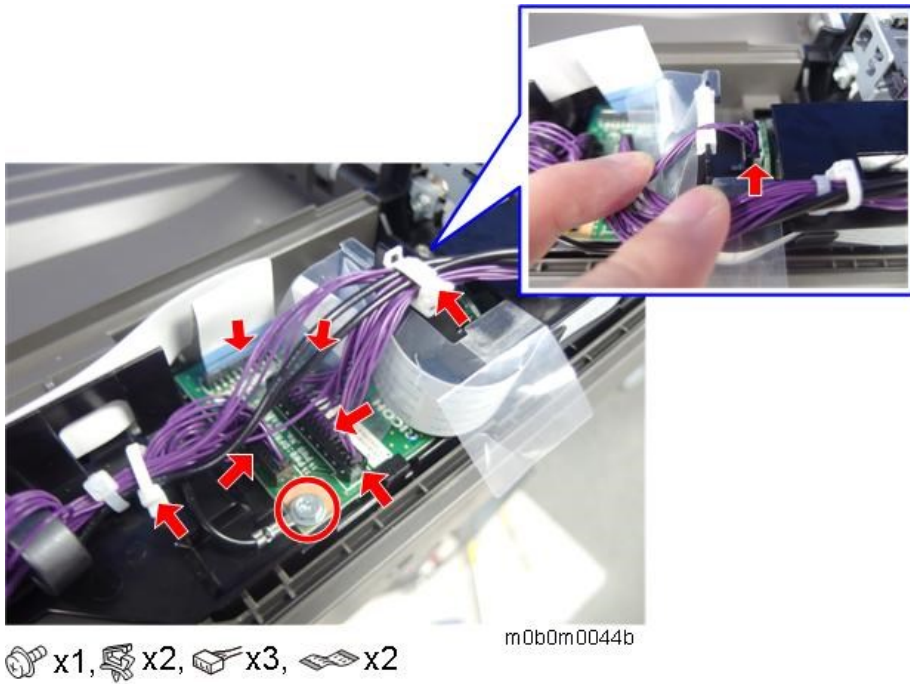
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- 1.** Remove the DF rear cover. ([DF Rear Cover](#))



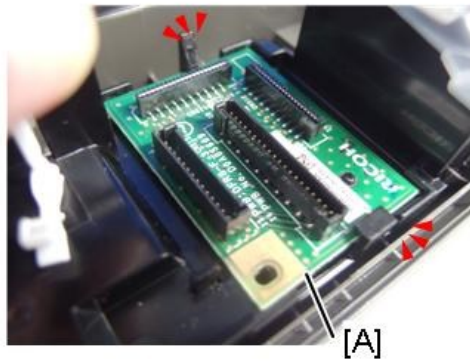
## 4.Replacement and Adjustment

2. Disconnect the two FFCs and harnesses, and remove the DF relay board [A].



 x1,  x2,  x3,  x2

m0b0m0044b



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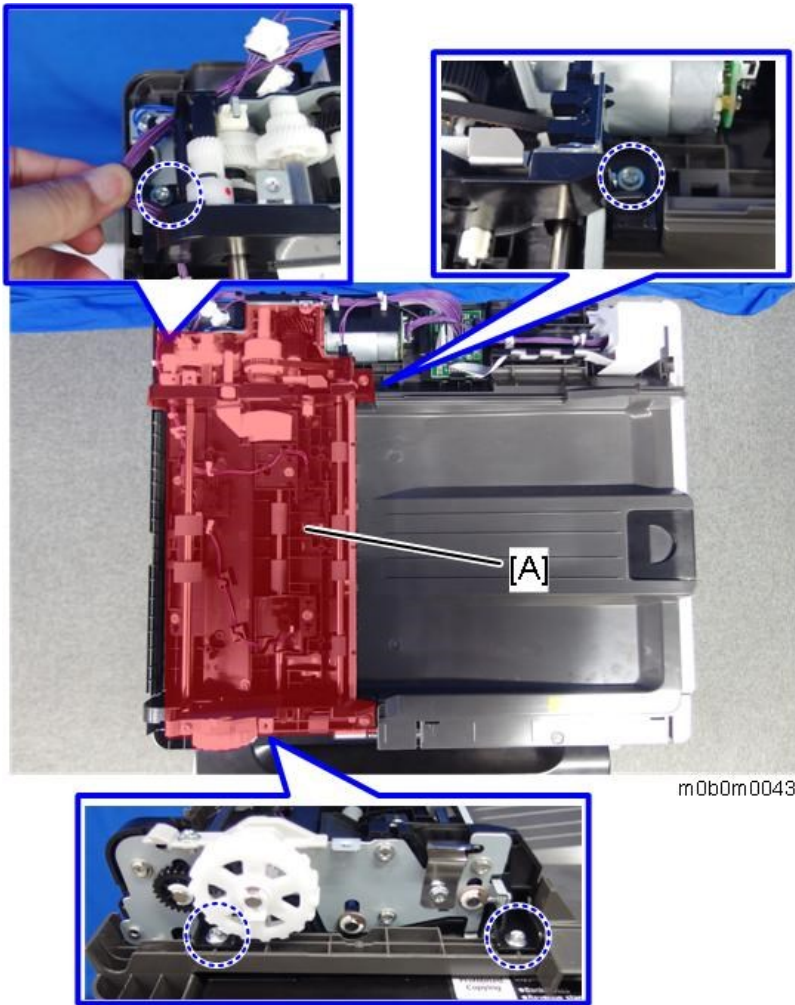
### Parts That Must Not Be Removed

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The drive unit [A] is attached to the base unit by 4 screws. You must not unscrew or loosen these screws.



## 4.Replacement and Adjustment

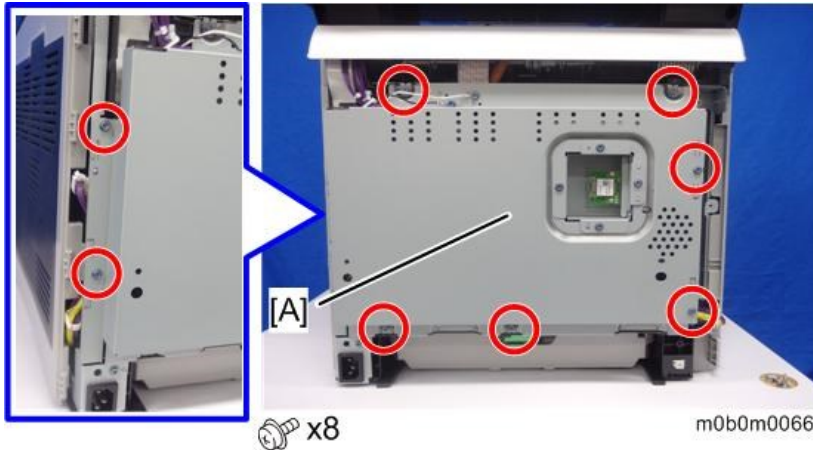


As the base unit is made of plastic, applying a strong force may cause the base to distort. At the factory, the drive unit is attached with a special tool to prevent the base being distorted. Attaching the base outside the factory poses a great risk of distorting the base, making it impossible to ensure accurate transfer.

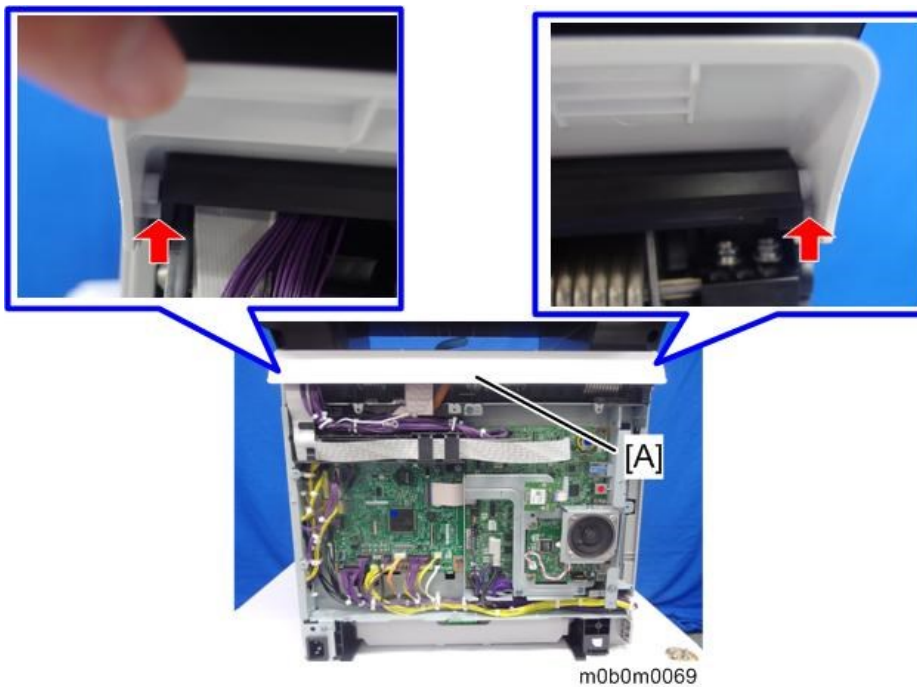
## Scanner (Only for MF Models)

### Scanner Unit

1. Remove the DF unit from the machine. ([Document Feeder](#))
2. Remove the rear cover. ([MF Models](#))
3. Remove the controller box cover [A].



4. Grip both ends of the rear top cover [A], and lift it off its hinges.

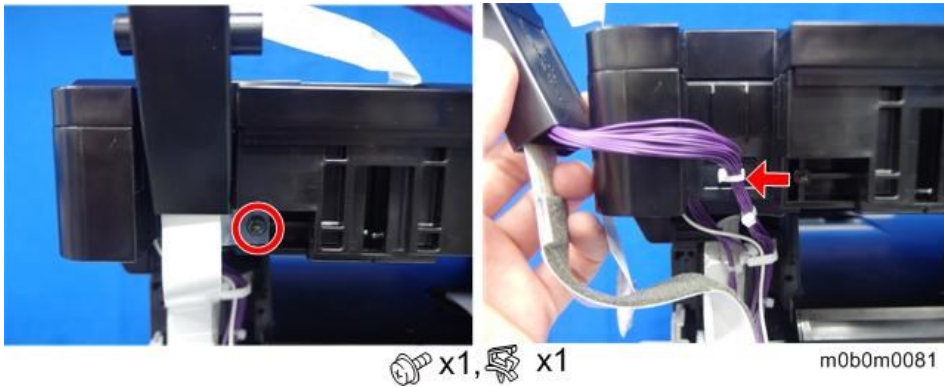


5. Open the rear top cover [A], and then remove it by lifting it up.

## 4.Replacement and Adjustment



- 6.** Remove the screw holding the FFC on the scanner, and then release the harness.



- 7.** Release the entire harness on the main unit.



- 8.** Remove the two screws on the right of the scanner unit [A].

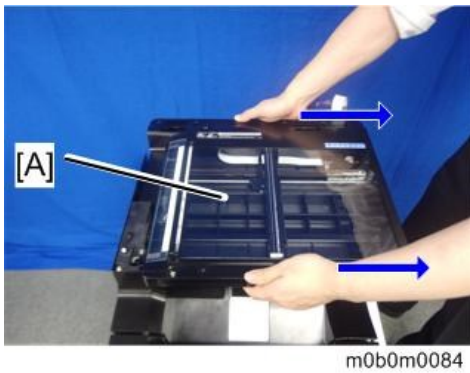


- 9.** Remove the screw on the left of the scanner unit.

#### 4.Replacement and Adjustment



**10.** Slide the scanner unit [A] to the right and then remove it.



**Note**

- When attaching the scanner unit, first attach the screws [A] removed in Step 8, then attach the



screw [B] removed in Step 9.

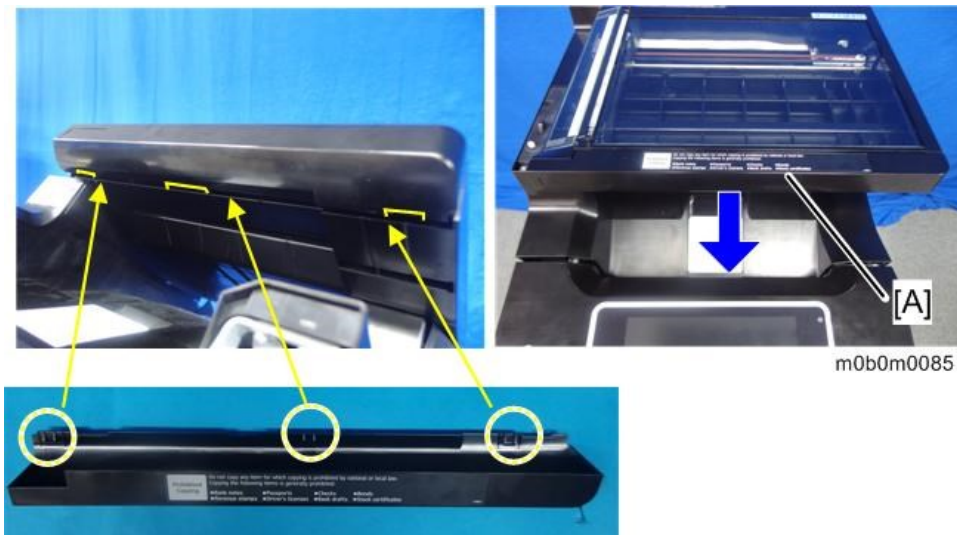


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### Scanner Front Cover

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1. Release the three tabs at the bottom of the scanner top cover, then remove the scanner front cover [A].





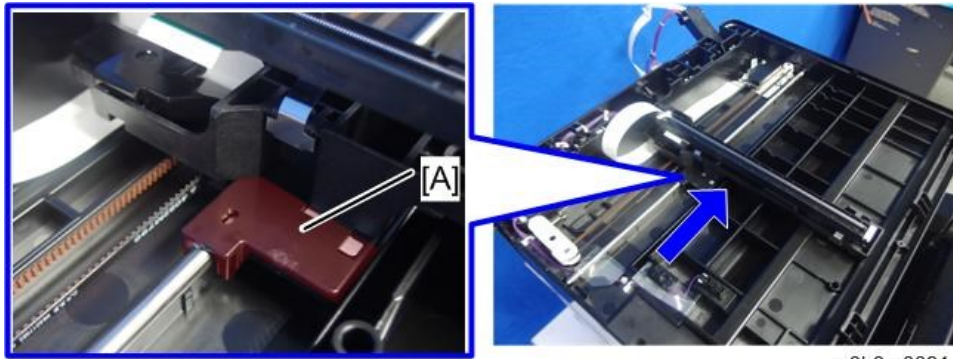
## 4.Replacement and Adjustment

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### CIS in the Scanner (Original Front Side CIS)

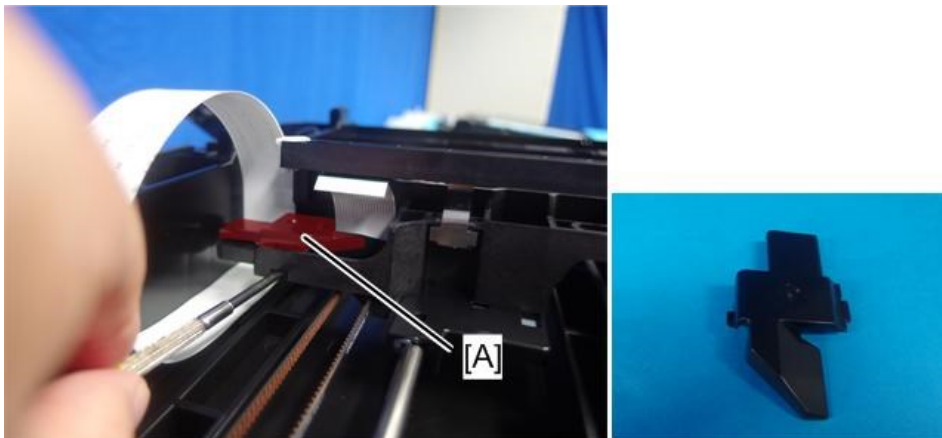
---

1. Remove the DF unit. ([Document Feeder](#))
2. Remove the scanner top cover. ([Scanner Top Cover \(Left Scale, Top Scale, Exposure Glass, Sheet-through Glass\)](#))
3. Move the carriage to the center.  
When moving the carriage, hold the guide rod bushing [A] to move it.



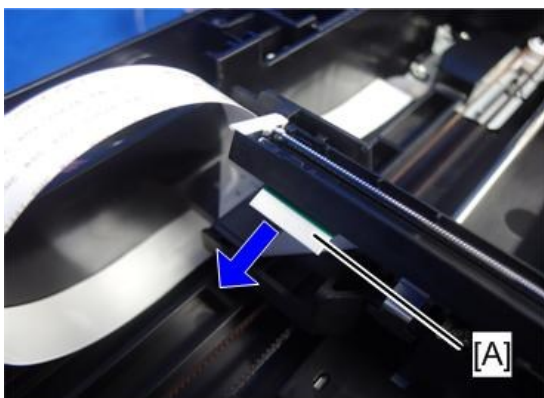
m0b0m0091

4. Remove the FFC holder [A].



m0b0m0092

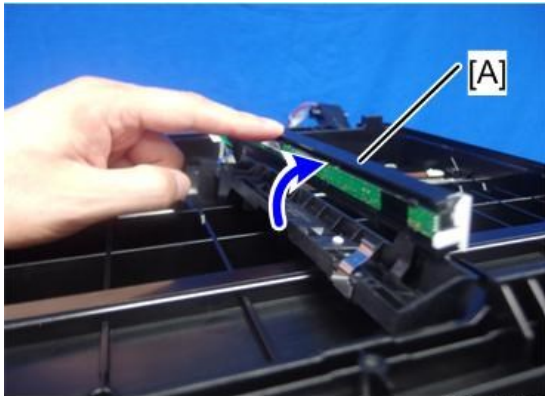
5. Remove the FFC [A].



 x1

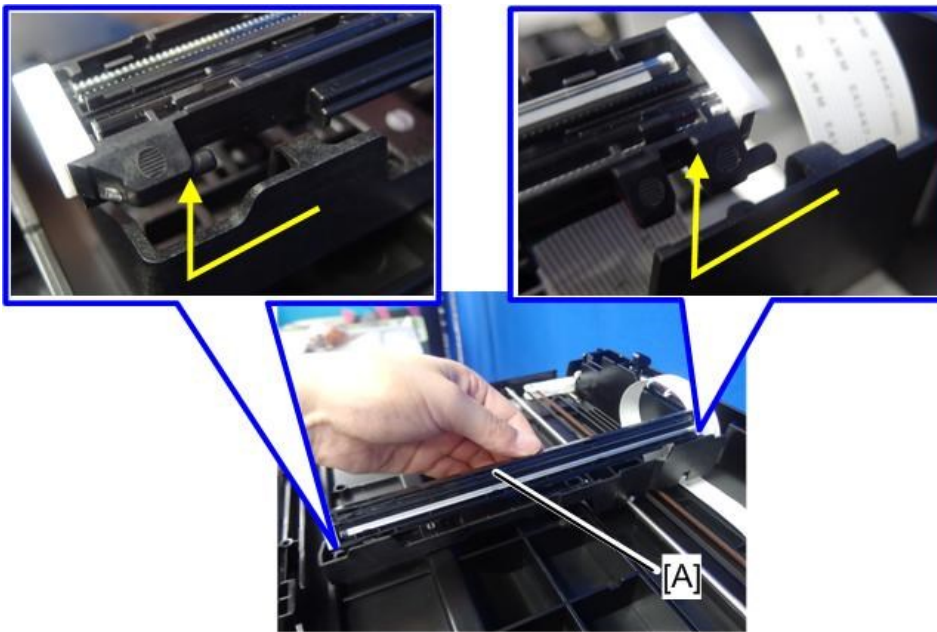
m0b0m0093

- 6.** Lift up the CIS unit [A] as shown in the photo below.



m0b0m0093

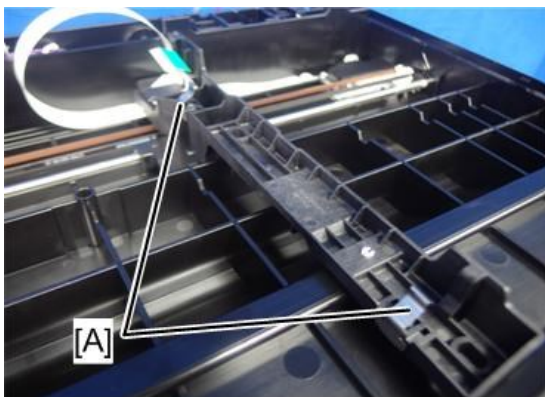
- 7.** Remove the hinge with the CIS unit lifted up, and then remove the CIS unit [A].



m0b0m0095

**Note**

Make sure not to bend the leaf springs [A] attached to the carriage.



m0b0m0096

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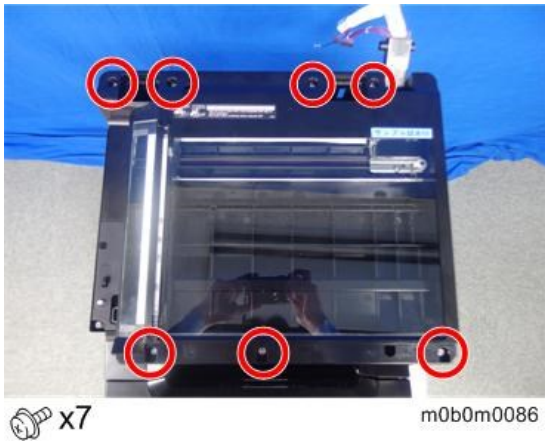
Scanner Top Cover (Left Scale, Top Scale, Exposure Glass, Sheet-through Glass)

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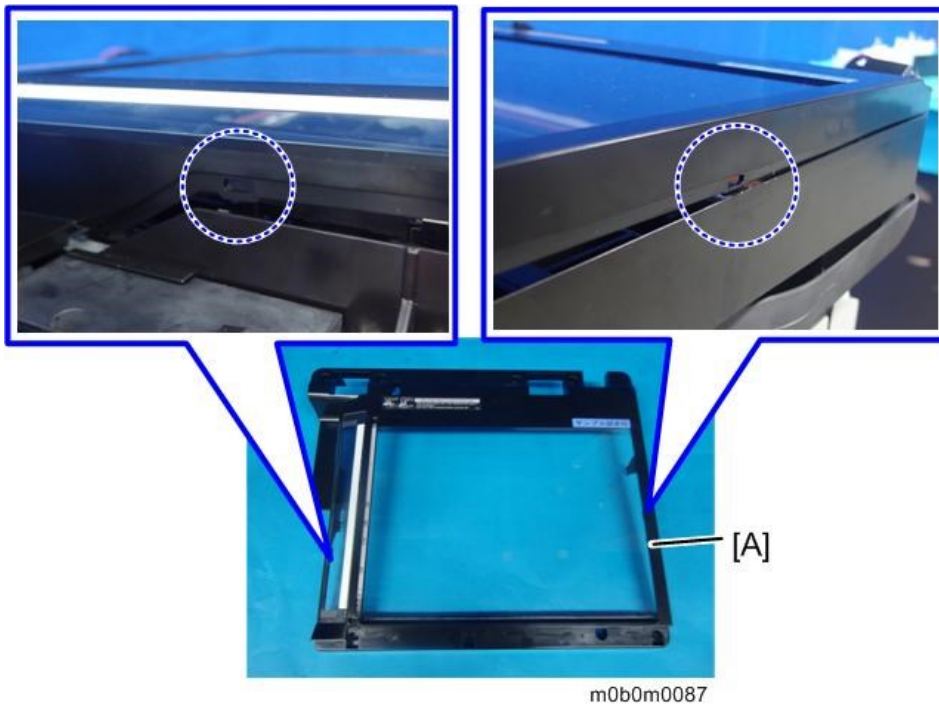
- 1.** Remove the scanner front cover. ([Scanner Front Cover](#))

#### 4.Replacement and Adjustment

**2.** Remove the seven screws.



**3.** There are 2 hooks, 1 on the left and 1 on the right. Disconnect the hook on the right side, and the left side, and then remove the scanner top cover [A].



#### ★ Important

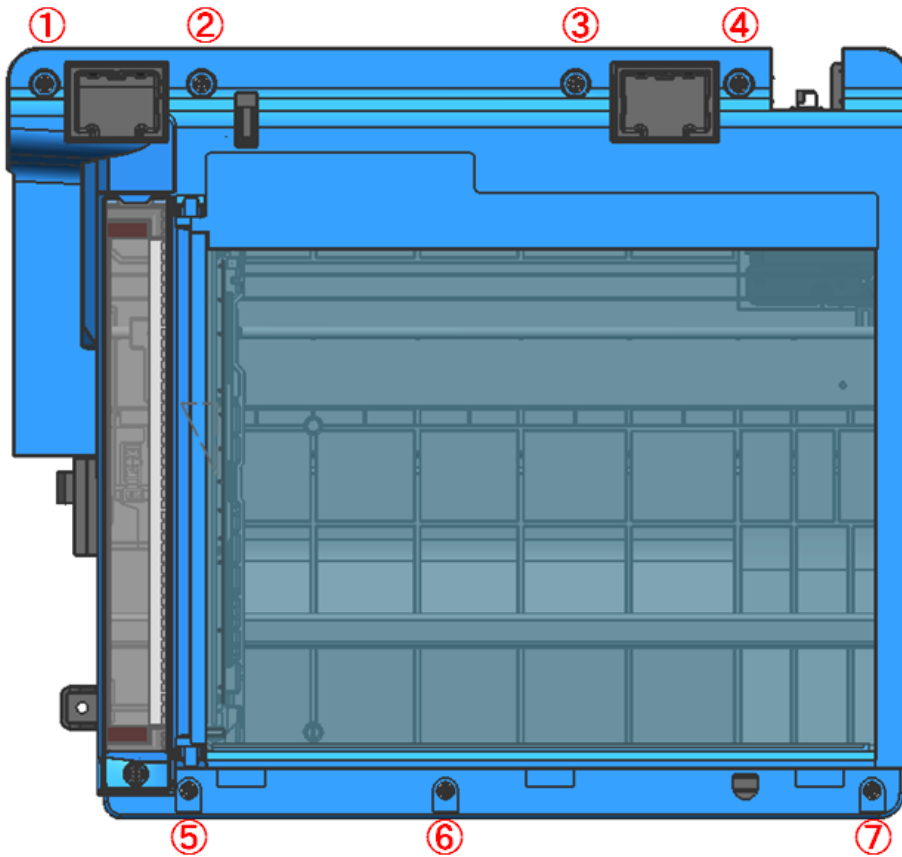
Do not make the glass surface dirty with cosmetics or finger prints.

#### Notes on Attaching the Scanner Top Cover

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When attaching the scanner top cover, tighten the screws in the order shown below.

Tightening the screws in a different order may result in problems such as skewing, the original positioning guide not being square, and the exterior covers not being flush with one another.



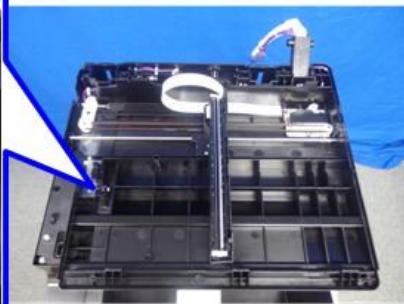
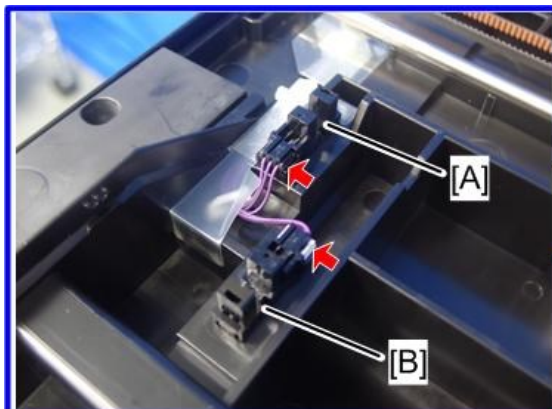
m0b0m2001

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### Scanner HP Sensor, DF Scanning Position Sensor

---

- 1.** Remove the DF unit. ([Document Feeder](#))
- 2.** Remove the scanner top cover. ([Scanner Top Cover \(Left Scale, Top Scale, Exposure Glass, Sheet-through Glass\)](#))
- 3.** Remove the DF scanning position sensor [A].
- 4.** Remove the scanner HP sensor [B].



m0b0m0087

 x2



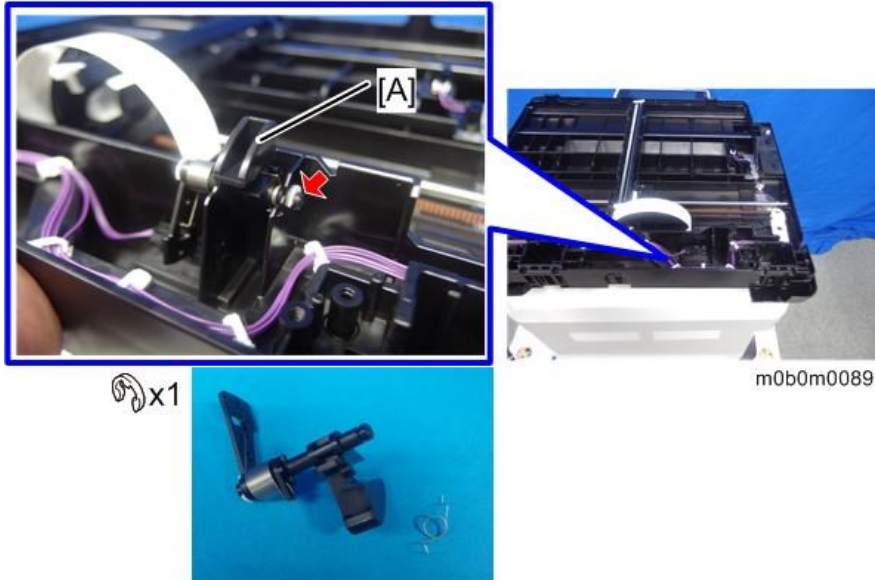
## 4.Replacement and Adjustment

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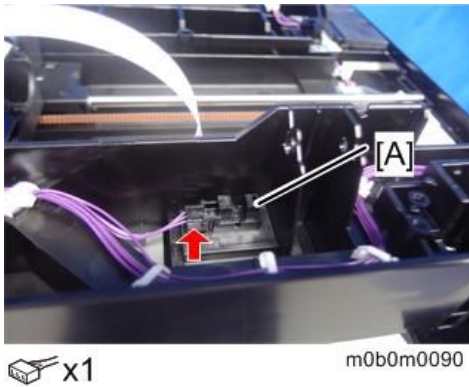
### DF Set Sensor

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1. Remove the DF unit. ([Document Feeder](#))
2. Remove the scanner top cover. ([Scanner Top Cover \(Left Scale, Top Scale, Exposure Glass, Sheet-through Glass\)](#))
3. Remove the feeler [A].



4. Remove the DF set sensor [A].



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### Scanner Drive Motor

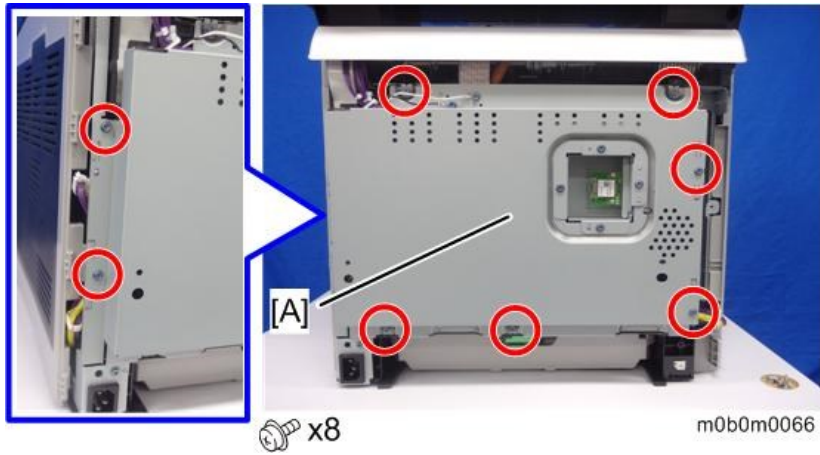
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The rear cover must be removed to pull out the ground wire of the scanner drive motor.

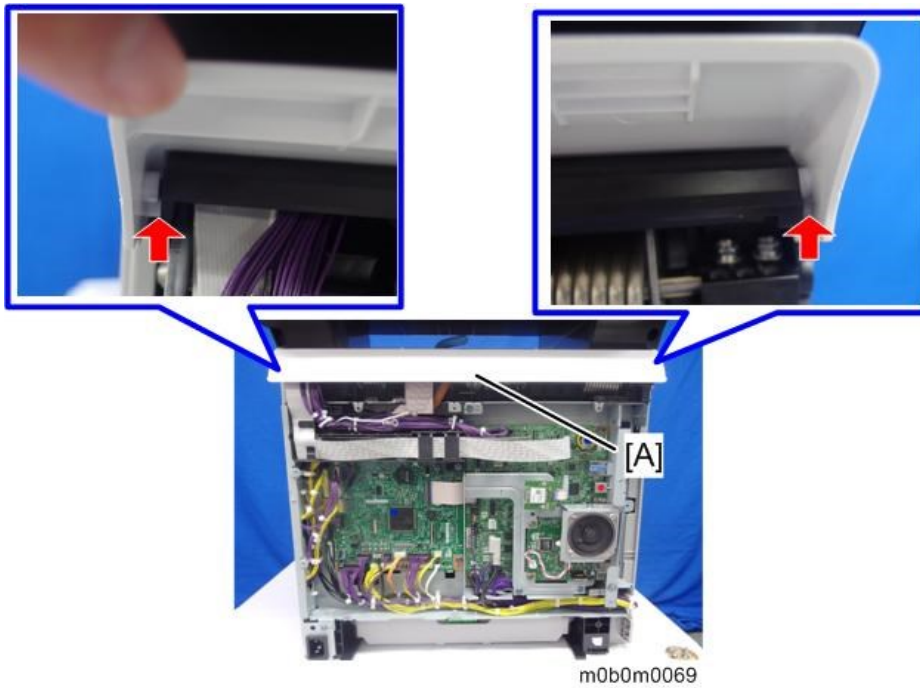
1. Remove the DF unit. ([Document Feeder](#))
2. Remove the rear cover. ([Printer Model](#))
3. Remove the controller box cover [A].



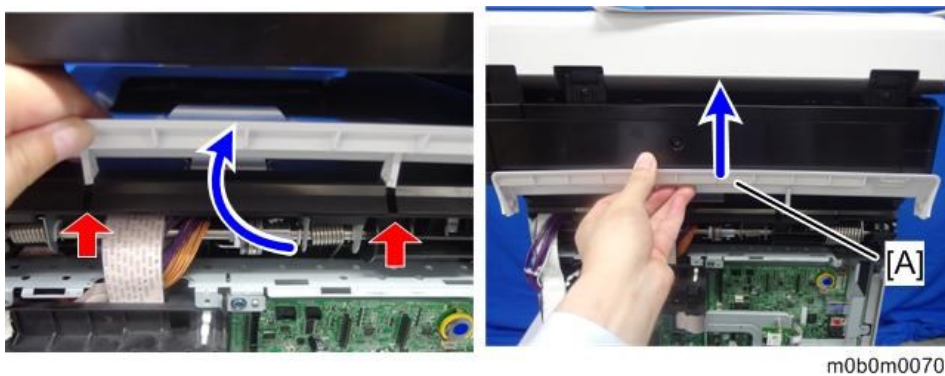
## 4.Replacement and Adjustment



- 4.** Grip both ends of the rear top cover [A], and lift it off its hinges.



- 5.** Open the rear top cover [A], and then remove by lifting it up.



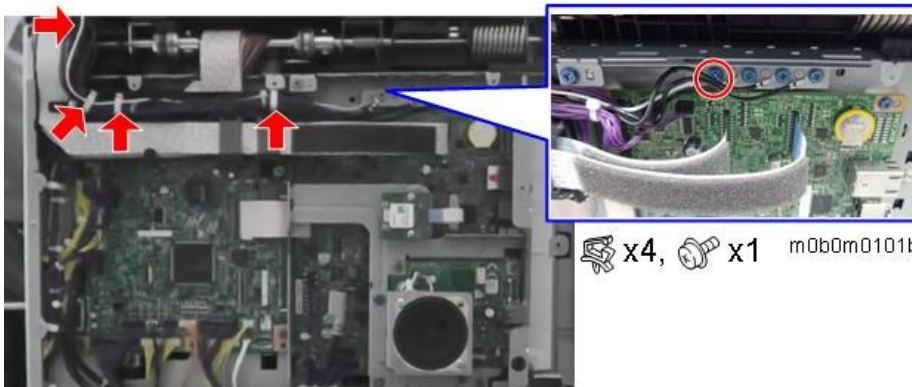
- 6.** Remove the scanner covers [A].



#### 4.Replacement and Adjustment



m0b0m0080

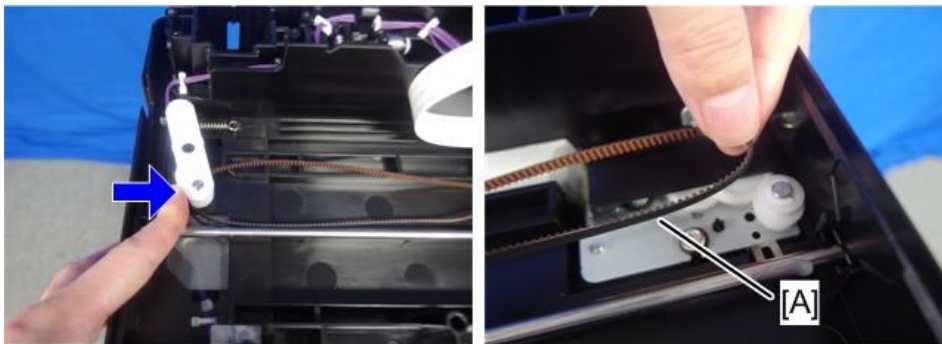
- 7.** Release the ground wire of the scanner drive motor.



 x4,  x1 m0b0m0101b

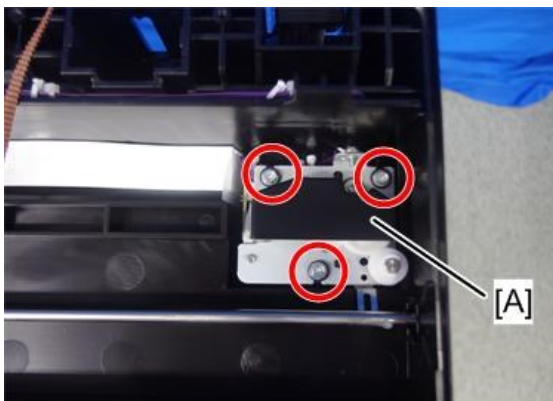
- 8.** Remove the scanner top cover. (Scanner Top Cover (Left Scale, Top Scale, Exposure Glass, Sheet-through Glass))

- 9.** Press the pulley, and then remove the timing belt [A] by bending it.



m0b0m0097

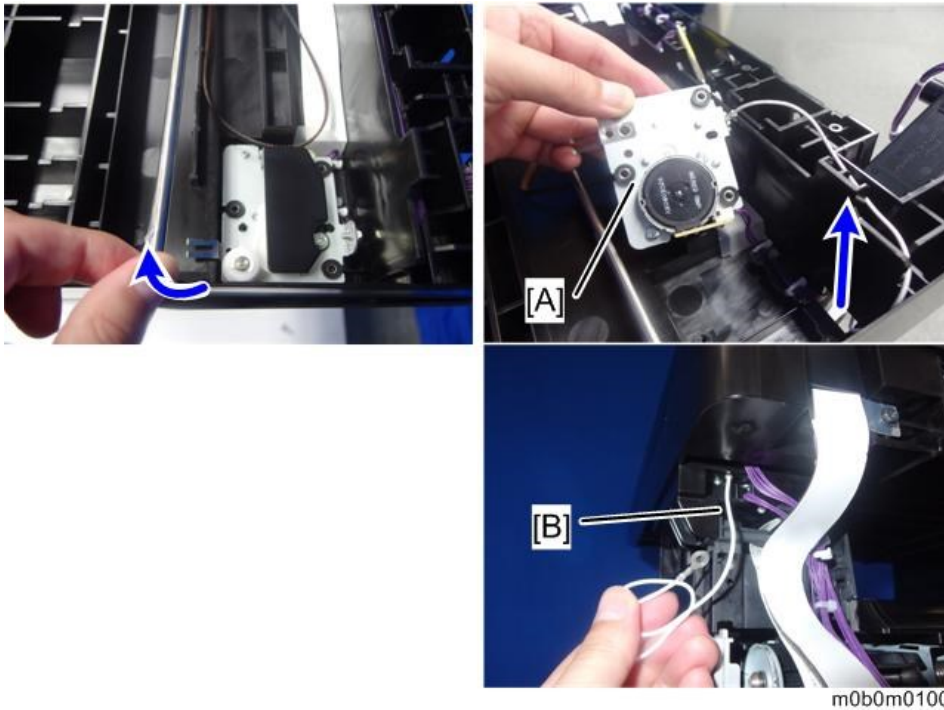
- 10.** Remove the three screws of the motor bracket [A].



m0b0m0098

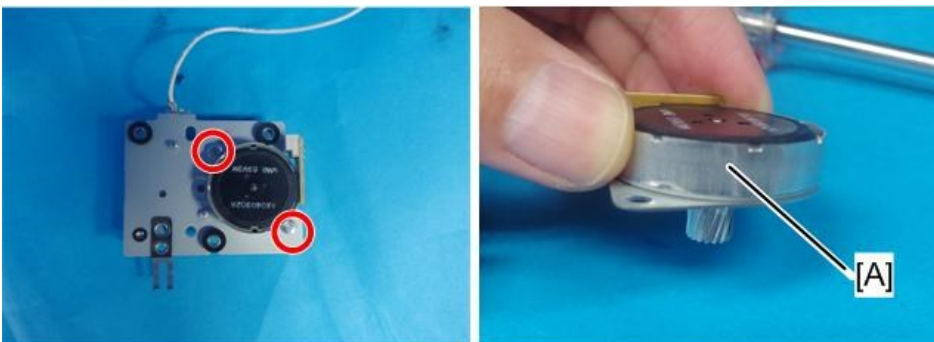
- 11.** Lift up the guide rod, and then remove the motor bracket [A].  
Pull out the ground wire [B] from the hole in the scanner base.

As there is grease on the guide rod, be careful that grease does not transfer onto other parts.



m0b0m0100

- 12.** Remove the scanner drive motor [A].



 x2

m0b0m0102

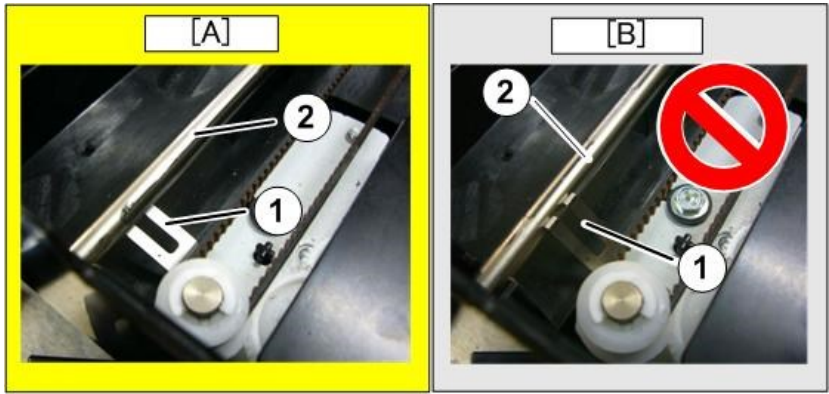
**Note**

When attaching the scanner drive motor, be careful not to position the ground plate (1) over the guide rod (2).

If you do, the ground plate will interfere with the CIS and prevent it moving to the right end, causing the timing belt's teeth to disengage and the belt to slip.

- [A]: Correct
- [B]: Incorrect

#### 4.Replacement and Adjustment



m0b0m2002



# 5. System Maintenance

## Service Program Mode

### Note

- Make sure that the data-in LED is not on before you go into the SP mode. This LED indicates that some data is coming to the machine. When the LED is on, wait for the printer to process the data.

## SP Tables

See "Appendices" for the following information:  
"SP Mode Tables"

## Enabling and Disabling Service Program Mode

### Note

- The Service Program Mode is for use by service representatives only, so that they can properly maintain product quality. If this mode is used by anyone other than service representatives for any reason, data might be deleted or settings might be changed. In such case, product quality cannot be guaranteed any more.

## Entering SP Mode

For details, ask your supervisor.

### Note

In the MF Models, if there are no Classic Application (copy/printer/scanner/fax) icons on the Home screen, follow the procedure below to display the number keyboard.

- 1.** Press and hold the button [B] located at the right side of the operation panel and "Check Status [A]" at the same time, until the number keyboard is displayed.





## 5. System Maintenance

### 2. Enter the key code for SP mode.



d238m0748

### Exiting SP Mode

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Press "Exit" on the LCD twice to return to the user screen.

In the printer model, press the [Escape] key.

#### **Note**

- To make the settings effective, turn the main power switch off and on after exiting service mode.

### Types of SP Modes

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#### For MF Models

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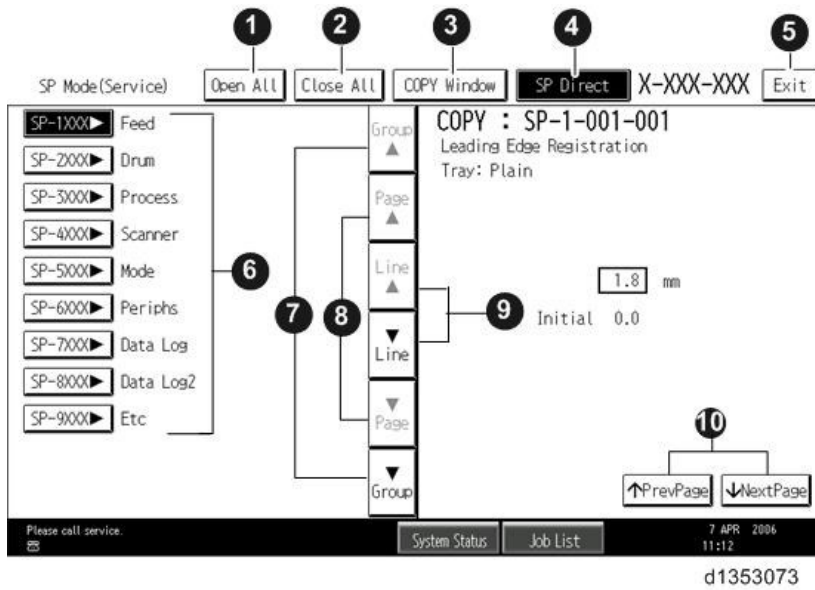
- System SP: SP modes related to the engine functions
- Printer SP: SP modes related to the controller functions
- Scanner SP: SP modes related to the scanner functions
- Fax SP: SP modes related to the fax functions

Select one of the Service Program modes (System, Printer, Scanner, or Fax) from the touch panel as shown in the diagram below after you access the SP mode. This section explains the functions of the System/Printer/Scanner SP modes. Refer to the Fax service manual for the Fax SP modes.



d197z3001

Here is a short summary of the touch-panel buttons.



1	Opens all SP groups and sublevels.
2	Closes all open groups and sublevels and restores the initial SP mode display.
3	Opens the copy window (copy mode) so you can make test copies. Press SP Mode (highlighted) in the copy window to return to the SP mode screen,
4	Enter the SP code directly with the number keys if you know the SP number. Then press [#]. The required SP Mode number will be highlighted when pressing [#]. If not, just press the required SP Mode number.)
5	Press two times to leave the SP mode and return to the copy window to resume normal operation.
6	Press any Class 1 number to open a list of Class 2 SP modes.
7	Press to scroll the show to the previous or next group.
8	Press to scroll to the previous or next display in segments the size of the screen display (page).
9	Press to scroll the show the previous or next line (line by line).
10	Press to move the highlight on the left to the previous or next selection in the list.

### Switching Between SP Mode and Copy Mode for Test Printing

- 1.** In the SP mode, select the test print. Then press "Copy Window".
- 2.** Use the copy window (copier mode), to select the appropriate settings (paper size, etc.) for the test print.
- 3.** Press [Start] key to start the test print.
- 4.** Press SP Mode (highlighted) to return to the SP mode screen and repeat from step 1.

## 5. System Maintenance

### For Printer Model

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Type	Description
Service SP	SP modes related to the controller/printer functions
Engine SP	SP modes related to the engine functions

Select one of the Service Program modes (Service, or Engine) with "Up/Down" keys, and then push the "OK" key.



m0b0m0132

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### Service Mode Lock/Unlock

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At locations where the machine contains sensitive data, the customer engineer cannot operate the machine until the Administrator turns the service mode lock off. This function makes sure that work on the machine is always done with the permission of the Administrator.

- 1.** If you cannot go into the SP mode, ask the Administrator to log in with the User Tool and then set "Service Mode Lock" to OFF after he or she logs in:  
User Tools > System Settings > Administrator Tools > Service Mode Lock > OFF
  - This unlocks the machine and lets you get access to all the SP codes.
  - The CE can service the machine and turn the machine off and on. It is not necessary to ask the Administrator to log in again each time the machine is turned on.
- 2.** Go into the SP mode and set SP5169 to "1" if you must use the printer bit switches.
- 3.** After machine servicing is completed:
  - Change SP5169 from "1" to "0".
  - Turn the machine off and on. Tell the administrator that you have completed servicing the machine.
  - The Administrator will then set the "Service Mode Lock" to ON.

## Firmware Update (SD Card)

### Updating Firmware

#### Preparation

- If the SD card is blank, copy the entire "romdata" folder onto the SD card.
- If the card already contains the "romdata" folder, copy the "M0B0" folder onto the card.

If the card already contains folders up to "M0B0", copy the necessary firmware files (e.g. M0B0xxxx.fwu) into this folder.

#### Note

- Do not put multiple machine firmware programs on the same SD card. Copy the only model firmware you want.

#### Updating Procedure (Printer Model)

1. Turn the main power switch off.
2. Remove the slot cover.
3. Insert the SD card into the lower SD card slot.  
Make sure the label on the SD card faces the front side of the machine.
4. Slowly push the SD card into the slot so it locks in place. You will hear it click. Make sure the SD card locks in place.

#### Note

- To remove the SD, push it in to unlock the spring lock. Then release it so it pops out of the slot.
5. Disconnect the network cable if the machine is connected to a network.
  6. Switch the main power switch on.  
After about 45 seconds, the initial version update screen appears on the LCD in English.
  7. On the screen, press the corresponding key (Up and Down keys) to select the update file that you want to update.



w\_m158m0094b

## 5. System Maintenance

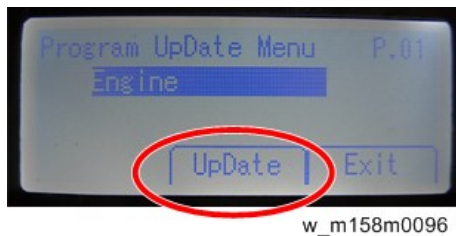
ROM/NEW	What it means
ROM:	Tells you the number of the module and name of the version currently installed.
NEW:	Tells you the number of the module and name version on the SD card.

### Note

- You can change the module name screen or module version screen by using the left and right keys.
- Controller and engine firmware cannot be updated at the same time. It is recommended to update firmware modules one by one.

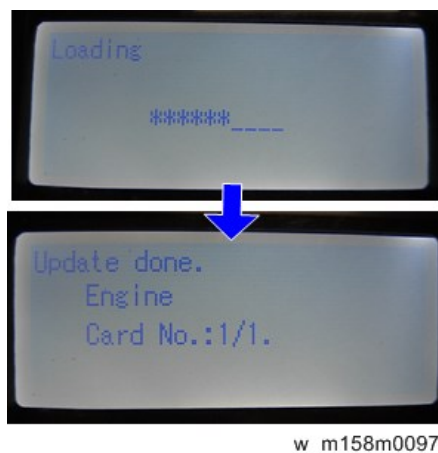
**8.** Press the "OK" key after selecting the item that you want to update.  
The "UpDate" button appears.

**9.** Press the "UpDate" key to start the update.



### Note

- The progress bar appears on the operation panel.



**10.** The "Update Done" message appears after completing the updating.

The message differs depending on the firmware that has been updated.

**11.** Turn the main power off and on. Then, select the items that you updated, and then push the [Verify] button.

This is to check that the modules were updated correctly. Press in the SD card to release it. Then remove it from the slot.

**12.** If you see "Verify Error" in the first bar on the screen, then you must do the procedure again for the module shown in the bottom bar.

The "Verify" procedure is not necessary but it is strongly recommended.

**13.** After the firmware is correctly updated, turn the main power switch off, and then switch the machine



on for normal operation.

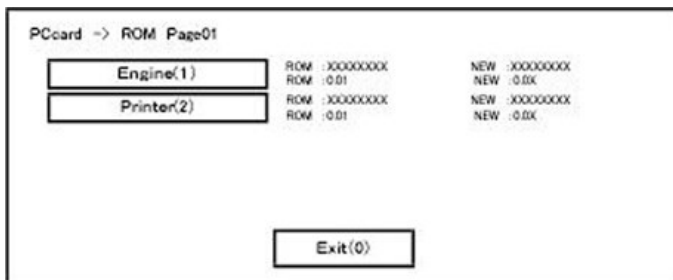
Updating Procedure (MF Models)

1. First download the new firmware to the SD card.
2. Turn OFF the power.
3. Remove the SD card slot cover.
4. Insert the SD card into the SD card slot.

**Note**

- Check whether the card is properly in the SD card slot. When an SD card is inserted, a click is heard, and it is locked.
- To remove the card, release by pressing once.

5. Turn ON the power.
6. Wait until the update screen starts (about 45 seconds).  
When it appears, "Please Wait" is displayed.
7. Check whether a program installation screen is displayed. (The screen is always in English, regardless of the machine's language settings.) When the SD card contains two or more software modules, they are displayed as follows.



**- When two or more software names are displayed -**

1. Press the module selection button or [1] - [5] on the 10-key pad.
2. Choose the appropriate module. (If already selected, cancel the selection.)

**Operation of keys or buttons**

Keys or buttons to press	Contents
[Exit] or 10-key pad [0]	Returns to the normal screen.
[Start] Key	Select all modules.
[Clear/Stop] key	Cancel all selections.

**Display contents**

On the above screen, two programs, engine firmware and printer application, are displayed. (The screen may change depending on the firmware or application.)

The display contents are as follows:

Display	Contents
ROM:	Display installed module number / version information.
NEW:	Display module number / version information in the card.

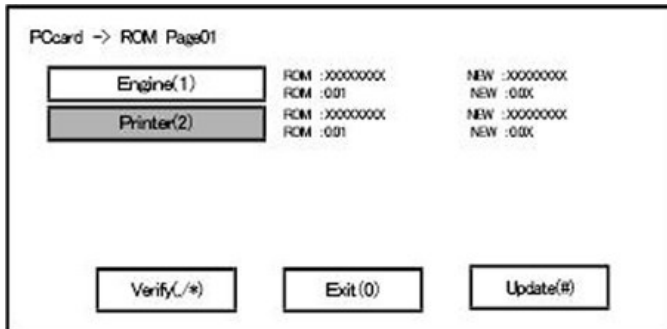
## 5. System Maintenance

The upper row corresponds to the module name, the lower row corresponds to the version number.

8. Select the module with the module selection button or 10 key pad operation. The selected module is highlighted, and [Verify] and [Update] are displayed.

### Note

- Depending on the combination of modules to update, it may not be possible to select all of them simultaneously.

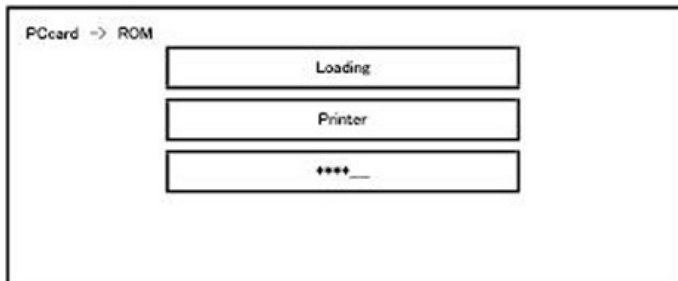


### Key or button operations

Keys or buttons to press	Contents
[Update] or [#] key	Update the ROM of the selected module.
[Verify] button or [/ *] key	Perform verification of the selected module.

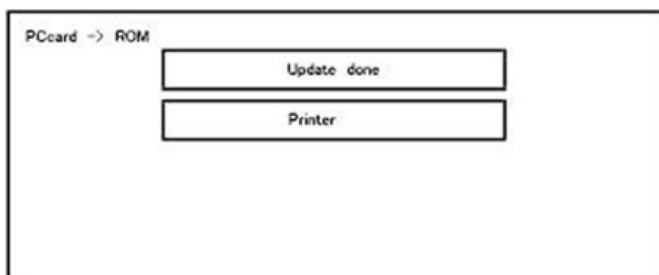
9. Press the [Update] or [#] key. Software will be updated.

10. During firmware update, a "firmware update/ verification progress screen" is displayed. When firmware update is complete, the "firmware update end screen" is displayed.



- In the middle row, the name of the module currently being updated is displayed (in this case, the printer module is being updated).
- In the lower row, a progress bar is displayed in ten steps. (The more \*, the more the progress.)

### Firmware update end screen



- This screen is displayed when all selected firmware modules are to be updated. "Printer" in the second row shows that the module updated last is the printer. (When more than one were updated simultaneously, only the module that was updated last is displayed.)

- When Verify was completed normally, the "Update done" display of the above screen is "Verify done." If "Verify Error" is displayed, reinstall the software of the application displayed in the lower row.

**11.** After turning the main power OFF, remove the SD card.

**12.** Turn the main power ON again, and check whether the machine is operating normally.

**13.** Return the SD card slot cover to the original position.

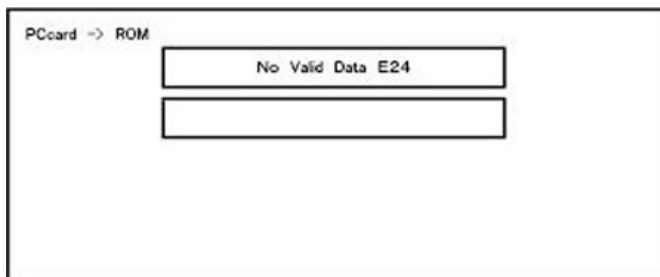
#### ↓ Note

- When the power supply is switched OFF during firmware update, update is interrupted, and the power is switched ON again, normal operation cannot be guaranteed.
- To guarantee operation, an update error continues to be displayed until update is successful.
  - In this case, insert the SD card again, switch the power ON, and continue download of firmware from the SD card automatically.
- The PS3 firmware program is included in the preinstalled PDF firmware. In the default state, although the PS3 firmware program is hidden in the disabled state, the function is enabled by installing the PS3 card. (The program installed in the PS3 card is a dongle (key) for enabling the PS3 function).
  - Due to the above specification, the self-diagnosis result report shows the ROM module number / software version of the PDF firmware at the PS location.

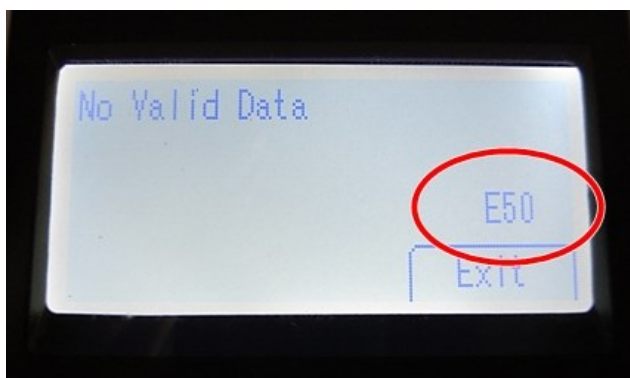
#### Error Screens during Updating

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##### MF Models



##### Printer Model



w\_m158m2015

EXX shows an error code.

## 5. System Maintenance

For error codes, refer to the following table:

### Error Code List

Code	Contents	Solutions
20	Physical address mapping cannot be performed.	<ul style="list-style-type: none"> <li>• Switch the main power supply off and on to try again.</li> <li>• Re-insert the SD card to reboot.</li> <li>• Replace the controller board if the above solutions do not solve the problem.</li> </ul>
21	Insufficient memory for the download	<ul style="list-style-type: none"> <li>• Switch the main power supply off and on to try again.</li> <li>• Replace the controller board if the updating cannot be done by switching the power off and on.</li> </ul>
22	Decompression of compressed data failed.	<ul style="list-style-type: none"> <li>• Switch the main power supply off and on to try again.</li> <li>• Replace the SD card used for the update.</li> <li>• Replace the controller board if the above solutions do not solve the problem.</li> </ul>
24	SD card access error	<ul style="list-style-type: none"> <li>• Re-insert the SD card.</li> <li>• Switch the main power supply off and on to try again.</li> <li>• Replace the SD card used for the update.</li> <li>• Replace the controller board if the above solutions do not solve the problem.</li> </ul>
32	<p>The SD card used after download suspension is incorrect.</p> <p>The SD card which was inserted after power interruption is different from the one which was inserted before power interruption.</p>	<ul style="list-style-type: none"> <li>• Insert the SD card containing the same program as when the firmware update was suspended, and then switch the main power supply off and on to try again.</li> <li>• There is a possibility that the SD card is damaged if the update cannot be done after the correct SD card has been inserted. In this case, try again with a different SD card.</li> <li>• Replace the controller board if the above solutions do not solve the problem.</li> </ul> <p>Replace all relevant boards if the update is done for the BiCU and FCU function.</p> <p>Replace the operation panel unit if the update is done for the operation panel.</p>

Code	Contents	Solutions
33	Card version error. The wrong card version is downloaded.	<ul style="list-style-type: none"> <li>Install the correct ROM update data for each version in the SD card.</li> </ul>
34	Destination error. A card for the wrong destination is inserted.	<ul style="list-style-type: none"> <li>Install the correct ROM update data for each destination (JPN/ EXP/ OEM) in the SD card.</li> </ul>
35	Model error. A card for the wrong model is inserted.	<ul style="list-style-type: none"> <li>Install the correct ROM update data for each model in the SD card.</li> </ul>
36	Module error. The program to be downloaded does not exist on the main unit. The download destination specified by the card does not match the destination for the main unit's program.	<ul style="list-style-type: none"> <li>Install the program to be updated in advance.</li> <li>There is a possibility that the SD card containing the program to be updated has not been mounted. Check to confirm that the SD card has been correctly mounted.</li> <li>The SD card is incorrect if the program to be updated has been correctly installed. In this case, insert the correct SD card.</li> </ul>
38	The version of the downloaded program has not been authorized for the update.	<ul style="list-style-type: none"> <li>Make sure that the program to be overwritten is the specified version.</li> </ul>
40	Engine download fails.	<ul style="list-style-type: none"> <li>Switch the main power supply off and on to try again.</li> <li>If the download fails again, replace the controller board and the BiCU.</li> </ul>
41	Fax download fails.	<ul style="list-style-type: none"> <li>Switch the main power supply off and on to try again.</li> <li>If the download fails again, replace the controller board and the fax board.</li> </ul>
42	Control panel / language download fails.	<ul style="list-style-type: none"> <li>Switch the main power supply off and on to try again.</li> <li>If the download fails again, replace the controller board and the operation panel unit.</li> </ul>
43	Printing download fails.	<ul style="list-style-type: none"> <li>Switch the main power supply off and on to try again.</li> <li>The SD card is damaged if the update fails again. Replace the SD card.</li> </ul>
44	The data to be overwritten cannot be accessed when controller-related programs are downloaded.	<ul style="list-style-type: none"> <li>Switch the main power supply off and on to try again.</li> <li>Install the correct ROM update data in the SD card.</li> <li>Replace the controller board if the data to be</li> </ul>



## 5. System Maintenance

Code	Contents	Solutions
		overwritten is contained on the controller board.
49	Firmware updates are currently prohibited.	<ul style="list-style-type: none"> <li>The setting of Update Firmware in the Administrator Tools has been set to [Prohibit] by an administrator. Amend the setting to [Do not Prohibit] and try again.</li> </ul>
50	The results of the electronic authorization check have rejected the update data.	<ul style="list-style-type: none"> <li>Install the correct ROM update data in the SD card.</li> </ul>
57	@Remote is not connected at the date/time reserved for receiving the package firmware update from the network.	<ul style="list-style-type: none"> <li>Check the @Remote connection.</li> </ul>
58	Update cannot be done due to a reception route problem.	<ul style="list-style-type: none"> <li>Check the @Remote connection.</li> </ul>
59	HDD is not mounted.	This code is not displayed in this machine.
60	HDD could not be used during the package firmware update.	This code is not displayed in this machine.
61	The module ID for the package firmware update is incorrect.	<ul style="list-style-type: none"> <li>Prepare the correct package files.</li> </ul>
62	The configuration of the package firmware update files is incorrect.	<ul style="list-style-type: none"> <li>Prepare the correct package files.</li> </ul>
63	Reception fails due to power off at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Update is to be done automatically when the next reception time has elapsed.</li> </ul>
64	Reception fails due to power off at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Reset the reservation date/time for the remote update.</li> </ul>
65	Reception fails due to a status error of the machine at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Update is to be done automatically when the next reception time has elapsed.</li> </ul>
66	Reception failed due to a status error of the machine at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Reset the reservation date/time for the remote update.</li> </ul>

Code	Contents	Solutions
67	Acquisition of the latest version information from the Gateway fails at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
68	Acquisition of the latest version information from the Gateway fails.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
69	Download fails at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
70	Package firmware download from the network fails.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
71	Network communication error occurs at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
72	The setting of @Remote is invalid at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Set the setting of @Remote Service in the Administrator Tools to [Do not Prohibit].</li> </ul>
57	@Remote is not connected at the date/time reserved for receiving the package firmware update from the network.	<ul style="list-style-type: none"> <li>Check the @Remote connection.</li> </ul>
58	Update cannot be done due to a reception route problem.	<ul style="list-style-type: none"> <li>Check the @Remote connection.</li> </ul>
59	HDD is not mounted.	This code is not displayed in this machine.
60	HDD could not be used during the package firmware update.	This code is not displayed in this machine.
61	The module ID for the package firmware update is incorrect.	<ul style="list-style-type: none"> <li>Prepare the correct package files.</li> </ul>
62	The configuration of the package firmware update files is incorrect.	<ul style="list-style-type: none"> <li>Prepare the correct package files.</li> </ul>
63	Reception fails due to power off at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Update is to be done automatically when the next reception time has elapsed.</li> </ul>
64	Reception fails due to power off at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Reset the reservation date/time for the remote update.</li> </ul>
65	Reception fails due to a status error of	<ul style="list-style-type: none"> <li>Update is to be done automatically when the</li> </ul>

## 5. System Maintenance

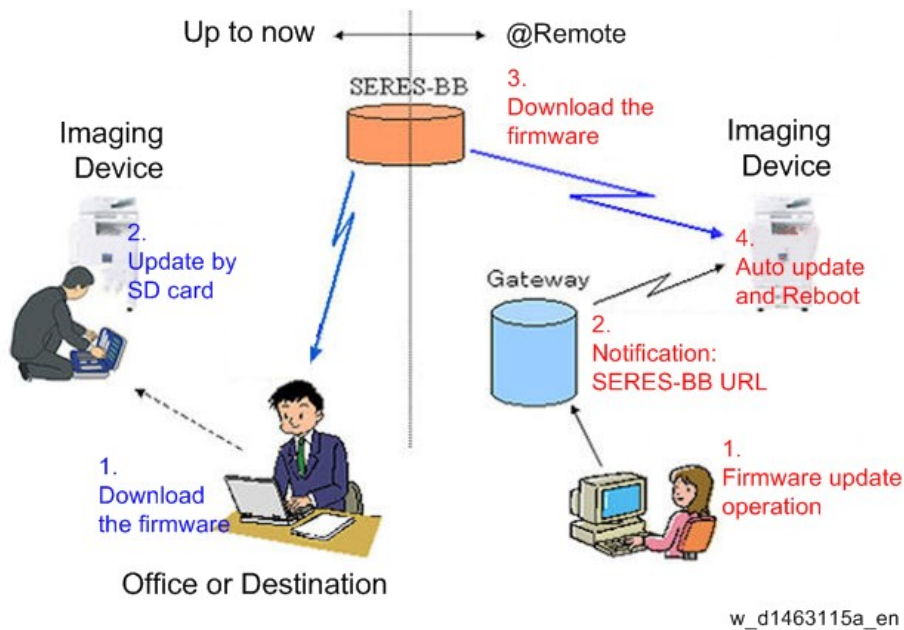
Code	Contents	Solutions
	the machine at the reserved date/time of the remote firmware update from the network.	next reception time has elapsed.
66	Reception failed due to a status error of the machine at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Reset the reservation date/time for the remote update.</li> </ul>
67	Acquisition of the latest version information from the Gateway fails at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
68	Acquisition of the latest version information from the Gateway fails.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
69	Download fails at the reserved date/time of the remote firmware update from the network.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
70	Package firmware download from the network fails.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
71	Network communication error occurs at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Check that the network is connected correctly.</li> </ul>
72	The setting of @Remote is invalid at the reserved date/time of the package firmware update from the network.	<ul style="list-style-type: none"> <li>Set the setting of @Remote Service in the Administrator Tools to [Do not Prohibit].</li> </ul>

### Note

- The PDF firmware installed as standard contains a program required to print PS3 data as default. However, this PS3 program is normally disabled.
- The PS3 firmware is a dongle (key) which enables PS3 data printing functions. When the PS3 firmware is installed, the PS3 program in the PDF firmware is enabled. Due to this specification, the self-diagnosis result report shows the ROM part number/software version of the PDF firmware contained in the PS3 program.

## Firmware Update (Remote Firmware Update)

In this machine, software can be updated by remote control using @Remote.



### Types of firmware update files, supported update methods:

	SFU*1	SD Card	RFU	ARFU*1
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

\*1 Not supported by the printer model.

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### RFU Performable Condition

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RFU is performable for a device which meets the following conditions.

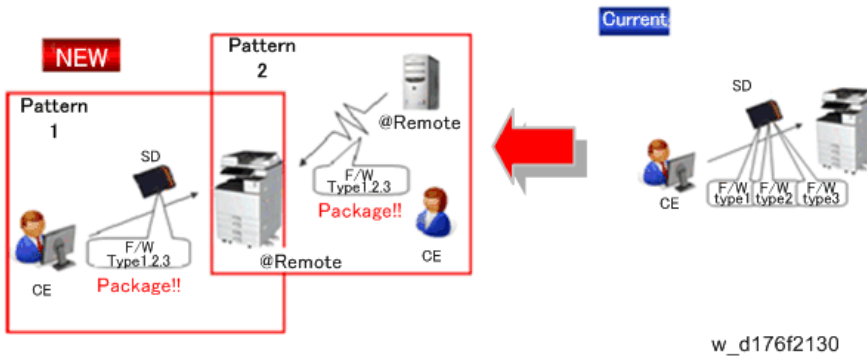
1. The customer consents to the use of RFU.
2. The device is connected to a network via TCP/IP for @Remote.

## Firmware Update (Smart Firmware Update) (Only for MF Models)

### Overview

Each firmware module (such as System, Engine, etc.) used to be updated individually. However, an all-inclusive firmware package (package\_ALL) is now available.

There are several ways to update using the firmware package.



### Package Firmware Update via a network: SFU (Smart Firmware Update)

- There are two methods for SFU.
  - Immediate Update: To update the firmware when visiting
  - Update at the next visit: To set the date and time for downloading. The firmware will be automatically downloaded beforehand and updated at the following visit.
  - "Update at the next visit" is recommended since firmware download may take some minutes due to the network condition.

#### Note

SFU requires the connection to @Remote via a device which has the embedded @Remote communicating function. When a machine is connected to @Remote via an intermediate device (RC Gate), the SFU function is disabled.

Other than SFU, package firmware update can also be performed by using the following three methods.

- Package Firmware Update via a network: ARFU (Auto Remote Firmware Update)
- Package Firmware Update via an SD Card
- Package Firmware Update via a network: RFU (Remote Firmware Update)

### Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available



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## Immediate Update

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Enter the [Firmware Update] menu in the SP mode and update the package firmware.

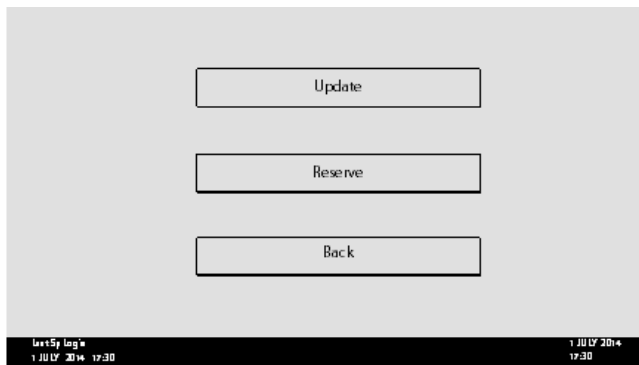
### ↓ Note

- The [Firmware Update] button will appear even when a machine is connected to @Remote with a device which does not have an embedded @Remote communicating function.
- If an error code is displayed, refer to [Error Screens during Updating](#)

**1.** Enter the SP mode.

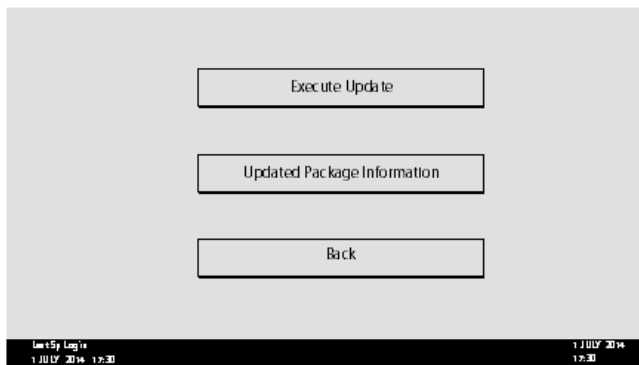
**2.** Touch [Firmware Update].

Touch [Update].



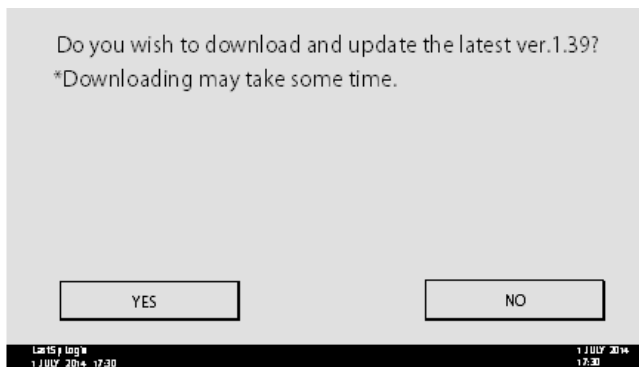
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**3.** Touch [Execute Update].



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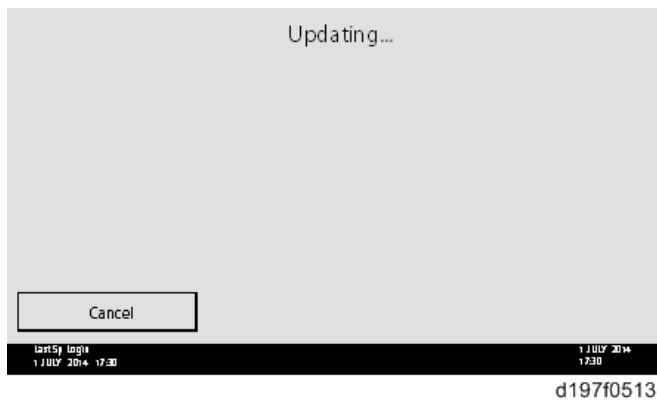
**4.** Touch [YES].



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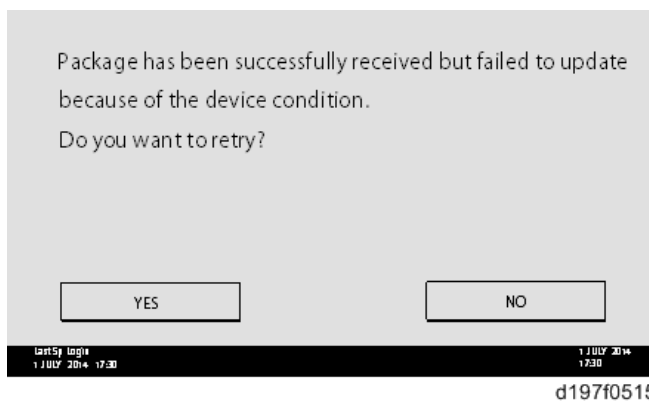
## 5. System Maintenance

**5.** The following will be displayed.



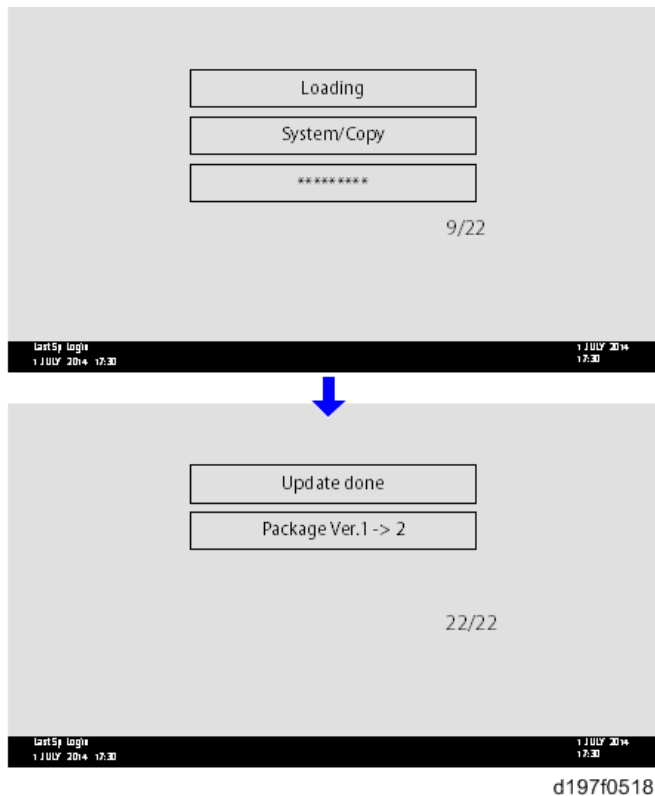
### Note

- If the error code E66, which indicates that the download of the firmware has failed, is displayed, go back to step 1.
- Update will be started automatically after the download is finished.
- When the machine is in the update mode, the automatic update is suspended if a print job is started. After the print job is finished, touch [YES] on the display shown below to restart updating.



**6.** [Update done] is displayed.

- The machine will automatically reboot itself.



**Note**

- The figures at the lower right of the display indicate "Number of updated items/All items to be updated".

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### Update at the Next Visit (Reserve)

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It is possible to set the machine to download the package firmware which is necessary for SFU in advance, and then perform the actual installation at the next service visit. This saves waiting time for the firmware to download at the service visit.

#### How to Set the Machine to Download Firmware Later (Reserve)

---

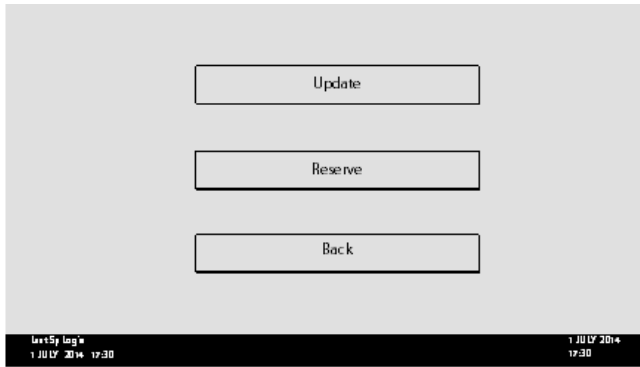
Enter the [Firmware Update] menu in the SP mode and update the package firmware.

**Note**

- The [Firmware Update] button will appear even when a machine is connected to @Remote with a device which does not have an embedded @Remote communicating function. If an error code is displayed, refer to [Error Screens during Updating](#).

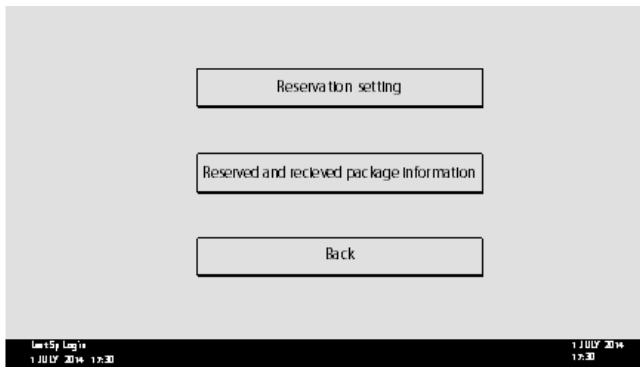
- 1.** Enter the SP mode.
- 2.** Touch [Firmware Update].  
Touch [Reserve].

## 5. System Maintenance



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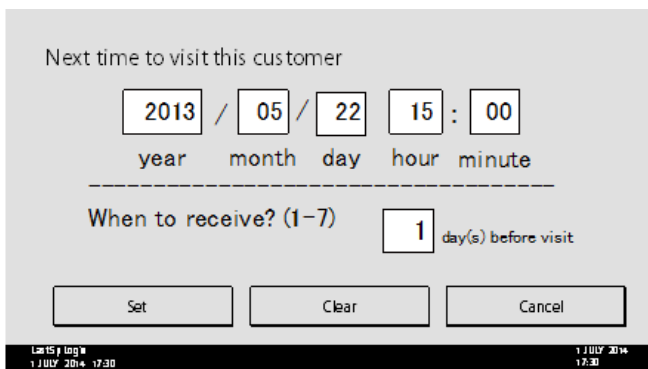
### 3. Touch [Reservation setting].



d197f0510

### 4. Enter the dates and times of the next visit and the start of receiving data.

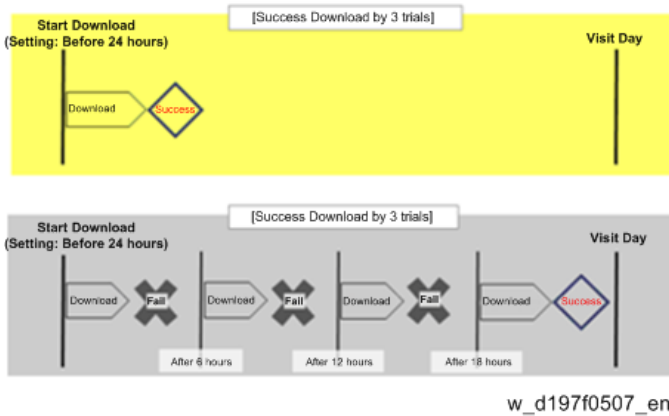
- "Next time to visit this customer": The package firmware will be automatically downloaded by this time/date.
- "When to receive? (1-7)": The download of the package firmware will begin this number of days before the next visit.



d197f0512

## Successful Download

In the two diagrams below, the firmware is set to be downloaded by the day before the next scheduled visit. In the first diagram, the download is successful on the first try. In the second diagram, the download fails three times and is successful on the fourth try.

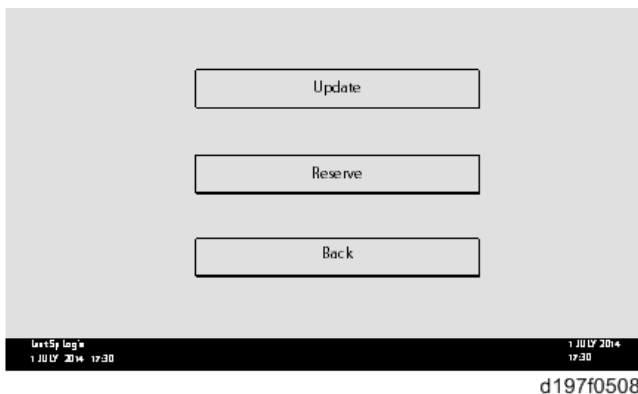


- If the firmware download fails or cannot be completed due to the network settings/condition, no power to the machine, or other reason, the machine will continue retrying every six hours until the scheduled deadline (up to a maximum of four tries). For example, if the download is set for the day before the next visit, the machine will attempt the download at 24 hours before the visit, and then continue trying every six hours (max. four tries total).
- The retry is only performed in cases when the firmware download has failed.
- If the machine is in Energy Saver mode when the download is scheduled to begin, the download will be performed in the background and the machine/panel will stay in Energy Saver mode.
- The download will continue uninterrupted even if the customer initiates a print job, copy job, fax receiving or other operation while the download is in progress.
- The download will be terminated if the customer turns the power off while the download is in progress.
- If the download cannot be completed successfully by the time of the next scheduled visit, the machine will stop trying to download the firmware.

How to Check if the Firmware Downloaded with Reserve

---

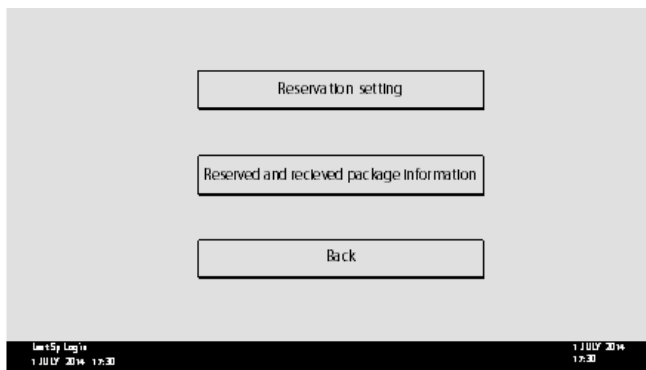
- 1.** Enter the SP mode.
- 2.** Touch [Firmware Update].  
Touch [Reserve].





## 5. System Maintenance

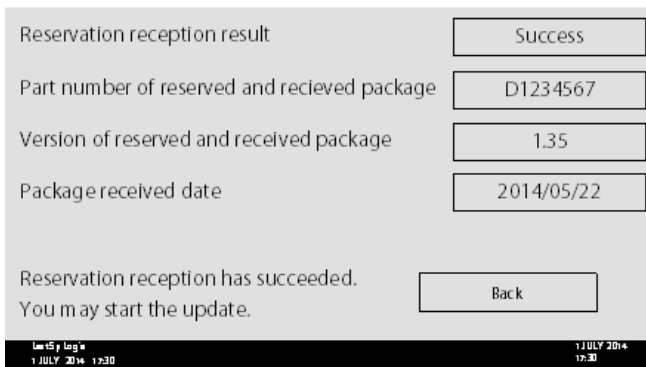
### 3. Touch [Reserve and received package information].



d197f0510

### 4. Check the information displayed.

When the package firmware was downloaded successfully, the details of the download result are displayed as the following picture shows.



d197f0511

#### Note

- This information will only be displayed if the reserved firmware has already been downloaded. If not, all the data items are indicated with "-".

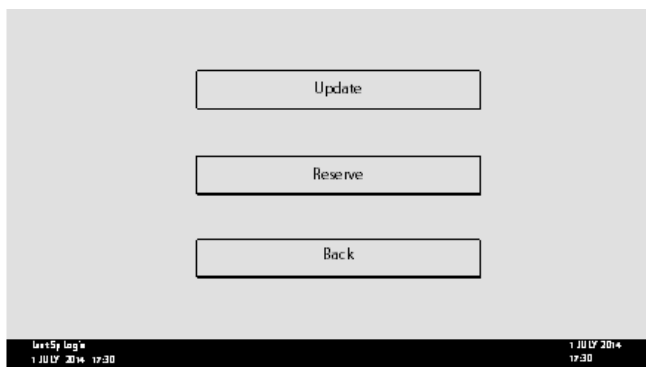
## How to Install Firmware Downloaded with Reserve

---

### 1. Enter the SP mode.

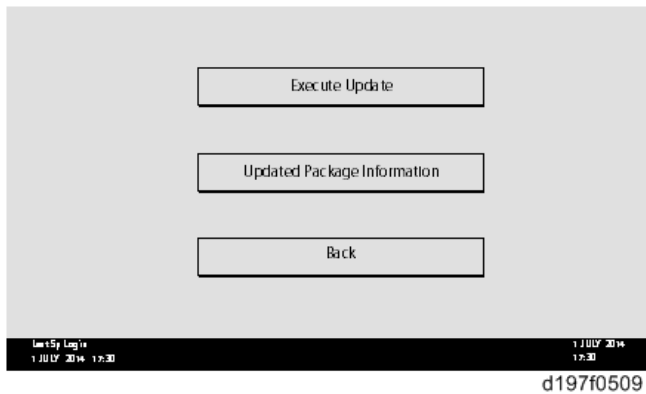
### 2. Touch [Firmware Update].

Touch [Update].



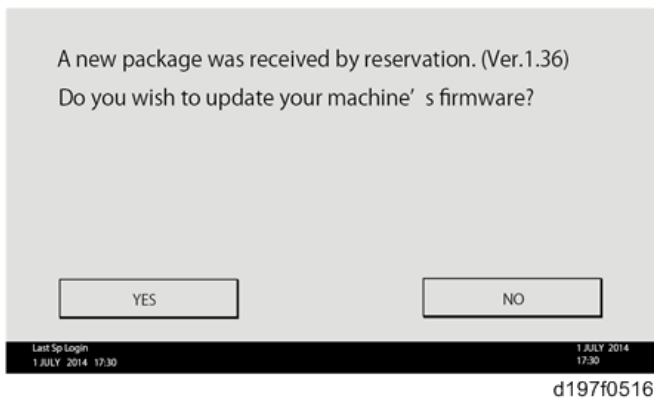
d197f0508

**3.** Touch [Execute Update].



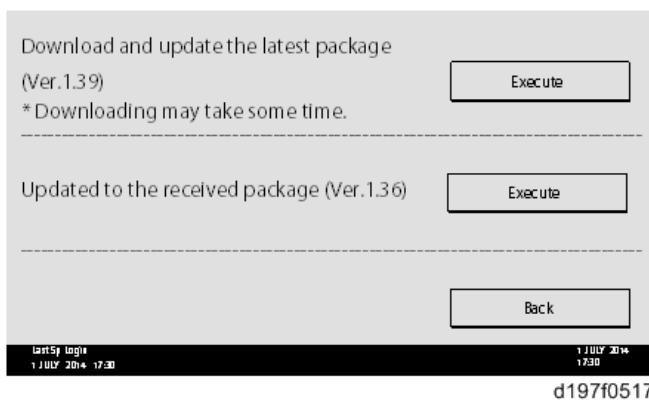
**4.** Check the version of the received package firmware, and then touch [YES].

- Update is started.



**Note**

- If the version of the reserved package in the eMMC is older than the latest version, the messages shown in the following picture are displayed.

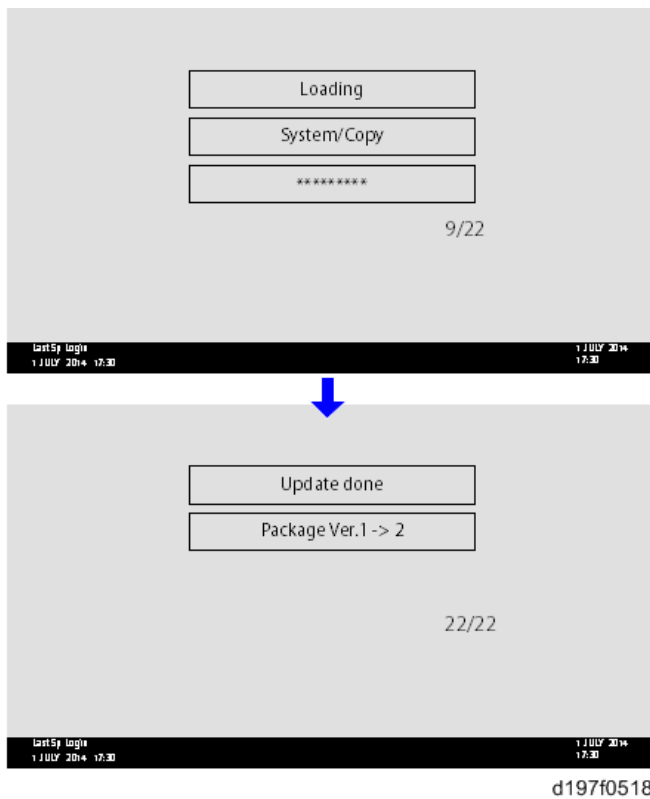


- If you wish to download the latest version, touch [Execute] beside the message "Download and update the latest package." Then update of the package firmware will be started.
- If you wish to update using the firmware in the eMMC (old version), touch [Execute] beside the message "Update to the received package."

**5.** [Update done] is displayed.

## 5. System Maintenance

- The machine will automatically reboot itself.



### Note

- The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

---

## Update via SD Card

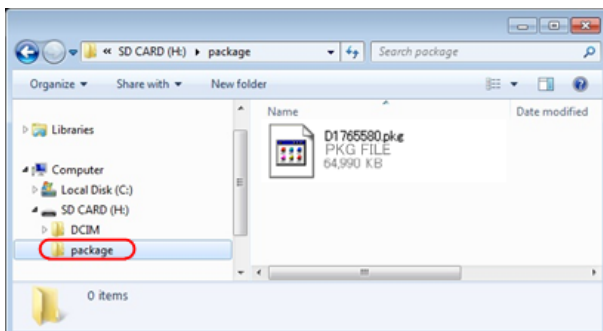
---

**Update with an SD card, which is the conventional method, is available if you write the package firmware to the SD card.**

### Note

- If an error code is displayed, refer to [Error Screens during Updating](#).

- 1.** Create a new folder in the SD card, and then name it "package".
- 2.** Copy the package firmware (xxxxxxx.pkg) to this folder.



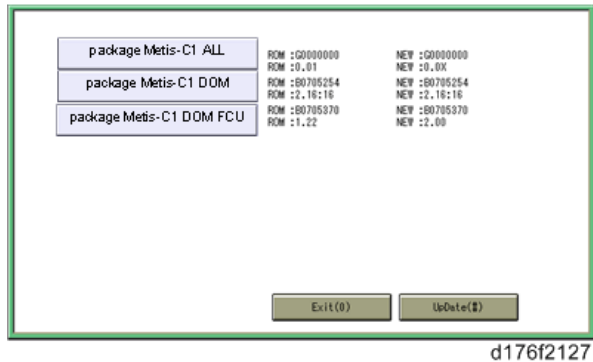
### Important

- If you copy the package firmware into the conventional "romdata" folder, the update will

not work.

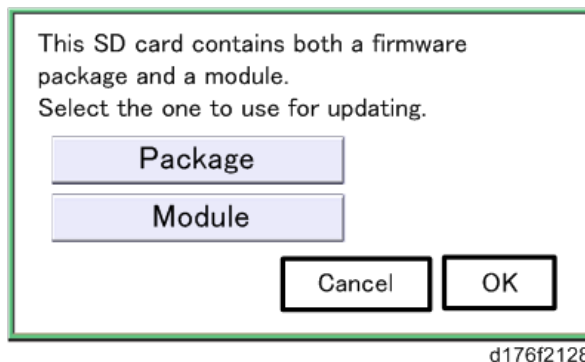
- Only one version of the package firmware should be copied into the folder. If you copy multiple versions of package firmware to the SD card, the machine will select only one version of the firmware randomly.

3. Turn the power OFF.
4. Remove the slot cover.
5. Insert the SD card which contains the package into the SD card slot (for service).
6. Turn the power ON and touch [Update].



**Note**

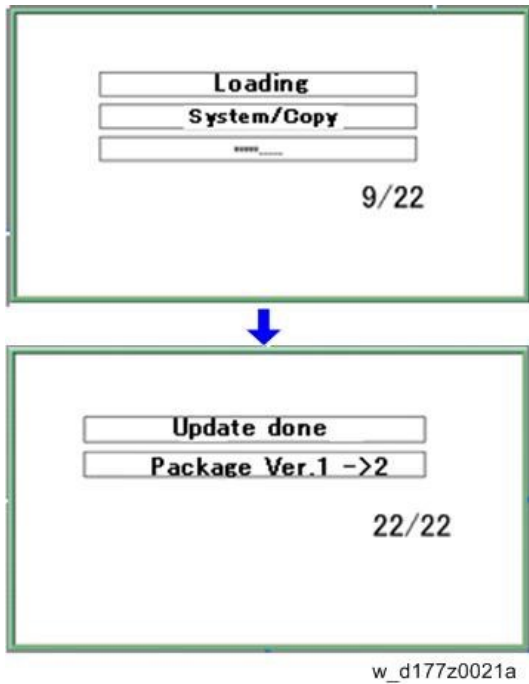
- When the SD card contains both a firmware package and one or more modules, the following display may show up. Select [Package] and touch [OK] to move to step 5 above.



7. Update is started automatically after the package firmware download to the eMMC has been completed.

## 5. System Maintenance

**8.** When update is completed, "Update done" is displayed.



### Note

- The figures at the lower right of the display indicate "Number of updated items/All items to be updated".

**9.** Turn the main power switch OFF, and then pull out the SD card from the SD card slot.

**10.** Turn the power ON.



## Firmware Update (Auto Remote Firmware Update) (Only for MF Models)

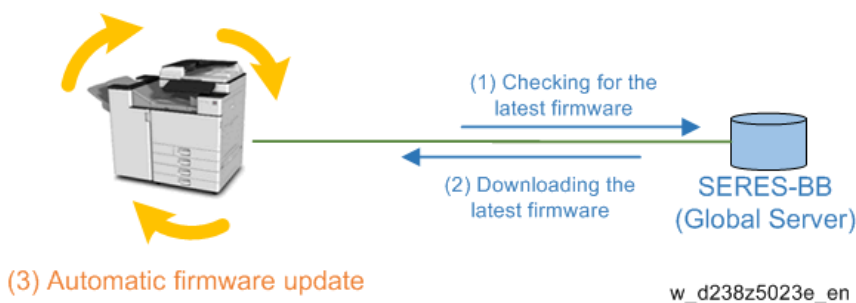
### Note

- Auto remote firmware update (ARFU) requires connection to the Internet. Be sure to get permission from the customer before setting up this feature.

### Overview

By Auto Remote Firmware Update (ARFU), the firmware is updated by checking the global server every 76 hours and downloading the latest package if it is newer than the one installed on the machine.

### Function Overview



### Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

### What is Included in the Firmware Package

Modules included in the firmware package are indicated by ticks (✓) in the firmware download web site. Firmware not included in the package require updating by SD cards, etc.

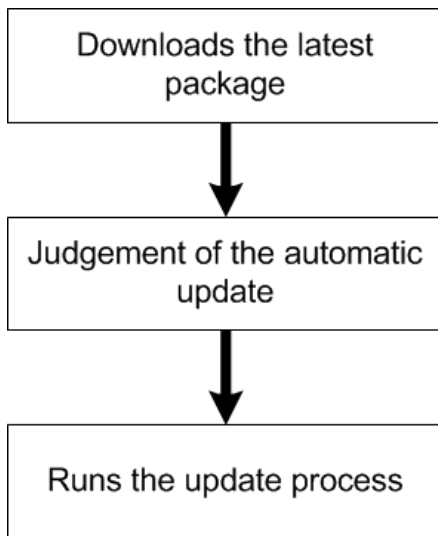
The table below is an example:

Included	Firmware
-	aics
✓	animation
✓	Application Site
✓	BluetoothService
✓	CheetahSystem
-	CSPF
-	Data Erase Onb
-	EcolInfoWidget
✓	Engine

---

## Downloading and Updating Process

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w\_d238z5024e\_en

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### Downloads the Latest Package

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The machine checks the server for the latest package version.

If the version of the package on the global server is later than that of the package installed on the machine, or if the machine has not downloaded the firmware package, the machine downloads the latest package in the background even when the customer is using the machine.

If download fails, the machine will retry downloading 76 hours later.

The downloaded package can also be used with SFU (Smart Firmware Update). A package downloaded with SFU (Smart Firmware Update) can be used with ARFU (Auto Remote Firmware Update) and vice versa.

When replacing the controller board, the firmware package data becomes lost from the controller board. Even if the latest firmware is on the new controller board, be sure to receive the latest package data.

When the machine connects to the server where the package files are stored, the DNS settings and the name solution by DNS are needed. The machine will still try to download the package even if the name cannot be resolved, but will fail because the name is not resolved.

The time and date to send the next inquiry to the global server can be checked with SP5-886-116 (Farm Update Setting: Auto Update Next Date).

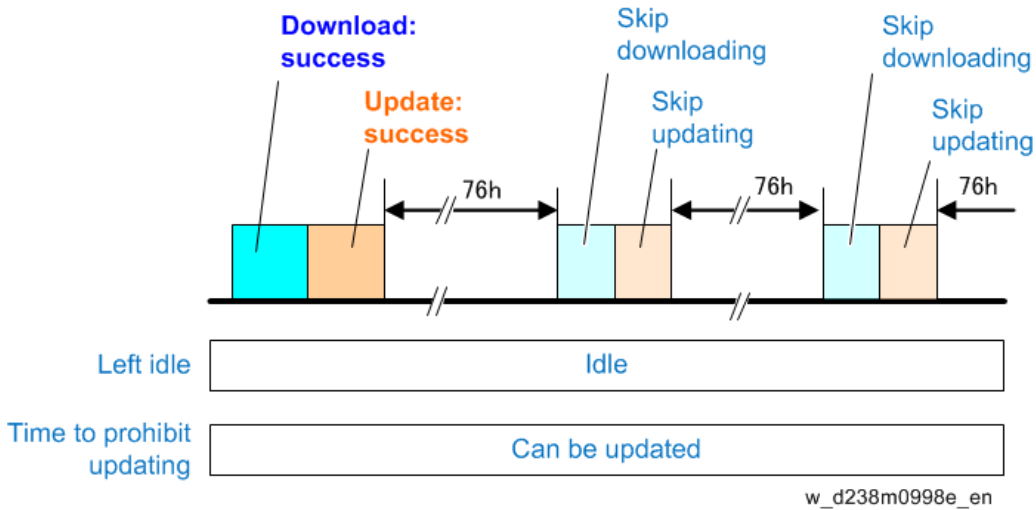
The auto remote firmware update is executed every 76 hours.

---

### Judgement of ARFU

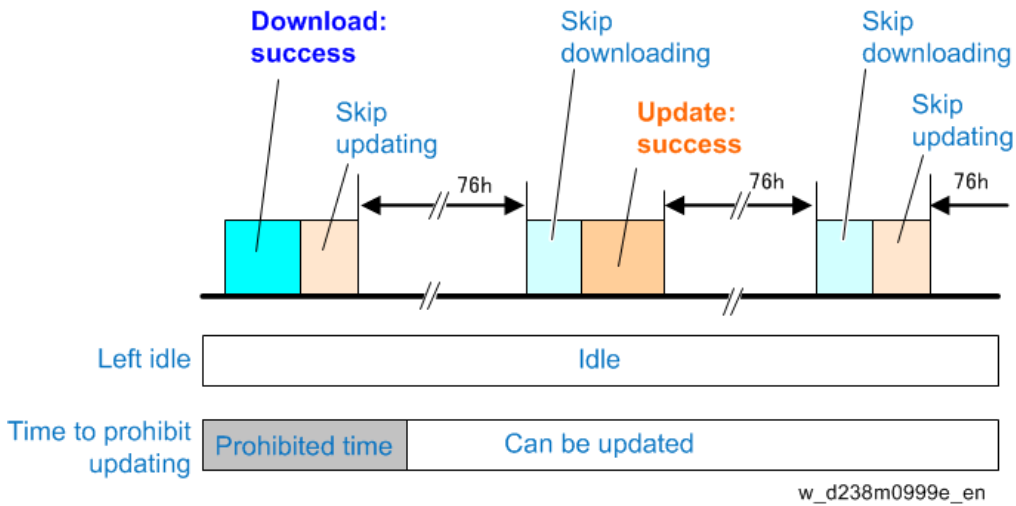
---

Update judgement is done when the latest update package is successfully downloaded, or the package has already been downloaded.



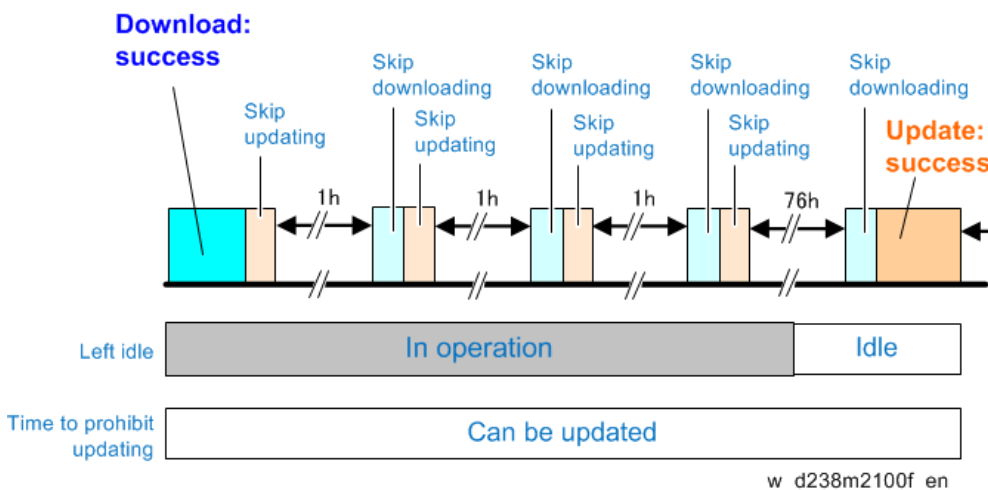
w\_d238m0998e\_en

If the judgement timing is in the range of the update prohibited time or day set with SP or WIM, the machine will retry the update after 76 hours.



w\_d238m0999e\_en

If the machine is in use when the judgement process runs, the process is retried. Retry is done up to three times every hour (can be changed with SP) and if the machine is in use for all three retries, the machine will retry the update after 76 hours



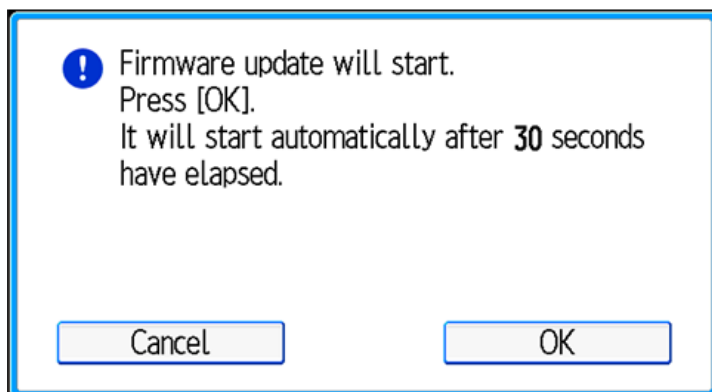
w\_d238m2100f\_en

**Situations judged as machine in use**

No.	Situations judged as machine in use
1	When the control panel is used within 30 seconds
2	During firmware update
3	While firmware update is disabled
4	While printing (copy, printer, fax, re-printing via network)
5	While scanning (copy, scanner, fax)
6	Retrieving image data via network
7	While initial setting (User Tools settings) or SP is being set
8	While fax is transferring data
9	During on hook / on handset
10	During the PC-FAX process (from PC to machine data transfer to the end of the job)
11	While shifting to/from the energy server mode
12	When not being able to run firmware update due to the modules that are running e.g.) Waiting for DCS transfer (refer to appendix), accessing devices such as eMMC/SD card, etc.
13	While displaying a preview
14	While the document server function is in use
15	Connecting to TWAIN
16	During the interrupt copy process
17	While displaying the printer menu
18	While updating the display for the document server function via WIM or for stored fax documents
19	While writing log information
20	While accessing the address book
21	During SC

Update Process

When the machine has decided to run the auto firmware update, the following message is displayed.



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The popup will have "Cancel" and "OK" buttons and the update process will start either when the "OK" button is selected or 30 seconds has passed.

When the "Cancel" button is selected, the machine will run the "Retry update" process.

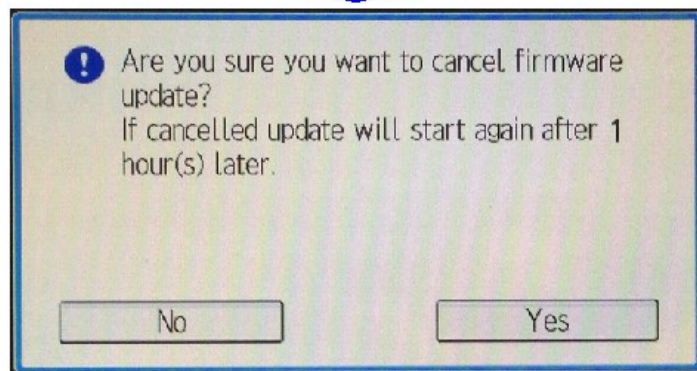
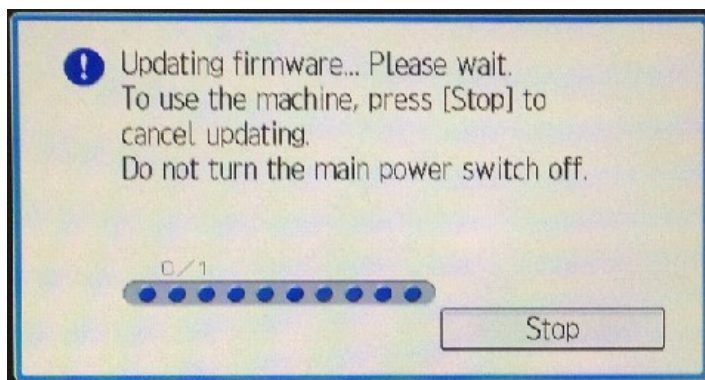
When the device update and three retries in recovery mode both fail, it is determined as a device defect and will display an SC for the defective device. If such an SC appears, replace the indicated board. In the case of SC845, the SC cannot be reported to the call center.

**Device and corresponding SC number**

Device name	SC number
Engine board	SC845-01
Controller board	SC845-02
Operation panel (normal panel)	SC845-03
Operation panel (smart panel)	SC845-04
FCU function (on the controller board and the fax board)	SC845-05

**Canceling the update**

It is possible to cancel the Auto Remote Firmware Update (ARFU) or update in recovery mode from the operation panel.



d238m2107

But this is not possible while updating the operation panel itself. On the other hand, the update for the operation panel will run at the final stage of the update. Thus canceling the update at that stage has no real effect.

## 5. System Maintenance

When the update is cancelled, the machine will reboot when updates for all modules of one of the following devices is done.

1. Engine Board
2. FCU function on the controller board and the fax board
3. Controller Board
4. Operation Panel

For example, when the update process is cancelled while updating the first module of the operation panel, the machine will reboot when all modules in the operation panel have been updated.

The firmware contents included in the package can be referred to in the release note in the SERES release of the package.

The next update will run 76 hours after the cancellation. The old (cancelled) package will be discarded if the package downloaded 76 hours later is the latest.

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### Checking the ARFU Result

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1. Enter the SP mode.
2. Press [Firmware update].
3. Press [Update].
4. Press [Update Package Information].
5. If the firmware package is the same as the one on the global server, the update was completed successfully. Otherwise, check the result using the logging date.

In SP7-520-041 to -045 (Update Log: Auto:Version), you can check the versions of the packages updated by ARFU. (-041 displays the latest result. It is also printed on the SMC sheet.)

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### Checking the Result Using the Log Data

---

1. Enter the SP mode.
2. Press [System/Copy].
3. Check the results for ARFU by SP7-520-051 to 060 (Update Log: Auto:Result)  
"-051" is the latest update result. For details about the number of each result log, see the next section "Related SP."

---

### Related SPs

---

SP Number	Selection Def.	Overview
SP5-886-111	0: OFF 1: ON	Sets auto update by ARFU ON/OFF.
SP5-886-112	0: OFF 1: ON	Will not run the update when update prohibited time setting is ON and the current time is in the range of the time set.
SP5-886-113	0 to 23	<ul style="list-style-type: none"><li>Start time &lt; End time: Prohibited time is from the start time to the</li></ul>



SP Number	Selection Def.	Overview
	<b>9</b>	end time on the same day.
SP5-886-114	0 to 23 <b>17</b>	<ul style="list-style-type: none"> <li>Start time &gt; End time: Prohibited time is from the start time to the end time on the next day.</li> <li>Start time == End time: Prohibited time setting is disabled. (Update will not be prohibited.)</li> </ul>
SP5-886-115	<b>0: OFF</b> 1: ON	Even when the update function is disabled, downloading the package is allowed. The downloaded package can be used with SFU.
SP5-886-116	Display only	Displays when the latest package check will run.
SP5-886-117	1 to 24 <b>1</b>	Set time for the next version check after retry.
SP5-886-120	<b>0x00</b>	Update will not run if the corresponding bit for each day below is set to 1. <ul style="list-style-type: none"> <li>Prohibited at all times: bit 7</li> <li>Monday: bit 6</li> <li>Tuesday: bit 5</li> <li>Wednesday: bit 4</li> <li>Thursday: bit 3</li> <li>Friday: bit 2</li> <li>Saturday: bit 1</li> <li>Sunday: bit 0</li> </ul> This setting is not changed by the prohibited time setting. e.g.) Prohibited on Mon., Fri., Sat., and Sun. : 0x47 (01000111)
SP7-520-011 to 015	Display only	History of dates and times when update has started. The five most recent are recorded, the lowest number being most recent. If the last update failed, this is not recorded.
SP7-520-021 to 025	Display only	History of dates and times when update has finished. The five most recent are recorded, the lowest number being most recent. The record is created when the update has successfully finished. When the update is cancelled, no record is created.
SP7-520-031 to 035	Display only	History of the package numbers (including suffix) for which update has completed. The five most recent are recorded, the lowest number being most recent.

## 5. System Maintenance

SP Number	Selection Def.	Overview
		The record is created when the update has successfully finished. When the update is cancelled, no record is created.
SP7-520-041 to 045	Display only	History of the package versions for which update has completed. The five most recent are recorded, the lowest number being most recent.  The record is created when the update has successfully finished. When the update is cancelled, no record is created.
SP7-520-051 to 060	Display only	History of the results of the download and the update. Refer below for the numbers set.

### Numbers set for the result history for SP7-520-051 to 060

No.	Result	Description
1	Downloading with SFU	Cannot download or update because the machine is now downloading the package for SFU.
2	HDD not installed	Cannot download or update because the machine has no HDD.
3	Updating with SFU	Cannot download or update because the machine is being updated with SFU.
4	HDD error	Cannot download or update because the HDD cannot be used.
5	Version information obtain error	Cannot download or update because the version information cannot be obtained.
6	Update download error	Cannot download or update because the update download failed.  In the non @Remote method, this shows that the download failed because there was no proxy set.
7	Name resolution error	Cannot download or update because the name cannot be resolved upon downloading the update.
8	Auto update setting disabled	The package has been downloaded but will not run the update because SP5-886-111 (auto update setting) is disabled and SP5-886-115 (auto download setting for SFU) is enabled.
9	Update prohibited time	Cannot start to update because the auto update prohibited time setting (SP5-886-112) is enabled and the time update initiated was in the range of prohibited time (SP5-886-113 to 114).  Or the day which update was initiated was a day for which

No.	Result	Description
		update was prohibited (SP5-886-120).
10	Update postponed due to machine in use	<p>Cannot start update due to the following conditions when update was initiated.</p> <ul style="list-style-type: none"> <li>• The machine is in use by a user (the panel was used within 30 seconds)</li> <li>• Machine offline for other reasons</li> <li>• Operation prohibited</li> <li>• Displaying SP/UP menu</li> <li>• Firmware update is running with another method</li> <li>• Configuration change prohibited</li> <li>• Verifying the operation panel (smart panel)</li> </ul>
11	Update cancelled by user	Update was cancelled because a user selected "Cancel" in the popup shown before starting the update.
12	Offline failed	Cannot start to update because the machine is offline for other reasons.
13	Update successful	Update was started and successfully completed.
14	Update failed	Update was started but failed.
15	Update deemed completed	<p>Update was cancelled after the process was initiated because a user selected "Cancel". There is no need to resume the update due to one of the following reasons:</p> <ul style="list-style-type: none"> <li>• A newer update has been released and received.</li> <li>• When retrying ARFU, the update has already been completed by another method.</li> </ul>
16	Update cancelled by user after update initiated	Update was cancelled after the process initiated because a user selected "Cancel" during the update.
17	Version information obtain error (communication error occurred for hostname)	Cannot download or update because the name cannot be resolved when obtaining version information.
18	Version information obtain error (proxy verification failure)	Cannot download or update because the proxy verification failed with proxy settings when obtaining version information.
19	Version information obtain error (other than proxy verification failure when proxy is set)	Cannot download or update because an error other than proxy verification with proxy settings occurred when obtaining version information.
20	Update download error (proxy verification failure)	Cannot download or update because the proxy verification failed with proxy settings when downloading the package.
21	Update download error (other	Cannot download or update because an error other than

## 5. System Maintenance

No.	Result	Description
	than proxy verification failure when proxy is set)	proxy verification with proxy settings occurred when downloading the package.
22	Update by retry successful	<p>After power failure, unsuccessful update, or rebooting, update by retry is executed successfully.</p> <p>However, this does not apply to the case where the update was cancelled after the process was initiated because a user selected "Cancel".</p> <p>In this case, the update is "successful" if the retry is not executed between the start and completion of the next update (76 hours after the cancellation).</p>

## Address Book Upload/Download (Only for MF Models)

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### Information List

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The following information is possible to be uploaded and downloaded.

Information	
<ul style="list-style-type: none"> <li>• Registration No.</li> <li>• User Code</li> <li>• E-mail</li> <li>• Protection Code</li> <li>• Fax Destination</li> <li>• Fax Option</li> <li>• Group Name</li> <li>• Key Display</li> </ul>	<ul style="list-style-type: none"> <li>• Select Title</li> <li>• Folder</li> <li>• Local Authentication</li> <li>• Folder Authentication</li> <li>• Account ACL</li> <li>• New Document Initial ACL</li> <li>• LDAP Authentication</li> </ul>

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### Download

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With this machine, download and restore from WIM. Like conventional machines, backup and restore cannot be performed from SP mode.

- 1.** Open a web browser.
- 2.** Enter "http://(the machine's IP address or host name)/" in the address bar.
- 3.** Click [Login].
- 4.** Login using the administrator account.  
Depending on the configuration of your web browser, the login user name and password might be saved.  
Configure your web browser's settings in advance so that this information is not saved (do not get the customer's account details).
- 5.** Point to [Device Management], and then click [Address Book].
- 6.** Click [Maintenance].
- 7.** Enter an encryption key as necessary.
- 8.** Click Execute Backup.
- 9.** A download window will appear from the browser, and so specify the save destination, and then click save.

---

### Upload

---

- 1.** Open a web browser.
- 2.** Enter "http://(the machine's IP address or host name)/" in the address bar.
- 3.** Click [Login].
- 4.** Login using the administrator account.

## 5. System Maintenance

Depending on the configuration of your web browser, the login user name and password might be saved.

Configure your web browser's settings in advance so that this information is not saved (do not get the customer's account details).

- 5.** Point to [Device Management], and then click [Address Book].
- 6.** Click [Maintenance].
- 7.** Enter an encryption key as necessary.
- 8.** Click "Restore Settings".
- 9.** Click "Browser", select a backup file, and then click "Open".
- 10.** After it has uploaded, click "OK".

### Note

- The counter in the user code information is initialized after uploading.
- The information of an administrator and supervisor cannot be downloaded nor uploaded.



## Uploading/Downloading NVRAM Data

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### Uploading Content of NVRAM to an SD Card

---

Do the following procedure to upload SP code settings from NVRAM to an SD card.

**Note**

- All data that is stored in NV-RAM of the engine and controller is subject to update.

**Note**

- This data should always be uploaded to an SD card before the NVRAM is replaced.
- Make sure that the write protection of an SD card is unlocked

**1.** Do SP5-990 (SMC Print) before you switch the machine off. You will need a record of the NVRAM settings if the upload fails.

**2.** Switch the machine main power switch off.

**3.** Remove the SD slot cover.

**4.** Insert the SD card into SD card slot. Then switch the machine on.

**5.** Execute SP5-824 (NVRAM Data Upload) and then press the “Execute” key.

**6.** The following files are copied to an NVRAM folder on the SD card when the upload procedure is finished. The file is saved to the following path and filename:

NVRAM\`<serial number>.NV`

Here is an example with Serial Number “K5000017114”:

NVRAM\K5000017114.NV

**7.** In order to prevent an error during the download, be sure to mark the SD card that holds the uploaded data with the number of the machine from which the data was uploaded.

**Note**

- You can upload NVRAM data from more than one machine to the same SD card.

### Downloading an SD Card to NVRAM

---

Do the following procedure to download SP data from an SD card to the NVRAM in the machine.

- The NVRAM data download may fail if the SD card with the NVRAM data is damaged, or if the connection between the controller and EGB is defective.
- Do the download procedure again if the download fails.
- Do the following procedure if the second attempt fails:  
Enter the NVRAM data manually using the SMC print you created before uploading the NVRAM data.

**1.** Switch the machine main power switch off.

**2.** Remove the SD slot cover.

**3.** Insert the SD card with the NVRAM data into SD Card Slot.

**4.** Switch the machine main power switch on.

**5.** Do SP5-825(NVRAM Data Download) and press the “Execute” key.

## 5. System Maintenance

### Note

- The serial number of the file on the SD card must match the serial number of the machine for the NVRAM data to download successfully. The download fails if the serial numbers do not match.

This procedure does not download the following data to the NVRAM:

- Total Count
- Total: Full Color
- B&W/Single Color
- Default charge counters for counter display
- External controller information settings (SP5193-001)

## Capturing the Device Logs

### Overview

Using the Capturing Log feature, you can retrieve the device log stored in the SD card inserted in the service slot. It allows the Customer Engineer to save and retrieve error information for analysis.

The Capturing Log feature saves device logs for the following four.

- Controller device log including operation log
- Engine device log
- Fax board device log (MF model only)
- Operation panel log

#### ★ Important

- In older models, a technician enabled the logging tool after a problem occurred. After that, when the problem had been reproduced, the technician was able to retrieve the device log.
- However, this new feature saves the device logs at the time that problems occur. Then you can copy the logs to an SD card.
- You can retrieve the device logs using a SD card without a network.
- Analysis of the device log is effective for problems caused by the software. Analysis of the device log is not valid for the selection of defective parts or problems caused by hardware.
- Make sure to shut down and reboot the machine once before retrieving the Debug Logs. Otherwise, the latest settings may not be collected when the debug logs are retrieved.

### Types of device logs that can be saved

Type	Storage Timing	Destination (maximum storage capacity)
Controller device log including operation log	<ul style="list-style-type: none"> <li>• Saved at all times</li> </ul>	SD card connected to the service slot. <ul style="list-style-type: none"> <li>• When using an 8 GB SD card: If the data exceeds 4 GB, log entries are deleted starting with the oldest.</li> <li>• When using a 16 GB SD card: If the data exceeds 8 GB, log entries are deleted starting with the oldest.</li> </ul>
Engine device	<ul style="list-style-type: none"> <li>• When an engine SC occurs</li> </ul>	SD card connected to the

## 5. System Maintenance

Type	Storage Timing	Destination (maximum storage capacity)
log	<ul style="list-style-type: none"> <li>When paper feeding/output stop because of a jam</li> <li>When the machine doors are opened during normal operation</li> </ul>	service slot (Up to 300 times)
FCU device log	<ul style="list-style-type: none"> <li>When a specified amount of FCU function device log is stored in the controller board. If fax application is unavailable (e.g. not installed), the machine does not transfer the log.</li> </ul>	SD card connected to the service slot
Operation panel log	<ul style="list-style-type: none"> <li>When an error related to the operation panel occurs.</li> </ul>	Memory in the operation panel.

### ↓ Note

#### Device logs are not saved in the following conditions:

- While erasing all memory
- While data encryption equipment is installed
- While changing the firmware configuration
- Forced power OFF (accidentally disconnecting the outlet)
- Engine device log while the machine is shutting down
- When one of the following SCs occurs: SC672, SC816, SC819, SC878, SC899, SC859, SC860, SC861, SC863, or SC864

### ↓ Note

#### The following logs are not saved:

- Logs related to the energy saver mode (Engine-off, suspend-mode, or other cases)
- Network communication log
- Logs related to NRS
- IP-FAX log
- Access log for unauthorized users (guests)
- HTTP session timeout log
- Auto log-out log
- IC card related log
- Authorization for Fax

#### Security of the Operation Log

---

The following operation logs related to security are not saved.

- User ID
- Password
- IP address
- Telephone number

- Encryption key
- Transition to SP mode

---

## Storing the Device Logs on an SD Card

---

The model without HDD does not have space to store device logs. To store device logs on such a model, insert an SD card into the service slot on the back of the machine.

### ★ Important

- It is recommended to use the SD card (8 GB or 16GB) provided as a service part. The part number of the SD card that is registered as a service part is "B6455040"(8 GB) and "B6455060"(16 GB).
- In SP C361SFNw, the micro SD card on the controller board cannot be used for storing device logs. To store device logs, insert an SD card into the service slot.

- 1.** Insert the SD card into the service SD card slot.
- 2.** Turn ON the main power.
- 3.** Enter SP mode.
- 4.** Set SP5-858-001 (Save Machine Info) to "1 (ON)"
- 5.** Set SP5-858-002 (Target) to "1 (SD)"
- 6.** Execute SP5-858-003 (Make LogTrace Dir)
- 7.** Turn the power switch OFF and ON.

After the power switch is turned on, the machine starts to store the device logs on the SD card. However, because the logs on this SD card are not organized, the procedure to retrieve the logs with the other SD card via the operation panel (next section) is required.

### ★ Important

If you set SP5-858-002 (Target) to "0 (HDD)" in Step 5, when an SC occurs, only the log entry of the device related to the SC is stored in the eMMC without storing a log entry in the SD card. When the controller board is broken, the log cannot be stored in the eMMC.

---

## Retrieving the Device Logs via Operation Panel

---

After turning the power off, remove the SD card for storing the device log from the service slot and then retrieve the log.

In MF models, in addition to the method mentioned above, you can copy the device logs stored on the SD card in the service slot by inserting another SD card into the SD card slot on the operation panel. For details, see [Procedure for Retrieving the Device Log with Another SD Card \(for MF Models\)](#).

## 5. System Maintenance

### ★ Important

- Analysis of the device log is effective for problems caused by the software. Analysis of the device log is not valid for the selection of defective parts or problems caused by hardware.
- In SP C361SFNw, the micro SD card on the controller board cannot be used for retrieving the device log.

### Procedure for Retrieving the Device Log with Another SD Card (for MF Models)

---

#### 1. Insert the SD card into the slot on the side of the operation panel.

##### ★ Important

- It is recommended to use the SD card (8 GBs\* or 16 GBs\*\*) provided as a service part. This is because the log data can be acquired much faster than when using commercially available SD cards.
- Format the SD card by using SD Formatter from Panasonic before copying the logs:  
[https://www.sdcard.org/downloads/formatter\\_3/](https://www.sdcard.org/downloads/formatter_3/) (free software)

\* The part number of the 8 GB SD card that is registered as a service part is "B6455040".

\*\* The part number of the 16 GB SD card that is registered as a service part is "B6455060".

#### 1. Turn ON the main power.

#### 2. Enter SP mode.

#### 3. Specify the date that the problem occurred in SP5-858-101 (Start Date) by setting it to the year-month-day calendar format.

- For example, if a problem occurred on February 1, 2015, the date should be set to "20150201".
- Be sure to check the date that the problem occurred before obtaining the logs.

#### 4. Specify the number of days to collect the logs in SP5-858-102 (Days of Tracing).

- "2" is set by default, which is the minimum needed for investigating the problem.
- A value of "1" to "180" can be set.

#### 5. Execute SP5-858-111 (Acquire All Info & Logs) to copy all of the log types to an SD card.

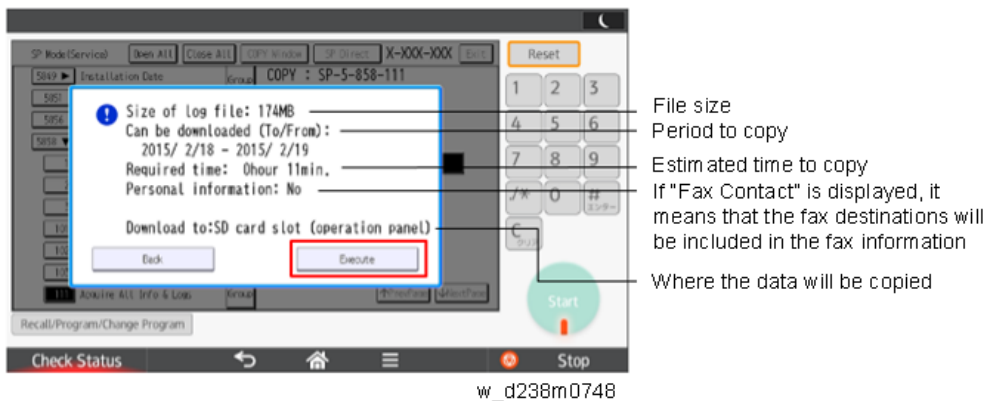
It is possible to obtain the logs separately by the following SPs.

SP	Collectable Information and/or Logs
SP5-858-111	All of the information and logs that are collected by executing the SPs from SP5-858-121 to SP5-858-145, and SMC.
SP5-858-121	Configuration page
SP5-858-122	Font page
SP5-858-123	Print settings list
SP5-858-124	Error log



SP	Collectable Information and/or Logs
SP5-858-131	Fax information (whether the fax destinations are included or not depends on the setting of SP5-858-103.)
SP5-858-141	Controller log, engine log, operation panel log, FCU, and SMC.
SP5-858-142	Controller log
SP5-858-143	Engine log
SP5-858-144	Operation panel log
SP5-858-145	FCU log
SP5-992-001	SMC

6. After executing the SP for copying the information and/or logs, a confirmation screen will appear. To proceed with obtaining the information and/or logs, tap "Execute"



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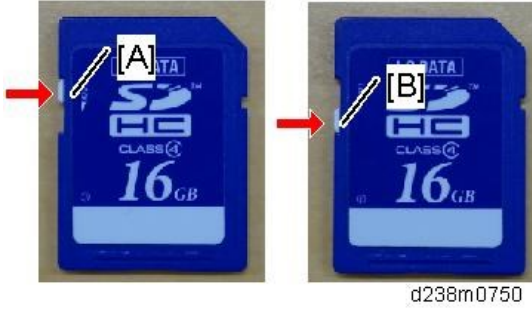
**Note**

- The approximate time it takes to transfer the debug log is as follows. Transfer time may be affected by the type or format of the SD card.  
 Controller device log (GW device log): 2 - 20 minutes  
 Engine device log: 2 minutes  
 Operation panel device log: 2 - 20 minutes

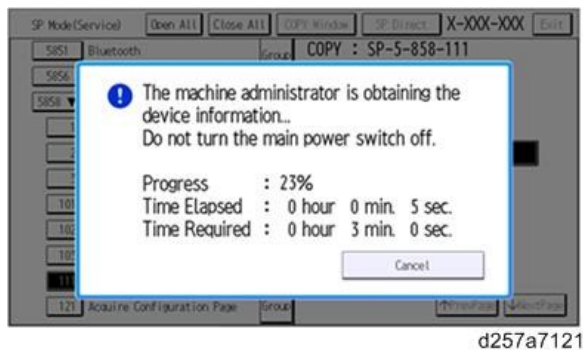
If the estimated time is not calculated due to an error, an error code will be displayed.

Error Code	Description
-1	Other.
-2	No SD card is inserted in the SD card slot on the side of the operation panel. In this

## 5. System Maintenance

Error Code	Description
	case, insert an SD card into the SD card slot on the side of the operation panel.
-3	<p>The SD card is locked. In this case, unlock the SD card, as shown below.</p>  <p>[A]: Unlocked, [B]: Locked</p>

- 7.** Wait for the information and/or logs to be copied to the SD card.



- 8.** After a message stating that the process has completed appears on the operation panel, confirm that the LED light next to the SD card slot on the side of the operation panel is not flashing and then remove the SD card.
- 9.** Make sure that the SD card access LED is off, then remove the SD card from the SD card slot on the side of the operation panel.

### Note

- The process of obtaining logs fails in the following cases:
  - When the size of the logs to obtain exceeds the amount of space available on the SD card.
  - When the SD card is removed while the logs are being copied to it.
  - When the SD card is not formatted.
- If 'failed' appears on the touch panel display, turn the power off, and then recover from step 1 again.

## Retrieving the Device Logs via Web Image Monitor

The device logs can be retrieved via the Web Image Monitor.

- 1.** Access the following URL and logon as an administrator:

[http://\[IP address or host name\]/web/entry/df/websys/direct/getSysInfo.cgi](http://[IP address or host name]/web/entry/df/websys/direct/getSysInfo.cgi)



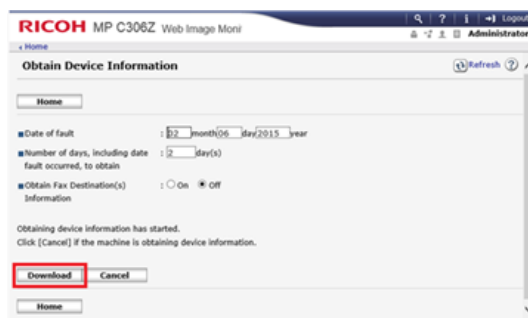
**RICOH**  
**Web Image Monitor**

Login User Name :

Login Password :

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2. Specify the date that the problem occurred and the number of days to download the logs. If the fax destinations need to be included in the fax information, set "Obtain Fax Destination(s) Information" to "On". Then click "Download".



**RICOH** MP C306Z Web Image Monitor Administrator

Home

**Obtain Device Information** Refresh

Home

■ Date of fault : 02 month 06 day 2015 year

■ Number of days, including date fault occurred, to obtain : 2 day(s)

■ Obtain Fax Destination(s) Information :  On  Off

Obtaining device information has started.  
Click [Cancel] if the machine is obtaining device information.

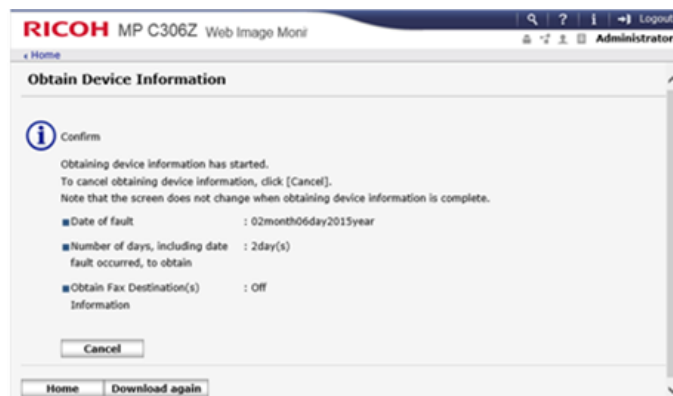
Home

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**Note**

- "3" is set by default for "Number of days, including date fault occurred, to obtain". However "2", which is the minimum needed for investigating the problems, is recommended for reducing the downloading time.
- "Obtain Fax Destination(s) Information" is set to "Off" by default.

3. The confirmation screen will appear and the information and/or logs will start downloading. To proceed to download the information and/or logs, wait for the open-or-save dialog to appear.



**RICOH** MP C306Z Web Image Monitor Administrator

Home

**Obtain Device Information**

**Confirm**

Obtaining device information has started.  
To cancel obtaining device information, click [Cancel].  
Note that the screen does not change when obtaining device information is complete.

■ Date of fault : 02month06day2015year

■ Number of days, including date fault occurred, to obtain : 2day(s)

■ Obtain Fax Destination(s) Information : Off

Home

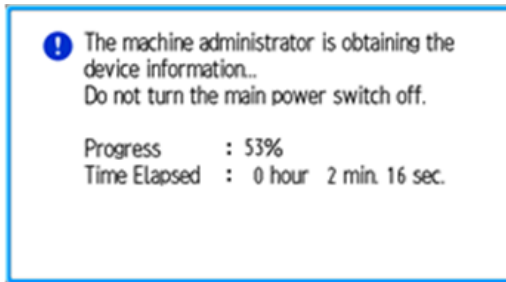
d238m0886

**Note**

- To cancel downloading, click "Cancel".
- To reconfigure some settings, click "Download again".

## 5. System Maintenance

- Operation panel when downloading the logs:



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4. After a while, the open-or-save dialog will appear. Specify where to download and save the file.



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### Note

- The debug logs are saved with the following file names. These names are the same as the files downloaded with SD card.

### The device logs are saved with the following file names.

Controller log (mmsg)	/LogTrace/[the model number]/watching/[yyyymmdd_hhmmss]_[a unique value].gz
Engine device log	/LogTrace/[Machine Serial]/engine/[yyyymmdd_hhmmss].gz
Operation panel log	/LogTrace/[the model number]/opepanel/[yyyymmdd_hhmmss].tar.gz
SMC	/LogTrace/[the model number]/smc/[the model number]_[5992XXX]_[yyyymmdd]_[hhmmss].csv
Configuration page	/LogTrace/[the model number]/gps/ConfigurationPage/ConfigurationPage_[yyyymmdd_hhmmss].csv
Font page	<ul style="list-style-type: none"> <li>• /LogTrace/[the model number]/gps/FontPage/FontPage_PCL_[the page number]_[yyyymmdd_hhmmss].jpg</li> <li>• /LogTrace/[the model number]/gps/FontPage/FontPage_PDF_[the page number]_[yyyymmdd_hhmmss].jpg</li> <li>• /LogTrace/[the model number]/gps/FontPage/FontPage_PS_[the page number]_[yyyymmdd_hhmmss].jpg</li> </ul>
Print settings list	<ul style="list-style-type: none"> <li>• /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RPGL_[yyyymmdd_hhmmss].txt</li> <li>• /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RTIFFF_[yyyymmdd_hhmmss].csv</li> </ul>
Error log	/LogTrace/[the model number]/gps/ErrorLog/[yyyymmdd_hhmmss].csv

## 5. System Maintenance

Fax information	/LogTrace/[the model number]/faxreport/[yyyymmdd_hhmmss].csv
FCU debug log	/LogTrace/[Machine Serial]/fcu-log/[yyyymmdd_hhmmss].gz

## SMC List Card Save Function

### Overview

The SMC List Card Save (SP Text Mode) function is used to save the SMC list as CSV files to the SD card inserted into the operation panel SD card slot.

#### ★ Important

- Make sure to shut down and reboot the machine once before exporting the SMC sheet data. Otherwise, the latest settings may not be collected when the SMC is exported.

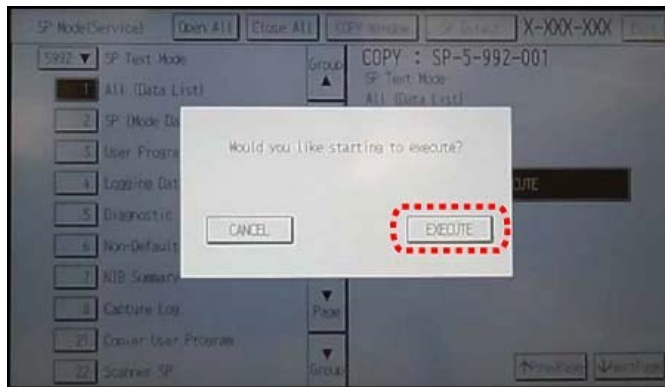
### Procedure

1. Turn OFF the power.
2. Insert the SD card into the operation panel SD-card slot, and then turn ON the power.
3. Enter SP mode.
4. Select [System/Copy SP].  
In the printer model, select "ENGINE".
5. Select SP5-992-001 (SP Text Mode) and press [EXECUTE].
6. Select a detail SP number shown below to save data on the SD card.

Detail No.	SMC Categories to Save
001	All (Data List)
002	SP (Mode Data List)
003	User Program (only for MF model)
004	Logging Data
005	Diagnostic Report
006	Non-Default
008	Capture Log (only for MF model)
021	Copier User Program (only for MF model)
022	Scanner SP (only for MF model)
023	Scanner User Program (only for MF model)
026	Printer SP
027	Smart Operation Panel SP (only for MF model)
028	Smart Operation Panel UP (only for MF model)



**7.** Press [EXECUTE].



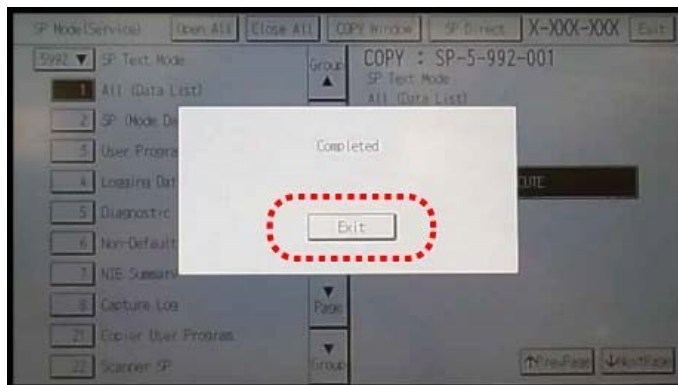
d1440128

**8.** Press [EXECUTE] again to start. Press [CANCEL] to cancel the saving.



d1440130

**9.** "It is executing it" is shown on the screen while executing.



d1440129

**10.** Wait for 2 to 3 minutes until "Completed" is shown.

**Note**

- The SMC list saving may take from 2 to 3 minutes to complete.
- Press [CANCEL] to abort executing.

**11.** Press [Exit] to exit from SP mode.

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## File Names of the Saved SMC Lists

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The SMC list data saved on the SD card will be named automatically. The file naming rules are as follows.

## 5. System Maintenance

Example:

W801P999017\_59921\_20111011\_53954.csv

d1440131a

**A:**

**Machine serial number (fixed for each machine)**

**B:**

**SP number saved in this file.**

First four digits (5992) in this part are fixed. The other one or two digits are the detail SP number(s). In this case, it is one digit. Therefore, this file is of SP5-992-001 (All data list). See the above SP table for the correspondence between SP detail numbers and the contents.

**C:**

**File creation date**

Year/Month/Day (“Zero” will be omitted if each is one digit.)

**D:**

**File creation time**

Hour/Minute/Second (“Zero” will be omitted if each is one digit.)

**E:**

**File Extension CSV (Comma Separated Value)**

This part is fixed.

### **Note**

- A folder named by the machine serial number will be created on the SD card when this function is executed.
- This function can save the SMC list data only to an SD card inserted into the operation panel SD card slot.

---

## Error Messages

---

SMC List Card Save error message:

- **Failed:**

FACTOR: Read-only file system, No space left on device.

If an error occurs, pressing “Exit” will cause the device to discard the job and return to the ready state.

## SP Data Import/Export

### Data That Can Be Imported and Exported

- System SP
- Printer SP
- Fax SP
- Scanner SP

### Exporting Device Information

When exporting SP device information from the control panel, the data is saved on an SD card.

- 1.** Insert an SD card into the media slot on the side of the control panel.
- 2.** Enter SP mode.
- 3.** Do SP5-749-001 (Import/Export: Export).
- 4.** Select "Target" SP settings (System/Printer/Fax/Scanner) to be exported.
- 5.** Select the "Option" setting (Unique/Secret).

Item	Specification	Note
Unique	Unique information of the machine is included in the exported file if you select "Unique".	<p><b>Unique information that can be updated</b></p> <p>#1. Items that are to be used to identify the machine. Example: Network Information/ Host name / Information related to fax number /Mail address assigned to the machine</p> <p>#2. Items for specifying the options equipped on the machine. Example: Lot number for developer</p> <p><b>Unique information that cannot be updated</b></p> <p>#1. Items that may cause a problem if imported Example: Serial number / Information related to @Remote</p> <p>#2. Items for managing the history of the machine Example: Time and date / Counter information / Installation date</p> <p>#3. Setting values for the Engine</p>
Secret	Secret information is exported if you select "Secret".	<p><b>Secret information</b></p> <p>#1. Data that cannot be exported without being encrypted. (Exported data is encrypted.)</p>

## 5. System Maintenance

Item	Specification	Note
		Example: Password / Encryption key / PIN code #2. Confidential information for the customer Example: User name / User ID / Department code / Mail address / <b>Phone number</b> #3. Personal information Example: Document name / Image data #4. Sensitive information for the customer Example: MAC address / Network parameters

Note: The IP address is exported when both 'Unique' and 'Secret' are selected.

### 6. Select the "Crpt config" setting (Encryption).

Encryption	Select whether to encrypt or not when exporting.  If you push the "Encryption" key, you can export secret information.	If the encryption function is used, setting of an encryption key is required by direct input. <ul style="list-style-type: none"> <li>Type the arbitrary password using the soft keyboard</li> <li>Can enter up to 32 characters</li> </ul>
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### 7. Press [Execute].

### 8. Press [OK].

#### Note

- If data export fails, the details of the error can be viewed in the log.

---

## Importing Device Information

---

Import device information saved on an SD card.

### 1. Insert an SD card into the media slot on the side of the control panel.

### 2. Enter SP mode.

### 3. Select SP5-749-101(Import/Export: Import)

### 4. Select whether to include (On) or exclude (Off) the machine unique information.

#### Note

If you select exclude (Off), the unique information such as machine IP address will not be imported.

### 5. Press [Encryption Key], if the encryption key was created when the file was exported.

### 6. Select an encryption setting.

Unique	If you want to apply the unique information to the target machine, select the "Unique" key.	Refer to the above information.
Encryption	If an encrypted file is selected as the import file, this setting is required.	

### 7. Press [Execute].

### 8. Press [OK].

**Note**

- If data export fails, the details of the error can be viewed in the log.

## Possible Solutions for Import/Export Problems

The access log file is created when export/import is executed. The file is stored in the same location as the exported device setting information file.

If an error occurs, check the log's result code in the access log file first. Values other than 0 indicate that an error occurred.

The result code will appear in the circled area illustrated below.

- Example of a log file

```
*1.0.0*
*ExecType*,*Date*,*SerialNo*,*PnP*,*Model*,*Destination*,*IP*,*Host*,*Storage*,*FileName*
*FileID*,*TotalItem*,*NumOfOkItem*,*ResultCode*,*ResultName*,*Identifier*
*IMPORT*
*2012-07-05T15:29:16+09:00*
*3C35-7M0014*
*Brand Name*
*Product Name*
*0*
*10*
*10.250.155.125*
*RNP00267332582D*
*SD*
*201207051519563C35-710220.csv*
*201207051519563C35-710220*
* 0*
* 2*
*INVALID REQUEST*
*TargetID*,*ModuleID*,*PrefID*,*Item*,*NgCode*,*NgName*
```

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If you cannot solve the problem or do not know how to solve it after checking the code, note down the error log entry, then contact your supervisor.

Result Code	Cause	Solutions
2 (INVALID REQUEST)	A file import was attempted between different models or machines with different device configurations.	Import files exported from the same model with the same device configurations.
4 (INVALID OUTPUT DIR)	Failed to write the device information to the destination device.	Check whether the destination device is operating normally.
7 (MODULE ERROR)	An unexpected error occurred during import or export.	Switch the power off and then back on, and then try the operation again. If the error persists, contact your supervisor.
8 (DISK FULL)	The available storage space on the external medium is insufficient.	Execute the operation again after making sure there is enough storage space.
9 (DEVICE ERROR)	Failed to write or read the log file.	Check whether the path to the folder for storing the file or the folder in which the file is stored is missing.

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Result Code	Cause	Solutions
20 (PART FAILED)	Failed to import some settings.	<p>The reason for the failure is logged in "NgCode". Check the code.</p> <p><b>Reason for the Error (Ng-Name)</b></p> <p>2. INVALID VALUE The specified value exceeds the allowable range.</p> <p>3. PERMISSION ERROR The permission to edit the setting is missing.</p> <p>4. NOT EXIST The setting does not exist in the system.</p> <p>5. INTERLOCK ERROR The setting cannot be changed because of the system status or interlocking with other specified settings.</p> <p>6. OTHER ERROR The setting cannot be changed for some other reason.</p>
21 (INVALID FILE)	Failed to import the file because it is in the wrong format in the external medium.	<p>Check whether the file format is correct.</p> <p>The import file should be a CSV file.</p>
22 (INVALID KEY)	The encryption key is not valid.	Use the correct encryption key.

### ↓ Note

- When exporting device information from the control panel, the data can be saved only on an SD card.
- The file format for exports is CSV.



## Card Save Function

### Overview

#### Card Save:

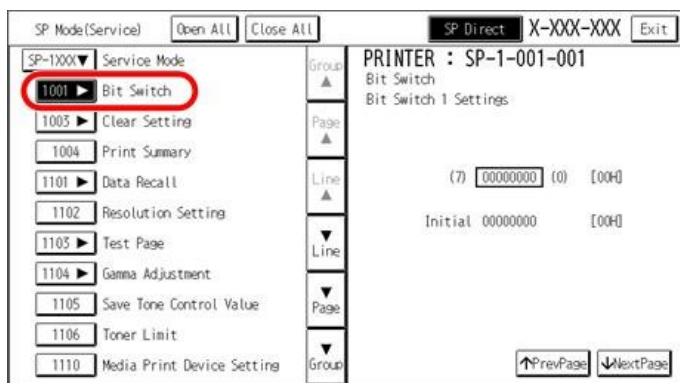
- The Card Save function is used to save print jobs received by the printer on an SD card with no print output. Card Save mode is toggled using printer Bit Switch #1 bit number 4. Card Save will remain enabled until the SD card becomes full, or until all file names have been used.
- Captures are stored on the SD card in the folder /prt/cardsave. File names are assigned sequentially from PRT00000.prn to PRT99999.prn. An additional file PRT.CTL will be created. This file contains a list of all files created on the card by the card save function.
- Previously stored files on the SD card can be overwritten or left intact. Card Save SD has "Add" and "New" menu items.
  - **Card Save (Add):** Appends files to the SD Card. Does not overwrite existing files. If the card becomes full or if all file names are used, an error will be displayed on the operation panel. Subsequent jobs will not be stored.
  - **Card Save (New):** Overwrites files in the card's /prt/cardsave directory.

#### Limitation:

- Card Save cannot be used with PJL Status Readback commands. PJL Status Readbacks will not work. In addition they will cause the Card Save to fail.

### Procedure (for MF Models)

1. Turn OFF the power.
2. Insert the SD card into the service slot or the slot on the left side of the operation panel, and then turn ON the power.
3. Enter SP mode.
4. Select the [Printer SP].
5. Select SP1-001 (Bit Switch).

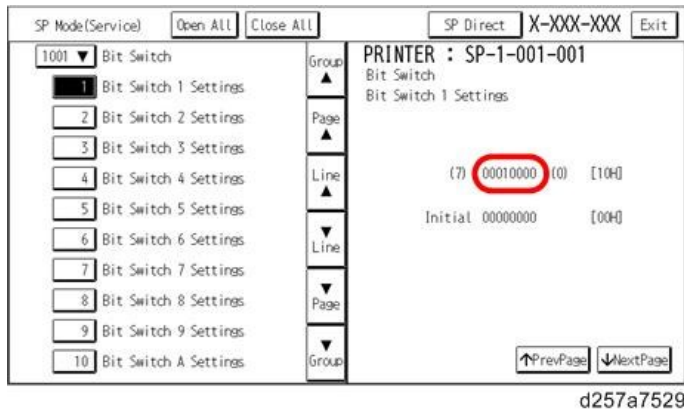


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6. Select "Bit Switch 1 Settings", use the numeric keypad to turn bit 4 ON, and then press the "#" button to register the change. The result should look like: 00010000. By doing this, the Card Save

## 5. System Maintenance

option will appear in the "List/Test Print" menu.



- 7.** Press [Exit] to exit SP Mode.
- 8.** Press the [User Tools] icon > [Machine Features].
- 9.** Press [Printer Features].
- 10.** Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (Add) or Card Save (New).
- 11.** Press [OK] and then exit the "User Tools" menu.
- 12.** Press the [Printer] icon.
- 13.** "Card Save" is displayed in the top left of the display panel.
- 14.** Send a job to the printer. The Communicating light should start blinking.
- 15.** As soon as the printer receives the data, it will be stored on the SD card automatically with no print output. Nothing is displayed on the screen, indicating that a Card Save operation was successful.
- 16.** Press [Reset] to exit Card Save mode.
- 17.** Change the bit switch settings back to the default 00000000. Press [#] in the numeric keypad to register the changes.
- 18.** Remove the SD card after the power is turned OFF.

---

### Procedure (for the Printer Model)

---

- 1.** Turn OFF the power.
- 2.** Insert the SD card into service slot, and then turn ON the power.
- 3.** Enter SP mode.
- 4.** Select the [Printer SP].
- 5.** Select SP1-001 (Bit Switch).
- 6.** Select "Bit Switch 1 Settings"(SP1-001-001), use the▲/▼/◀/▶ key to turn bit 4 ON, and then press the "OK" button to register the change. The result should look like: 00010000. By doing this, the Card Save option will appear in the "List/Test Print" menu.
- 7.** Press [Escape] 3 times and select "End" to exit SP Mode.
- 8.** Press the [MENU] key > [ListTest Print].
- 9.** Card Save (ADD) and Card Save (NEW) should be displayed on the screen. Select Card Save (ADD) or Card Save (NEW).

- 10.** Press [OK] and then exit the "ListTest Print" menu.
- 11.** Send a job to the printer. The Communicating light should start blinking.
- 12.** As soon as the printer receives the data, it will be stored on the SD card automatically with no print output. Nothing is displayed on the screen, indicating that a Card Save operation was successful.
- 13.** Press [Menu] to exit Card Save mode.
- 14.** Change the bit switch settings back to the default 00000000. Press the "OK" button to register the changes.
- 15.** Remove the SD card after the power is turned OFF.

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### Error Messages

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Card Save error messages:

- **Init error:** A card save process (e.g. card detection, change to kernel mode) failed to initialize.
- **Card not found:** Card cannot be detected in the slot.
- **No memory:** Insufficient working memory to process the job.
- **Write error:** Failed to write to the card.
- **Other error:** An unknown error occurred.

If an error occurs, pressing [OK] will cause the device to discard the job and return to the ready state.

## 6. Troubleshooting

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### Self-Diagnostic Mode

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#### Self-Diagnostic Mode at Power On

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As soon as the main machine is powered on, the controller waits for the initial settings of the copy engine to take effect and then starts an independent self-diagnostic test program.

The self-diagnostic test checks the CPU, memory, eMMC, and so on. An SC code is displayed if the self-diagnostic program detects any malfunction or abnormal condition. If the machine can start despite the error, the machine records it in the System Error Log.

## Service Call Conditions

The 'SC Table' section shows all the SC codes of this machine. They are put into four types. The types are determined by their reset procedures. The table shows the classification of the SC codes.

A	The SC is immediately displayed on the operation panel when the SC occurs. The error involves the fusing unit. Machine operation is disabled. The user cannot reset the error.	Reset the SC (set SP5-810-1) and then cycle the main power off and on.	Occurrence & alarm count ↓ Immediate alarm
B	When a function is selected, the SC is displayed on the operation panel. The machine cannot be used.	Turn the operation switch off and on.	Occurrence & alarm count ↓ Power OFF and ON ↓ Alarm count and alarm only upon recurrence
C	No display on the operation panel. The machine operates as usual.	Only the SC history is updated.	Occurrence ↓ Logging count & alarm count
D	The SC is displayed on the operation panel. The machine cannot be used (machine-error SC).	Turn the main power switch off and on.	Occurrence & alarm count ↓ Power OFF and ON ↓ Alarm count and alarm only upon recurrence
Type	Display	How to reset	SC call or SC alarm in customer support system

### ↓ Note

- When an ordinary SC (type D) is generated, an automatic reboot is performed. When an event is reported by the customer support system, even in the event of an ordinary SC, reboot is not performed. During automatic reboot, a confirmation screen is displayed after the reboot.
- When automatic reboot occurs twice continuously, an SC is displayed without rebooting, and logging count is performed. Also, when an SMC print is output, a \* mark is added alongside the SC number for clarity.

## 6.Troubleshooting

- Automatic reboot can be enabled or disabled with SP5-875-001 (SC automatic reboot setting) (default value: OFF).

### **SP descriptions**

- **SP5-875-001 (SC automatic reboot: Reboot Setting)**

Enables or disables the automatic reboot function when an SC error occurs.

0: The machine reboots automatically when the machine issues an SC error and logs the SC error code. If the same SC occurs again, the machine does not reboot.

1: The machine does not reboot when an SC error occurs.

The reboot is not executed for patterns A or C.



**SC100 (Scanning)**

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC101-01	D	CIS Error: Front Side
		The peak white level is less than the prescribed value.
		<ul style="list-style-type: none"> <li>• CIS is defective.</li> <li>• MPU is defective.</li> <li>• Power/signal harness is defective.</li> <li>• Scanner unit condensation</li> <li>• CIS is not set properly, or is dirty.</li> <li>• The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Clean the white guide plate.</li> <li>2. Reset/clean the CIS and white plate in the scanner.</li> <li>3. Replace the units in the following order: <ul style="list-style-type: none"> <li>• Original front side CIS</li> <li>• Engine board</li> <li>• PSU/Signal harness</li> </ul> </li> </ol>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC102-00	D	LED Illumination Adjustment Error: Front Side
		The white level peak reached the prescribed threshold when the white plate was scanned after a specified number of adjustments.
		<ul style="list-style-type: none"> <li>• CIS is defective.</li> <li>• MPU is defective.</li> <li>• Power/signal harness is defective.</li> <li>• Scanner unit condensation</li> <li>• CIS is not set properly, or is dirty.</li> <li>• The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Clean the white guide plate.</li> <li>2. Reset/clean the CIS and white plate in the scanner.</li> <li>3. Replace the units in the following order: <ul style="list-style-type: none"> <li>• Original front side CIS</li> <li>• Controller board</li> </ul> </li> </ol>


## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>PSU/Signal harness</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC111-01	D	CIS Error: Rear Side
		The peak white level is less than the prescribed value.
		<ul style="list-style-type: none"> <li>CIS is defective.</li> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> <li>Scanner unit condensation</li> <li>CIS is not set properly, or is dirty.</li> <li>The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Reset/clean the CIS and white plate in the document feeder.</li> <li>Replace the units in the following order: <ul style="list-style-type: none"> <li>Original rear side CIS</li> <li>Engine board</li> <li>PSU/Signal harness</li> </ul> </li> </ol>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC112-00	D	LED Illumination Adjustment Error: Rear Side
		The white level peak reached the prescribed threshold when the white plate was scanned after a specified number of adjustments.
		<ul style="list-style-type: none"> <li>CIS is defective.</li> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> <li>Scanner unit condensation</li> <li>CIS is not set properly, or is dirty.</li> <li>The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Reset/clean the CIS and white plate in the document feeder.</li> <li>Replace the units in the following order: <ul style="list-style-type: none"> <li>Original rear side CIS</li> <li>Controller board</li> </ul> </li> </ol>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>PSU/Signal harness</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC120-00	D	Scanner HP Error 1
		The scanner HP sensor does not detect the scanner leaving the home position (sensor does not go OFF).
		<ul style="list-style-type: none"> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> <li>Scanner unit condensation</li> <li>CIS is not set properly, or is dirty.</li> <li>The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Check if there is any foreign object on surface of the scanner HP sensor, or the DF position scanning sensor.</li> <li>Reconnect the harnesses of the scanner HP sensor, or the DF position scanning sensor.</li> <li>Replace the scanner HP sensor, or the DF position scanning sensor.</li> </ol> <p> <b>Note</b></p> <p>Since it cannot be determined which one is defective from the SC, execute the Input check (SP 5-803-202 DF position scanning sensor) to check the state of the sensor.</p>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC121-00	D	Scanner HP Error 2
		The scanner HP sensor does not detect the scanner leaving the home position (sensor does not go ON).
		<ul style="list-style-type: none"> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> <li>Scanner unit condensation</li> <li>CIS is not set properly, or is dirty.</li> <li>The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Check if there is any foreign object on surface of the scanner HP sensor, or</li> </ol>

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<p>the DF position scanning sensor.</p> <ol style="list-style-type: none"> <li>Reconnect the harnesses of the scanner HP sensor, or the DF position scanning sensor.</li> <li>Replace the scanner HP sensor, or the DF position scanning sensor.</li> </ol> <p><b>Note</b></p> <p>Since it cannot be determined which one is defective from the SC, execute the Input check (SP 5-803-202 DF position scanning sensor) to check the state of the sensor.</p>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC122-00	D	<p>DF Scanning Position Error 1</p> <p>The DF scanning position sensor does not detect the scanner leaving the home position (sensor does not go OFF).</p> <ul style="list-style-type: none"> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> <li>Scanner unit condensation</li> <li>CIS is not set properly, or is dirty.</li> <li>The white plate is not set properly, or is dirty.</li> </ul> <p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Check if there is any foreign object on surface of the scanner HP sensor, or the DF position scanning sensor.</li> <li>Reconnect the harnesses of the scanner HP sensor, or the DF position scanning sensor.</li> <li>Replace the scanner HP sensor, or the DF position scanning sensor.</li> </ol> <p><b>Note</b></p> <p>Since it cannot be determined which one is defective from the SC, execute the Input check (SP 5-803-202 DF position scanning sensor) to check the state of the sensor.</p>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC123-00	D	<p>DF Scanning Position Error 2</p> <p>The DF scanning position sensor does not detect the scanner leaving the home position (sensor does not go OFF).</p> <ul style="list-style-type: none"> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> <li>Scanner unit condensation</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>• CIS is not set properly, or is dirty.</li> <li>• The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Check if there is any foreign object on surface of the scanner HP sensor, or the DF position scanning sensor.</li> <li>2. Reconnect the harnesses of the scanner HP sensor, or the DF position scanning sensor.</li> <li>3. Replace the scanner HP sensor, or the DF position scanning sensor.</li> </ol> <p><b>Note</b></p> <p>Since it cannot be determined which one is defective from the SC, execute the Input check (SP 5-803-202 DF position scanning sensor) to check the state of the sensor.</p>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC141-00	D	<p>Black Level Correction Error: Front Side</p> <p>The automatic adjustment has failed to correct the black level to the permissible range.</p> <ul style="list-style-type: none"> <li>• CIS is defective.</li> <li>• MPU is defective.</li> <li>• Power/signal harness is defective.</li> </ul> <ol style="list-style-type: none"> <li>1. Clean/reset the connector.</li> <li>2. Replace the units in the following order: <ul style="list-style-type: none"> <li>• CIS</li> <li>• Engine board</li> <li>• PSU/Signal harness</li> </ul> </li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC142-00	D	<p>White Level Correction Error: Front Side</p> <p>The automatic adjustment has failed to correct the white level to the permissible range.</p> <ul style="list-style-type: none"> <li>• CIS is defective.</li> <li>• MPU is defective.</li> <li>• Power/signal harness is defective.</li> <li>• Scanner unit condensation</li> <li>• CIS is not set properly, or is dirty.</li> </ul>

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>The white plate is not set properly, or is dirty.</li> </ul>
		<ol style="list-style-type: none"> <li>Clean/reset the CIS and white plate.</li> <li>Replace the units in the following order: <ul style="list-style-type: none"> <li>CIS</li> <li>Engine board</li> <li>PSU/Signal harness</li> </ul> </li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC144-00	D	Scanner Communication Error: Front Side
		Cannot correctly establish communication with the MPU(SoC-AFE)
		<ul style="list-style-type: none"> <li>Communication error with MPU (SoC-AFE)</li> <li>PSU is defective.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Clean/reset the connector.</li> <li>Replace the units in the following order: <ul style="list-style-type: none"> <li>Engine board</li> <li>PSU/Signal harness</li> </ul> </li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC151-00	D	Black Level Correction Error: Rear Side
		The automatic adjustment has failed to correct the black level (rear side) to the permissible range.
		<ul style="list-style-type: none"> <li>CIS is defective.</li> <li>MPU is defective.</li> <li>Power/signal harness is defective.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>Clean/reset the connector.</li> <li>Replace the units in the following order: <ul style="list-style-type: none"> <li>CIS</li> <li>Engine board</li> <li>PSU/Signal harness</li> </ul> </li> </ol>



SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC152-00	D	White Level Correction Error: Rear Side
		The automatic adjustment has failed to correct the white level (rear side) to the permissible range.
		<ul style="list-style-type: none"> <li>• CIS is defective.</li> <li>• MPU is defective.</li> <li>• Power/signal harness is defective.</li> <li>• Scanner unit condensation</li> <li>• CIS is not set properly, or is dirty.</li> <li>• The white plate is not set properly, or is dirty.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Clean/reset the CIS and white plate.</li> <li>2. Replace the units in the following order: <ul style="list-style-type: none"> <li>• CIS</li> <li>• Engine board</li> <li>• PSU/Signal harness</li> </ul> </li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC154-00	D	Scanner Communication Error: Rear Side
		Cannot correctly establish communication with the MPU (SoC-AFE)
		<ul style="list-style-type: none"> <li>• Communication error with MPU (SoC-AFE)</li> <li>• PSU is defective.</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Clean/reset the connector.</li> <li>2. Replace the units in the following order: <ul style="list-style-type: none"> <li>• Engine board</li> <li>• PSU/Signal harness</li> </ul> </li> </ol>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
195-00	D	S/N input error
		Compare the product ID code of the product S/N (11 digits).
		The product ID code of the product S/N (11 digits) does not match.
		<ol style="list-style-type: none"> <li>1. Update the machine engine/controller firmware to the latest version.</li> <li>2. Re-enter the product S/N.</li> </ol>

## SC200 (LED Optics)

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC230-01	D	FGATE* <sup>1</sup> : Does not turn ON.(01: Bk, 02: C, 03: M, 04: Y)
SC230-02		GPIO* <sup>2</sup> has not been asserted, although the specified time (200 ms) elapsed after setting JOB to be started and reaching the FGATE assert time.
SC230-03		<ul style="list-style-type: none"> <li>Control Board</li> <li>Engine Board</li> </ul>
SC230-04		<ul style="list-style-type: none"> <li>Turn the power OFF and then ON.</li> <li>Replace the Engine Board.</li> <li>Replace the Controller Board.</li> </ul>

(\*1)FGATE: Signals used between the controller and the engine in order to send the information about the sub scan length of the page to be printed.

(\*2)GPIO: A type of input/output terminal

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC231-01	D	FGATE* <sup>1</sup> : Does not turn OFF.(01: Bk, 02: C, 03: M, 04: Y)
SC231-02		GPIO* <sup>2</sup> has not been negated, although the specified time (200 ms) elapsed after detecting GPIO*assert and then reaching the expected FGATE negate time.
SC231-03		* This is an I/O pin. Such I/O pins can be used for a variety of applications, depending on the setting.
SC231-04		<ul style="list-style-type: none"> <li>Control Board</li> <li>Engine Board</li> <li>Turn the power OFF and then ON.</li> <li>Replace the Engine Board.</li> <li>Replace the Controller Board.</li> </ul>

(\*1)FGATE: Signals used between the controller and the engine in order to send the information about the sub scan length of the page to be printed.

(\*2)GPIO: A type of input/output terminal

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC270-00	D	Write ASIC communication error
		<ul style="list-style-type: none"> <li>When the Engine Board could not read the Unique ID of the Writing ASIC properly when starting this machine.</li> <li>When an Error bit occurred in the communication between the Engine Board and the Writing ASIC.</li> </ul>
		The unique ID of the write ASIC was not read normally.
		<ul style="list-style-type: none"> <li>Turn the power OFF and then ON.</li> <li>Replace the Engine Board.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC277-00	D	LED Array communication error: power supply system
		The power supply to LED Array has been cut off due to a blown fuse or other problem.
		Blown fuse
		<ul style="list-style-type: none"> <li>• Check the FFC.</li> <li>• Turn the power OFF and then ON.</li> <li>• Replace the FFC.</li> <li>• Replace the Engine Board.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC277-01	D	LED Array communication error (01: Bk, 02: C, 03: M, 04: Y)
SC277-02		Communication between the LED head and engine board has failed.
SC277-03		<ul style="list-style-type: none"> <li>• LED Head error</li> <li>• Harness Error</li> </ul>
SC277-04		<ul style="list-style-type: none"> <li>• Check the FFC.</li> <li>• Turn the power OFF and then ON.</li> <li>• Replace the FFC.</li> <li>• Replace the LED Head</li> <li>• Replace the Engine Board.</li> <li>• Return SP2-205-020 to the initial value</li> </ul>

**SC300 (Image Processing - 1)**

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC332-01	D	Toner supply feed lock (01: Bk, 02: C, 03: M, 04: Y)
SC332-02		Under the condition that the Toner Cartridge has not reached the end, an error that no toner is supplied has been detected over n times in succession. n: The value was set at SP3-131-015.
SC332-03		<ul style="list-style-type: none"> <li>• Disconnected or broken Toner Supply Solenoid. (Failed to open the toner supply shutter)</li> </ul>
SC332-04		<ul style="list-style-type: none"> <li>• Disconnection of Toner Supply Clutch</li> <li>• Failed PCDU. (Toner leak)</li> <li>• Toner clogging</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the connector connection or check for broken wires.</li> <li>• Replace the Toner Supply Solenoid</li> <li>• Replace the PCDU</li> <li>• Replace the Toner Cartridge.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC364-01	D	Toner End Sensor output count error (01: Bk, 02: C, 03: M, 04: Y)
SC364-02		The output count from the Toner End Sensor indicates an average of 0.
SC364-03		- Bad connector contact or connector disconnected/wire broken
SC364-04		- Failed TE Sensor - LED Head mounting error (incorrect calibration of TE Sensor)
		<ul style="list-style-type: none"> <li>- Turn the main power of the printer OFF and then ON</li> <li>- Check the connector connection or check for broken wires.</li> <li>- Replace the LED Head.</li> <li>- Replace the toner end sensor.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC365-01	D	Toner End Sensor upper limit sensor error (01: Bk, 02: C, 03: M, 04: Y)
SC365-02		The Toner End Sensor still indicates that the remaining amount of toner is at the "upper limit", although 255 g or more toner has been consumed.
SC365-03		<ul style="list-style-type: none"> <li>- Stained TE Sensor surface</li> <li>- Failed TE Sensor</li> </ul>
SC365-04		<ul style="list-style-type: none"> <li>• Turn the main power of the printer OFF and then ON.</li> <li>• Check the connector connection.</li> <li>• Clean/replace the sensor.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC370-01	D	TM(ID) Sensor calibration error (Right)*
		The specular light output voltage (Vsg_reg) of the Right TM (ID) Sensor cannot be calibrated to a value in the target range. Upper limit (initially 2.97 V) Lower limit (initially 2.31V)
		- Disconnected TM(ID) Sensor connector/bad contact - Stained TM(ID) Sensor window - Failed TM(ID) Sensor - Image Transfer Belt loosened or out of place
		<ul style="list-style-type: none"> <li>• Check the TM(ID) Sensor</li> <li>• Clean the TM(ID) Sensor Detection window</li> <li>• Check the Image Transfer Belt</li> <li>• Replace the TM(ID) Sensor</li> </ul>

\* This is the sensor on the left as viewed from the front.

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC370-02	D	TM(ID) Sensor calibration error (Left)*
		The specular light output voltage (Vsg_reg) of the Left TM(ID) Sensor cannot be calibrated to a value in the target range. Upper limit (initially 2.97 V) Lower limit (initially 2.31V)
		- Disconnected TM(ID) Sensor connector/bad contact - Stained TM(ID) Sensor window - Failed TM(ID) Sensor - Image Transfer Belt loosened or out of place
		<ul style="list-style-type: none"> <li>• Check the TM(ID) Sensor</li> <li>• Clean the TM(ID) Sensor Detection window</li> <li>• Check the Image Transfer Belt</li> <li>• Replace the TM(ID) Sensor</li> </ul>

\* This is the sensor on the right as viewed from the front.

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC396-01	D	Drum Motor: K Error
		<p>Early Detection</p> <ul style="list-style-type: none"> <li>• A command to stop the rotation of the motor has been issued right after the power was turned on, but the motor is still rotating.</li> </ul> <p>Motor Operation Timing</p> <ul style="list-style-type: none"> <li>• When the motor rotation request or speed change request is issued, the motor is in the stopped state.</li> </ul>

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<p>Motor Stop Timing</p> <ul style="list-style-type: none"> <li>• A command to stop the rotation of the motor has been issued, but the motor is still rotating.</li> </ul>
		<ul style="list-style-type: none"> <li>- Disconnected connector</li> <li>- Broken signal wire</li> <li>- Excessive motor torque</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the connector connection.</li> <li>• Turn the power OFF and then ON.</li> <li>• Replace the Drum Motor: K.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC396-05	D	<p>Drum Motor: CMY error</p>
		<p>Early Detection</p> <ul style="list-style-type: none"> <li>• A command to stop the rotation of the motor has been issued right after the power was turned on, but the motor is still rotating.</li> </ul>
		<p>Motor Operation Timing</p> <ul style="list-style-type: none"> <li>• When the motor rotation request or speed change request is issued, the motor is in the stopped state.</li> </ul>
		<p>Motor Stop Timing</p> <p>A command to stop the rotation of the motor has been issued, but the motor is still rotating.</p>
		<ul style="list-style-type: none"> <li>- Disconnected connector</li> <li>- Broken signal wire</li> <li>- Excessive motor torque</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the connector connection.</li> <li>• Turn the power OFF and then ON.</li> <li>• Replace the Drum Motor: CMY.</li> </ul>



## SC400 (Image Processing - 2)

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC440-00	D	Charge bias output error (only for MF models)
SC440-01		TM (ID) sensors detected a black solid image on the belt between sheets when printing a fax document.
SC440-02		The machine stops printing when this SC is detected. <ul style="list-style-type: none"> <li>• SC400-00: detected by both left and right TM (ID) sensors.</li> <li>• SC400-01: detected by the right TM (ID) sensor.</li> <li>• SC400-02: detected by the left TM (ID) sensor.</li> </ul>
		<ul style="list-style-type: none"> <li>• TM(ID) sensor is defective, or dirty.</li> <li>• Charge roller is dirty.</li> <li>• Low power of charge bias (HVPS is defective).</li> </ul> <p>Remove the jammed paper and check the printed image. If a vertical line, or a black solid is printed, go to “Caused by PCDU”. If not, go to “Caused by TM (ID) sensor”.</p> <p><b>Caused by PCDU</b></p> <ol style="list-style-type: none"> <li>1. Reset the PCDU (K).</li> <li>2. Replace the PCDU (K).</li> </ol> <p><b>Caused by TM (ID) sensor</b></p> <ol style="list-style-type: none"> <li>1. Reconnect the harness of the TM(ID) sensor.</li> <li>2. Clean the shutter of the TM(ID) sensor. <ul style="list-style-type: none"> <li>• Clean with a cleaning cloth. Do not clean with alcohol.</li> <li>• After cleaning, open and close the front cover.</li> </ul> </li> <li>3. Correct the belt if corrugation/belt skew has occurred.</li> <li>4. Replace the TM (ID) sensor. <ul style="list-style-type: none"> <li>• After replacing, enter SP mode and input the correction value written on the paper attached to the new TM (ID) sensor.</li> <li>• Left TM (ID) sensor: SP3-333-001 to 006</li> <li>• Right TM (ID) sensor: SP3-334-001 to 006</li> </ul> </li> </ol>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC442-01	D	Intermediate transfer contact Sensor error (01: Home position error, 02: Contact error, 03: Non-contact error)
SC442-02		- Home position error: SC442-01 If the home position is not set within the T4 time after turning ON the feed motor and feed clutch, an error results.
SC442-03		- Contact error: SC442-02 If the contact state is not set within the T3 time after turning ON the feed motor

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<p>and feed clutch, an error results.</p> <p>- Non-contact error: SC442-03</p> <p>If the non-contact state is not set within the T3 time after turning ON the feed motor and feed clutch, an error results.</p> <p>[Error time T3]</p> <p>SP value: 100 to 25500 ms</p> <p>Initial value: 3000 ms</p> <p>Note: Contact/non-contact error judgment</p> <p>[Error time T4]</p> <p>SP value: 100 to 25500 ms</p> <p>Initial value: 3000 ms</p> <p>Note: Home position error judgment</p>
		<ul style="list-style-type: none"> <li>• High motor load</li> <li>• Failed motor</li> <li>• Disconnected connector</li> <li>• Broken harness wire</li> <li>• PSU: +24 V fuse blown</li> <li>• Failed interlock mechanism</li> <li>• Failed Engine Board</li> </ul> <ol style="list-style-type: none"> <li>1. Connect and disconnect the Image Transfer Unit</li> <li>2. Replace the Image Transfer Unit</li> <li>3. Replace the Engine Board</li> <li>4. Replace the ITB (Image Transfer Belt) Contact Clutch</li> <li>5. Replace the Paper Feed Motor</li> </ol>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC490-00	D	<p>Charging/developing: Output error</p> <p>The "HVP_ERR1: Output error Sensor signal" is monitored at 20 ms intervals. If 0 (error) is detected ten times in succession (200 ms), the following causes are suspected:</p> <ul style="list-style-type: none"> <li>• Failed PCDU</li> <li>• Failed High Voltage Power Supply (Separation)</li> <li>• Damaged HVP connection harness</li> </ul> <ul style="list-style-type: none"> <li>• Replace the PCDU.</li> <li>• Replace the High Voltage Power Supply.</li> <li>• Replace the harness.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC491-01	D	Primary/secondary transfer: Output error
		The "HVP_ERR2: Output error Sensor signal" is monitored at 20 ms intervals. If 0 (error) is detected fifty times in succession (1000 ms) (during bias output), the following causes are suspected:
		<ul style="list-style-type: none"> <li>• Image Transfer Unit error</li> <li>• Transfer Roller error</li> <li>• Damaged HVP connection harness</li> <li>• Noise generated by poor contact of the power supply terminals of the Development Roller</li> </ul>
		<ul style="list-style-type: none"> <li>• Replace the Image Transfer Unit.</li> <li>• Replace the Transfer Roller</li> <li>• Replace the High Voltage Power Supply.</li> <li>• Replace the harness.</li> <li>• Replace the PCDU.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC491-02	D	Disconnected connector: High voltage output error
		The "HVP_ERR2: Output error Sensor signal" is monitored at 20 ms intervals. If 0 (error) is detected ten times in succession (200 ms) (during non-bias output), the following causes are suspected:
		<ul style="list-style-type: none"> <li>• HVP connection harness disconnected</li> <li>• Damaged HVP connection harness</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the HVP connection harness</li> <li>• Replace the HVP connection harness.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC498-00	C	Temperature/humidity sensor error
		<ul style="list-style-type: none"> <li>• Temperature Sensor output error: Out of range between 076 V and 2.90 V</li> <li>• Humidity Sensor output error: 2.4 V or more</li> </ul>
		<ul style="list-style-type: none"> <li>- Unmounted Sensor (Disconnected connector or broken wire)</li> <li>- Failed Sensor</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the power OFF and then ON.</li> <li>• Check that the connector is set.</li> <li>• Replace the sensor.</li> <li>• Replace the connector.</li> </ul>

## SC500 (Paper Feed and Fusing)

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC508-00	B	By-pass bottom plate operation error
		The signal from the by-pass bottom plate position Sensor has not changed (that is, the signal has not changed from ON to OFF or vice versa) for two seconds or more after the start of reverse Paper Feed Unit rotation, If the error is detected three times in succession, the appropriate SC number is displayed on the operation panel unit.
		<ul style="list-style-type: none"> <li>By-pass bottom plate Sensor connector disconnected or other error</li> <li>By-pass bottom plate Sensor feeler stuck or other error</li> </ul>
		<ul style="list-style-type: none"> <li>Turn the power OFF and then ON.</li> <li>Check and replace the by-pass bottom plate sensor connector connection.</li> <li>Replace the by-pass bottom plate sensor feeler.</li> <li>Replace the Paper Feed Motor.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC520-02	D	Fusing motor error
		<p>Early Detection</p> <ul style="list-style-type: none"> <li>A command to stop the rotation of the motor has been issued right after the power was turned on, but the motor is still rotating.</li> </ul> <p>Motor Operation Timing</p> <ul style="list-style-type: none"> <li>When the motor rotation request or speed change request is issued, the motor is in the stopped state.</li> </ul> <p>Motor Stop Timing</p> <p>A command to stop the rotation of the motor has been issued, but the motor is still rotating.</p>
		<ul style="list-style-type: none"> <li>Disconnected connector</li> <li>Broken signal wire</li> <li>Excessive motor torque</li> </ul>
		<ul style="list-style-type: none"> <li>Check the connector connection.</li> <li>Turn the power OFF and then ON.</li> <li>Replace the Fusing Motor.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC521-01	B	Bank 1 motor error (Bank: paper tray unit)
		<p>Early Detection</p> <ul style="list-style-type: none"> <li>A command to stop the rotation of the motor has been issued right after the power was turned on, but the motor is still rotating.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Motor Stop Timing A command to stop the rotation of the motor has been issued, but the motor is still rotating.
		<ul style="list-style-type: none"> <li>• Disconnected connector</li> <li>• Broken signal wire</li> <li>• Excessive motor torque</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the connector connection.</li> <li>• Turn the power OFF and then ON.</li> <li>• Replace the bank 1 motor.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC530-00	D	Cooling fan error
		The fan motor lock (rotating state) signal is sampled 30 times at 100 ms intervals and the fan goes into an unstable rotating state at least ten times. (No error detection occurs for two seconds after the start of the fan or after changing the speed.)
		<ul style="list-style-type: none"> <li>• Failed fan motor</li> <li>• Disconnected connector</li> </ul>
		<ul style="list-style-type: none"> <li>• Replace the fan motor.</li> <li>• Check the connector.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC531-00	D	Fusing fan error
		The fan motor lock (rotating state) signal is sampled 30 times at 100 ms intervals and the fan goes into an unstable rotating state at least ten times. (No error detection occurs for two seconds after the start of the fan or after changing the speed.)
		<ul style="list-style-type: none"> <li>• Failed fan motor</li> <li>• Disconnected connector</li> </ul>
		<ul style="list-style-type: none"> <li>• Replace the fan motor.</li> <li>• Check the connector.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC532-00	D	PSU cooling fan
		The fan motor lock (rotating state) signal is sampled 30 times at 100 ms intervals and the fan goes into an unstable rotating state at least ten times. (No error detection occurs for two seconds after the start of the fan or after changing the

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		speed.)
		<ul style="list-style-type: none"> <li>Failed fan motor</li> <li>Disconnected connector</li> </ul>
		<ul style="list-style-type: none"> <li>Replace the fan motor.</li> <li>Check the connector.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC540-00	D	Paper Feed Unit error
		Early Detection
		<ul style="list-style-type: none"> <li>A command to stop the rotation of the motor has been issued right after the power was turned on, but the motor is still rotating.</li> </ul>
		Motor Operation Timing
		<ul style="list-style-type: none"> <li>When the motor rotation request or speed change request is issued, the motor is in the stopped state.</li> </ul>
		Motor Stop Timing
		A command to stop the rotation of the motor has been issued, but the motor is still rotating.
		<ul style="list-style-type: none"> <li>Disconnected connector</li> <li>Broken signal wire</li> <li>Excessive motor torque</li> </ul>
		<ul style="list-style-type: none"> <li>Check the connector connection.</li> <li>Turn the power OFF and then ON.</li> <li>Replace the Paper Feed Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC541-00	A	Broken fusing (Center) thermopile wire
		AD value: 0-6 is detected for specified seconds continuously.
		Detection period: 500 ms, detection frequency: 10 times or more.
		<ul style="list-style-type: none"> <li>Broken thermopile wire</li> <li>Bad connector contact</li> </ul>
		<ul style="list-style-type: none"> <li>Clear the SP: fusing SC.</li> <li>Replace the connector.</li> <li>Replace the thermopile.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-02	A	Fusing lamp (Center) thermopile not reloaded 1
		The heater (Center) thermopile does not reach 50 deg C 2.9 seconds after the



SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		start of heat control (during normal startup control).
		<ul style="list-style-type: none"> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• Input voltage out of range</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Clean the thermopile lens.</li> <li>• Replace the thermopile.</li> <li>• Replace the Fusing Unit.</li> <li>• Clear the SP: fusing SC.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-03	A	Fusing lamp (Center) thermopile not reloaded 2
		The heater (Center) thermistor does not reach the reload temperature 17 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• Input voltage out of range</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Clean the thermopile lens.</li> <li>• Replace the thermopile.</li> <li>• Replace the Fusing Unit.</li> <li>• Clear the SP: fusing SC.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-04	A	Fusing lamp (Center) thermopile not reloaded 3
		The heater (Center) thermistor does not reach 100 deg C 7.7 seconds after the start of heat control (during low-temperature start up control).
		<ul style="list-style-type: none"> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• Input voltage out of range</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Clean the thermopile lens.</li> <li>• Replace the thermopile.</li> <li>• Replace the Fusing Unit.</li> <li>• Clear the SP: fusing SC.</li> </ul>

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SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-12	C	Fusing lamp (Center) thermopile not reloaded 1: Low voltage
		The heater (Center) thermopile does not reach 50 deg C 2.9 seconds after the start of heat control (during normal startup control).
		<ul style="list-style-type: none"> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• Input voltage out of range</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the power supply voltage and reconnect the cable to the outlet.</li> <li>• Clean the thermopile lens.</li> <li>• Replace the thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-13	C	Fusing lamp (Center) thermopile not reloaded 2: Low voltage
		The heater (Center) thermistor does not reach the reload temperature 17 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• Input voltage out of specification (out of warranty)</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the power supply voltage and reconnect the cable to the outlet.</li> <li>• Clean the thermopile lens.</li> <li>• Replace the thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-14	C	Fusing lamp (Center) thermopile not reloaded 3: Low voltage
		The heater (Center) thermistor does not reach 100 deg C 7.7 seconds after the start of heat control (during low-temperature start up control).
		<ul style="list-style-type: none"> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• Input voltage out of specification (out of warranty)</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the power supply voltage and reconnect the cable to the outlet.</li> <li>• Clean the thermopile lens.</li> <li>• Replace the thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC543-00	A	Fusing (Center) thermopile high-temperature detected (software)
		The temperature is detected to stay at 230 deg C or higher for one second.
		<ul style="list-style-type: none"> <li>Shorted triac (element on the PSU)</li> <li>Failed Engine Board</li> <li>Failed fusing thermopile</li> <li>Failed fusing thermistor</li> <li>Failed fusing unit</li> </ul>
		<ul style="list-style-type: none"> <li>Replace the thermopile.</li> <li>Replace the Fusing Unit.</li> <li>Replace the PSU.</li> <li>Replace the Engine Board.</li> <li>Clear the SP: fusing SC.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC544-00	A	Fusing (Center) thermopile high-temperature detected (hardware)
		The heating (Center) thermistor temperature becomes 250 or higher. (The hardware high-temperature error Sensor flag is detected at 10 ms intervals.)
		<ul style="list-style-type: none"> <li>Damaged, shorted triac (element on the PSU)</li> <li>Failed engine control board</li> <li>Failed fusing thermopile</li> <li>Failed fusing thermistor</li> <li>Abnormal fusing control software behavior</li> </ul>
		<ul style="list-style-type: none"> <li>Clear the SP: fusing SC.</li> <li>Replace the PSU.</li> <li>Replace the Engine Board.</li> <li>Replace the fusing thermopile.</li> <li>Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC545-00	A	Fusing (Center) heater stay ON
		The fusing (Center) heater stays ON for 3 seconds or more when in stand-by state (or the fusing roller is not rotating).
		<ul style="list-style-type: none"> <li>Stained thermopile lens</li> <li>Broken heater wire</li> <li>The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>Clear the SP: fusing SC.</li> <li>Clean the thermopile lens.</li> </ul>

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SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>• Replace the fusing thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC545-10	C	Fusing (Center) heater stay ON: Low voltage
		The fusing (Center) heater stays ON for 3 seconds or more when in stand-by state (or the fusing roller is not rotating).
		<ul style="list-style-type: none"> <li>• Input voltage out of specification (out of warranty)</li> <li>• Stained thermopile lens</li> <li>• Broken heater wire</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the power supply voltage and reconnect the cable to the outlet.</li> <li>• Clean the lens of the thermopile.</li> <li>• Replace the thermopile.</li> <li>• Replace the fusing unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC547-01	D	Zero-crossing error (adhered relay contact)
		When the fusing relay is in an OFF state, a "zero-crossing interrupt request" occurs in 50 ms.
		<ul style="list-style-type: none"> <li>• Damaged fusing relay (adhered contact)</li> <li>• Failed fusing relay drive circuit</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power OFF and then ON.</li> <li>• Replace the harness.</li> <li>• Replace the PC board.</li> <li>• Replace the PSU.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC547-02	D	Zero-crossing error (bad relay contact)
		If a "zero-crossing interrupt request" does not occur within 3 seconds when the fusing relay is in an ON state, an error results.
		<ul style="list-style-type: none"> <li>• Damaged fusing relay (open contact)</li> <li>• Failed fusing relay drive circuit</li> <li>• PSU fuse (24VS) blown</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power OFF and then ON.</li> <li>• Replace the harness.</li> <li>• Replace the Engine Board.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>• Replace the PSU.</li> <li>• Replace the fuse.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC547-03	D	Zero-crossing error (low frequency error)
		The number of zero-crossing interrupts does not reach a certain value in 500 ms.
		The frequency of the wall socket power supply is unstable.
		<ul style="list-style-type: none"> <li>• Turn the main power OFF and then ON.</li> <li>• Check the wall socket power supply.</li> <li>• Replace the harness.</li> <li>• Replace the Engine Board.</li> <li>• Replace the PSU.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC551-00	A	Broken fusing (End) thermistor wire
		AD value: 3F9h-3FFh is detected for specified seconds continuously. Detection period: 500 ms, detection frequency: 10 times or more
		<ul style="list-style-type: none"> <li>• Broken thermistor wire</li> <li>• Bad connector contact</li> </ul>
		<ul style="list-style-type: none"> <li>• Clear the SP: fusing SC.</li> <li>• Check the connector connection.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC552-03	A	Fusing (End) thermistor not reloaded
		The heating (End) thermistor does not reach 60 deg C 12.5 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>• Deformed or floating thermistor</li> <li>• Broken heater wire</li> <li>• Input voltage out of range</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• Clear the SP: fusing SC.</li> <li>• Replace the fusing (End) thermistor.</li> <li>• Replace the Fusing Unit.</li> </ul>

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC552-13	C	Fusing (End) thermistor not reloaded: Low voltage
		The heating (End) thermistor does not reach 60 deg C 12.5 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>Deformed or floating thermistor</li> <li>Broken heater wire</li> <li>Input voltage out of specification (out of warranty)</li> <li>The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>Check the power supply voltage and reconnect the cable to the outlet.</li> <li>Replace the fusing unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC553-00	A	Fusing (End) thermistor high-temperature detected (software)
		The temperature is detected to stay at 230 deg C or higher for one second.
		<ul style="list-style-type: none"> <li>Shorted triac (element on the PSU)</li> <li>Failed Engine Board</li> <li>Failed fusing thermopile</li> <li>Failed fusing thermistor</li> <li>Failed fusing unit</li> </ul>
		<ul style="list-style-type: none"> <li>Clear the SP: fusing SC.</li> <li>Replace the PSU.</li> <li>Replace the Engine Board.</li> <li>Replace the fusing thermopile.</li> <li>Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC554-00	A	Fusing (End) thermistor high-temperature detected (hardware)
		The heating (End) thermistor temperature becomes 250 or higher. (The hardware high-temperature error Sensor flag is detected at 10 ms intervals.)
		<ul style="list-style-type: none"> <li>Damaged, shorted triac (element on the PSU)</li> <li>Failed engine control board</li> <li>Failed fusing thermopile</li> <li>Failed fusing thermistor</li> <li>Abnormal fusing control software behavior</li> </ul>
		<ul style="list-style-type: none"> <li>Clear the SP: fusing SC.</li> <li>Replace the PSU.</li> <li>Replace the Engine Board.</li> <li>Replace the fusing thermopile.</li> </ul>



SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC557-00	C	Zero-crossing frequency exceeded
		The number of zero-crossing interrupts exceeds a certain value in 500 ms.
		The frequency of the wall socket power supply is unstable or noise occurs.
		None

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC559-00	A	Fusing jam detected 3 times in succession
		Fusing jam is detected three times in succession.
		Paper is wrapped around the fusing roller.
		CLEAR THE SP: FUSING SC.

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC561-00	A	Broken pressure (Center) thermistor wire
		At least ten times, the temperature is detected to stay at 0 deg C or less for 39 seconds.
		<ul style="list-style-type: none"> <li>Broken thermistor wire</li> <li>Bad connector contact</li> </ul>
		<ul style="list-style-type: none"> <li>CLEAR THE SP: FUSING SC.</li> <li>Check the connector connection.</li> <li>Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC561-10	C	Broken pressure (Center) thermistor wire: Low voltage
		At least ten times, the temperature is detected to stay at 0 deg C or less for 39 seconds.
		<ul style="list-style-type: none"> <li>Input voltage out of specification (out of warranty)</li> <li>Broken thermistor wire</li> <li>Bad connector contact</li> </ul>
		<ul style="list-style-type: none"> <li>Check the power supply voltage and reconnect the cable to the outlet.</li> <li>Reconnect the harness between the controller board and fusing unit.</li> <li>Replace the fusing unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC562-	A	Pressure (Center) thermistor not reloaded

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
03		The pressure (Center) thermistor does not reach 60 deg C 39 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>• Deformed or floating thermistor</li> <li>• Broken heater wire</li> <li>• Input voltage out of range</li> <li>• The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>• CLEAR THE SP: FUSING SC.</li> <li>• Replace the pressure (Center) thermistor.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC562-13	C	Pressure (Center) thermistor not reloaded: Low voltage
		The pressure (Center) thermistor does not reach 60 deg C 39 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>• Input voltage out of specification (out of warranty)</li> <li>• Deformed or floating thermistor</li> <li>• Broken heater wire</li> </ul> <p>The overtemperature prevention mechanism started working</p>
		<ul style="list-style-type: none"> <li>• Check the power supply voltage and reconnect the cable to the outlet.</li> <li>• Replace the fusing unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC563-00	D	Pressure (Center) thermistor high-temperature detected (software)
		The temperature is detected to stay at 230 deg C or higher for one second.
		<ul style="list-style-type: none"> <li>• Shorted triac (element on the PSU)</li> <li>• Failed Engine Board</li> <li>• Failed fusing thermopile</li> <li>• Failed fusing thermistor</li> <li>• Failed fusing unit</li> </ul>
		<ul style="list-style-type: none"> <li>• CLEAR THE SP: FUSING SC.</li> <li>• Replace the PSU.</li> <li>• Replace the Engine Board.</li> <li>• Replace the fusing thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC564-	A	Pressure (Center) thermistor high-temperature detected (hardware)

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
00		The pressure (Center) thermistor temperature becomes 250 or higher. (The hardware high-temperature error Sensor flag is detected at 10 ms intervals.)
		<ul style="list-style-type: none"> <li>• Damaged, shorted triac (element on the PSU)</li> <li>• Failed Engine Board</li> <li>• Failed fusing thermopile</li> <li>• Failed fusing thermistor</li> <li>• Abnormal fusing control software behavior</li> </ul>
		<ul style="list-style-type: none"> <li>• CLEAR THE SP: FUSING SC.</li> <li>• Replace the PSU.</li> <li>• Replace the Engine Board.</li> <li>• Replace the fusing thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC571-00	A	Broken pressure (End) thermistor wire
		At least ten times, the temperature is detected to stay at 0 deg C or less for 39 seconds.
		<ul style="list-style-type: none"> <li>• Broken thermistor wire</li> <li>• Bad connector contact</li> </ul>
		<ul style="list-style-type: none"> <li>• CLEAR THE SP: FUSING SC.</li> <li>• Check the connector connection.</li> <li>• Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC571-10	C	Broken pressure (End) thermistor wire: Low voltage
		At least ten times, the temperature is detected to stay at 0 deg C or less for 39 seconds.
		<ul style="list-style-type: none"> <li>• Input voltage out of specification (out of warranty)</li> <li>• Broken thermistor wire</li> <li>• Bad connector contact</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the power supply voltage and reconnect the cable to the outlet.</li> <li>• Reconnect the harness between the controller board and fusing unit.</li> <li>• Replace the fusing unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC572-03	A	Pressure (End) thermistor not reloaded
		The pressure (End) thermistor does not reach 60 deg C 38 seconds after the

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		start of motor rotation.
		<ul style="list-style-type: none"> <li>Deformed or floating thermistor</li> <li>Broken heater wire</li> <li>Input voltage out of range</li> <li>The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>CLEAR THE SP: FUSING SC.</li> <li>Replace the pressure (End) thermistor.</li> <li>Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC572-13	C	Pressure (End) thermistor not reloaded : Low voltage
		The pressure (End) thermistor does not reach 60 deg C 38 seconds after the start of motor rotation.
		<ul style="list-style-type: none"> <li>Input voltage out of specification (out of warranty)</li> <li>Deformed or floating thermistor</li> <li>Broken heater wire</li> <li>Input voltage out of range</li> <li>The overtemperature prevention mechanism started working</li> </ul>
		<ul style="list-style-type: none"> <li>Check the power supply voltage and reconnect the cable to the outlet.</li> <li>Replace the fusing unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC573-00	D	Pressure (End) thermistor high-temperature detected (software)
		The temperature is detected to stay at 230 deg C or higher for one second.
		<ul style="list-style-type: none"> <li>Shorted triac (element on the PSU)</li> <li>Failed Engine Board</li> <li>Failed fusing thermopile</li> <li>Failed fusing thermistor</li> <li>Failed fusing unit</li> </ul>
		<ul style="list-style-type: none"> <li>CLEAR THE SP: FUSING SC.</li> <li>Replace the PSU.</li> <li>Replace the Engine Board.</li> <li>Replace the fusing thermopile.</li> <li>Replace the Fusing Unit.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC574-	A	Pressure (End) thermistor high

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
00		<p>The pressure (End) thermistor temperature becomes 250 deg C or higher. (The hardware high-temperature error Sensor flag is detected at 10ms intervals.)</p> <ul style="list-style-type: none"> <li>• Damaged, shorted triac (element on the PSU)</li> <li>• Failed Engine Board</li> <li>• Failed fusing thermopile</li> <li>• Failed fusing thermistor</li> <li>• Abnormal fusing control software behavior</li> </ul> <ul style="list-style-type: none"> <li>• Clear the SP: fusing SC.</li> <li>• Replace the PSU.</li> <li>• Replace the Engine Board.</li> <li>• Replace the fusing thermopile.</li> <li>• Replace the Fusing Unit.</li> </ul>

**SC600 (Device Communication)**

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC641-01 (CTL SC)	D	Engine serial communication error (Time-out)
		No response over the specified time.
		<ul style="list-style-type: none"> <li>Controller board or software failure</li> <li>Connection failure may exist between controller board and engine board</li> <li>Engine board or software failure</li> </ul>
		<ul style="list-style-type: none"> <li>Check the connection between controller board and engine board.</li> <li>Turn the main power off/on.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC641-02 (CTL SC)	D	Engine serial communication error (Retry-Over)
		When commands are sent in the normal mode (ESIF_LECI_NORMAL), communication fails over the upper limit numbers (3 times) of command byte retry.
		<ul style="list-style-type: none"> <li>Controller board or software failure</li> <li>Connection failure may exist between controller board and engine board</li> <li>Engine board or software failure</li> </ul>
		<ul style="list-style-type: none"> <li>Check the connection between controller board and engine board.</li> <li>Turn the main power off/on.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC641-03 (CTL SC)	D	Engine serial communication error (Download Error)
		In the download command mode (ESIF_LECI_DLCOM) or download data mode (ESIF_LECI_DLDAT), a communication error is returned from engine.
		<ul style="list-style-type: none"> <li>Controller board or software failure</li> <li>Connection failure may exist between controller board and engine board</li> <li>Engine board or software failure</li> </ul>
		<ul style="list-style-type: none"> <li>Check the connection between controller board and engine board.</li> <li>Turn the main power off/on.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC641-04 (CTL SC)	D	Engine serial communication error (UART Error)
		UART receive errors (Break condition, Framing, Parity or Overrun error) are detected.
		<ul style="list-style-type: none"> <li>Controller board or software failure</li> <li>Connection failure may exist between controller board and engine board</li> </ul>



SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>• Engine board or software failure</li> </ul>
		<ul style="list-style-type: none"> <li>• Check the connection between controller board and engine board.</li> <li>• Turn the main power off/on.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC667-01	D	Master device operation mode setting error
		When the machine starts or returns from the energy saver mode, a CPU mode setting error is detected.
		Engine board is defective.
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reset the engine board.
		2. Replace the engine board.

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC669- **	D	EEPROM communication error
		An error is notified during EEPROM communication and the printer does not recover after three retries.
		669 - 1 ID error during EEPROM OPEN
		669 - 2 Channel error during EEPROM OPEN
		669 - 3 Device error during EEPROM OPEN
		669 - 4 Communication interrupted error during EEPROM OPEN
		669 - 5 Communication timeout error during EEPROM OPEN
		669 - 6 Not operating error during EEPROM OPEN
		669 - 7 Buffer full during EEPROM OPEN
		669 - 11 ID error during EEPROM data write
		669 - 12 Channel error during EEPROM data write
		669 - 13 Device error during EEPROM data write
		669 - 14 Communication interrupted error during EEPROM data write
		669 - 15 Communication timeout error during EEPROM data write
		669 - 16 Not operating error during EEPROM data write
		669 - 17 Buffer full during EEPROM data write
		669 - 18 No error code during EEPROM data write
		669 - 19 ID error during EEPROM data read
		669 - 20 Channel error EEPROM data read
		669 - 21 Device error during EEPROM data read

## 6.Troubleshooting

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<p>669 - 22 Communication interrupted error during EEPROM data read</p> <p>669 – 23 EEPROM Data read: Communication timeout error</p> <p>669 - 24 Not operating error during EEPROM data read</p> <p>669 - 25 Buffer full during EEPROM data read</p> <p>669 - 26 No error code during EEPROM data read</p> <p>669 - 36 Verify error</p>
		<ul style="list-style-type: none"> <li>• Turn the power OFF and then ON.</li> <li>• Replace the EEPROM.</li> <li>• Replace the engine board.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC670-01 (CTL SC)	D	<p>Engine start up error when the machine boots up</p> <ul style="list-style-type: none"> <li>• /ENGRDY signal was not asserted when the machine was turned on.</li> <li>• PCI I/F is not linked up when the machine returns from energy saver mode.</li> <li>• /IPURDY signal was not asserted when the machine was turned on or returned from energy saver mode.</li> <li>• EC/PC/SC response was not received within specified time from power on.</li> <li>• Writing to Rapi driver failed (the other party not found through PCI).</li> </ul>
		<ul style="list-style-type: none"> <li>• PSU defective</li> <li>• Controller board defective</li> </ul> <p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Check the FFC between the engine board and the controller board.</li> <li>2. Replace the units in the following order: <ul style="list-style-type: none"> <li>• PSU</li> <li>• Controller board</li> </ul> </li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC670-02 (CTL SC)	D	<p>Engine start up error when the machine is in operation</p> <ul style="list-style-type: none"> <li>• Engine board reset unexpectedly.</li> </ul>
		<ul style="list-style-type: none"> <li>• CPU reset by software</li> <li>• CPU reset by anomaly CPU</li> <li>• CPU reset by hardware defect / noise</li> <li>• Hardware defect</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Update the engine/controller firmware to the latest version.</li> <li>2. Check the FFC between the engine board and the controller board.</li> <li>3. Replace the units in the following order: <ul style="list-style-type: none"> <li>• PSU</li> <li>• Controller board</li> </ul> </li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-10	D	Controller start up error
		<p>After the machine was powered on, communication between the controller and the operation panel was not established.</p> <ul style="list-style-type: none"> <li>• Controller stalled</li> <li>• Board installed incorrectly</li> <li>• Controller board defective</li> <li>• Operation panel connector loose, broken, or defective</li> <li>• Controller late</li> </ul> <p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Replace the USB cable/harness between operation panel and controller board.</li> <li>2. Replace the operation panel.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-11	D	Controller start up error
		<p>After the machine was powered on, communication between the controller and the operation panel was not established, or communication with controller was interrupted after a normal startup.</p> <ul style="list-style-type: none"> <li>• Controller stalled</li> <li>• Board installed incorrectly</li> <li>• Controller board defective</li> <li>• Operation panel connector loose, broken, or defective</li> <li>• Controller late</li> </ul> <p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs</p>

## 6. Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<p>again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Replace the USB cable/harness between operation panel and controller board.</li> <li>2. Replace the operation panel.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-12	D	Controller start up error
		Communication with controller was interrupted after a normal startup.
		<ul style="list-style-type: none"> <li>• Controller stalled</li> <li>• Board installed incorrectly</li> <li>• Controller board defective</li> <li>• Operation panel connector loose, broken, or defective</li> <li>• Controller late</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Replace the USB cable/harness between operation panel and controller board.</li> <li>2. Replace the operation panel.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-13	D	Controller start up error
		The operation panel detected that the controller is down.
		<ul style="list-style-type: none"> <li>• Controller stalled</li> <li>• Board installed incorrectly</li> <li>• Controller board defective</li> <li>• Operation panel connector loose, broken, or defective</li> <li>• Controller late</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Replace the USB cable/harness between operation panel and controller board.</li> <li>2. Replace the operation panel.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-20	D	Controller start up error
		The operation panel detected that the controller is down.
		Operation panel connector is loose, broken or defective.
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Reconnect the USB cable/harness between operation panel and controller board.</li> <li>2. Replace the USB cable/harness between operation panel and controller board.</li> <li>3. Replace the controller board.</li> <li>4. Replace the operation panel.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-21	D	Controller start up error
		The operation panel detected that the controller is down.
		<ul style="list-style-type: none"> <li>• Controller board defective</li> </ul>
		<p>Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step.</p> <ol style="list-style-type: none"> <li>1. Replace the USB cable/harness between operation panel and controller board.</li> <li>2. Replace the operation panel.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-99	D	Controller start up error
		The operation panel software ended abnormally.
		<ul style="list-style-type: none"> <li>• Controller stalled</li> <li>• Board installed incorrectly</li> <li>• Controller board defective</li> <li>• Operation panel connector loose, broken, or defective</li> <li>• Controller late</li> </ul>
		Turn the main power OFF and then ON.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC673-01	D	Flair connection error of Smart Operation Panel
		The SC is issued only when the Smart Operation Panel is installed.

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Abnormal end (ABEND) of Smart Operation Panel system is detected.
		-
		<ul style="list-style-type: none"> <li>• Press "Restart" on the screen.</li> <li>• Turn the main power off/on.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC673-10	D	Flair connection error of Smart Operation Panel
		The SC is issued only when the Smart Operation Panel is installed.
		The main machine does not respond to the smart operation panel with the Flair communication.
		The SP setting for the smart operation panel is mismatched.
		<ul style="list-style-type: none"> <li>• Turn the main power off/on.</li> <li>• Set the SP5748-201 (OpePanel Setting) to [1: ON].</li> </ul>
		Note for the phone number:
		There is a phone number column on the SC673-10 display, but the phone number is not displayed because of this SC feature.
		Other Information:
		When the automatic reboot cannot be performed due to a hardware failure, SC672 or SC673 is displayed.
		The SC call is not issued.
		You cannot reboot the machine manually, regardless of the SP5-875-002 setting.

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC687-00	D	RAPI-PER receipt failure
		Even though 120 seconds have elapsed after RAPI -PES (request for image transfer) is issued, a RAPI-PER receipt is not received from the controller board.
		Defective controller board/software
		<ul style="list-style-type: none"> <li>• Turn the main power OFF and then ON.</li> <li>• Replace the controller board.</li> </ul>

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC688-00	D	PRREQ signal not asserted
		The print request signal (PRREQ) signal is not asserted within the prescribed time after paper reaches the registration stand-by position,
		<ul style="list-style-type: none"> <li>• Noise</li> <li>• Engine Board error</li> </ul>



SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"><li>• Controller Board error</li><li>• Turn the power OFF and then ON</li><li>• Replace the Engine Board.</li><li>• Replace the Controller Board.</li></ul>

**SC700 (Peripherals)**

SC NO.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC790-00	D	Maximum number of banks (paper tray units) exceeded error
		This SC occurs if you stack two or more paper feed units. Only one optional paper feed unit can be installed.
		The number of installed paper tray units exceeds the specifications.
		Reduce the number of installed paper tray units according to the specifications.

**SC800 (Controller)**

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC816-00	[0x0000]	Energy save I/O subsystem error
SC816-01	D	Subsystem error
SC816-02	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-03	D	Transition to STR was denied.
SC816-04	D	Interrupt in kernel communication driver
SC816-05, 6	D	Preparation for transition to STR failed.
SC816-07	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-08	D	Sysarch (LPUX_ENGINE_TIMERCTRL) error
SC816-09	D	Sysarch (LPUX_RETURN_FACTOR_STR) error
SC816-10 to 12	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-13	D	open() error
SC816-14	D	Memory address error
SC816-15 to 18	D	open() error
SC816-19	D	Double open() error
SC816-20	D	open() error
SC816-22	D	Parameter error
SC816-23, 24	D	read() error
SC816-25	D	write () error
SC816-26 to 28	D	write() communication retry error
SC816-29, 30	D	read() communication retry error
SC816-35	D	read() error
SC816-36 to 96	D	Subsystem error
		Energy save I/O subsystem detected some abnormality.
		<ul style="list-style-type: none"> <li>• Energy save I/O subsystem defective</li> <li>• Energy save I/O subsystem detected a controller board error (non-response).</li> <li>• Error was detected during preparation for transition to STR.</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power off/on.</li> <li>• Replace the controller board.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC840-00	D	EEPROM access error
		<ul style="list-style-type: none"> <li>• During the I/O processing, a reading error occurred. The 3rd reading failure</li> </ul>

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		causes this SC code.
		<ul style="list-style-type: none"> <li>• During the I/O processing, a writing error occurred.</li> <li>• Defective EEPROM</li> </ul>
		-

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC841-00	D	EEPROM read data error
		Mirrored data of the EEPROM is different from the original data in EEPROM.
		Data in the EEPROM is overwritten for some reason.
		-

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-00	C	Nand-Flash updating verification error
		SCS write error (verify error) occurred at the Nand-Flash module when remote ROM or main ROM was updated.
		Nand-Flash defective
		Turn the main power off/on.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-50	C	Number of Nand-Flash defective block exceeded
		At startup, or when recovery from energy saving, the Nand-Flash (eMMC) status was read and the number of defective blocks exceeded the threshold.
		-
		<ol style="list-style-type: none"> <li>1. Turn the main power off/on.</li> <li>2. If the problem persists, replace the controller board.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-51	C	Number of Nand-Flash block deletions exceeded
		At startup, or when recovery from energy saving, the Nand-Flash (eMMC) status was read and the number of defective blocks exceeded the threshold.
		-
		<ol style="list-style-type: none"> <li>1. Turn the main power off/on.</li> <li>2. If the problem persists, replace the controller board.</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-52	D	Nand-Flash (eMMC) data read failure
		The data written to the Nand-Flash (eMMC) cannot be read due to bad sectors.
		-
		1. Turn the main power off/on. 2. If the problem persists, replace the controller board.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-53	D	Nand-Flash CRC error
		CRC error occurs during NandFlash (eMMC) operation.
		-
		1. Turn the main power off/on. 2. If the problem persists, replace the controller board.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-54	D	Nand-Flash CRC error
		During Nand-Flash (eMMC) operation, an access error other than for SC842-52 and SC842-53 is detected.
		-
		1. Turn the main power off/on. 2. If the problem persists, replace the controller board.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC845		Hardware Error Detected when doing an automatic firmware update
SC845-01	D	Engine Board
SC845-02	D	Controller Board
SC845-03	D	Operation Panel (Normal)
SC845-04	D	Operation Panel (Smart Panel)
SC845-05	D	FCU function
		When updating the firmware automatically (ARFU), the firmware cannot be read or written normally, and the firmware update cannot be completed even after 3 retries.

## 6.Troubleshooting

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Hardware abnormality of the controller board
		Replace the controller board.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC845		Hardware Error Detected when the automatic firmware update
SC845-51	C	Network error, DIMM error (For the MF models only)
		Unzipping the firmware package file downloaded via the ARFU, the application site, or the SFU failed.
		<ul style="list-style-type: none"> <li>• There is a problem in the customer network.</li> <li>• DIMM board is defective.</li> <li>• Firmware package file is broken.</li> </ul>
		<ul style="list-style-type: none"> <li>• There is a possibility of recovery by trying once again.</li> <li>• If the problem persists, replace the DIMM.</li> </ul>

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC860-50	D	Storage startup error at main power on (Only for the machine which has the storage device installed)
		An access error occurred at power-on, or no storage device connection.
		<ul style="list-style-type: none"> <li>• The data written to the storage device cannot be read normally.</li> <li>• The storage device is not connected securely.</li> </ul>
		<ol style="list-style-type: none"> <li>1. Turn the main power off/on.</li> <li>2. If the problem persists, replace the storage device.</li> </ol>

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC860-51	C	Number of Nand-Flash defective block exceeded (Only for the machine which has the storage device installed)
		At startup, or when recovery from energy saving, the Nand-Flash status was read and the number of defective blocks exceeded the threshold.
		Number of defective blocks exceeded threshold for Nand-Flash.
		<ol style="list-style-type: none"> <li>1. Turn the main power off/on.</li> <li>2. If the problem persists, replace the storage device.</li> </ol>

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC860-52	C	Number of Nand-Flash block deletions exceeded (Only for the machine which has the storage device installed)
		At startup, or when recovery from energy saving, the Nand-Flash status was



No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		read and the number of defective blocks exceeded the threshold.
		Number of blocks deleted exceeded threshold for Nand-Flash
		1. Turn the main power off/on. 2. If the problem persists, replace the storage device.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC861-50	D	Storage boot failure (Only for the machine which has the storage device installed)
		Access to the storage device fails when recovery from energy saving.
		No response from the storage device.
		1. Turn the main power off/on. 2. If the problem persists, replace the storage device.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC863-50	D	Storage data read failure (Only for the machine which has the storage device installed)
		The data written to the storage device cannot be read due to bad sectors.
		Access destination in the storage device is in a bad sector.
		1. Turn the main power off/on. 2. If the problem persists, replace the storage device.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC864-50	D	Storage CRC error (Only for the machine which has the storage device installed)
		CRC error occurs during storage device operation.
		Bad sectors were generated during operation.
		1. Turn the main power off/on. 2. If the problem persists, replace the storage device.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC865-80	D	Storage access error (Only for the machine which has the storage device installed)
		An access error occurred when reading/writing the data in the storage device.
		During storage device operation, an access error other than those for SC863-50 and SC864-50 is detected.
		1. Turn the main power off/on. 2. If the problem persists, replace the storage device.

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC866-00	B	SD card authentication error
		A license error was detected for an application that is started from the SD card.
		Invalid program data is stored on the SD card.
		Store a valid program data on the SD card.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC867-00	B	SD card removed
		The SD card was removed while the machine was on.
		An application SD card has been removed from the slot (mount point of /mnt/sd0).
		Turn the main power off/on.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC867-01	B	SD card removed
		The SD card was removed while the machine was on.
		An application SD card has been removed from the slot (mount point of /mnt/sd1).
		Turn the main power off/on.

No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC867-02	B	SD card removed
		The SD card was removed while the machine was on.
		An application SD card has been removed from the slot (mount point of /mnt/sd2).
		Turn the main power OFF/ON.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC868-00	D	SD card access error
		The SD controller returned an error during operation. (An error occurred at the mount point of /mnt/sd0)
		<ul style="list-style-type: none"> <li>• SD card defective</li> <li>• SD controller defective</li> </ul>
		<ul style="list-style-type: none"> <li>• Reformat the SD card (using the "SD Formatter" made by Panasonic).*</li> <li>• Check the SD card insertion status.</li> <li>• Replace the SD card.</li> <li>• Replace the controller board.</li> </ul>

\* Do not format an SD card supplied with the main machine or sold as an option. You may only format SD cards used for Firmware Update by a Customer Engineer.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC868-01	D	SD card access error
		The SD controller returned an error during operation. (An error occurred at the mount point of /mnt/sd1)
		<ul style="list-style-type: none"> <li>• SD card defective</li> <li>• SD controller defective</li> </ul>
		SD card that starts an application <ul style="list-style-type: none"> <li>• Turn the main power off and check the SD card insertion status.               <ul style="list-style-type: none"> <li>• If no problem is found, insert the SD card and turn the main power on.</li> <li>• If an error occurs, replace the SD card.</li> </ul> </li> <li>• SD card for users               <ul style="list-style-type: none"> <li>• In case of a file system error, reformat the SD card (using the "SD Formatter" made by Panasonic).*</li> <li>• In case of a device access error, turn the main power off and check the SD card insertion status.                   <ul style="list-style-type: none"> <li>• If no problem is found, insert the SD card and turn the main power on.</li> <li>• If an error occurs, use another SD card.</li> </ul> </li> </ul> </li> <li>• If the error persists even after replacing the SD card, replace the controller board.</li> </ul>

\* Do not format an SD card supplied with the main machine or sold as an option. You may only format SD cards used for Firmware Update by a Customer Engineer.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC868-02	D	SD card access error
		The SD controller returned an error during operation. (An error occurred at the mount point of /mnt/sd1)
		<ul style="list-style-type: none"> <li>• SD card defective</li> <li>• SD controller defective</li> </ul>
		SD card that starts an application <ul style="list-style-type: none"> <li>• Turn the main power off and check the SD card insertion status.               <ul style="list-style-type: none"> <li>• If no problem is found, insert the SD card and turn the main power on.</li> <li>• If an error occurs, replace the SD card.</li> </ul> </li> <li>• SD card for users               <ul style="list-style-type: none"> <li>• In case of a file system error, reformat the SD card (using the "SD Formatter" made by Panasonic).*</li> <li>• In case of a device access error, turn the main power off and check the SD card insertion status.                   <ul style="list-style-type: none"> <li>• If no problem is found, insert the SD card and turn the main power on.</li> </ul> </li> </ul> </li> </ul>

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		<ul style="list-style-type: none"> <li>If an error occurs, use another SD card.</li> <li>If the error persists even after replacing the SD card, replace the controller board.</li> </ul>

\* Do not format an SD card supplied with the main machine or sold as an option. You may only format SD cards used for Firmware Update by a Customer Engineer.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC870-00	B	Address Book data error (Anytime: Address Book Error.)
SC870-01	B	Address Book data error (On startup: Media required for storing the Address Book is missing.)
SC870-02	B	Address Book data error (On startup: encryption is configured but the module required for encryption (DESS) is missing.)
SC870-03	B	Address Book data error (Initialization: Failed to generate a file to store internal Address Book.)
SC870-04	B	Address Book data error (Initialization: Failed to generate a file to store delivery sender.)
SC870-05	B	Address Book data error (Initialization: Failed to generate a file to store delivery destination.)
SC870-06	B	Address Book data error (Initialization: Failed to generate a file to store information required for LDAP search.)
SC870-07	B	Address Book data error (Initialization: Failed to initialize entries required for machine operation.)
SC870-09	B	Address Book data error (Machine configuration: Inconsistency in the NVRAM area used for storing settings required for Address Book configuration.)
SC870-10	B	Address Book data error (Machine configuration: Cannot make a directory for storing the Address Book in the SD/USB FlashROM.)
SC870-11	B	Address Book data error (On startup: Inconsistency in Address Book entry number.)
SC870-20	B	Address Book data error (File I/O: Failed to initialize file.)
SC870-21	B	Address Book data error (File I/O: Failed to generate file.)
SC870-22	B	Address Book data error (File I/O: Failed to open file.)
SC870-23	B	Address Book data error (File I/O: Failed to write to file.)

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC870-24	B	Address Book data error (File I/O: Failed to read file.)
SC870-25	B	Address Book data error (File I/O: Failed to check file size.)
SC870-26	B	Address Book data error (File I/O: Failed to delete data.)
SC870-27	B	Address Book data error (File I/O: Failed to add data.)
SC870-30	B	Address Book data error (Search: Failed to obtain data from cache when searching in the machine Address Book. delivery destination/sender.)
SC870-31	B	Address Book data error (Search:Failed to obtain data from cache during LDAP search.)
SC870-32	B	Address Book data error (Search:Failed to obtain data from cache while searching the WS-Scanner Address Book.)
SC870-41	B	Address Book data error (Cache: failed to obtain data from cache.)
SC870-50	B	Address Book data error (On startup: Detected abnormality of the Address Book encryption status.)
SC870-51	B	Address Book data error (Encryption settings: Failed to create directory required for conversion between plaintext and encrypted text.)
SC870-52	B	Address Book data error (Encryption settings: Failed to convert from plaintext to encrypted text.)
SC870-53	B	Address Book data error (Encryption settings: Failed to convert from encrypted text to plaintext.)
SC870-54	B	Address Book data error (Encryption settings: Detected data inconsistency when reading the encrypted Address Book.)
SC870-55	B	Address Book data error (Encryption settings: Failed to delete file when changing encryption setting.)
SC870-56	B	Address Book data error (Encryption settings: Failed to erase the file that records the encryption key during an attempt to change the encryption setting.)
SC870-57	B	Address Book data error (Encryption settings: Failed to move a file during an attempt to change the encryption setting.)
SC870-58	B	Address Book data error (Encryption settings: Failed to delete a directory during an attempt to change the encryption setting.)
SC870-59	B	Address Book data error (Encryption settings: Detected a resource shortage during an attempt to change the encryption setting.)
SC870-	B	Address Book data error (Unable to obtain the on/off setting for administrator

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
60		authentication (06A and later.)
		<p>When an error related to the Address Book is detected during startup or operation.</p> <ul style="list-style-type: none"> <li>• Software bug</li> <li>• Inconsistency of Address Book source location (machine/delivery server/LDAP server)</li> <li>• Inconsistency of Address Book encryption setting or encryption key (NVRAM was replaced individually without formatting the Address Book)</li> <li>• Address Book storage device (SD) was temporarily removed or hardware configuration does not match the application configuration.</li> <li>• Address Book data corruption was detected.</li> </ul> <p>Install a device that contains address book information correctly, and turn the main power off/on. If the SC occurs again, do the following steps.</p> <ol style="list-style-type: none"> <li>1. After installing the SD or USB ROM, execute SP5-846-046.</li> <li>2. Wait more than 3 seconds, then execute SP5-832.</li> <li>3. Cycle the main power off and on.</li> </ol> <p><b>Procedure after SC870 is cleared</b></p> <ol style="list-style-type: none"> <li>1. If there is backup data in an SD card or Web Image Monitor, restore the address book data. (To restore from an SD card, enter the encryption password which is the same as when you enter to back up.)</li> </ol>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC871-00	D	<p>FCU error (For the Fax models only)</p> <p>An error occurred when FCS detects the fax board and/or controller board defective.</p> <ul style="list-style-type: none"> <li>• Time-out error</li> <li>• Abnormal Parameter</li> </ul> <ul style="list-style-type: none"> <li>• Turn the main power OFF/ON.</li> <li>• Update the firmware if more recent firmware was released.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC874-05	D	Delete all error (Delete data area) : Read error
SC874-06	D	Delete all error (Delete data area) : Write error
SC874-10	D	Delete all error (Delete data area) : Error in Kernel
SC874-12	D	Delete all error (Delete data area) : No designated partition
SC874-13	D	Delete all error (Delete data area) : No device file

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC874-14	D	Delete all error (Delete data area) : Start option error
SC874-15	D	Delete all error (Delete data area) : No designated sector number
SC874-16	D	Delete all error (Delete data area) : failure in performing hdderase
SC874-41	D	Delete all error (Delete data area) : Other fatal errors
SC874-42	D	Delete all error (Delete data area) : End by cancellation
SC874-61 to -65	D	Delete all error (Delete data area) : library error
SC874-66	D	Delete all error (Delete data area) : Unavailable
SC874-67	D	Delete all error (Delete data area) : Erasing not finished
		An error occurred while data was being erased on NVRAM.
		<ul style="list-style-type: none"> <li>• Error detected in the NVRAM data delete program</li> <li>• The "Delete All" option was not set.</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power switch off and back on, and then execute "Erase All Memory" under UP mode again. (However, if there is a defective sector or other problem with the controller board, the error will persist even after trying the above.)</li> </ul>
		<ul style="list-style-type: none"> <li>• If the "Delete All" option is not installed when this error occurs, install the option.</li> </ul>
SC874-68	D	Delete all error (Delete data area) : MicroSD format failure (Normal)
SC874-69	D	Delete all error (Delete data area) : MicroSD format failure (Abnormal)
		An error occurred while data was being erased on MicroSD.
		Error detected in the MicroSD or NVRAM data delete program
		Turn the main power switch off and back on, and then execute "Erase All Memory" under UP mode again. (However, if there is a defective sector or other problem with the controller board, the error will persist even after trying the above.)
SC874-70	D	Delete all error (Delete data area) : Unauthorized library
SC874-99	D	Delete all error (Delete data area) : other errors
		An error occurred while data was being erased on NVRAM.
		<ul style="list-style-type: none"> <li>• Error detected in the NVRAM data delete program</li> <li>• The "Delete All" option was not set.</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power switch off and back on, and then execute "Erase All Memory" under UP mode again. (However, if there is a defective sector or other problem with the controller board, the error will persist even after trying the above.)</li> </ul>
		<ul style="list-style-type: none"> <li>• If the "Delete All" option is not installed when this error occurs, install the option.</li> </ul>



## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC875-01	D	Delete all error (MicroSD erasure) (Data Deletion failure)
SC875-02	D	Delete all error (MicroSD erasure) (Data deletion failure)
		An error was detected before MicroSD/data erasure starts. (Failed to erase data/failed to logically format MicroSD)
		The modules failed to erase data.
		Turn the main power off/on.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC899-00	D	Software performance error (signal reception end)
		Unknown software error occurred.
		Occurs when an internal program behaves abnormally.
		In the case of a hardware defect <ul style="list-style-type: none"> <li>• Replace the hardware.</li> </ul> In the case of a software error <ul style="list-style-type: none"> <li>• Turn the main power off/on.</li> <li>• Try updating the firmware.</li> </ul>

**SC900 (Others)**

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC900-00	D	Electrical total counter error
		The total counter contains data that is not a number.
		<ul style="list-style-type: none"> <li>• NVRAM incorrect type</li> <li>• NVRAM defective or corrupted</li> <li>• Unexpected error from external source</li> <li>• When PRT received signals at SRM, the requested count did not complete.</li> </ul>
		Replace the NVRAM.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC920-02	B	Printer Error 1 (WORK memory not acquired)
SC920-04	B	Printer Error 1 (Filter processing ended abnormally)
		When an error is detected in the application, which makes continued operation impossible.
		<ul style="list-style-type: none"> <li>• Software bug</li> <li>• Unexpected hardware configuration (such as insufficient memory)</li> </ul>
		Turn the main power off/on.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC921-00	B	Printer application error (Resident font not found)
		Resident font was not found at printer startup.
		Preinstalled font files not found.
		Turn the main power off/on.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC990-00	D	Software operation error
		Software attempted an unexpected operation.
		<ul style="list-style-type: none"> <li>• Abnormal variable</li> <li>• Internal parameter error</li> <li>• Insufficient work memory</li> <li>• Hardware error not detected by SC</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power off/on.</li> <li>• Reinstall the software of the controller and BICU board.</li> </ul>

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC991-00	C	Recoverable software operation error
		The software performed an unexpected function and the program cannot continue. Recovery processing allows the program to continue.
		<ul style="list-style-type: none"> <li>Abnormal variable</li> <li>Internal parameter error</li> <li>Insufficient work memory</li> <li>Hardware error not detected by SC</li> </ul>
		Logging only In order to get more details about SC991: Execute SP5-990 (SP Print Mode) or SP7-403 (SC History) to read the history of the 10 most recent logged errors.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC992-00	D	Undefined Error (No SC Code)
		An error not controlled by the system occurred (the error does not come under any other SC code).
		<ul style="list-style-type: none"> <li>Software defective</li> <li>Incorrect SC code from previous machine</li> </ul>
		Turn the main power off/on.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC994-00	C	Application Item Error
		The numbers of executed application items on the operation panel reach the maximum limit for the operation panel structure.
		Too many executed application items
		Logging only

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC995-01	D	CPM setting error 1
		Comparison of machine serial number (11 digits) and machine identification code. Details: <ul style="list-style-type: none"> <li>Machine serial number cannot be identified because of BICU replacement or malfunctioning.</li> <li>Machine serial number cannot be identified because of NV-RAM replacement</li> </ul>
		Machine serial number (11 digits) or machine identification code does not

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		match.
		<ul style="list-style-type: none"> <li>• Enter the machine serial number using SP5-811, and then turn the power on/off.</li> <li>• Attach the NV-RAM that was installed previously.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC995-02	D	CPM setting error 2
		Comparison of machine serial number (11 digits) and machine identification code.
		Details: Machine serial number cannot be identified because of NV-RAM replacement or malfunctioning.
		Machine serial number (11 digits) or machine identification code does not match.
		<ul style="list-style-type: none"> <li>• Attach the NV-RAM that was installed previously.</li> <li>• Download data on the NV-RAM using SP5-825.</li> </ul>

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC995-03	D	CPM setting error 3
		Comparison of machine serial number (11 digits) and machine identification code.
		Details: Unable to recognize machine identification code because the controller was replaced incorrectly or is malfunctioning.
		Machine serial number (11 digits) or machine identification code does not match.
		Replace it with a specified controller.

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC995-04	D	CPM setting error 4
		Comparison of machine serial number (11 digits) and machine identification code.
		Machine serial number (11 digits) or machine identification code does not match.
		Return the parts to the original configuration, and then replace them according to the manual.

## 6.Troubleshooting

SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC997-00	D	Application function selection error
		The application selected by the operation panel key operated abnormally (No response, abnormal ending).
		Software bug (mainly the application)
		<ul style="list-style-type: none"> <li>• Check the optional RAM, DIMM, boards required by the application program.</li> <li>• Check if the combination of downloaded programs are correct.</li> </ul>

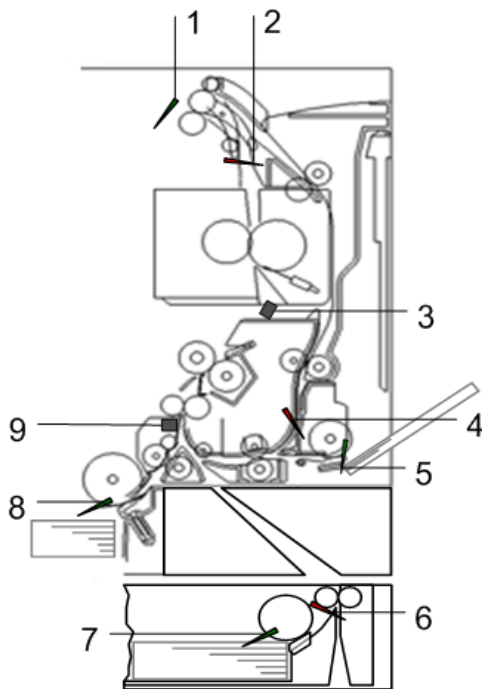
SC No.	Pattern	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC998-00	D	Application start error
		<ul style="list-style-type: none"> <li>• No application was registered to system within a specified time after the main power was turned on. (No application starts/All applications have been terminated abnormally)</li> <li>• Application started but cannot be drawn now for some reason.</li> </ul>
		<ul style="list-style-type: none"> <li>• Software bug (mainly the application)</li> <li>• The optional RAM, DIMM, boards required by the application program. Are not installed correctly.</li> </ul>
		<ul style="list-style-type: none"> <li>• Turn the main power off/on.</li> <li>• Check the optional RAM, DIMM, boards</li> <li>• Check the combination of programs</li> <li>• Replace the controller board.</li> </ul>

## Jam Detection

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### Sensor Position

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m112m0150

1. Paper Exit Full Sensor
2. Paper Exit Sensor
3. Fusing Entrance Sensor
4. Duplex Sensor
5. Bypass Paper End Sensor
6. Bank Sensor
7. Paper End Sensor (Bank)
8. Paper End Sensor
9. Registration Sensor

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### Jam History

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Plotter (Print engine) jam history can be displayed using SP7-507.

- SP7-507-001 "Plotter Jam History: Latest"
- SP7-507-002 "Plotter Jam History: Latest1"
- SP7-507-003 "Plotter Jam History: Latest2"
- SP7-507-004 "Plotter Jam History: Latest3"
- SP7-507-005 "Plotter Jam History: Latest4"
- SP7-507-006 "Plotter Jam History: Latest5"
- SP7-507-007 "Plotter Jam History: Latest6"

## 6. Troubleshooting

- SP7-507-008 "Plotter Jam History: Latest7"
- SP7-507-009 "Plotter Jam History: Latest8"
- SP7-507-010 "Plotter Jam History: Latest9"

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### Jam Codes

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#### Late jam

The paper has failed to arrive within the prescribed time due to a jam that has occurred upstream of the referenced sensor.

#### Lag jam

The paper has failed to leave the location of the referenced sensor within the prescribed time due to a jam downstream of the referenced sensor.

#### Stay jam

The paper is within the location of the referenced sensor.

#### SPDF

Jam Code	Cause of jam	Late Jam	Lag Jam	Stay Jam	Place Code
004	Registration Sensor	✓			P
054	Registration Sensor		✓		P
100	No Paper Feeding	✓	✓		P
013	DF Feed Sensor	✓			P
063	DF Feed Sensor		✓		P
001	DF top cover is opened during printing			✓	P
098	The distance between original document sheet is too short		✓		P
081	ID Card Set Sensor		✓		P

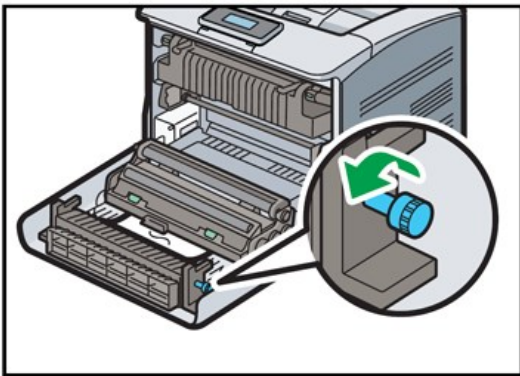
#### Main Machine

Jam Code	Jam Type	Late Jam	Lag Jam	Stay Jam	Place Code
003	No Paper Feeding (Tray1)	✓			A1
001	No Paper Feeding (Tray1)			✓	A1
008	No Paper Feeding (Bypass Tray)	✓			A2
009	No Paper Feeding (Duplex)	✓			Z
023	Registration Sensor	✓			A1
087	Registration Sensor		✓		B
001	Registration Sensor			✓	B
024	Fusing Entrance Sensor	✓			B
001	Fusing Entrance Sensor			✓	B



Jam Code	Jam Type	Late Jam	Lag Jam	Stay Jam	Place Code
032	Paper Exit Sensor	✓			C
096	Paper Exit Sensor		✓		C
001	Paper Exit Sensor			✓	C
038	Duplex Sensor	✓			Z
102	Duplex Sensor		✓		Z
001	Duplex Sensor			✓	Z
004	No Paper Feeding (Tray 2)	✓			Y1
001	No Paper Feeding (Tray 2)			✓	Y1

### Jam with Paper Lost



CSJ149

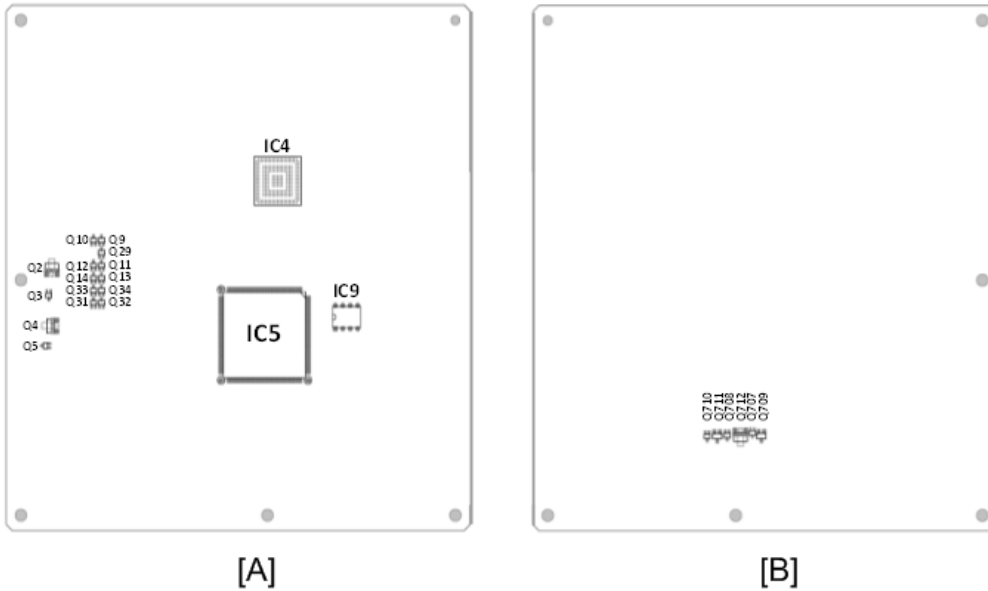
Open the Front Cover, then pull out the jammed paper. Turn the Knob (to help remove the paper).

## Electrical Component Defects

### Engine Board

[A]: Surface

[B]: Reverse side



m0b0m1502

IC No.	Controls this Electrical Component
IC5	Drum Motor: CMY
IC5	Fusing Motor
IC5	Transfer/Transport Motor
IC5	Drum Motor: K
Q2,Q3	Duplex Inverter Solenoid
Q4,Q5	Toner Supply Solenoid
Q710,Q711	Cooling Fan
Q708,Q712	Fusing Fan
Q707,Q709	PSU Cooling Fan
Q9	Registration Clutch
Q10	ITB Contact Clutch
Q11	Toner Supply Clutch (Y)
Q12	Toner Supply Clutch (M)
Q13	Toner Supply Clutch (C)
Q14	Toner Supply Clutch (K)
Q29	Paper Feed Clutch
Q31	Bypass Feed Clutch

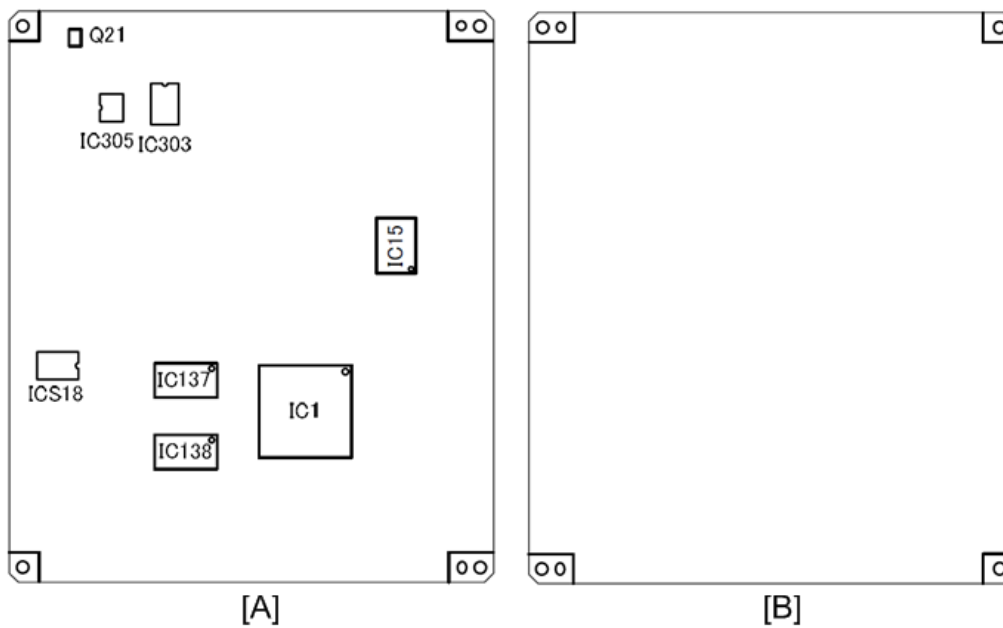
IC No.	Controls this Electrical Component
Q32	Duplex Intermediate Clutch
Q34	Bypass Bottom Plate Clutch
Q33	Duplex Paper Exit Clutch

## Controller Board

### MF Models

[A]: Surface

[B]: Reverse side



m0b0m1503

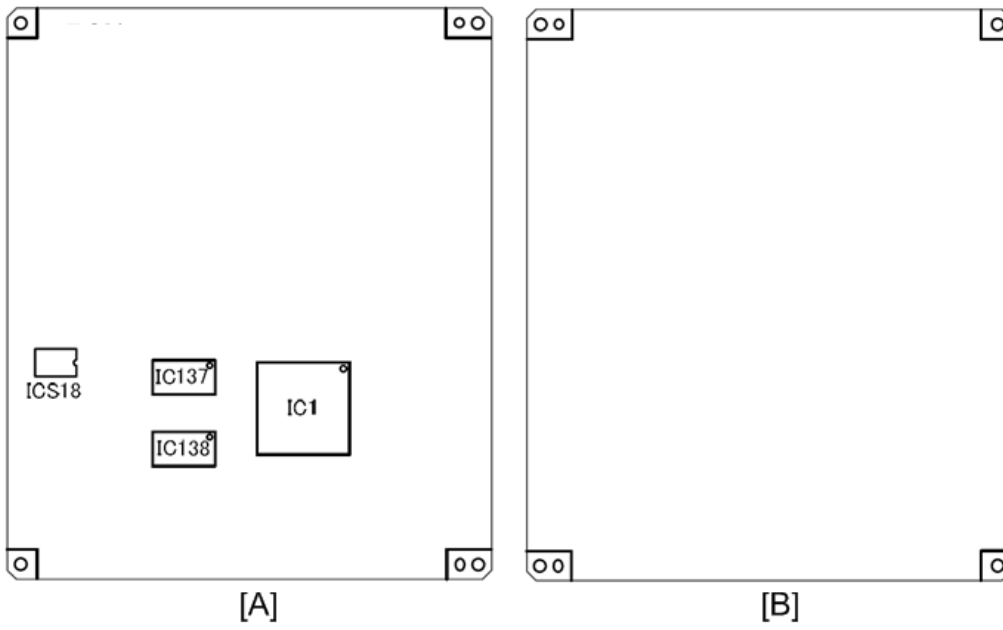
IC No.	Type of Device/Controls this Electrical Component
IC1	SoC
IC15	eMMC
IC137	DRAM
IC138	DRAM
IC303	Controls the Scanner Motor
IC305	Controls the DF Drive Motor
ICS18	NVRAM
Q21	Controls the DF Feed Clutch

### Printer Models

[A]: Surface

[B]: Reverse side

## 6.Troubleshooting



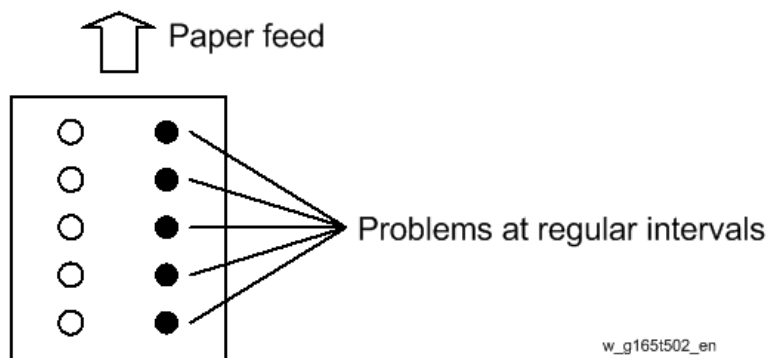
m0b0m1504

IC No.	Type of Device
IC1	SoC
IC137	DRAM
IC138	DRAM
ICS18	NVRAM

## Image Quality

### Overview

Image problems may appear at regular intervals that depend on the circumference of certain components. The following diagram shows the possible symptoms (black or white dots at regular intervals).



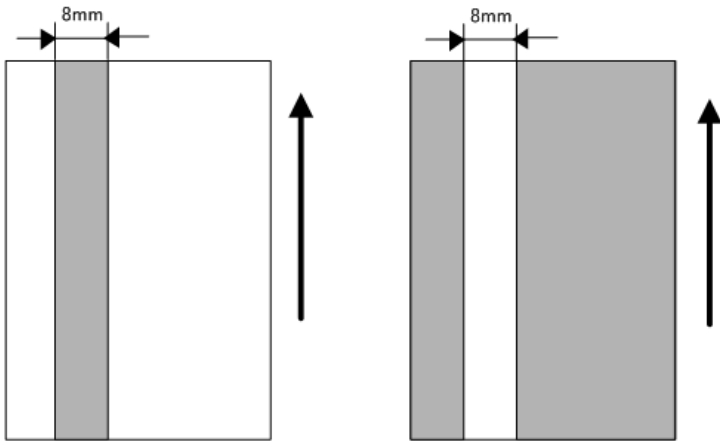
Unit	Parts	Interval *
PCDU	Drum	95mm
	Development Roller	34mm
	Cleaning Roller	30mm
	Charge Roller	30mm
Image Transfer	Image Transfer Belt	750mm
Paper Transfer	Transfer Roller	60mm
Fusing	Fusing Belt	95mm

\* The interval may vary depending on the temperature and paper slippage.

Each LED head has 26 LED chips on board, and each chip has a line of LEDs 8mm in length.

If a vertical line 8mm in width appears on the image parallel to the direction of paper feed, it may be caused by a broken LED chip. Exchange the LED head with one of the other colors to troubleshoot the symptom.

## 6.Troubleshooting



w\_m1093070\_en

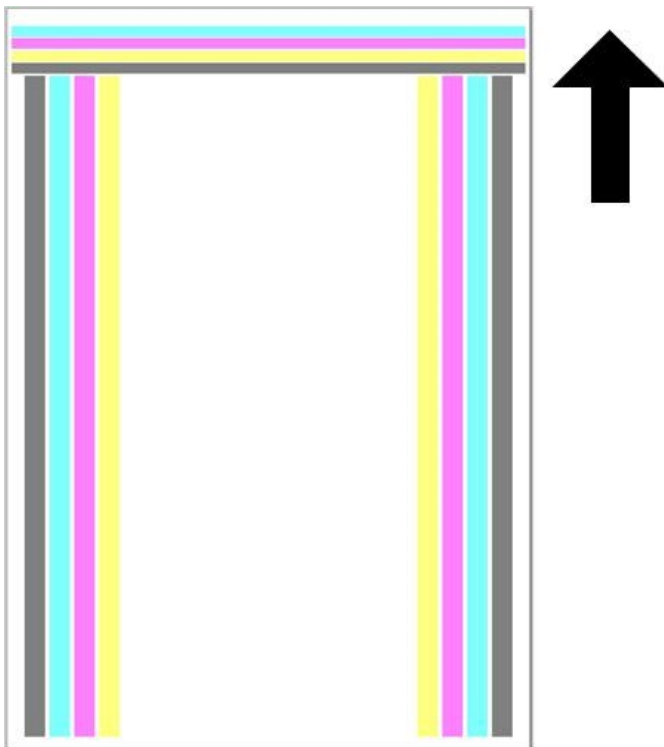
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### Checking a Sample Printout

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Print out a mono-color pattern (all K, C, M, or Y), which will clarify if the cause is a problem with one of the Drum unit, Image transfer belt, image transfer roller, or the fusing unit. A sample page is provided with the printer driver's CD. You can print the sample page from the printer driver's CD. Before printing, you have to adjust the printer driver settings to make the problem become obvious. For details about adjusting the settings, refer to "Printer Driver Setting for Printing a Sample" described below.

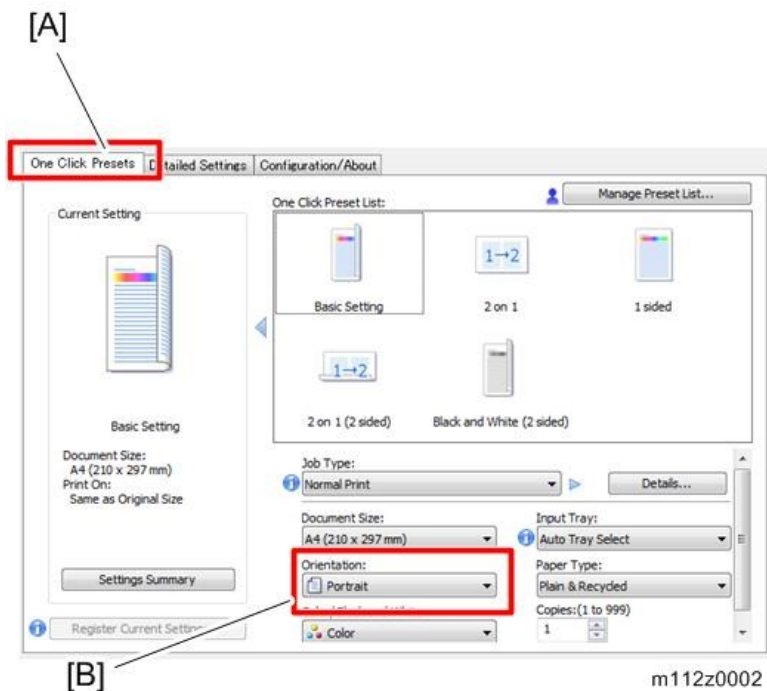
- Occurs with 1-3 colors: Drum unit, or LED head failure
- Occurs with all four colors: Image transfer belt, transfer roller or fusing unit failure



m112z0001

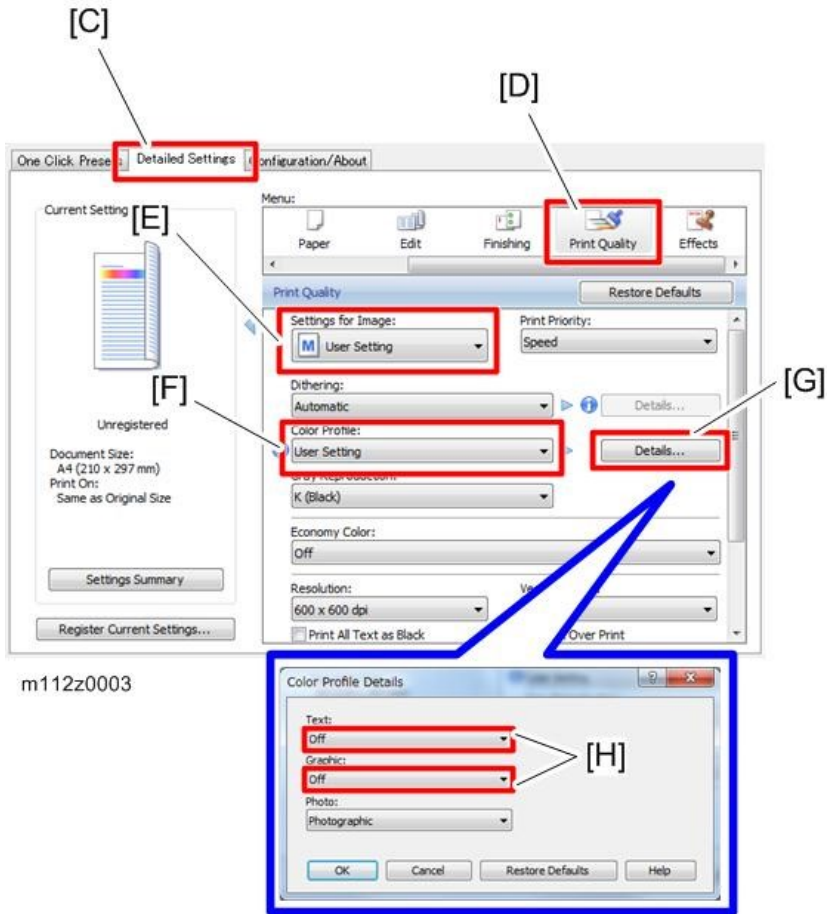
## Printer Driver Setting for Printing a Sample

1. Set the sheet (A4 SEF/8.5"×11" SEF).
2. Click "Properties" on the printer driver.
3. Click the "One Click Presets" tab [A] in the printing preferences screen.
4. Select "Portrait" from the pull-down menu in "Orientation" [B].
5. Click the "Detailed Settings" tab [C] in the printing preferences screen.
6. Click "Print Quality" [D] in the Menu.
7. Select "User Setting" from the pull-down menu in "Settings for Image" [E].
8. Select "User Setting" from the pull-down menu in "Color Profile" [F].
9. Press "Details..." [G], and then select "Off" from the pull-down menus [H] in "Text:" and "Graphic:".





## 6. Troubleshooting



## Mottling/Uneven Transfer

### Problem

Due to insufficient transfer ability, mottling/uneven transfer may occur.

### Cause

This may be due to reasons such as your machine's operation condition (such as the moisture or type of paper), season, and ambient environment (HH condition/LL condition).

### Solution

For the printer model, select “Menu” > “Maintenance” > “Quality Maintenance” > “Anti-humidity(Dropout rv)”, and set [Anti-humidity(Dropout Prv)] to [Active].

If the problem persists, it may be possible to temporarily evade the problem by changing the paper type and paper thickness settings. The paper type settings can be specified using the machine's control panel, so provide customer guidance accordingly.

Menu > Maintenance > General Settings

For the MF models, there is no “Anti-humidity (Dropout Prv)” function. If mottling/uneven image occurs, change the paper type settings.

User Tools icon > Machine Features > Tray Paper Settings

### Reference (Transfer Voltage Control Specifications)

Toner transferability varies according to the ratio between the areas of the paper and the transfer belt, so transfer voltage control is adjusted to stabilize image quality. Paper transfer current setting is adjusted according to the paper width.

#### Paper Size Classification

Classification	Regular size	Custom size
S1	A4 SEF, B4 SEF, A5 LEF, B5 LEF,LT SEF	Width: 210 mm or more
S2	A5 SEF, B5 SEF, A6 LEF, B6 LEF	Width: 148 mm – 210 mm
S3	A6 SEF, B6 SEF, Letter	Width: Less than 148 mm

Paper Size Classification: S1

Paper type: Plain Paper/Recycled Paper/Color Paper/Letterhead/Label Paper/Preprinted Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thin Paper	Side 1	56-65g/m <sup>2</sup>	Standard	14	15	21	17	20	36
	Side 2		12		18	22	23	26	22
Plain Paper 1	Side 1	66-74g/m <sup>2</sup>	Standard	11	15	17	18	25	27

## 6.Troubleshooting

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
(Non-Recycled Paper)	Side 2		15		15	17	20	15	23
Plain Paper 1 (Recycled Paper)	Side 1	66-74g/m <sup>2</sup>	Standard	12	13	15	27	27	30
	Side 2		15		13	18	20	25	26
Plain Paper 2 (Non-Recycled Paper)	Side 1	75-90g/m <sup>2</sup>	Standard	15	16	17	20	20	20
	Side 2		15		16	17	15	20	25
Plain Paper 2 (Recycled Paper)	Side 1	75-90g/m <sup>2</sup>	Standard	12	13	15	27	27	30
	Side 2		15		13	18	20	25	26
Middle Thick Paper	Side 1	91-128g/m <sup>2</sup>	Medium	9	9	8	15	18	17
	Side 2		9		12	10	10	13	10
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	11	9	12	20	23	25
	Side 2		11		9	12	12	15	30
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	10	9	11	15	18	15
	Side 2		-		-	-	-	-	-

### Paper type: Coated Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	10	15	15	16	16	16
	Side 2		11		15	15	13	17	15
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	9	12	9	12	12	14
	Side 2		10		13	13	10	13	13

### Paper type: Glossy Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
-	Side 1		Medium	10	15	20	13	18	31
	Side 2		10		14	20	10	14	31

### Paper type: Envelope

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	7	12	15	7	12	15
	Side 2								
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	7	12	15	7	12	15
	Side 2		-		-	-	-	-	-

### Paper type: Special Paper

## 6.Troubleshooting

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Special Paper 1	Side 1	55-90g/m <sup>2</sup>	Standard	16	15	15	18	16	17
	Side 2		12		16	18	15	19	20
Special Paper 2	Side 1	91-163g/m <sup>2</sup>	Medium	7	7	9	7	7	9
	Side 2		7		7	9	7	9	10
Special Paper 3	Side 1	164-220g/m <sup>2</sup>	Medium	7	7	7	8	8	8
Special Paper 4	Side 1	56-90g/m <sup>2</sup>	Standard	11	15	17	18	25	27
	Side 2		15		15	17	20	15	23
Special Paper 5	Side 1	56-90g/m <sup>2</sup>	Standard	11	15	17	18	25	27
	Side 2		15		15	17	20	15	23

Paper Size Classification: S2

Touch panel model: Paper type: Plain Paper/Recycled Paper/Color Paper/Letterhead/Label

Paper/Preprinted Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thin Paper	Side 1	56-65g/m <sup>2</sup>	Standard	20	28	54	25	33	50
	Side 2		20		33	58	37	52	55
Plain Paper 1 (Non-Recycled Paper)	Side 1	66-74g/m <sup>2</sup>	Standard	23	33	37	28	38	42
	Side 2		23		38	59	46	52	64
Plain Paper 1 (Recycled Paper)	Side 1	66-74g/m <sup>2</sup>	Standard	31	34	47	36	39	52
	Side 2		31		34	57	36	39	62
Plain Paper 2 (Non-Recycled Paper)	Side 1	75-90g/m <sup>2</sup>	Standard	25	32	42	30	37	47
	Side 2		25		37	47	30	42	52
Plain Paper 2 (Recycled Paper)	Side 1	75-90g/m <sup>2</sup>	Standard	31	34	47	36	39	52
	Side 2		31		34	57	36	39	62
Middle Thick Paper	Side 1	91-128g/m <sup>2</sup>	Medium	15	26	36	20	31	41
	Side 2		15		26	66	20	31	71
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	21	36	31	26	41	36
	Side 2		19		36	68	24	41	73
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	17	21	18	19	24	26
	Side 2								

**Paper type:** Coated Paper

## 6.Troubleshooting

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	15	23	31	20	28	36
	Side 2		15		23	60	20	28	65
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	13	16	22	18	21	27
	Side 2		13		16	70	18	21	75

### Paper type: Glossy Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
-	Side 1		Medium	18	16	26	23	21	31
	Side 2		18		16	65	23	21	70

### Paper type: Envelope

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	17	27	27	17	27	27
	Side 2								
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	17	27	27	17	27	27
	Side 2								

### Paper type: Special Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Special Paper 1	Side 1	55-90g/m <sup>2</sup>	Standard	15	22	37	28	27	42
	Side 2		13		26	32	25	40	32
Special Paper 2	Side 1	91-163g/m <sup>2</sup>	Medium	10	24	18	10	29	23
	Side 2		10		26	29	16	33	36
Special Paper 3	Side 1	164-220g/m <sup>2</sup>	Medium	9	21	18	12	24	26
Special Paper 4	Side 1	56-90g/m <sup>2</sup>	Standard	23	33	37	28	38	42
	Side 2		23		38	59	46	52	64
Special Paper 5	Side 1	56-90g/m <sup>2</sup>	Standard	23	33	37	28	38	42
	Side 2		23		38	59	46	52	64

### Paper Size Classification: S3

Touch panel model: Paper type: Plain Paper/Recycled Paper/Color Paper/Letterhead/Label

Paper/Preprinted Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thin Paper	Side 1	56-65g/m <sup>2</sup>	Standard	27	37	59	32	42	64
	Side 2		22		45	80	54	66	102

## 6.Troubleshooting

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Plain Paper 1 (Non-Recycled Paper)	Side 1	66-74g/m <sup>2</sup>	Standard	25	34	47	30	39	52
	Side 2		31		42	72	57	73	106
Plain Paper 1 (Recycled Paper)	Side 1	66-74g/m <sup>2</sup>	Standard	35	37	45	40	42	50
	Side 2		35		37	75	40	42	80
Plain Paper 2 (Non-Recycled Paper)	Side 1	75-90g/m <sup>2</sup>	Standard	30	30	52	35	35	57
	Side 2		30		30	85	35	35	90
Plain Paper 2 (Recycled Paper)	Side 1	75-90g/m <sup>2</sup>	Standard	35	37	45	40	42	50
	Side 2		35		37	75	40	42	80
Middle Thick Paper	Side 1	91-128g/m <sup>2</sup>	Medium	18	35	35	23	40	40
	Side 2		18		40	85	23	45	90
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	21	20	25	26	25	30
	Side 2		21		20	105	26	25	110
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	25	29	20	27	31	22
	Side 2								

**Paper type:** Coated Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	13	27	40	18	32	45
	Side 2		13		27	90	18	32	95
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	11	20	30	16	25	35
	Side 2		11		20	85	16	25	90

**Paper type:** Glossy Paper

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
-	Side 1		Medium	23	20	30	28	25	35
	Side 2		23		20	95	28	25	100

**Paper type:** Envelope

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Thick Paper 1	Side 1	129-163g/m <sup>2</sup>	Medium	17	27	37	17	27	37
	Side 2								
Thick Paper 2	Side 1	164-220g/m <sup>2</sup>	Medium	17	27	37	17	27	37
	Side 2								

**Paper type:** Special Paper

## 6.Troubleshooting

Paper Thickness	Side 1/ Side 2	Paper Weight	Print Speed	Black Mode			Color Mode		
				LL	MM	HH	LL	MM	HH
Special Paper 1	Side 1	55-90g/m <sup>2</sup>	Standard	25	34	47	21	39	52
	Side 2		21		42	45	35	61	47
Special Paper 2	Side 1	91-163g/m <sup>2</sup>	Medium	13	20	19	16	25	30
	Side 2		22		40	43	23	40	48
Special Paper 3	Side 1	164-220g/m <sup>2</sup>	Medium	15	29	20	15	31	22
Special Paper 4	Side 1	56-90g/m <sup>2</sup>	Standard	25	34	47	30	39	52
	Side 2		31		42	72	57	73	106
Special Paper 5	Side 1	56-90g/m <sup>2</sup>	Standard	25	34	47	30	39	52
	Side 2		31		42	72	57	73	106



## Adjust the Change of Color

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### Problem

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At the time of installation and soon after changing the PCDU, the following may occur:

- In half-tone images with low gradation, problems such as insufficient density and inadequate tone may occur. Furthermore, the density of halftone images may increase while in use.

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### Cause

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This occurs because of variation in characteristics of components (for development) on the initial use of the PCDU. The density of half-tone images with low gradation is unstable only on the initial use.

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### Solution

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#### Correct the Color Gradation Automatically

##### **1.** Execute Auto Image Density Adjustment.

- MF models: User Tools > Machine Features > Printer Features >Data Management > Auto Image Density Adjustment & Colour Calibration
- Printer model: [Menu] key > Maintenance > Quality Maintenance > Auto ImgDensAdj & ColrCalib

##### **2.** Select the resolution as follows.

1st time: 600 x 600 (1-bit)

2nd time: 600 x 600 (2-bit)

3rd time: 600 x 600 (4-bit)

4th time: 1200 x 1200 (1-bit)

##### **3.** Press [OK]

##### **4.** Successful completion at first to third execution => Return to Step 2. Successful completion at fourth execution => Complete

##### **Note**

If the execution has failed => In SP mode, check the execution results of MUSIC and process control to identify the cause of the problem.

##### **5.** If the adjustment by Auto Image Density Adjustment is insufficient, perform adjustment manually by referring to the color gradation correction sheet.

---

### Setting Gradation Correction Values

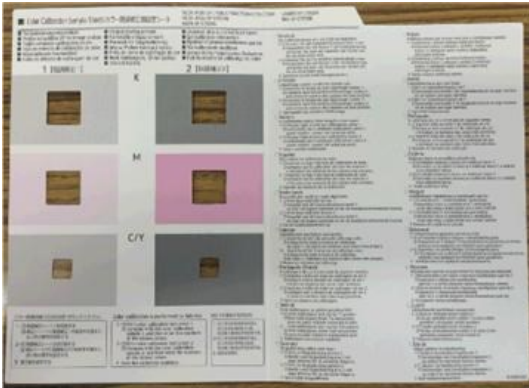
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#### Overview

When receiving customer complaints on the tone of printed images, the color gradation correction sheet is a tool for assessing whether the machine is printing images accurately, and making corrections accordingly.

## 6.Troubleshooting

### Color gradation correction sheet



m111d6701

### Procedure

#### Note

- Before performing this procedure, be sure to execute Auto Image Density Adjustment & Colour Calibration.
- This procedure varies between models depending on the control panel specifications (whether the panel is a fourline panel or touch panel). Read the section for your model.

#### 1. Execute Adjust Auto Density.

- For the MF models: [User Tools] icon > [Machine Features] > [Printer Features] > [Data Management] > [Color Calibration] > [Adjust Auto Density]
- For the Printer model: [Menu] key > [Maintenance] > [Quality Maintenance] > [Auto ImgDensAdj & ColrCalib] > [Color Calibration] > [Adjust Auto Density]

#### 2. A confirmation message appears. Press [OK] to adjust Auto Density.

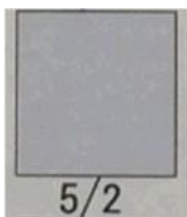
#### 3. After Adjust Auto Density is finished, press [Exit] to return to the [Color Calibration] screen.

#### 4. Select [Print Test Pattern 1] to print the gradation correction sheet.

#### 5. Compare gradation correction sheet 1 on the printed test pattern with the color sample, and select the numbers matching the color.

#### Note

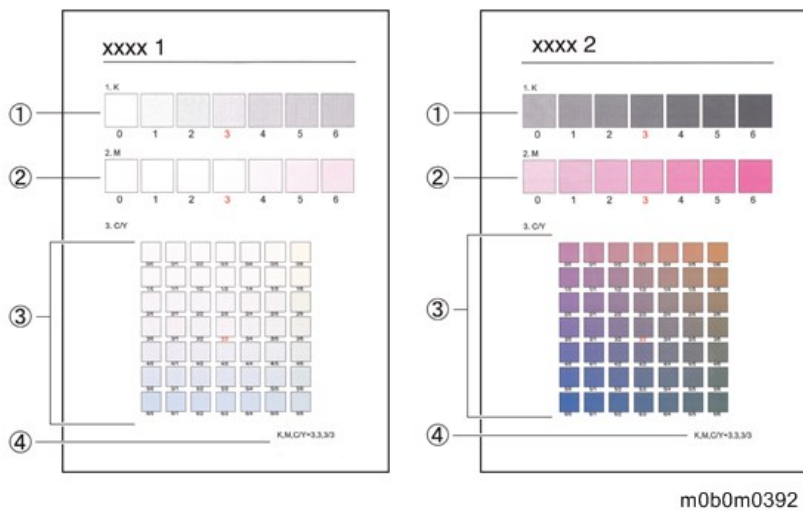
- As the initial setting, the color values for K, M, and C/Y are set to 3, 3, and 3/3. Cyan and yellow are set as a combined value of C/Y. For example, the following pattern indicates C=5 and Y=2.



m111d6702

6. After entering the values, print the gradation correction sheet again, and compare it with the color sample.
7. Check that the settings are correct and save the settings.
8. Perform gradation correction 2 according to Steps 5 to 7.

### Gradation correction sheet (sample)



#### 1. **K (black) correction value**

Adjusts the color printed when only black toner is used. The currently set correction value is printed in red.

#### 2. **M (magenta) correction value**

Adjusts the color printed when only magenta toner is used. The currently set correction value is printed in red.

#### 3. **C (cyan)/Y (yellow) correction value**

Corrects the colors printed when cyan and yellow are used. For C/Y (cyan/yellow), the correction value is determined based on a combination of these two colors, although panel settings are configured for each color.

#### 4. **Setting value**

The value displayed is the one currently set when the gradation correction sheet is printed. This value matches the one set on the control panel.

## When SC491-01 Is Displayed

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### Summary

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If SC491-01 (Primary/secondary transfer: Output error) appears, it is mainly due to problems with the image transfer belt unit, transfer roller, high voltage power supply (HVP), or terminals of the development roller. This section explains how to examine the ITB unit, transfer roller unit, and HVP.

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### Examining Components

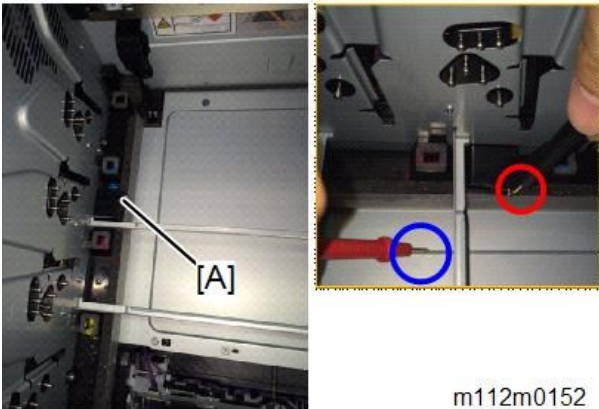
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#### Examining the HVP

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Check for a short circuit in the machine [A]. If it is conducting, the HVP is faulty.

(Red circle: power terminal, Blue circle: body)

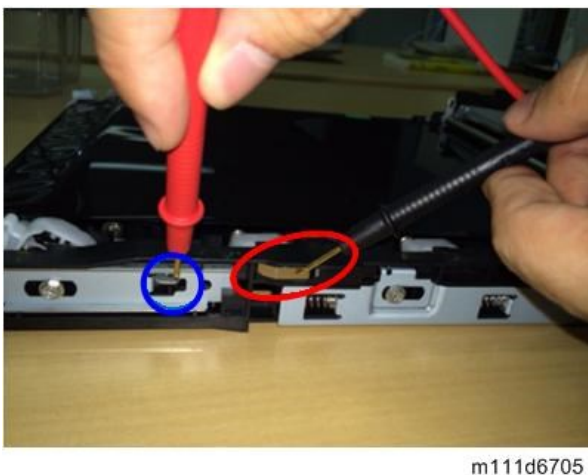


#### Examining the ITB Unit

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Check for a short circuit in the ITB. If it is conducting, the ITB Unit is faulty.

(Red circle: power terminal, Blue circle: ITB)



#### Examining the Transfer Roller Unit

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Check for a short circuit in the Transfer Roller. If it is not conducting, check if the transfer roller and electrode plate are in contact.



m111d6706

## When SC365/SC332 Is Displayed

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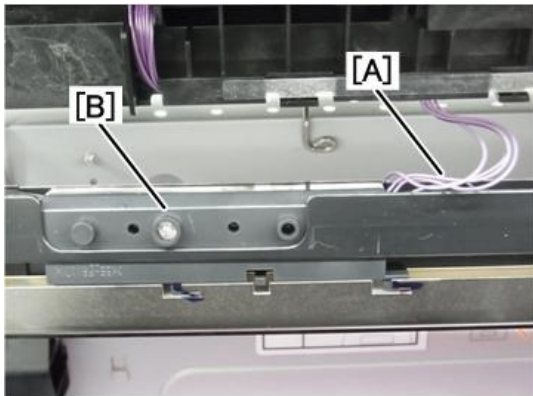
### SC365

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#### Cause

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The LED in the toner end sensor [B] fails to light because the sensor harness [A] is broken.



m111d6707

#### Solution

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1. Enter the SP mode, then execute SP3-017-001 (TnrRmnSnsFc).
2. Check the output count of each color toner in the following SPs.  
SP3-411-005: SnsOutCntAvK  
SP3-411-006: SnsOutCntAvY  
SP3-411-007: SnsOutCntAvM  
SP3-411-008: SnsOutCntAvC

**Note**

- If the sensor output count is "0 times", the harness is likely to be broken.

3. Replace the sensor harness of the corresponding color.

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### SC332

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#### Problem

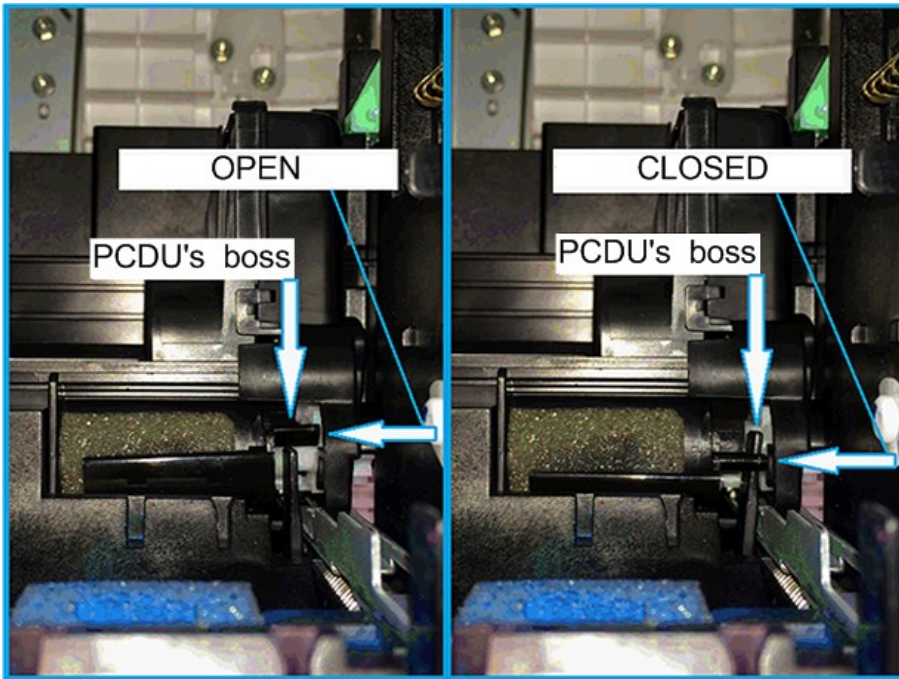
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- SC332-\*\* (Toner supply feed lock (01: Bk, 02: C, 03: M, 04: Y) occurs during operation.
- The machine can be restored temporarily by switching it off and then back on. The problem reoccurs after printing a number of pages.

#### Cause

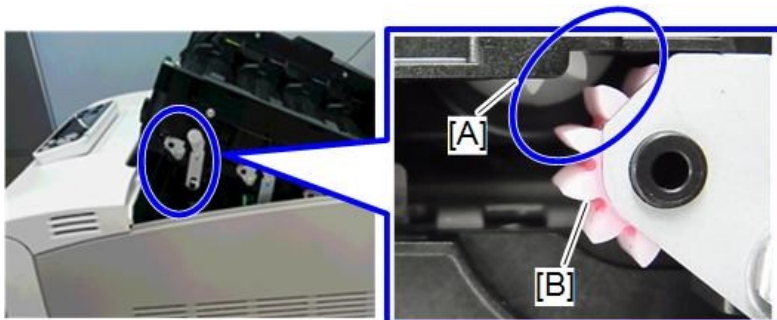
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- The actuator on the PCDU (at the right of the shutter) fails to lift the shutter and the shutter stays closed, failing to supply toner to the PCDU, resulting in SC detection.



w\_m112m0157\_en

- The toner cartridge gear [A] and the middle cover gear [B] are not connected, failing to supply toner to the PCDU, resulting in SC detection.

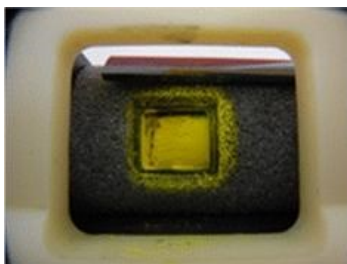


m112m0155

- Toner has clogged in the toner supply port of the toner cartridge.

**Note**

- Open the toner cartridge's outer and inner shutters and check the toner supply port. If the toner is clogged, it will not come out even if you hold the cartridge with the supply port facing down and the shutter open.



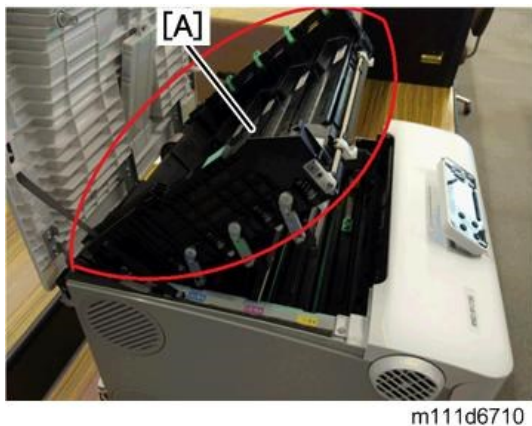
m111d6709



## 6.Troubleshooting

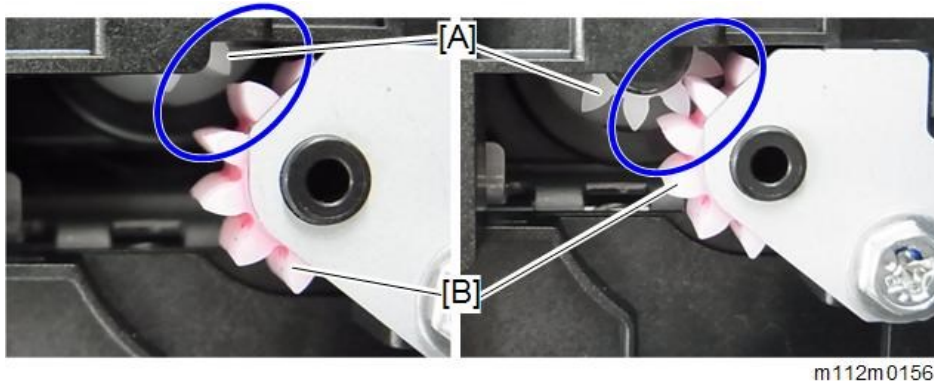
### Solution

1. Reinstall the toner cartridge with the middle cover closed [A] to make sure that the shutter is properly lifted.



2. Open the middle cover and make sure that the toner cartridge gear [A] and the middle cover gear [B] are engaged.

(Left: not engaged, Right: engaged)



3. Eliminate the toner clogging in the supply port of the toner cartridge, shake the toner well, and then reinstall the cartridge.
4. If the problem persists even after performing Steps 1 and 2, replace both the PCDU and the toner cartridge.

### Checking Toner Supply to PCDU

1. Execute SP3-017-001 (TnrRmnSnsFc) and SP3-017-002 (TnrRmnSnsBk).
2. Execute the SPs below, and then check the category of the LED used for the toner-end sensor for each color.

Toner End Sensor	SP	No. to be identified/LED category
BK	3-244-009	29: Category 1 31: Category 2 27: Category 3
C	3-244-016	9: Category 1 5: Category 2 4: Category 3

Toner End Sensor	SP	No. to be identified/LED category
M	3-244-015	21: Category 1 20: Category 2 16: Category 3
Y	3-244-014	24: Category 1 23: Category 2 20: Category 3

**3.** Check the output count of each color toner in the following SPs.

- SP3-411-005: SnsOutCntAvK
- SP3-411-006: SnsOutCntAvY
- SP3-411-007: SnsOutCntAvM
- SP3-411-008: SnsOutCntAvC

**4.** The amount of the toner is adequate if the [SnsOutCnt] values are within the range of the following table:

**Middle-temperature, Middle-humidity conditions (23C 50%)**

LED Category	Category 1		Category 2		Category 3	
	Min.	Max.	Min.	Max.	Min.	Max.
Bk	12	30	15	30	12	27
C	9	30	5	29	4	30
M	21	30	20	31	16	25
Y	24	37	23	37	20	37

**High-temperature, High-humidity conditions (27C 80%)**

LED Category	Category 1		Category 2		Category 3	
	Min.	Max.	Min.	Max.	Min.	Max.
Bk	10	29	10	31	10	27
C	16	37	20	37	20	37
M	20	37	15	30	14	28
Y	26	37	20	37	16	37

**Low-temperature, Low-humidity conditions (10C 15%)**

LED Category	Category 1		Category 2		Category 3	
	Min.	Max.	Min.	Max.	Min.	Max.
Bk	14	34	14	34	14	34
C	14	35	16	35	15	35
M	16	29	16	27	11	27
Y	19	30	19	30	14	25

## 6.Troubleshooting

### ↓ Note

- If the value exceeds the maximum limit, the toner is insufficient. In such a case, replenish the toner in the following SP modes (the amount will be sufficient by replenishing up to 6 times):

### Related SPs

SP3-015-003: TnrSplyK

SP3-015-004: TnrSplyY

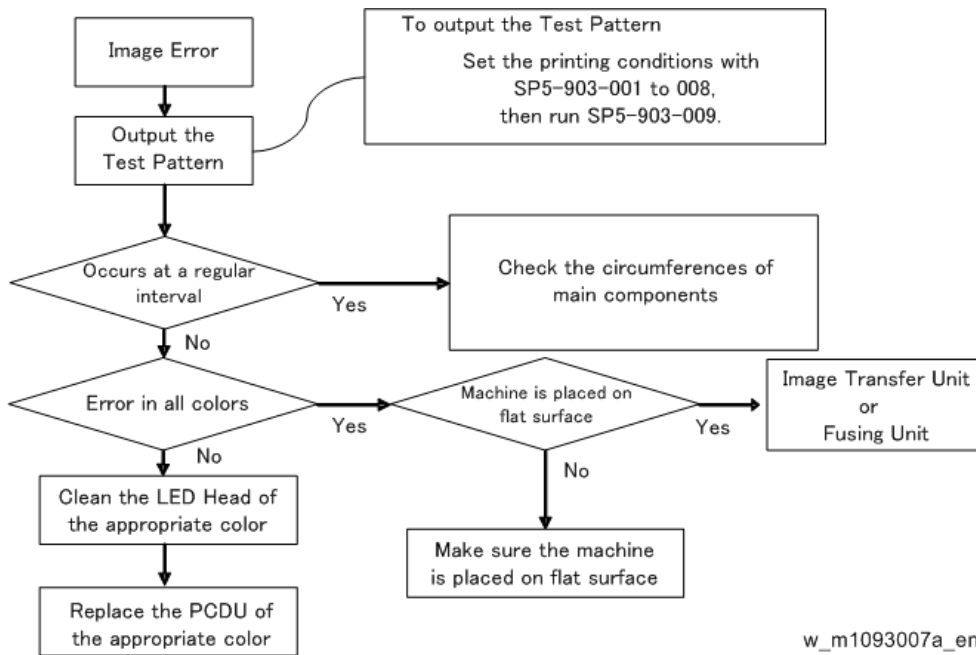
SP3-015-005: TnrSplyM

SP3-015-006: TnrSplyC

### ↓ Note

- After replenishing the toner, be sure to execute SP3-017-001 (TnrRmnSnsFc) and SP3-017-002 (TnrRmnSnsBk). Otherwise, the report of the toner amount will not be updated.

## Other Problems



Unit	Parts	Interval*
PCDU	Drum	95mm
	Development Roller	34mm
	Cleaning Roller	30mm
	Charge Roller	30mm
Image Transfer	Image Transfer Belt	750mm
Paper Transfer	Transfer Roller	60mm
Fusing	Fusing Belt	95mm

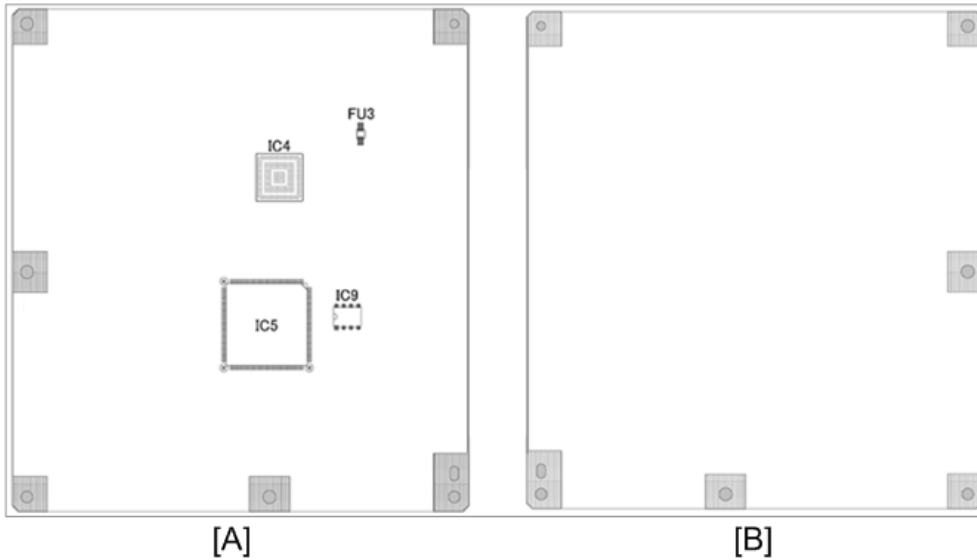
\* The interval may vary depending on the temperature and paper slippage.

## Blown Fuse Conditions

### Fuses on the Engine Board

[A]: Surface

[B]: Reverse side



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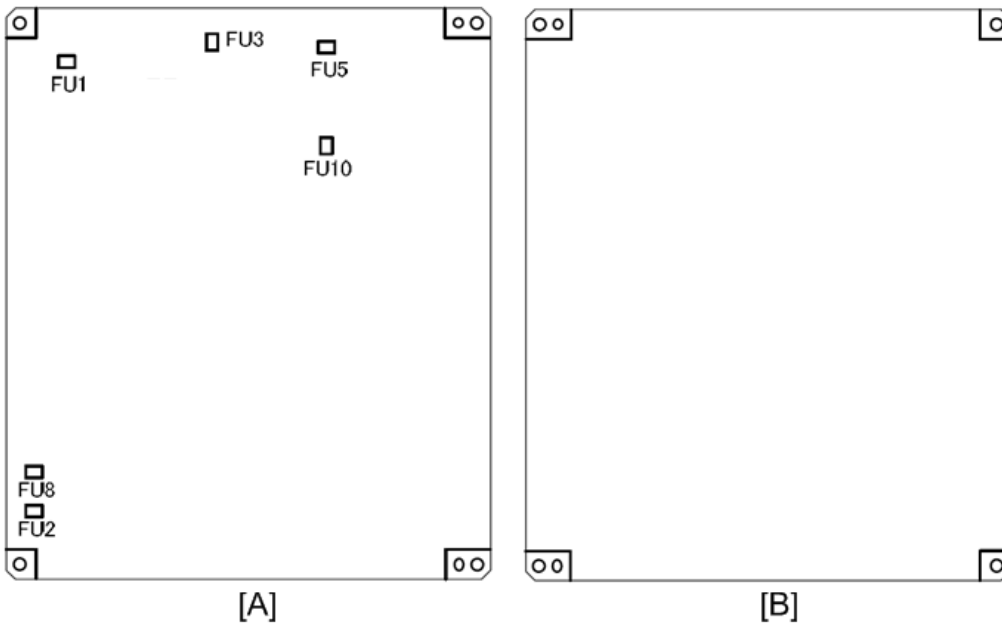
FU No.	Fuse	Function	Symptom, Cause, Action
FU3	Microfuse	Overcurrent protection for LED Power supply	<p>Symptom</p> <ul style="list-style-type: none"> <li>LED error</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>Harness (+5V_LED) is shorted to GND.</li> <li>Fuse blows caused by the GND short in the Harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Operation Panel or EGB</li> </ul>

### Fuses on the Controller Board

MF Models

[A]: Surface

[B]: Reverse side



m0b0m1505

FU No.	Fuse	Function	Symptom, Cause, Action
FU1	Microfuse	Overcurrent protection for DF Clutch	<p>Symptom</p> <ul style="list-style-type: none"> <li>DF Unit does not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the Controller Board, or a fuse blows caused by a GND short in the harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>
FU2	Microfuse	Overcurrent protection for Controller Board	<p>Symptom</p> <ul style="list-style-type: none"> <li>MFP does not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the CTL PCB, or a fuse blows caused by a GND short in the harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>
FU3	Microfuse	Overcurrent protection for Scanner CIS LED.	<p>Symptom</p> <ul style="list-style-type: none"> <li>Scanner Unit does not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the CTL PCB, or a fuse blows caused by a GND short in the</li> </ul>

## 6.Troubleshooting

FU No.	Fuse	Function	Symptom, Cause, Action
			<p>harness.</p> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>
FU5	Microfuse	Overcurrent protection for DF CIS LED.	<p>Symptom</p> <ul style="list-style-type: none"> <li>DF Unit does not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the Controller Board, or a fuse blows caused by a GND short in the harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>
FU8	Microfuse	Overcurrent protection for OPU.	<p>Symptom</p> <ul style="list-style-type: none"> <li>OPU does not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the Controller Board, or a fuse blows caused by a GND short in the harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>
FU10	Microfuse	Overcurrent protection for DF & Scanner CIS power.	<p>Symptom</p> <ul style="list-style-type: none"> <li>DF Unit and Scanner Unit do not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the Controller Board, or a fuse blows caused by a GND short in the harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>

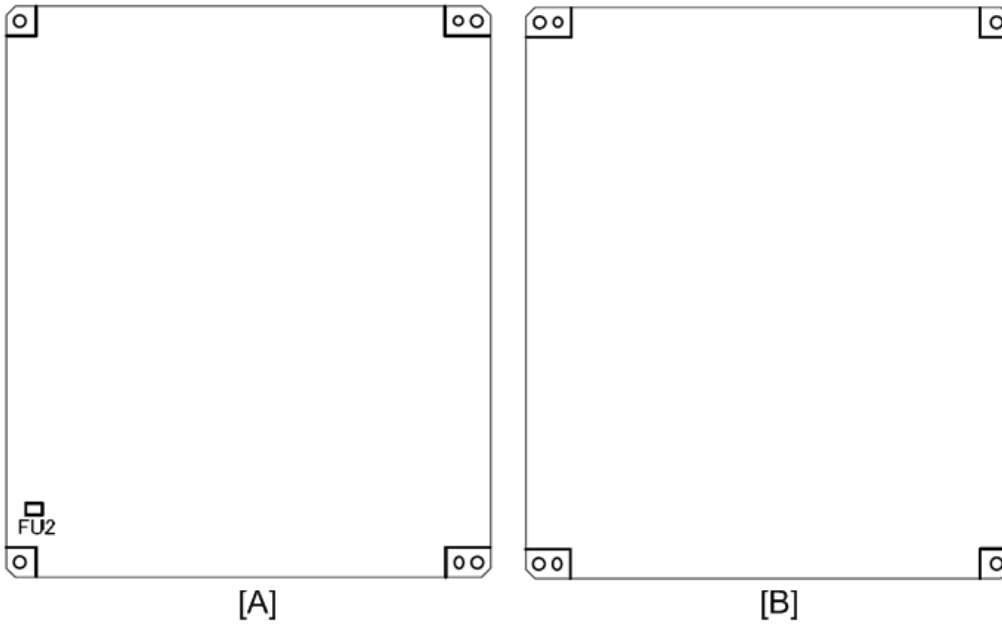
### Printer Models

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[A]: Surface

[B]: Reverse side

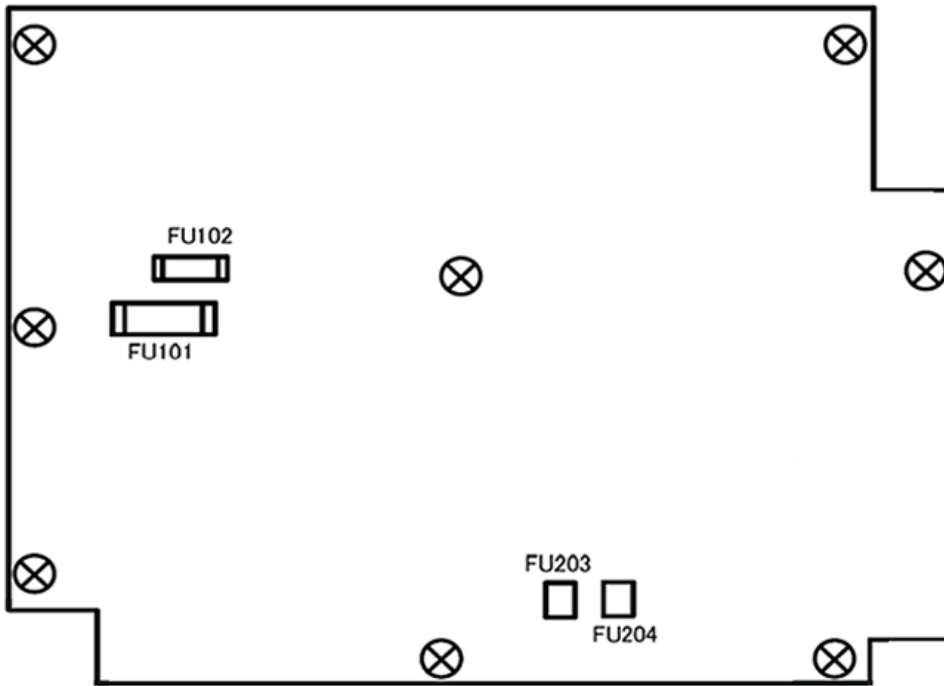




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FU No.	Fuse	Function	Symptom, Cause, Action
FU2	Microfuse	Overcurrent protection for Controller Board	<p>Symptom</p> <ul style="list-style-type: none"> <li>The printer does not turn on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>There is a short in the CTL PCB, or a fuse blows caused by a GND short in the harness.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the Controller Board.</li> </ul>

PSU Fuses



m112m0137

FU No.	Fuse	Function	Symptom, Cause, Action
FU101	Ceramic tube Fuse	Overcurrent protection for the Fusing Heater circuit	<p>Symptom</p> <ul style="list-style-type: none"> <li>Fusing errors occur.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>The harness of the Fusing became shorted with GND.</li> <li>Broken Fusing circuit in the PSU</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the PSU</li> </ul>
FU102	Ceramic tube Fuse	Overcurrent protection for the Power circuit	<p>Symptom</p> <ul style="list-style-type: none"> <li>The power cannot be turned on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>Varistor 4 has shorted out because of excess voltage, which resulted in excess current flow, causing a FU102 blowout.</li> <li>Primary circuit of the PSU is shorted with GND.</li> <li>Broken the Primary circuit of PSU</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the PSU</li> </ul>

FU No.	Fuse	Function	Symptom, Cause, Action
FU203	Microfuse	Protection for the secondary side Harness of the +24V_LPS output	<p>Symptom</p> <ul style="list-style-type: none"> <li>Engine does not start even though the power of the main body is turned on.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>The overcurrent protection equipment of the PSU suffered a breakdown and the +24V_LPS output became shorted with GND.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the PSU</li> </ul>
FU204	Microfuse	Protection for the secondary side Harness of the +24VS_LPS output	<p>Symptom</p> <ul style="list-style-type: none"> <li>Problems occur, including Process Control error, Jam; an image is not generated; and Toner supply is not carried out.</li> </ul> <p>Cause</p> <ul style="list-style-type: none"> <li>The overcurrent protection equipment of the PSU suffered a breakdown and the +24VS_LPS output became shorted with GND.</li> </ul> <p>Action</p> <ul style="list-style-type: none"> <li>Replace the PSU</li> </ul>

## 7. Detailed Descriptions

### Guidance for Those Who Are Familiar with Predecessor Products

#### Overview

This machine has the engine performance of its predecessor model, the SPC352DN, an sGW controller, a 7-inch Smart Operation Panel built-in, and has improved upon cost reduction and usability. We have launched 3 new MF models which include functions from the existing printer model. The ADF and scanner parts are equipped with a Straight-Through Path mechanism which makes it possible to copy both sides of an ID card together.

#### MF Models

Item	SP C352DN	SP C360SFNw SP C360SNw SP C361SFNw
ADF	None	One-path duplex scanning with Straight-Through Path mechanism For details about the mechanism, see <a href="#">SPDF</a> .
Scanner	None	CIS Scanner For details about the mechanism, see <a href="#">Scanner</a>
Operation Panel	4-line LCD	7-inch Smart Operation Panel Installed a relay board between the operation panel and the CTL board.
Exterior Color	Intelligent medium grey	Intelligent grey and intelligent dark grey
NFC	None	Standard For RICOH Smart Device Connector
Laser	Common (No mechanical differences)	
Toner	Dedicated toner cartridge	<ul style="list-style-type: none"> <li>• Changed the size (2 types: small and medium). Note that SP C361SFNw has a large capacity.</li> <li>• Common cartridges for SP C360 series</li> <li>• Not compatible with the SP C350 series because of the ID chip</li> </ul>
PCDU	Common (No mechanical differences)	
Image Transfer	Common (No mechanical differences)	

Item	SP C352DN	SP C360SFNw SP C360SNw SP C361SFNw
Fusing	Common (No mechanical differences)	
Paper Feed	Common (No mechanical differences)	
Paper Transport	Common (No mechanical differences)	
Waste Toner	Common (No mechanical differences)	
CTL	GW+	sGW For sGW, see " <a href="#">Differences between GW+ and sGW</a> ".
HDD	Yes	None <ul style="list-style-type: none"> <li>• Uses the eMMC on the CTL board as storage.</li> <li>• SP C361SFNw uses a micro SD card in addition to eMMC.</li> </ul>
Wireless LAN	Option	Standard
Interface Slots	<ul style="list-style-type: none"> <li>• USB-A</li> <li>• USB-B</li> <li>• Ethernet</li> <li>• Mini USB x1 (for debug monitor)</li> <li>• SD card x2</li> </ul>	<ul style="list-style-type: none"> <li>• USB-A</li> <li>• USB-B</li> <li>• Ethernet</li> <li>• Mini USB x1 (for debug monitor)</li> <li>• SD card x1</li> <li>• Micro SD card (SP C361SFNw only)</li> </ul>
Process Control	Common (No mechanical differences)	

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## Printer Model

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Item	SP C352DN	SP C360DNw
Operation Panel	4-line LCD	<ul style="list-style-type: none"> <li>• 4-line LCD</li> <li>• Installed a relay board between the operation panel and the CTL board</li> <li>• Added a USB slot to the front</li> <li>• Changed the exterior design</li> </ul>

## 7.Detailed Descriptions

Item	SP C352DN	SP C360DNw
Exterior Covers	-	<ul style="list-style-type: none"> <li>Changed the shape of the left cover (has a speaker opening)</li> </ul> Removal procedure is the same as SP C352DN
Exterior Color	Intelligent medium grey	Intelligent grey and intelligent dark grey
Buzzer Sound of Operational Panel	Standard	Installed a speaker in the right side of the main unit (to provide clearer sound)
NFC	None	Standard (For RICOH Smart Device Connector)
Laser	Common (No mechanical differences)	
Toner Cartridge	Dedicated toner cartridge	<ul style="list-style-type: none"> <li>Changed the size (2 types: small and medium)</li> <li>Common cartridges for SP C360 series</li> <li>Not compatible with the SP C350 series because of the ID chip</li> </ul>
PCDU	Common (No mechanical differences)	
Image Transfer	Common (No mechanical differences)	
Fusing	Common (No mechanical differences)	
Paper Feed	Common (No mechanical differences)	
Paper Transport	Common (No mechanical differences)	
Waste Toner	Common (No mechanical differences)	
CTL	GW+	sGW For sGW, see " <a href="#">Differences between GW+ and sGW</a> ".
HDD	Available	None Uses the eMMC on the CTL board as storage.
Wireless LAN	Option	Standard
Interface Slots	<ul style="list-style-type: none"> <li>USB-A</li> <li>USB-B</li> <li>Ethernet</li> <li>Mini USB x1 (for debug monitor)</li> <li>SD card x2</li> </ul>	<ul style="list-style-type: none"> <li>USB-A</li> <li>USB-B</li> <li>Ethernet</li> <li>Mini USB x1 (for debug monitor)</li> <li>SD card x1</li> </ul>
Process Control	Common (No mechanical differences)	
Energy Save	-	No Eco Night Sensor function
PS3/PCL	Option	Standard

## Differences between Each Model

Product Name	HDD	Function	Micro SD card	NFC option	RICOH Smart Device Connector	Application Site	Operation panel
SP C360DNw	None	Printer	None	None	Supported	Not supported	4-line
SP C360SFNw	None	4 in 1	None	None	Supported	Not supported	7" touch panel display
SP C360SNw	None	3 in 1	None	None	Supported	Not supported	7" touch panel display
SP C361SFNw	None	4 in 1	Available	Available	Supported	Supported	7" touch panel display

## Differences between GW+ and sGW

The sGW controller built into this machine is referred to as 1st CTL in the table below.

Item	GW+	sGW
Overview	A flagship controller that can be used with high-speed models and production printers as well as their peripherals.	An optimal low-cost controller for low-priced medium and low speed models.
Competition	MFP vendors	LP vendors and some MFP vendors to sell low-end MFPs.
1st CTL (This machine)	<b>Software</b> Functions to surpass competition are installed as standard. Adopts NetBSD as the OS.	Functions that are superior to the competition were chosen, and installed as standard. Adopted Linux as the OS, and aimed to develop the machine in a short time frame.
	<b>Hardware</b> The best hardware to install a high-speed CPU and ASIC, with a keen focus on basic capabilities. Supports various peripherals and I/F options.	Low-cost hardware to control the controller, engine and fax with a general purpose SoC (2 chips).
2nd CTL	No difference (Installed the 2nd CTL, which is shared with GW+, and supports SmartSDK I/F.)	



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## Saving Destination Changes and Micro SD Cards

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The machine installed with an sGW uses a micro SD card and an eMMC instead of a HDD as the saving destination.

The saving destination of the main unit's address book has changed from a HDD to an eMMC, and the browser setting values and storage for SDK has changed to a micro SD.

Application	GW+	sGW
Server certificate	eMMC	eMMC
SSL public certificate	eMMC	eMMC
Data for message customization of the authorization and billing control screen	eMMC	eMMC
Main unit address book	HDD	eMMC
Browser setting values	HDD	Micro SD
SDK storage	HDD	Micro SD
SP/UP	NVRAM	NVRAM
Counter	NVRAM	NVRAM

A Micro SD card is only installed into the SP C361SFNw in this series.

When the micro SD card requires replacing, SC861-51 or SC861-52 occurs. In this case, use the data transfer tool to transfer the data on the micro SD card to a new one.

Details about the data transfer tool are described separately.

### Specifications of the Micro SD Card

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#### Overview

- Manufacturer: ADATA
- Product Name: IDU3A-016GJ

#### Features

- Applicable for dual host voltage (3.3V) & (1.8V)
- Support CPRM code
- Hardware BCH Error Correcting Code (ECC) engine, Configurable ECC up to 72-bit
- Compatible with all PC Card Services and Socket Services
- Support Error Correcting Code (ECC) function to detect and correct errors.
- Support In System Programming (ISP) function to load the firmware.
- Enhanced ESD design
- Ensured Manufacturing Facilities
- Support Wear Leverage function to maximize data endurance
- Electronic Specifications base on the SD PHYSICAL LAYER SPECIFICATION Ver.3.00
- Reliability, Durability base on the SD PHYSICAL LAYER SPECIFICATION Ver.3.10 and Standard Size microSD Memory Card Mechanical Specification Ver.1.00

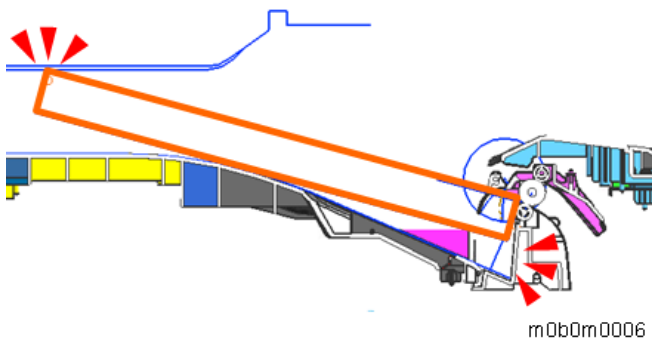
## Specifications

Items	Descriptions
Capacity	16GB
Operating voltage	3.3V ± 5%
Power consumption	0.95W
Shock resistance	1500G/0.5ms
Operating temperature (For Commercial)	-40°C to 85°C
Operating temperature (For Industrial)	-25°C to 85°C
Operating humidity	0°C to 55°C / 5% to 95% RH, non-condensing
Data transfer mode	SD 1.1/2.0/3.0
Vibration resistance	20G (10 to 2000Hz)
Mean Time Between Failure(s)	1,000,000 hrs
Endurance	30,000 P/E cycles

## Stacking Properties of the Exit Tray

In the case of the MF model, as there is a scanner/ADF above the exit tray, paper is caught by the tray-full detection feeler and is difficult to withdraw.

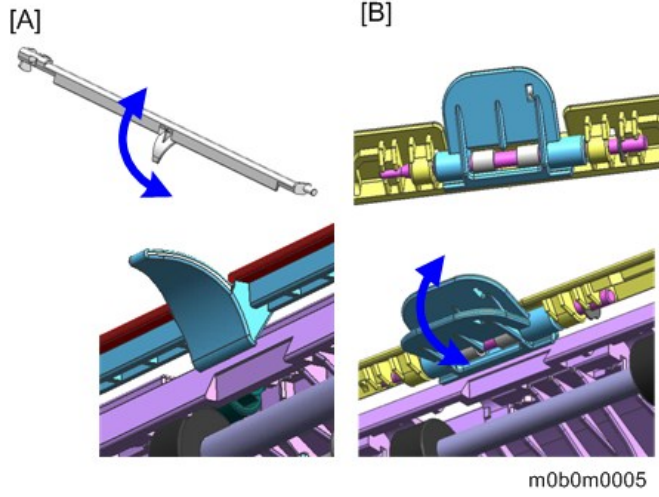
The paper hits the scanner surface, which causes the stack of paper to tip upwards at the paper exit. As a result, the feeler detects prematurely that the exit tray is full when the trailing edge of the next sheet approaches the exit tray.



To prevent this problem, the guide and feeler have been separated in the MF model, and the feeler has been changed to a moveable type.

[A]: Printer model, [B]: MF models

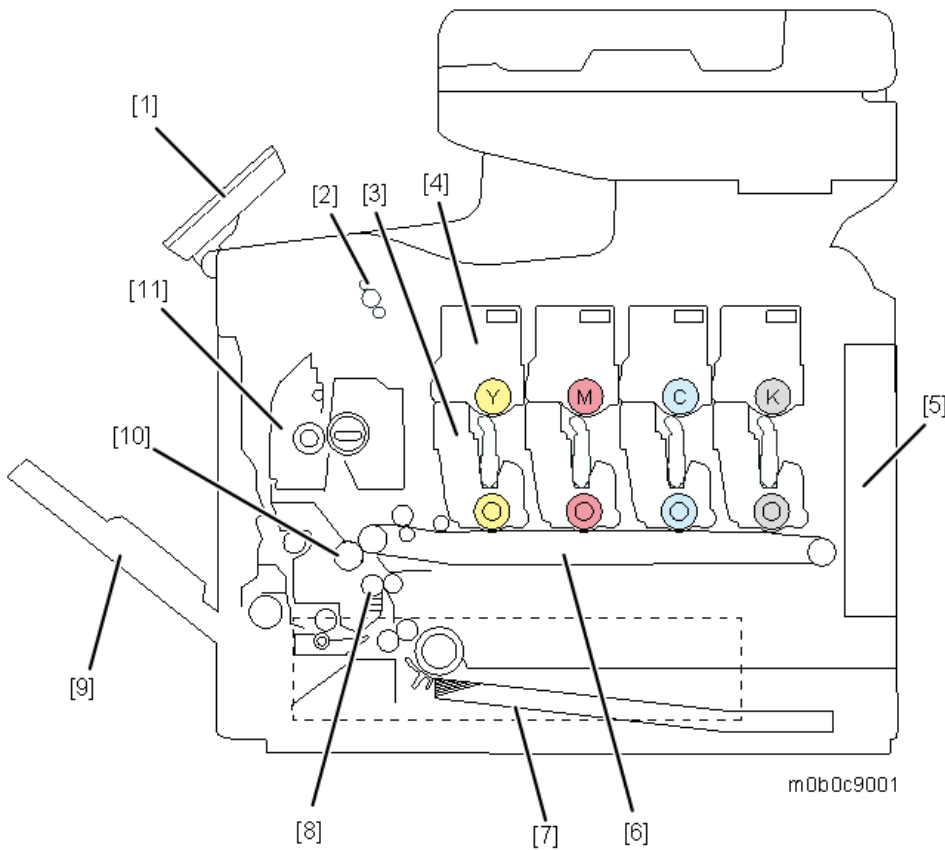
7.Detailed Descriptions



## Product Overview

### Component Layout

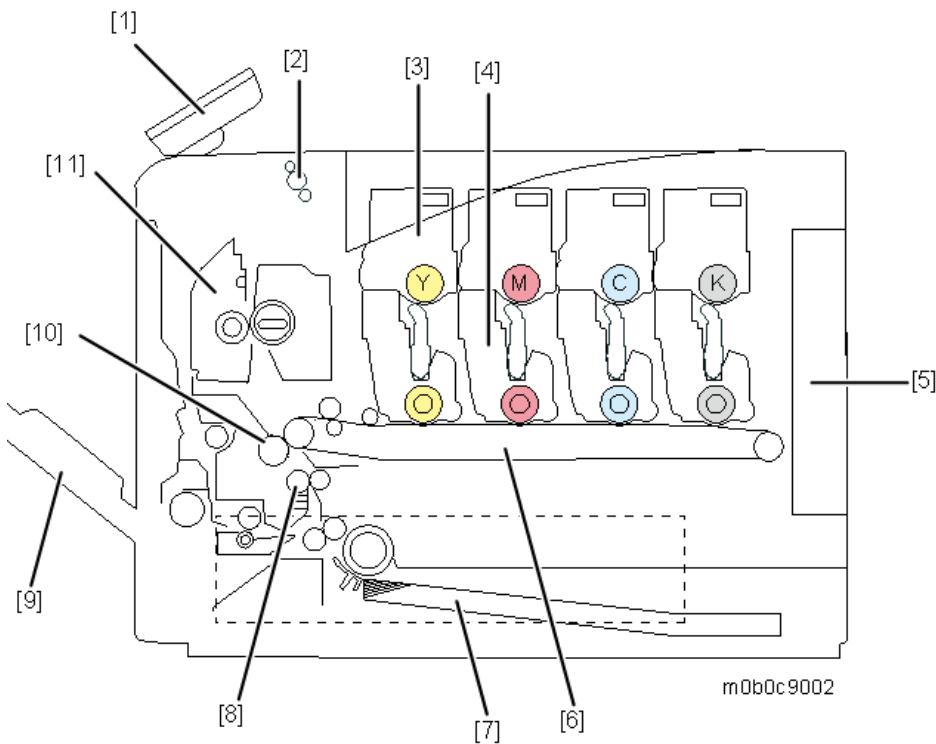
#### Engine (MF Models)



No.	Description	No.	Description
1	Operation Panel (7-inch Smart Operation Panel 2nd Generation)	7	Paper Feed Tray
2	Paper Exit/Reverse Roller	8	Registration Roller
3	PCDU	9	Bypass Tray Unit
4	Toner Cartridge	10	Paper Transfer Roller
5	Engine Board/Controller Board	11	Fusing Unit
6	Image Transfer Belt Unit		

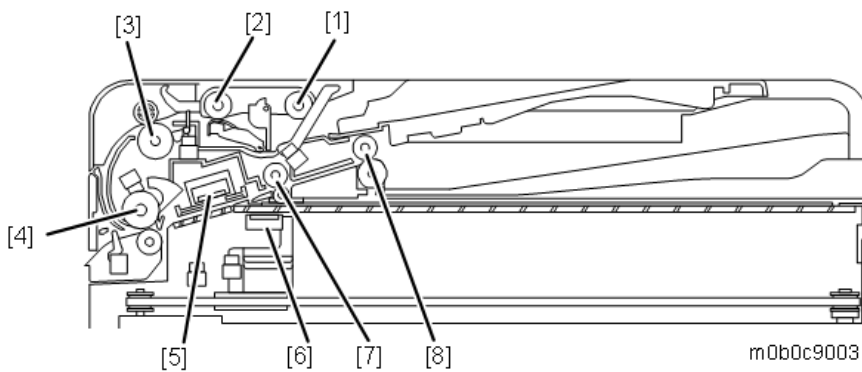
## 7.Detailed Descriptions

### Engine (Printer Model)



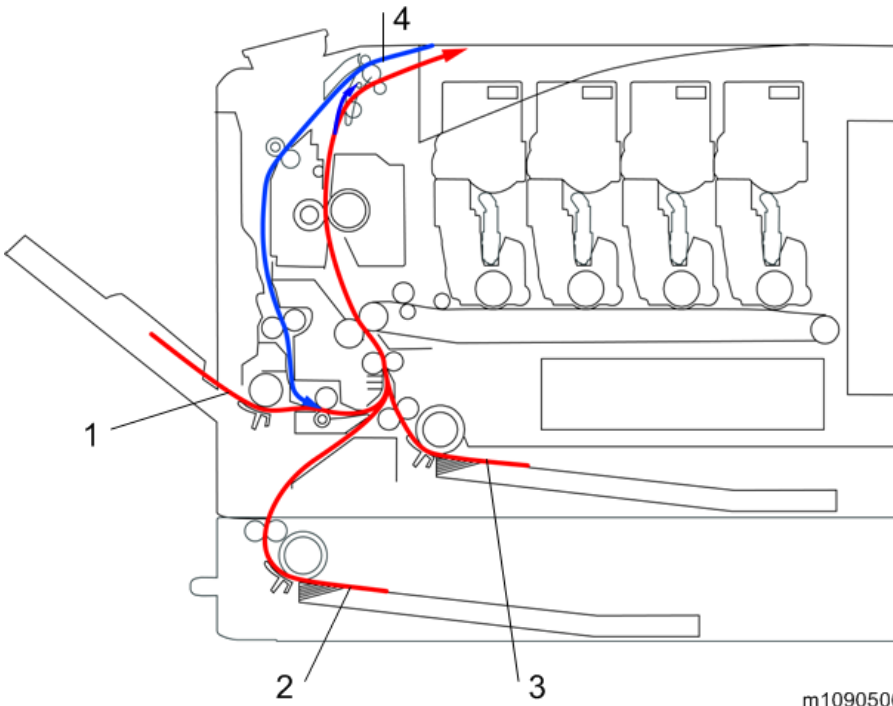
No.	Description	No.	Description
1	Operation Panel (4-line LCD)	7	Paper Feed Tray
2	Paper Exit/Reverse Roller	8	Registration Roller
3	Toner Cartridge	9	Bypass Tray Unit
4	PCDU	10	Paper Transfer Roller
5	Engine Board/Controller Board	11	Fusing Unit
6	Image Transfer Belt Unit		

### SPDF and Scanner



No.	Description	No.	Description
1	Pick-up Roller	5	Original Front Side CIS
2	Feed Roller	6	Original Rear Side CIS (Home Position)
3	Pull-out Roller	7	Post-scanning Roller
4	Pre-scanning Roller	8	DF Exit Roller

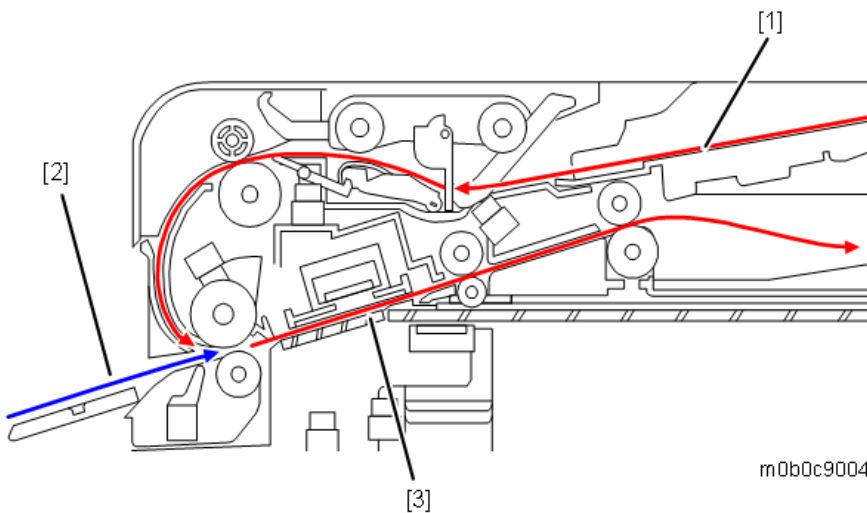
Paper Path



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No.	Description	No.	Description
1	Bypass Tray	3	Standard Paper Feed Tray
2	Optional Paper Feed Tray	4	Duplex Feed Path

Original Transport Path



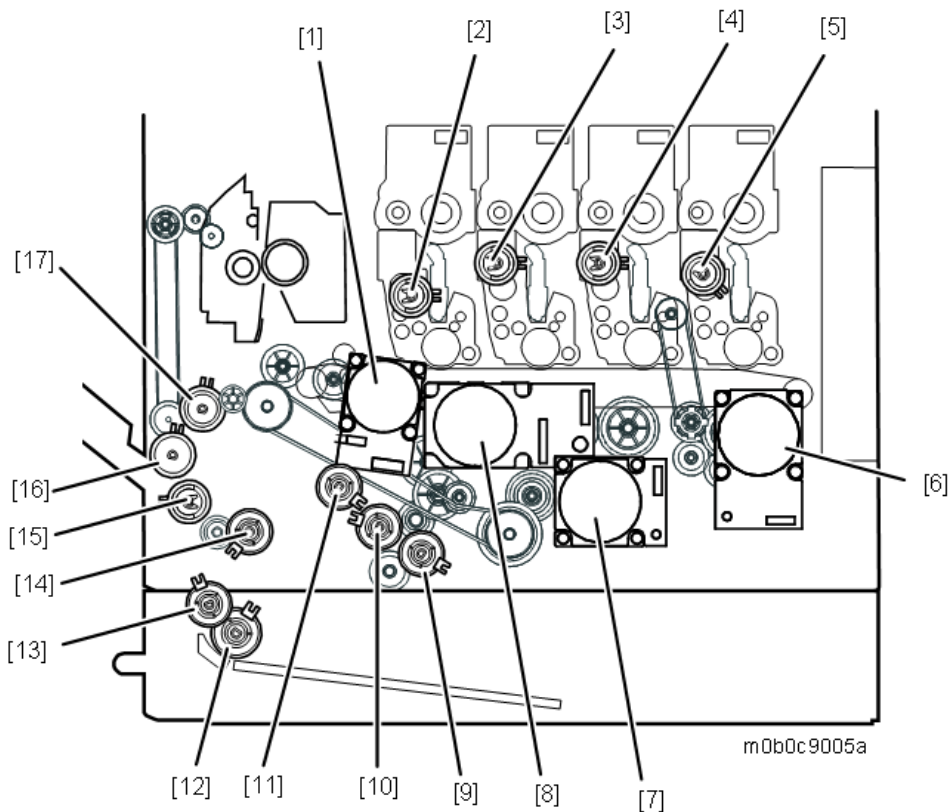
m0b0c9004

## 7.Detailed Descriptions

No.	Description	No.	Description
1	Document Feeder (Multiple-sheet Tray)	3	Straight-through Path
2	ID Card Feeder (Single-sheet Bypass Tray)		

## Drive Layout

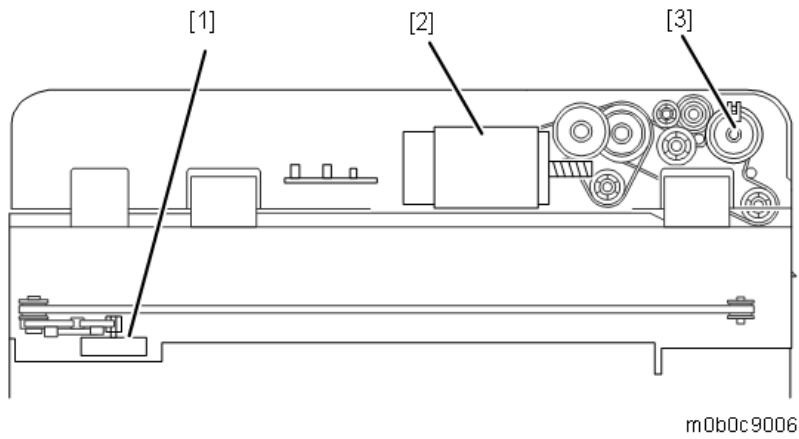
### Engine



No.	Description	No.	Description
1	Transfer/Transport Motor	10	Paper Feed Clutch
2	Toner Supply Clutch (Y)	11	Registration Clutch
3	Toner Supply Clutch (M)	12	Optional Paper Feed Clutch
4	Toner Supply Clutch (C)	13	Grip Roller Clutch
5	Toner Supply Clutch (K)	14	Duplex Paper Exit Clutch
6	Drum Motor: K	15	Bypass Feed Clutch
7	Fusing Motor	16	Bypass Bottom Plate Clutch
8	Drum Motor: CMY	17	Duplex Intermediate Clutch
9	ITB Contact Clutch		



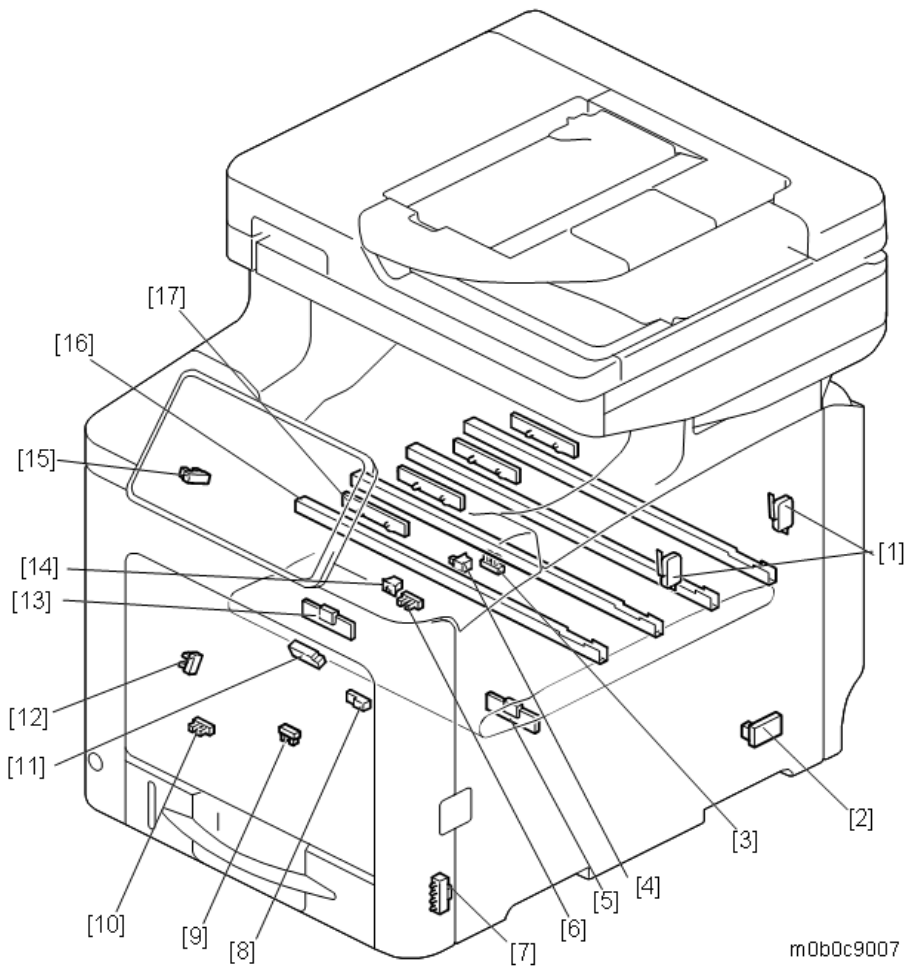
## SPDF and Scanner



No.	Description
1	Scanner Drive Motor
2	DF Drive Motor
3	DF Feed Clutch

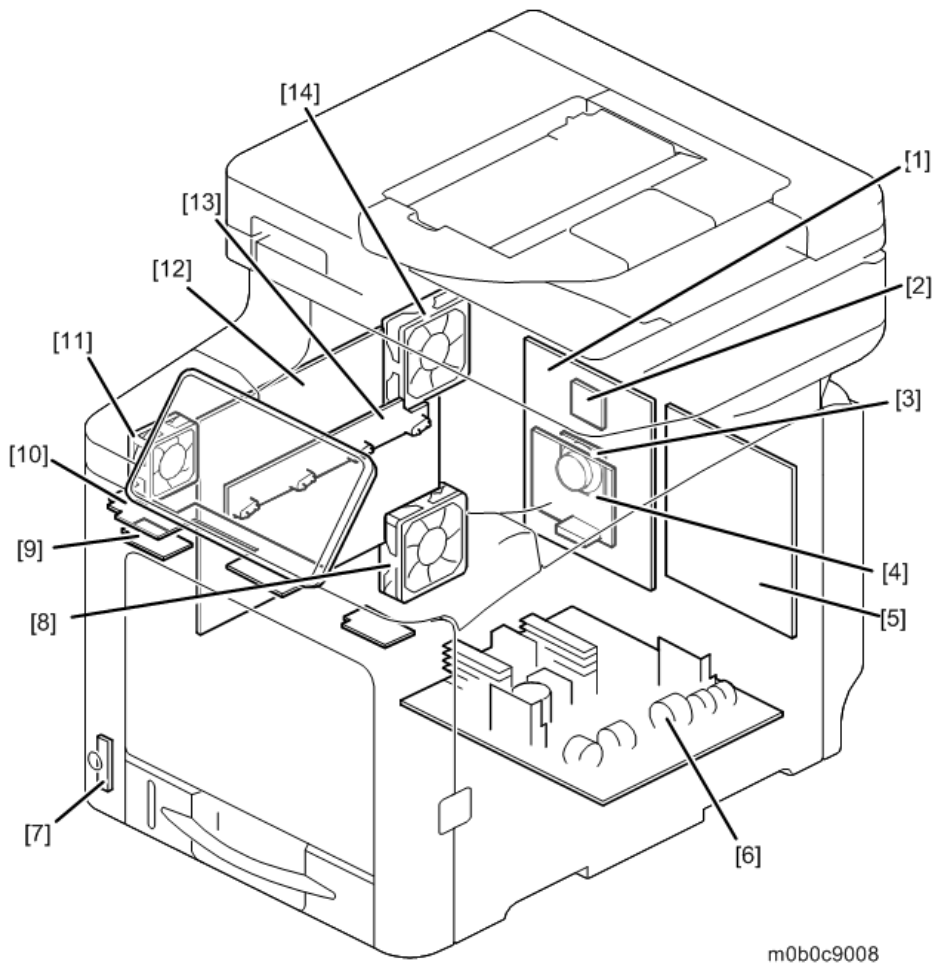
Electrical Components

MF Models (1)



No.	Description	No.	Description
1	Interlock Switches	10	Bypass Paper End Sensor
2	Temperature & Humidity Sensor	11	Fusing Entrance Sensor
3	Paper Exit Full Sensor	12	Paper End Sensor
4	ITB Contact Switch	13	TM(ID) Sensor
5	TM(ID) Sensor	14	Waste Toner Bottle Set Switch
6	Waste Toner Bottle Full Sensor	15	Paper Exit Sensor
7	Paper Size Switch (3 pins)	16	Discharge Lamp
8	Registration Sensor	17	Toner End Sensor
9	Duplex Sensor		

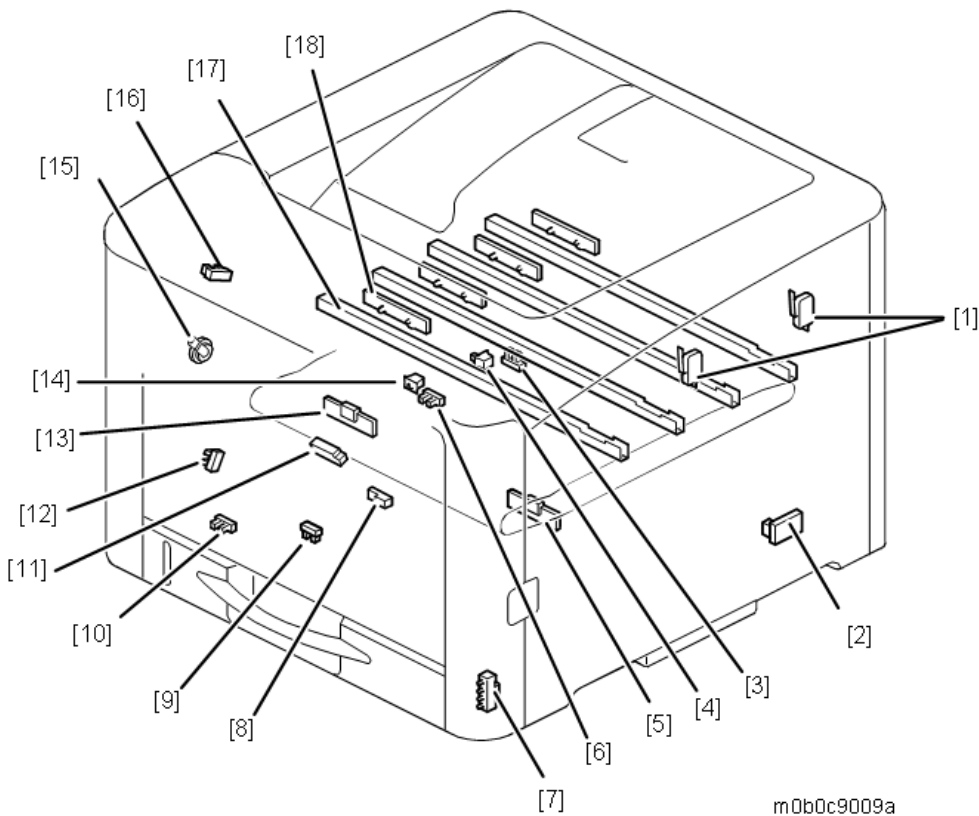
## MF Models (2)



No.	Description	No.	Description
1	CTL	8	PSU Fan
2	Wireless LAN Board	9	NFC Board
3	Speaker for Fax Unit	10	OPRB (Operation Panel Relay Board)
4	Fax Board	11	Fusing Fan
5	EGB	12	HVP
6	PSU	13	New PCDU Detection Board
7	Main Power Switch	14	Cooling Fan

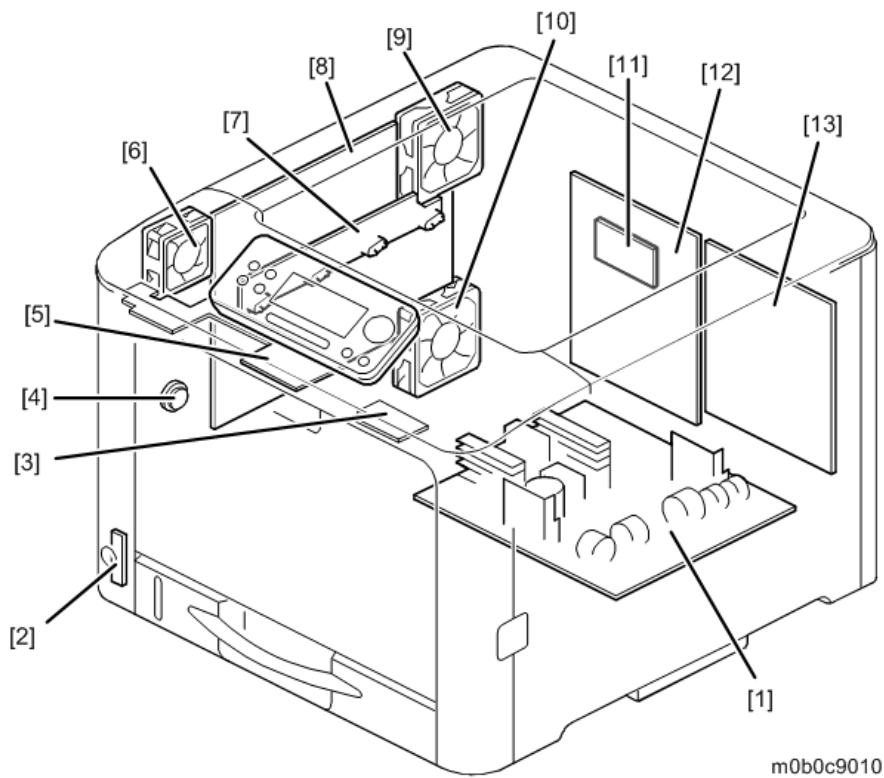
## 7.Detailed Descriptions

### Printer Model (1)



No.	Description	No.	Description
1	Interlock Switches	10	Bypass Paper End Sensor
2	Temperature & Humidity Sensor	11	Fusing Entrance Sensor
3	Paper Exit Full Sensor	12	Paper End Sensor
4	ITB Contact Switch	13	TM(ID) Sensor
5	TM(ID) Sensor	14	Waste Toner Bottle Set Switch
6	Waste Toner Bottle Full Sensor	15	Speaker
7	Paper Size Switch (3 pins)	16	Paper Exit Sensor
8	Registration Sensor	17	Discharge Lamp
9	Duplex Sensor	18	Toner End Sensor

## Printer Model (2)

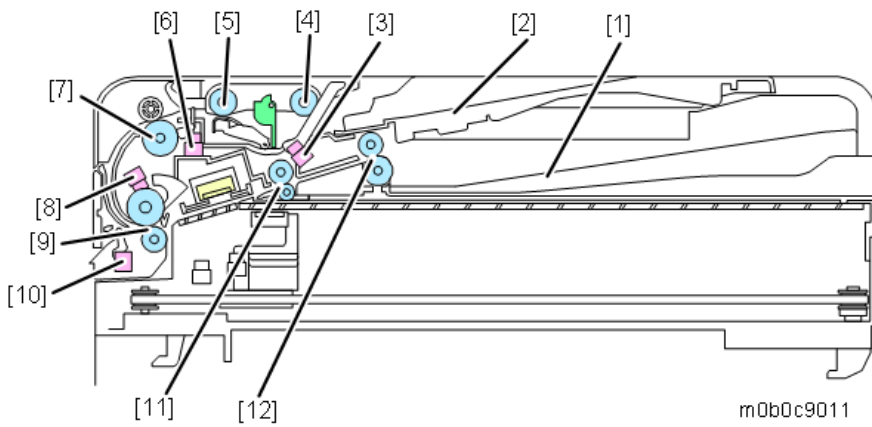


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No.	Description	No.	Description
1	PSU	8	HVP
2	Main Power Switch	9	Cooling Fan
3	NFC Board	10	PSU Fan
4	Speaker	11	Wireless LAN
5	OPRB (Operation Panel Relay Board)	12	CTL
6	Fusing Fan	13	EGB
7	New PCDU Detection Board	-	-

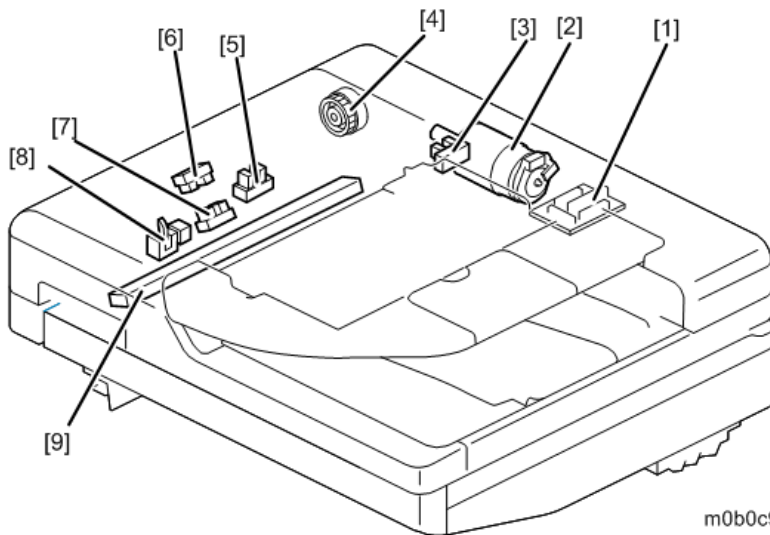
# SPDF

## Overview



m0b0c9011

No.	Name	No.	Name
1	Original Exit Tray	7	Pull-out Roller
2	Original Tray	8	Registration Sensor
3	Original Set Sensor	9	Pre-scanning Rollers
4	Pick-up Roller	10	ID Card Set Sensor
5	Feed Roller	11	Post-scanning Rollers
6	DF Feed Sensor	12	DF Exit Rollers



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No.	Name	No.	Name
1	SPDF Relay Board	6	Registration Sensor
2	DF Drive Motor	7	Original Set Sensor
3	DF Set Sensor	8	ID Card Set Sensor
4	DF Clutch	9	Original Rear Side CIS

No.	Name	No.	Name
5	DF Feed Sensor	-	-

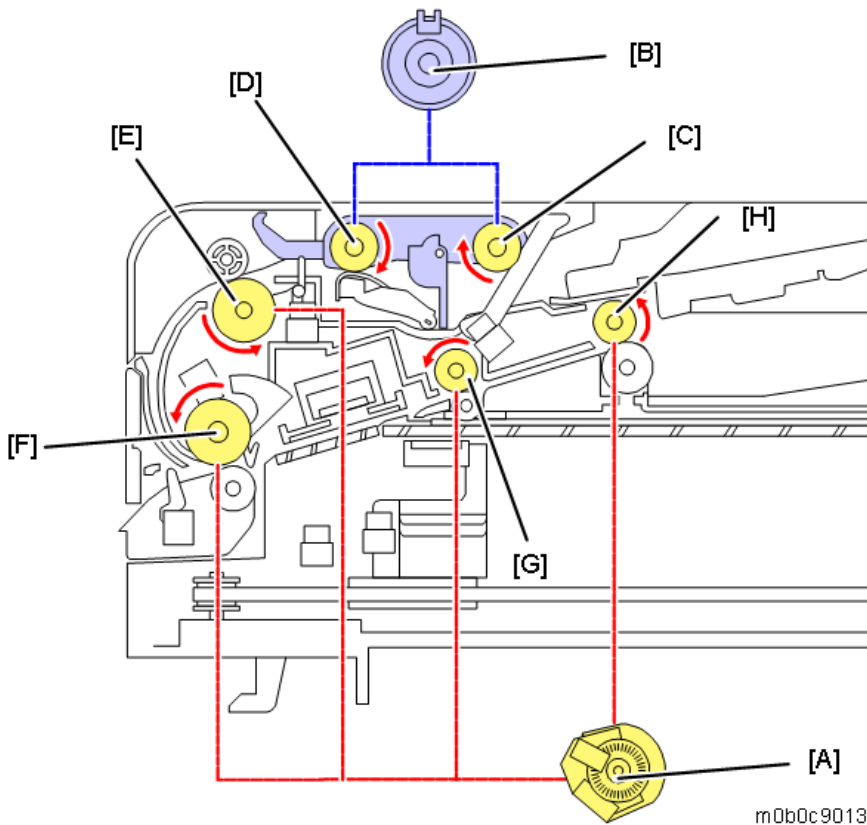
### Type/Construction

Item	Type/Construction	Note
Separation	Lowering of the pick-up roller, friction pad release type	Common (MP C307/C407(Gri-C3))
Scanning	Single-pass duplex scanning CIS for scanning the front side is integrated into the scanner carriage	
Drive	Driven by a DC motor and an electromagnetic clutch	
ID Card Feeder	The feeding of ID cards is made possible by the straight-through path.	

### Original Drive Mechanism

The DF drive motor [A] drives all rollers via gears

The feed roller clutch [B] controls the mechanism for picking up the original.



[C]: Pick-up roller



## 7.Detailed Descriptions

[D]: Feed roller

[E]: Pull-out roller

[F]: Pre-scanning Roller

[G]: Post-scanning Roller

[H]: DF Exit Rollers

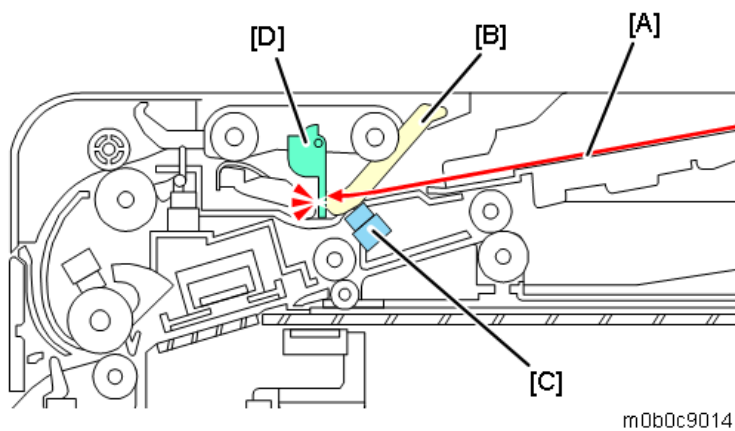
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### Original Set Detection Mechanism

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When an original [A] is placed on the original tray correctly, the original set sensor actuator [B] is pushed up and the original set sensor [C] turns off (not interrupted). The machine judges this state as the placement of an original.

The stopper [D] prevents the user from placing originals too far into the feeder.



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### Original Size Detection

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This machine does not have an original-size-detection mechanism, and feeds the original based on the original size specified in the User Tools menu. Accordingly, if the actual original size and the original size specified by the user do not match, it may cause a jam.

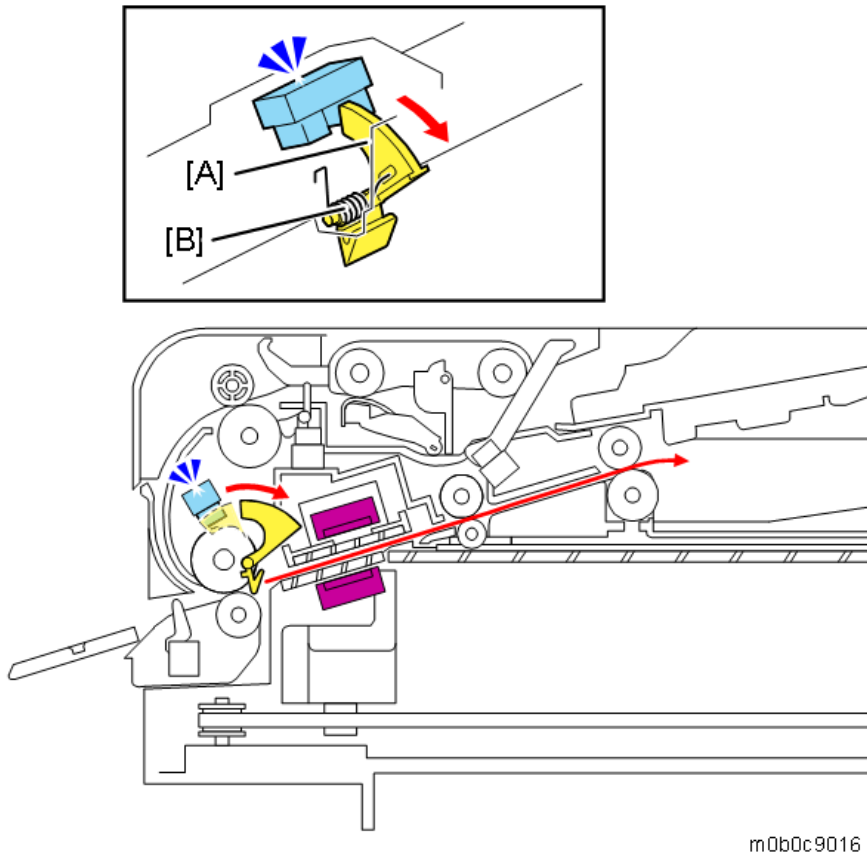
Also, as the precise size of the original cannot be detected, Mixed Sized Mode is not supported.

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### Registration

---

The registration sensor uses an actuator. The actuator [A] returns to its home position to turn the sensor off with a spring [B]. The time between the trailing edge of the original passing the actuator and the actuator returning to its default position varies, so a deviation in sub scan registration may occur. Even if it is within the permitted range from a specification viewpoint, because the deviation becomes larger with faster print speeds, there are some newly added SP settings to adjust the deviation of the sub scan registration for each print speed.

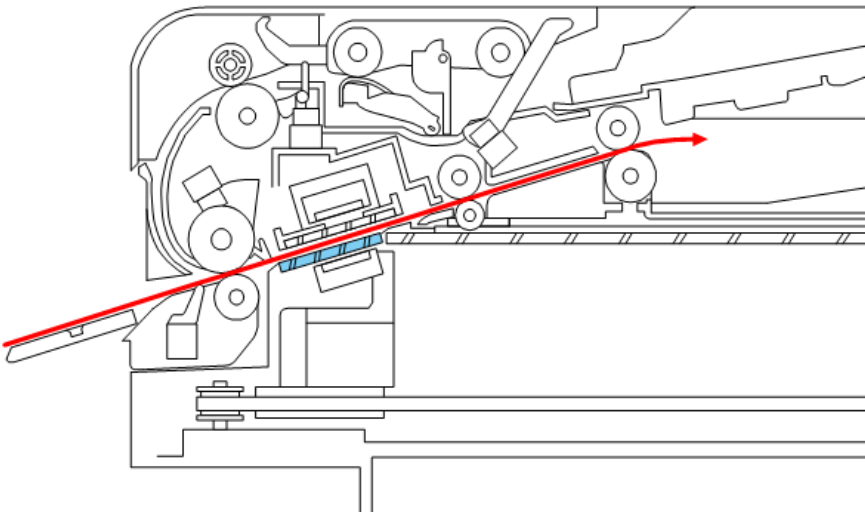



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### Straight-Through Path

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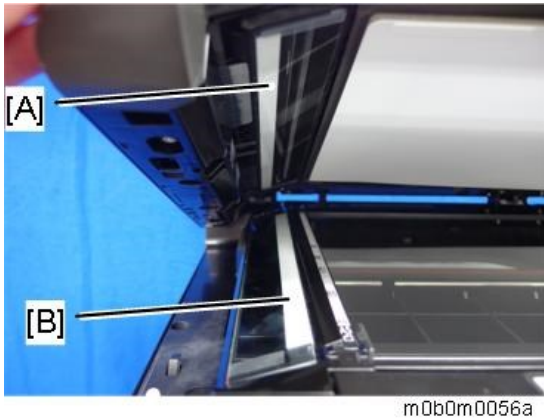
In this DF, there is a straight-through path from the ID Card Feeder, so duplex scanning is possible without ID cards bending.



In the straight-through path, the white guide plate for the front [A] is built into the original rear side CIS unit, and the white guide plate for the rear side [B] is attached on the sheet-through glass on the scanner unit.

The white guide plates are in an easily accessible location, so keep them clean.

## 7.Detailed Descriptions



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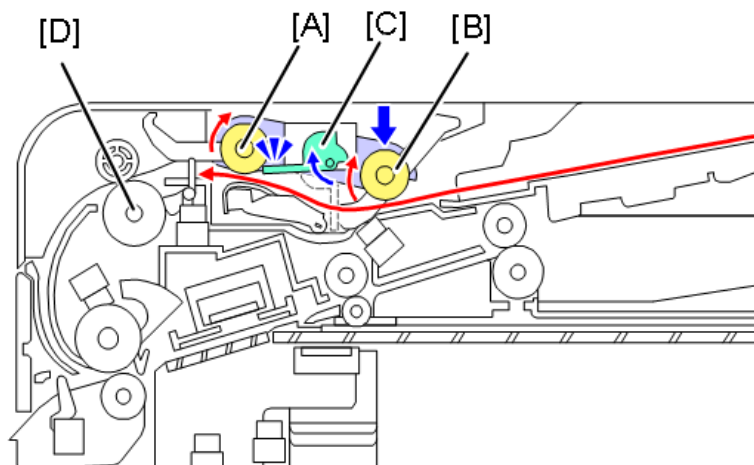
### Original Transport Mechanism (Document Feeder)

---

- 1.** The original is set face-up.
- 2.** When the [Start] key is pressed, the DF Feed Clutch turns on, and then the Feed Roller [A] rotates and the Pick-up Roller [B] lowers over the original. The stopper [C] withdraws, and the original is fed from the Feed Roller [A] to the Pull-out roller [D].

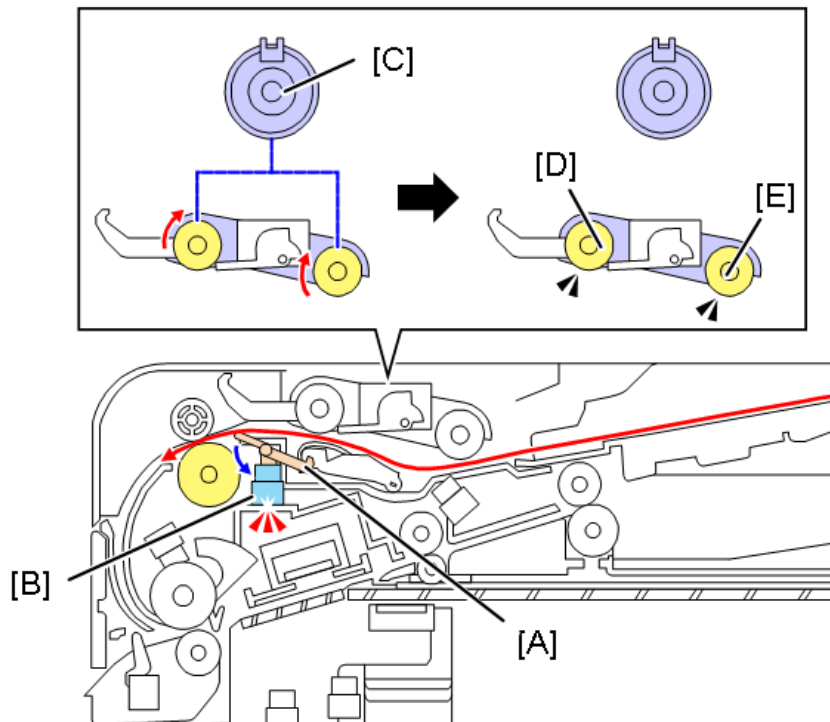
If multiple originals are set, double feeding is prevented by the DF Friction Pad, and only the original on top is fed to the Feed Roller. When the original is fed, the stopper [C] is released to allow the original to be fed.

If an error was triggered by the sensor in the feeding path due to the position of the original inside the machine, a jam will occur.



- 3.** When the original passes through the Feed Roller, it moves the feeler [A], and the DF Feed Sensor [B] turns on. To prevent the next original from being picked up, the DF Feed Clutch [C] turns off,

and the Feed Roller [D] and Pick-up Roller [E] stop.

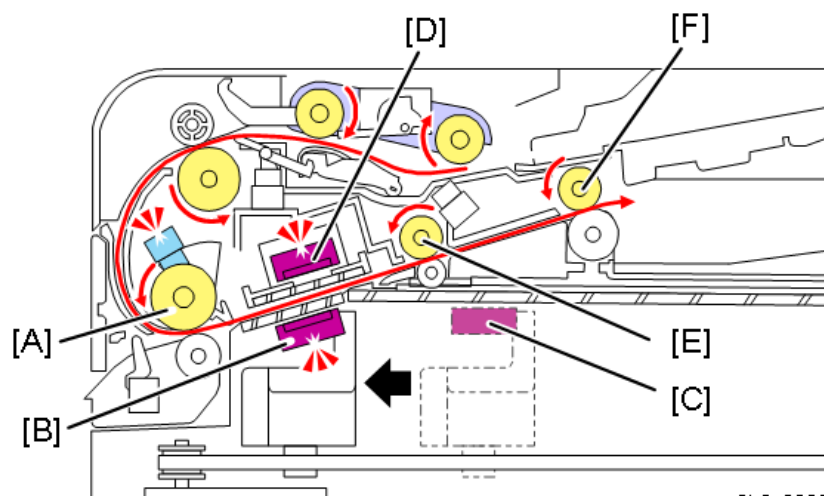


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- 4.** The original is fed by the Pre-scanning Roller [A], and is scanned via the Original Front Side CIS [B].

The carriage unit moves from the home position [C] to the DF scanning position, but as the Sheet-through Glass is installed at an angle, the carriage unit moves at an inclination along the glass surface.

- 5.** When copying both sides, the rear side is scanned via the Original Rear Side CIS [D] positioned directly after the Original Front Side CIS.
- 6.** The original is ejected from the Original exit tray by the Post-scanning Roller [E] and the DF Exit Roller [F].

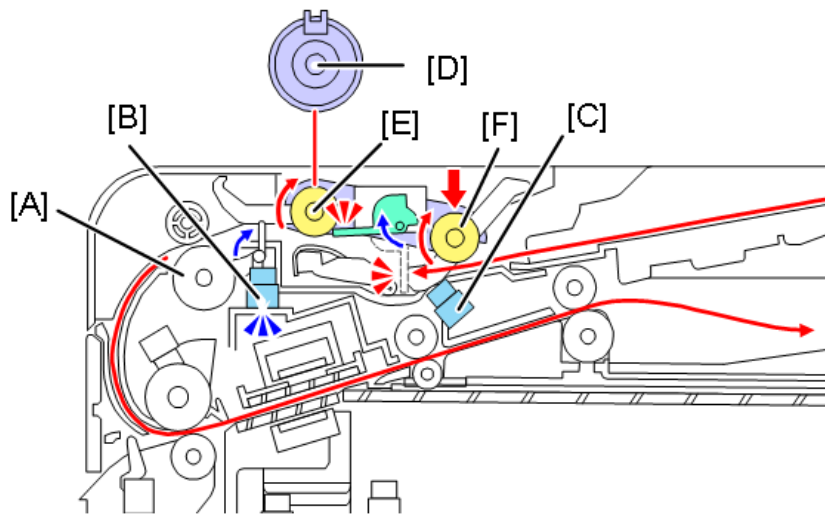


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- 7.** When the trailing edge of the original passes through the Pull-out Roller [A], the DF feed sensor [B]

## 7.Detailed Descriptions

is detected OFF. If the next original is set, the original set sensor [C] detects ON and the DF feed clutch [D] is turned ON. Then, the feed roller [E] and pick-up roller [F] rotate to pick up the next original.



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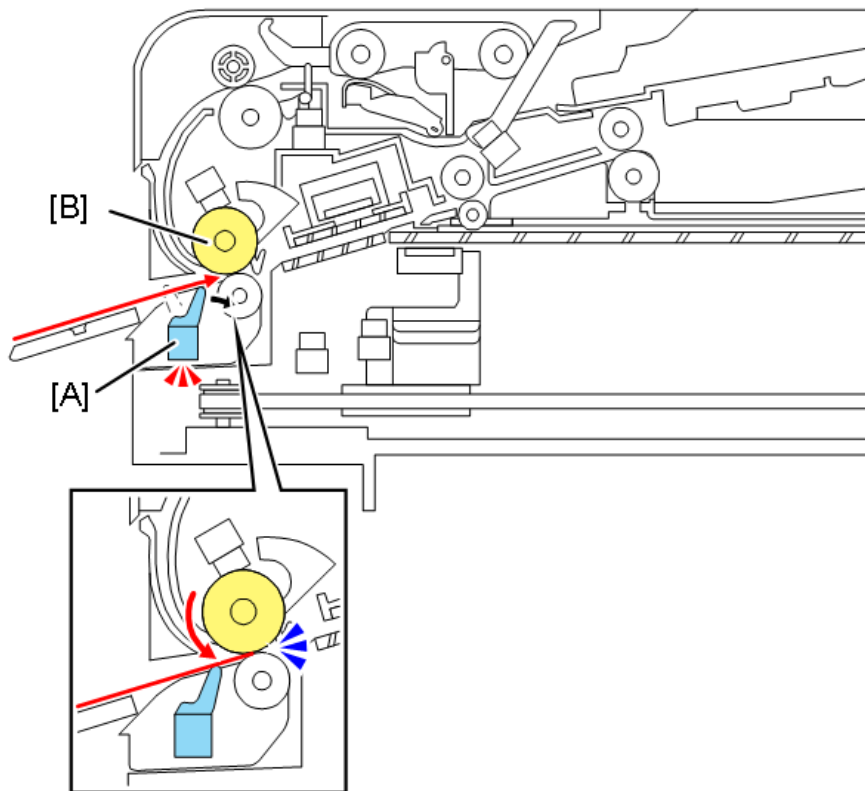
### Original Transport Mechanism (ID Card Feeder)

---

- 1.** The original is set face-down.
- 2.** When an original is set in the ID Card Feeder, the ID Card Set Sensor [A] is turned on by the actuator blocking the sensor, and then a pre-feeding operation is performed.

The pre-feeding time can be set in SP mode (6-020-001). If pre-feed cannot be performed with the ID Card Set Sensor on (for example, if the ADF is opened while a user has set an ID card, or the user holds the ID card intentionally and it cannot be fed), JAM001 occurs after approximately 4 seconds.

The leading edge of the original is aligned by feeding the original to the Pre-scanning Roller [B].

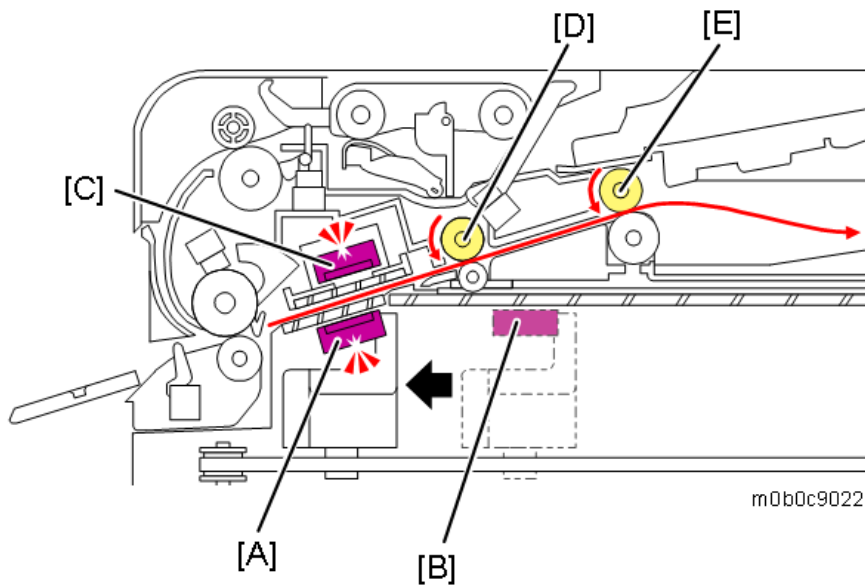


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- 3.** When the [Start] key is pressed, the original at the Pre-scanning Roller is sent to the straight-through path.  
There is no skew correction.
- 4.** The original is scanned by the Original Front Side CIS [A].  
The carriage unit moves from the home position [B] to the DF scanning position, but as the sheet-through glass is installed at an angle, the carriage unit moves at an inclination along the glass surface.
- 5.** When copying both sides, the rear of the original is scanned by the Original Rear Side CIS [C] positioned directly after the Original Front Side CIS.
- 6.** The original is ejected from the original exit tray by the Post-scanning Roller [D] and the DF Exit

## 7.Detailed Descriptions

Roller [E]



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### Scanner and DF Opening Method

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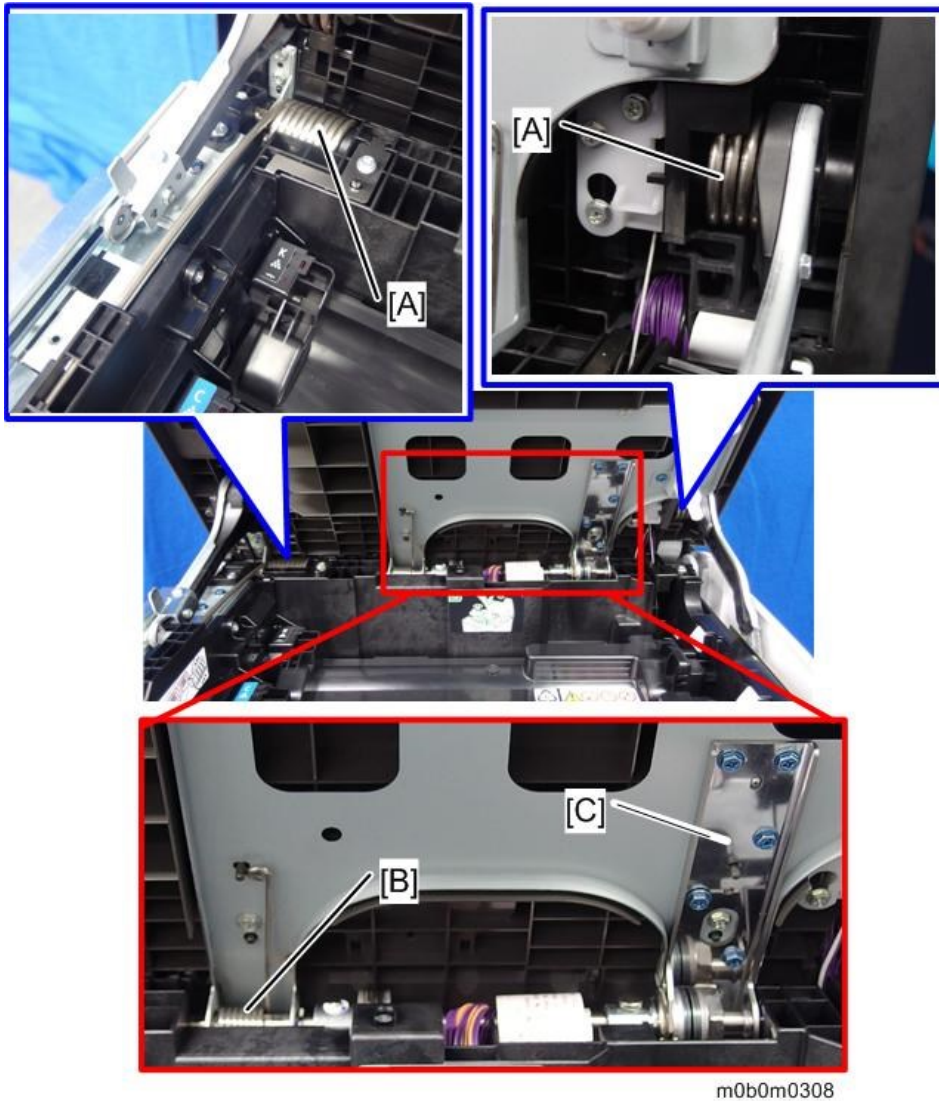
The mechanism that controls the simultaneous opening of the scanner (top cover) and the DF prevents the DF from falling.

When opening the top cover, the DF locks and does not open.

When closing the DF, the lock of the opening and closing lever on the top cover unlocks.

The top cover will open slowly when it reaches a 90 degree angle due to the brakes [A], the spring [B], and the hinge brake [C].





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## New SPs

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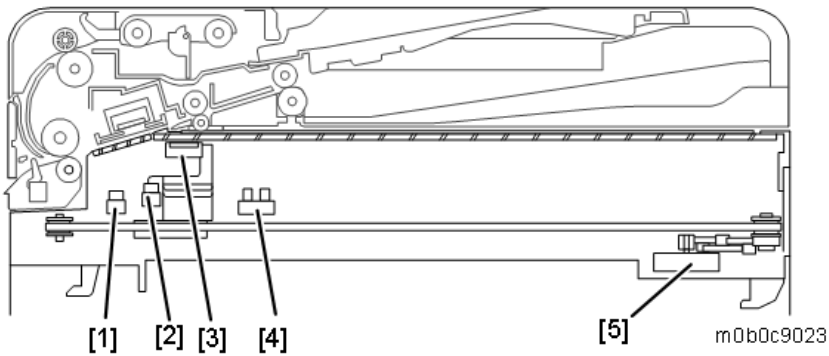
- SP6-006-003, 004  
Adjusts the main-scan registration of the front and rear sides when scanning with the ID Card Feeder.  
This can be specified within the range of -2.0 to +2.0, but make sure to set it within the range of -1.5 to +1.5. Exceeding this range may cause black banding to appear.
- SP6-006-012, 013  
Adjusts the sub-scan registration of the front and rear sides when scanning with the ID Card Feeder.
- SP6-006-016 to 020  
For details, see "[Registration](#)".
- SP6-011-017  
Input check for the ID Card Set Sensor.

## 7.Detailed Descriptions

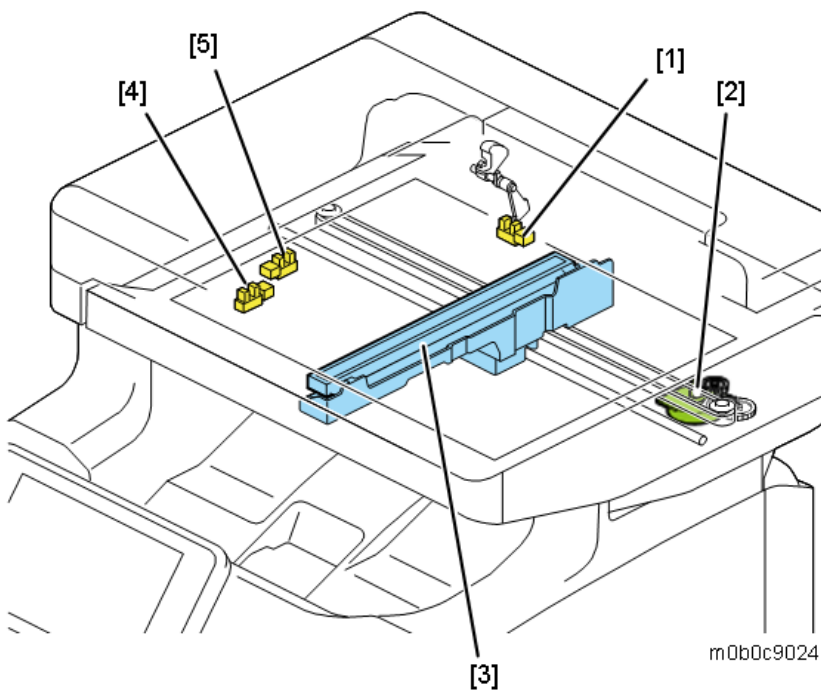
- SP6-020-001  
Adjust the start time of the Document Feeder pre-feed.  
The ON/OFF settings for pre-feed are set in user tools and not SP.
- SP6-021-001  
Displays the counter for design evaluation. It is for checking the ID Card Feeder usage rate, etc.  
Service engineers do not use this.

# Scanner

## Overview



1	DF Scanning Position Sensor	4	DF Set Sensor
2	Scanner HP Sensor	5	Scanner Motor
3	Original Front Side CIS		



1	DF Set Sensor	4	Scanner HP Sensor
2	Scanner Motor	5	DF Scanning Position Sensor
3	Carriage Unit		

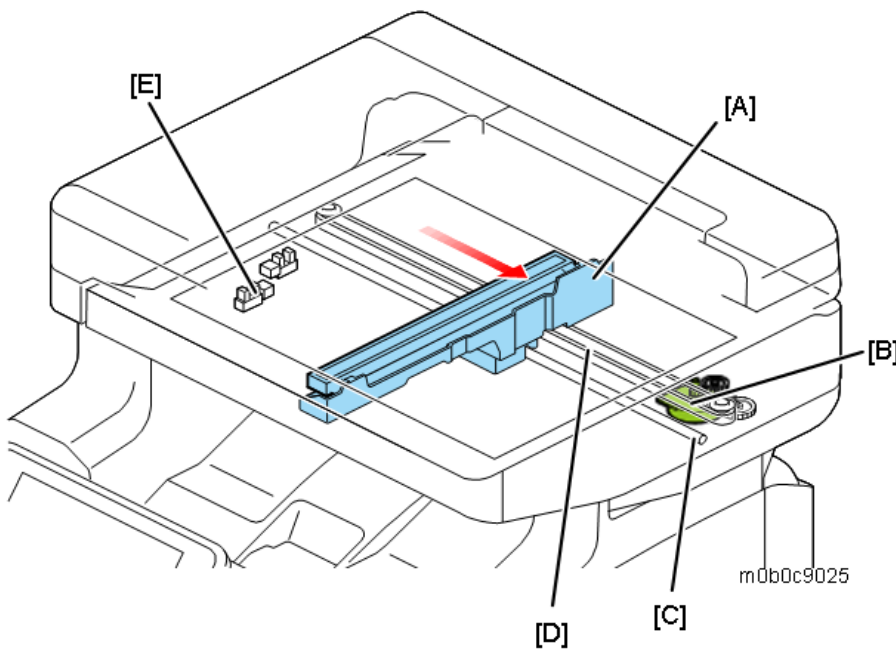
Type/Construction

Item	Type/construction	Note
Scanning	CIS integrated into the carriage	
Thickness of Exposure Glass	Flatbed glass: 2.8mm DF scanner glass: 1.9mm	
Drive	Belt drive driven by a stepper motor	

Scanner Carriage Drive

The scanner motor [B] drives the drive belt [D] in order to move the scanner carriage [A] along the guide rod [C].

Scanning starts with the scanner carriage [A] at the scanner HP sensor [E]. After scanning, the scanner carriage returns to the scanner HP sensor. The actuator for the scanner HP sensor is on the underside of the carriage.



**When you wish to move the carriage, use the drive belt. Do not pull the carriage directly.**

Light Source

This machine uses a CIS (contact image sensor: A4 CIS × 2/front: × 1 and rear: × 1).

When scanning a document using the ADF, the document moves. When scanning a document using the flatbed, the document is fixed and the CIS carriage moves.

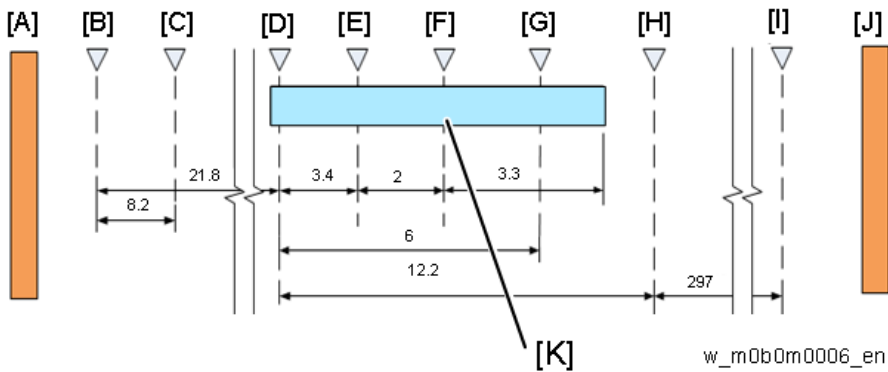
The effective scanning width of the CIS is 219 mm, and the scanning resolution is 600 dpi. The sensor of the CIS is made up of 12 chips in a straight line (in-line system). To increase the processing speed, the 12 sensor chips are grouped into sets of 4 and are input parallel to a circuit that has 3 input channels. The 4 sensor chips in each channel will receive inputs as a series .

An LED is the light source of the CIS.

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## Scanning Position

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- [A]: Left frame
- [B]: DF scanning position
- [C]: DF position sensor
- [D]: Scanner home position
- [E]: Shading start position
- [F]: Shading end position
- [G]: Scanner HP sensor
- [H]: Start scanning position
- [I]: Max. scanning position
- [J]: Right frame
- [K]: Shading sheet

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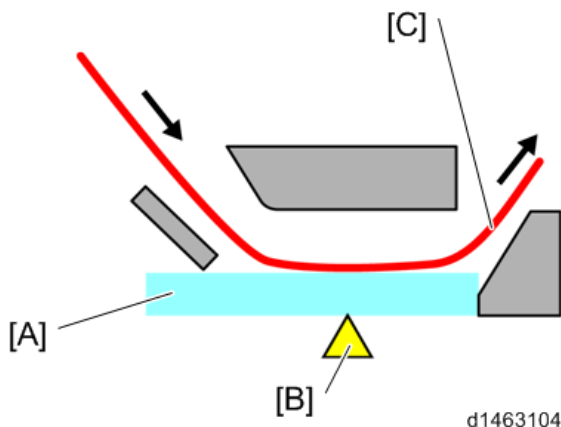
## Improved Tolerance to Black Lines When Paper Passes through DF

---

This model uses a conventional mechanism in which paper comes in contact with the exposure glass during feeding. This is useful for dealing with adhesion of free dirt particles (paper scraps, etc.), as a self-cleaning mechanism using the paper.

On the other hand, sticky dirt adhering to the document sticks to the exposure glass, and may cause black lines in scanned images.

### DF cross-section diagram



- [A]: Sheet-through glass

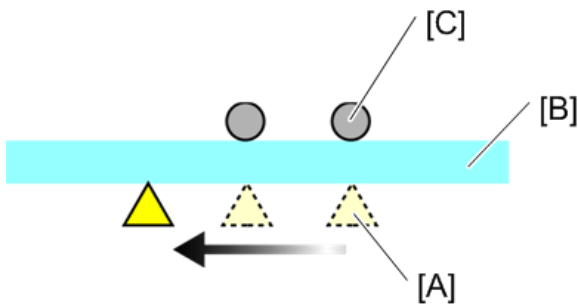
## 7.Detailed Descriptions

[B]: Reading position

[C]: Original feed path

By changing SP4-020-001 (Dust Check > Dust Detect:On/Off), when dirt is detected at the reading position, the reading position may be changed to avoid the dirt.

If it cannot be avoided, an alert is displayed on the operation panel advising the user to clean the exposure glass.



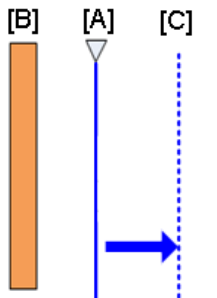
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[A]: Reading position

[B]: Exposure glass

[C]: Dirt

In this machine, the LED is moved to the right:



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[A]: Initial reading position

[B]: Left frame

[C]: New reading position

### Note

Dirt is detected when a document passes through, so the alert will not disappear until reading of the next document begins, even after exposure glass cleaning is performed.

- If the detected dirt is not on the exposure glass but on the background guide plate, the alert will not disappear even if the glass is wiped.
- The time required for the first copy is slightly (almost imperceptibly) longer.
- The detection threshold can be changed using SP4-020-002 (Dust Check > Dust Detect:Lvl). (The larger the value is, the smaller the dirt particles that can be detected.)
- Do not change the setting of SP4-020-003 (Dust Check > Dust Reject:Lvl).

---

## New SPs

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- SP4-802-001  
The carriage travels back and forth between the home position of the scanner carriage and the DF scanning position.  
This SP was newly added for the scanner because the scanning position differs between the flat-bed and the DF.
- SP5-803-202  
Input check for the DF Scanning Position Sensor, which detects the position of the scanner carriage.
- SP7-961-002  
Counter for the DF Scanning Position Sensor.



## LED Unit

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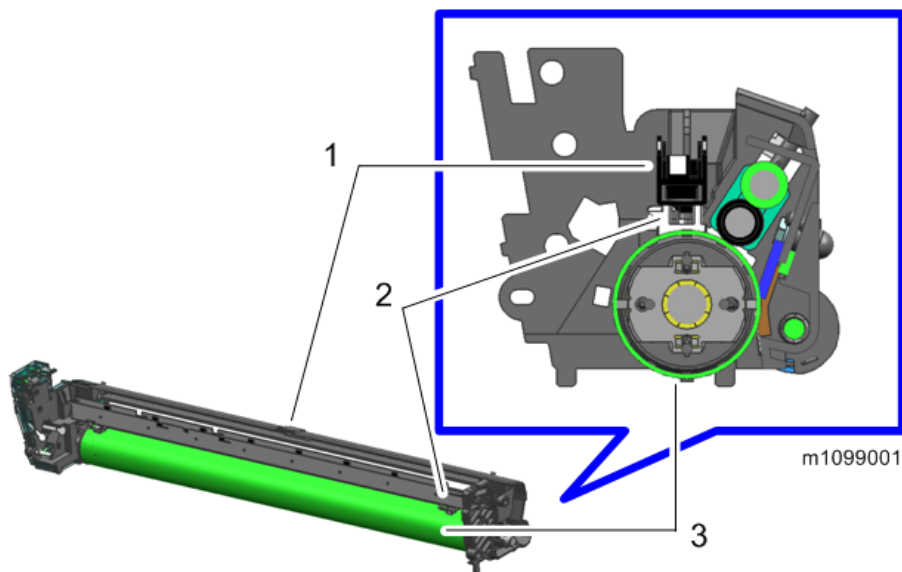
### General Descriptions

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LED writing is superior to LD writing in unit-downsizing, noise reduction, and energy saving.

Four LED heads are installed on the inner cover and each PCDU is set in a specified location automatically when the inner cover closes. There is no distinction between the LED heads for black and for the other colors.

The writing process uses only the LED head, but the focus distance adjustment is performed by the LED head contacting the LED spacer which is on the drum.



1. LED Head
2. LED Spacer
3. OPC

#### ↓ Note

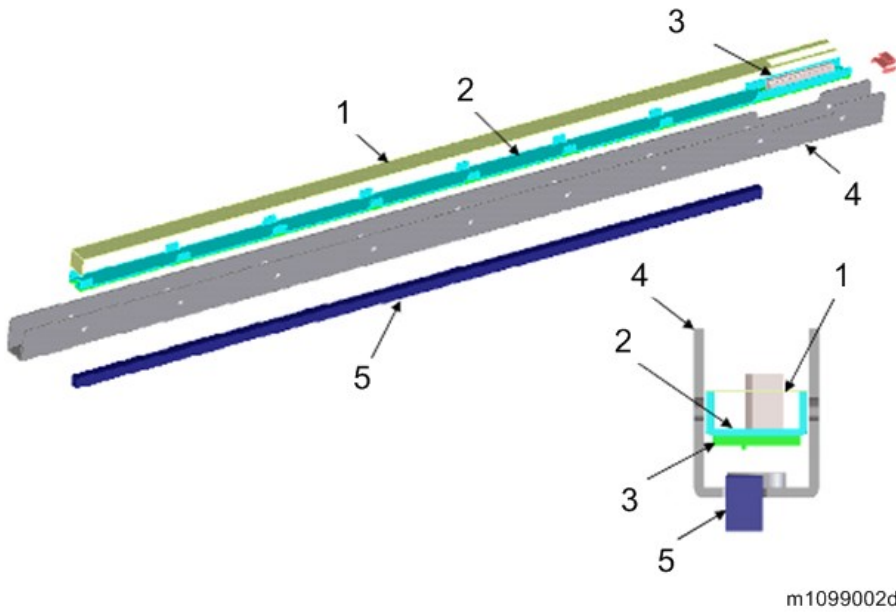
- All LED heads use the same parts, so you can swap them with one another for troubleshooting purposes.
- The LED spacer contacts the drum, so the drum wears out gradually as it rotates. If a worn PCDU (out of lifetime) is used, its focus gradually becomes blurred.

---

### LED Head Components

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The LED head is composed of the following parts. You cannot replace each part individually; you must replace the LED head as a complete unit.

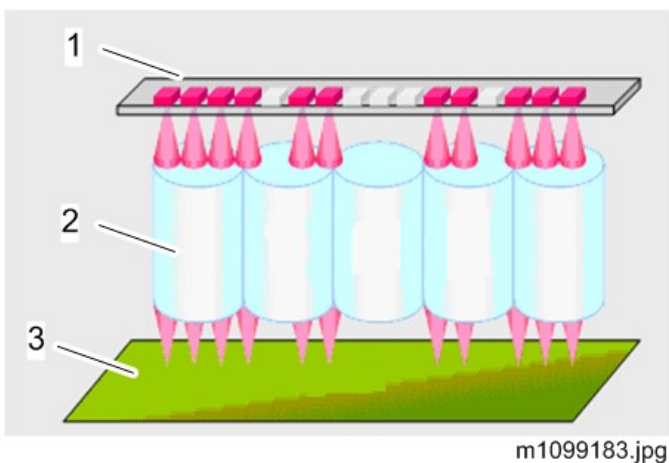


1. **Sheet**
2. **Base**
3. **LED Board**
4. **Frame**
5. **SLA (SELFOC LENS ARRAY)**

## Mechanisms

### Writing Method

The LED head contains a one-dimensional array of tiny LEDs that is able to write in 1200 dpi. The emitted light is focused by the SLA (SELFOC LENS ARRAY) for writing the latent image on the drum.



1. **LED Board**
2. **SLA (SELFOC LENS ARRAY)**
3. **OPC**

## 7.Detailed Descriptions

### LED Head

---

One LED head has 26 LED chips. Each chip contains 8mm light-emitting elements.

#### ↓ Note

- If a vertical line 8mm in width appears on the image parallel to the direction of paper feed, it may be caused by a broken LED chip.

### LED Positioning

The LED head contacts the spacer on the drum in order to hold the correct distance (focal length) from the PCDU (it is adjustable using a slide-movement method).

#### ↓ Note

- The LED spacer contacts the drum, so the drum wears out gradually as it rotates. If a worn PCDU (out of lifetime) is used, its focus gradually becomes blurred.

### Image Position Adjustment

You can adjust the printing position from each tray with [Registration] in the Menu. At this time, the machine adjusts the following:

- Horizontal Scan: Adjusted by moving the whole image position.
- Vertical Scan: Adjusted by changing the light-emission timing.

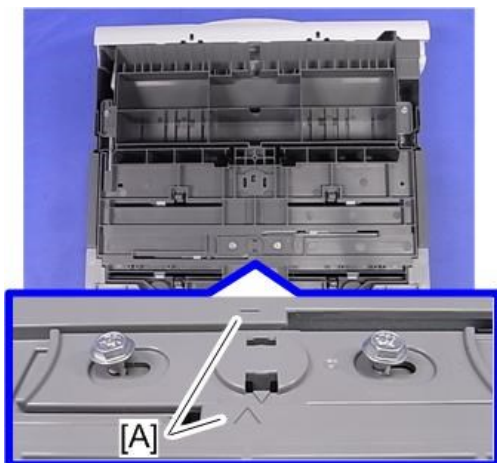
#### ↓ Note

- There is no mechanical adjustment, unlike LD writing.
- Writing applies to the extent of the LED head in the horizontal direction. So, if you want to adjust the printing position outside the setting range in [Registration], adjust the paper position in the feed tray.

In paper position adjustment in the feed tray, you can adjust horizontal registration by loosening the screws on the bottom of the tray, and then moving the holder to right or left (up to 2mm).

#### ↓ Note

- When in the default ( $\pm 0$ ) position, the holder position is at the triangle marked area [A] in the picture below.



m1099180.jpg

### **LED Light Volume Adjustment**

An EEPROM on the LED head contains data which controls the light intensity of each element. There is no adjustment.

### **Adjustment at Replacement**

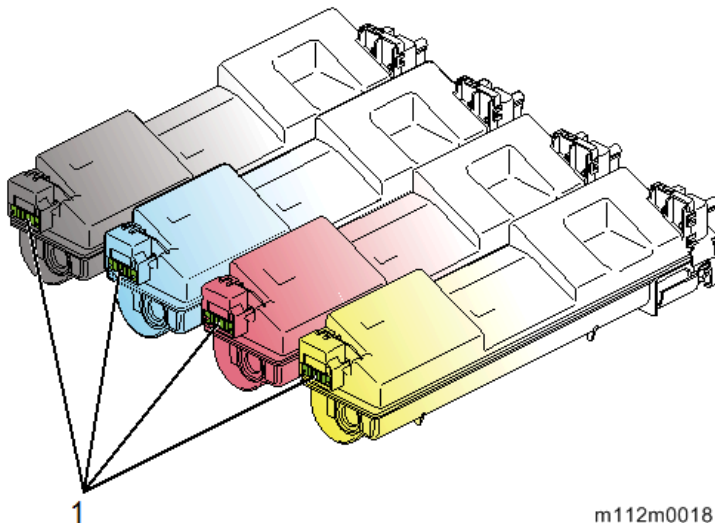
Adjustment at LED head replacement is not needed due to the EEPROM on the LED board. This ROM contains light volume adjustment data.

## Toner Cartridge, PCDU (Photo Conductor Development Unit)

### Overview

#### Toner Cartridge

- Each Toner Cartridge contains the toner bottle and toner supply mechanisms.
- Projections on the right side of the toner cartridge ensure each cartridge is always inserted into the correct position. The Toner Cartridges are arranged in order of Y, M, C, and K as viewed from the front of the machine.
- The Shutter of each Toner Cartridge has a dual protection mechanism: mechanical and software. The Shutter of each Toner Cartridge is operated by the Toner Supply Solenoid.
- Each Toner Cartridge has an ID chip (memory chip) that contains information such as product information and the number of prints.



1. ID chip

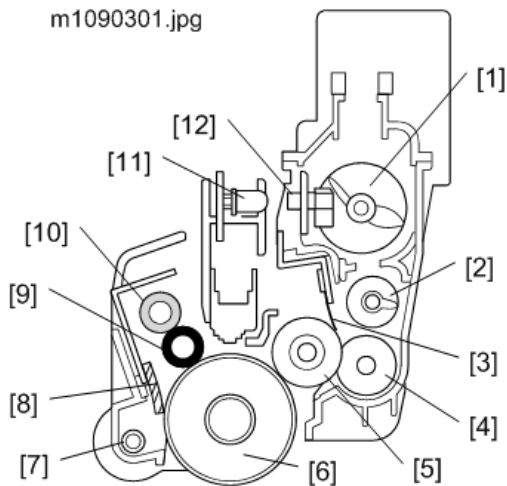
#### ID chip information

ID chip information can be checked when in SP mode.

SP No.	Item
SP7-931	Toner Bottle Bk
SP7-932	Toner Bottle C
SP7-933	Toner Bottle M
SP7-934	Toner Bottle Y

#### PCDU

The PCDU section consists of four mechanisms: charge, photoconduction, development, and cleaning.



1. Upper Mixing Coil
2. Lower Mixing Coils
3. Development Blade
4. Toner Supply Roller
5. Development Roller
6. OPC
7. Waste Toner Collection Coil
8. OPC Cleaning Blade
9. Charge Roller
10. Charge Roller Cleaner
11. Toner End Sensor
12. Toner End Detection Window

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## Mechanism

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### Toner Cartridge

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#### **Toner Supply**

The toner supply clutch turns ON and a coil in the toner cartridge rotates to transfer toner to the bottle tap and then the PCDU. Toner which falls into the PCDU is transferred to the development section by the upper mixing coil.

#### **New Unit Detection**

The machine reads the ID chip to detect the status of the cartridge.

#### **Toner Near End (TNE) / Toner End (TE) Detection**

The TE sensor is mounted on the LED unit. It monitors toner supply through the detection window. TNE is detected when the TE sensor on the LED unit detects non-supply of toner after the toner supply count by the software has exceeded the specified amount.

When TNE is detected, TNE information is written to the ID chip. TE information is written to the chip

## 7.Detailed Descriptions

when the TE sensor detects TE. (TE is detected after a certain number of prints is made after TNE occurs; see below.)

### ↓ Note

- SC332 is detected when the TE sensor on the LED unit detects non-supply of toner before by toner supply count by the software exceeds the specified amount.

### The number of prints that can be made after toner near end (Rough indication)

Normal (Before 5 days): 475 pages

Notify Later (Before 3 days): 285 pages

Notify Sooner (Before 7 days): 665 pages

Users can set “Normal/ Notify Sooner/ Notify Later”. The default is “Normal”.

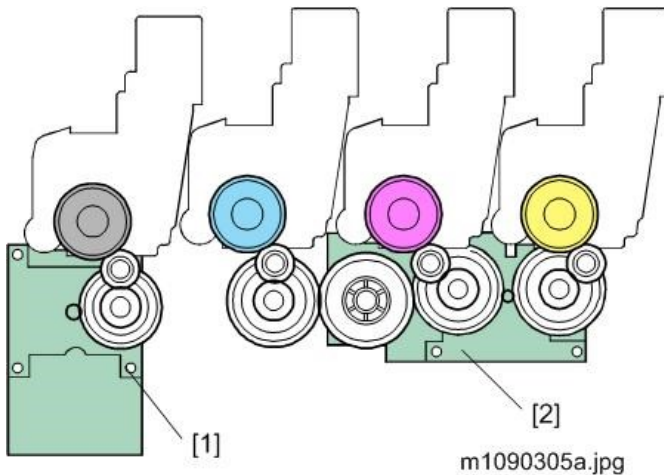
The number of prints is a reference value for the following conditions: “A4, SEF, Color ratio 50%, Each color 5% on the original, Serial printing”. The actual amount (replacement cycle) fluctuates due to conditions such as: “paper size, paper type, page orientation, contents of original, P/J, and the number of times that process control and MUSIC are done”.

## PCDU

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### Drive

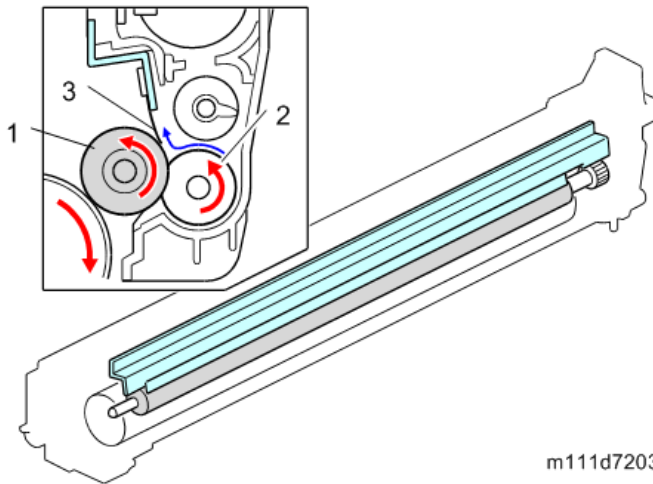
The PCDUs are driven by the black imaging motor [1], and the color imaging motor [2].



### Development

The development mechanism contains the development roller [1], the toner supply roller [2], and the development blade. The toner supply roller [2] provides the development roller [1] with toner. The electrostatic latent image on the surface of the PCDU takes on toner and turns into a visible toner image. The development blade [3] keeps the toner attached on the development roller [1] flat.





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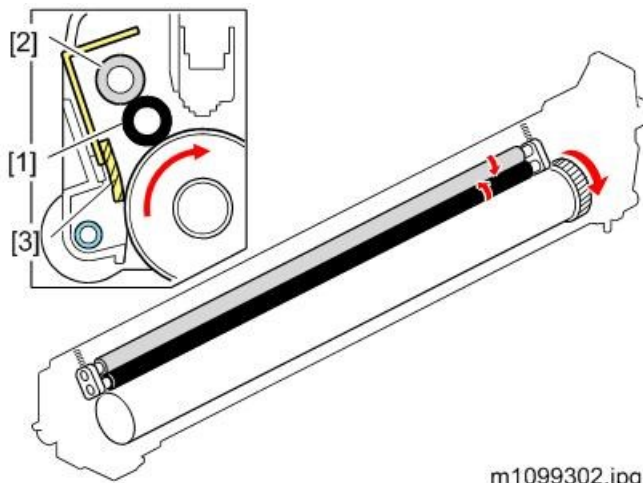
#### ↓ Note

- There is an idler gear between the drive gears of the development roller and toner supply roller to make them rotate in the same direction.

### Charge, Charge Roller Cleaning, OPC Cleaning

This machine uses a charge roller [1]. The charge roller gives the drum surface a negative charge. The high voltage supply board, which is at the left side of the machine, applies dc and ac voltage (at a constant current) to the roller. The ac voltage helps to make sure that the charge given to the drum is as constant as possible.

The machine automatically controls the charge roller voltage when process control is done. The charge roller cleaner [2] always touches the charge roller, and cleans the charge roller. The OPC cleaning blade [3] removes the waste toner on the OPC.

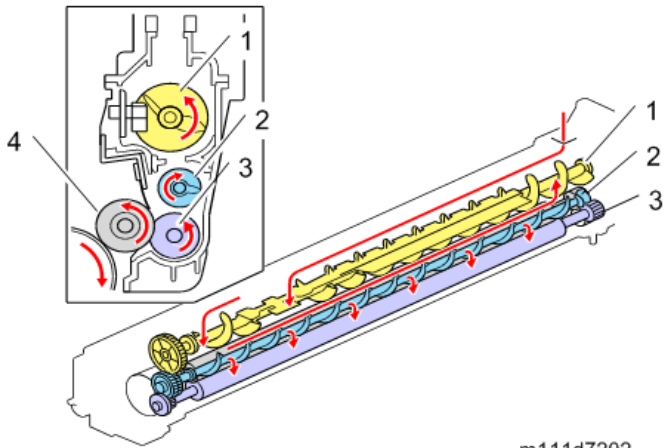


m1099302.jpg

### Toner Mixing

The toner moves as shown in the following drawing. The upper mixing coil [1] moves the toner to the left side. The lower mixing coil [2] moves toner to the right side. Finally, the toner supply roller [3] supplies toner to the development roller [4].

## 7.Detailed Descriptions



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### Note

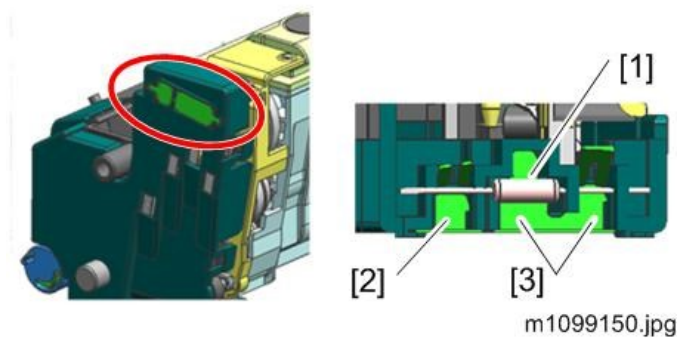
- There is an idler gear between the drive gears of the development roller and toner supply roller to make them rotate in the same direction.

### Waste toner

Toner waste within each PCDU is collected by the waste toner collection coil and sent down to the waste toner bottle.

### New PCDU detection, and Set detection

A terminal mounted on the side of the cover detects when a new PCDU is inserted. If a new PCDU comes into contact with the three-point terminal, a fuse is opened, and the machine detects the new PCDU.



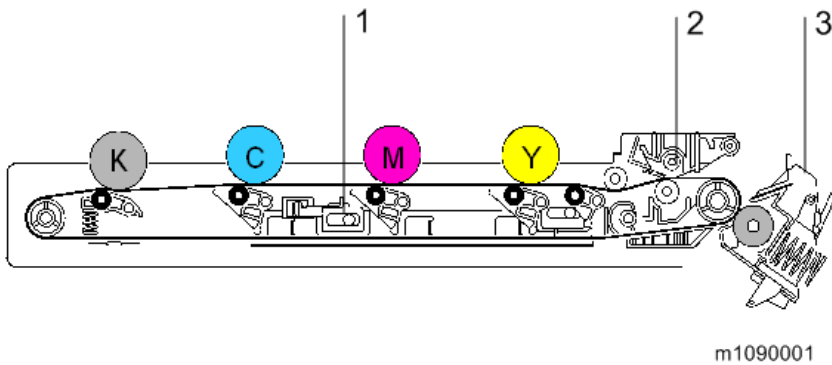
m1099150.jpg

1. Fuse Resistance
2. New PCDU Detection
3. PCDU Set Detection and New PCDU Detection

## Image Transfer

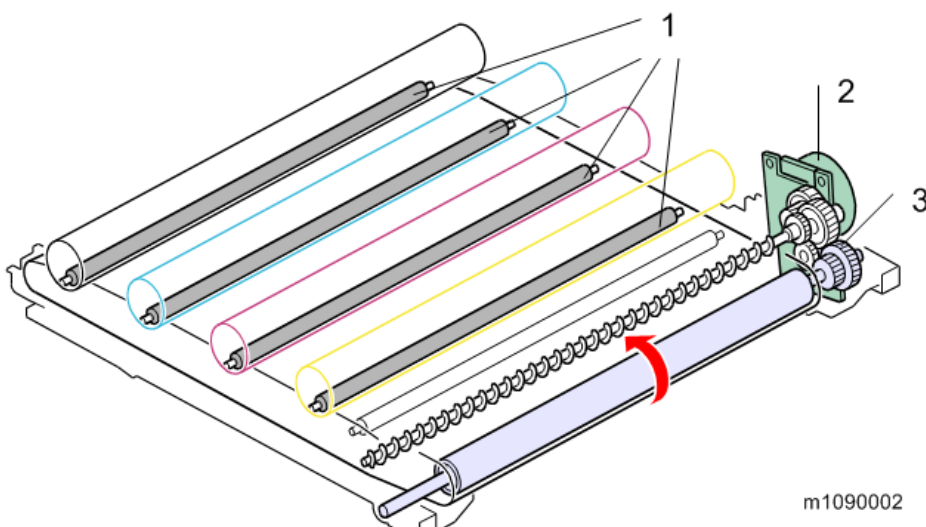
### Overview

The transfer section consists of three units: the Image Transfer Unit, the Image Transfer Belt Cleaning Unit, and the Transport Unit.



1. Image Transfer Unit
2. Image Transfer Belt Cleaning Unit
3. Transport Unit

### Image Transfer Belt Unit

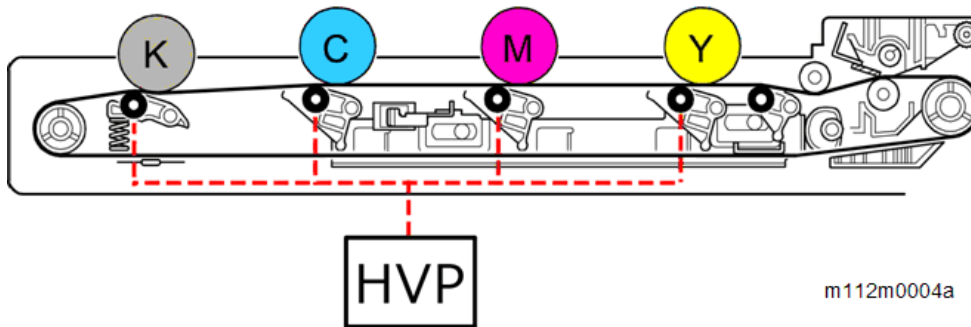


1. Image Transfer Belt Rollers
2. ITB/Transport Motor
3. ITB Drive Roller

### Drive and Transfer Belt Roller Bias

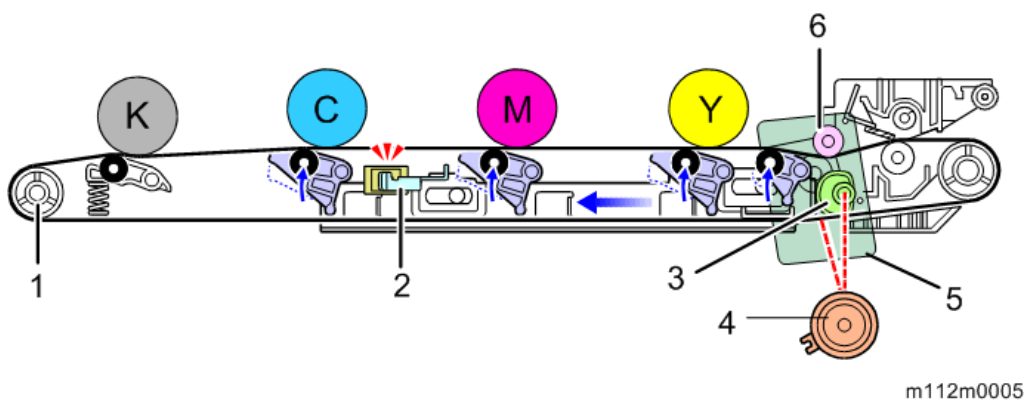
The ITB/Transport Motor drives the ITB Drive Roller via a gear to drive the Image Transfer Belt. The same bias is applied to the Image Transfer Belt Roller for each color from a single HVP.

## 7.Detailed Descriptions



### Transfer Belt Contact

The Transfer Belt Contact Clutch turns on to transfer the drive from the ITB/Transport Motor to the Contact Cam. The contact cam raises and lowers the Image Transfer Belt Rollers to move the Image Transfer Belt into contact and away from the color PCDUs. The color OPC drums (cyan, magenta and yellow) do not contact the Image Transfer Belt when the machine makes a black and white print.. Regardless of whether the color OPC drums are contacting the Image Transfer Belt or not, the tension roller maintains the tension of the belt.

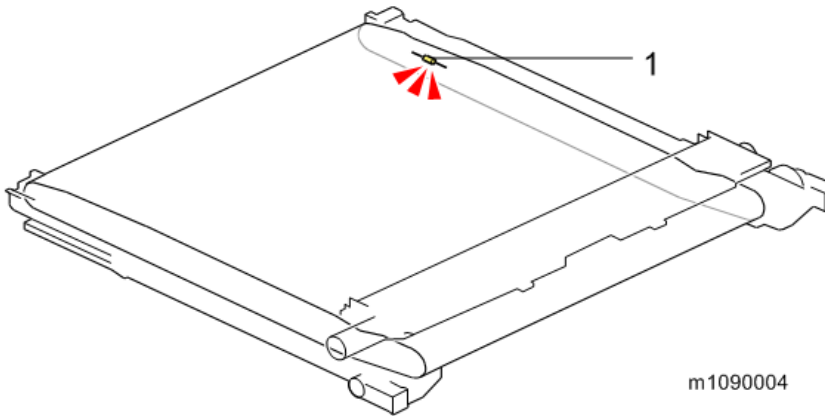


1. Tension Roller
2. Transfer Belt Contact Sensor
3. Contact Cam
4. Transfer Belt Contact Clutch
5. ITB/Transport Motor
6. Belt Guide Roller

### New ITB Unit Detection

The machine checks for replacement detection at the following three times:

- Turning on the main power
- Returning from sleep mode
- Closing the Front Cover or Upper Cover



### 1. Fuse

#### ↓ Note

- The fuse for the new unit detection is only fitted with supplies replaced by the user. The service parts do not have a fuse and require counter reset.

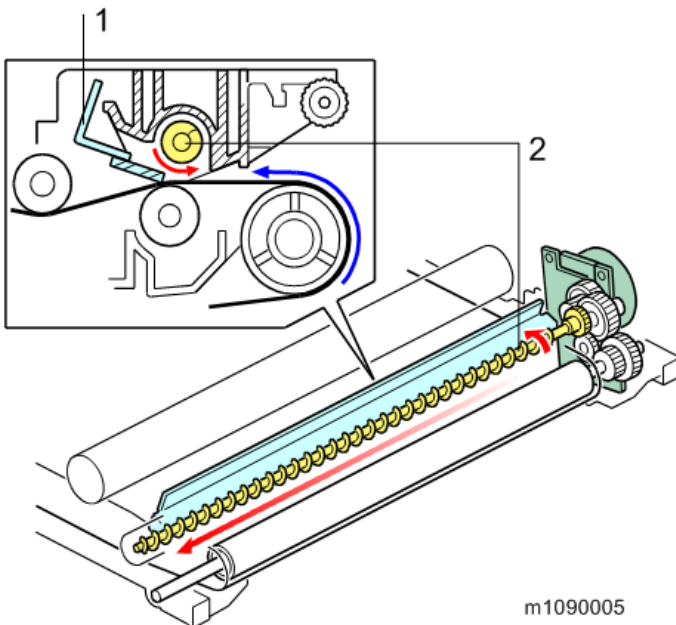
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## Image Transfer Belt Cleaning

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### Overview

The Image Transfer Belt is cleaned by the transfer cleaning blade. Any remaining toner that is scraped off is conveyed to the left side of the unit via the waste toner transport coil.



1. Image Transfer Belt Cleaning Blade
2. Waste Toner Transport Coil

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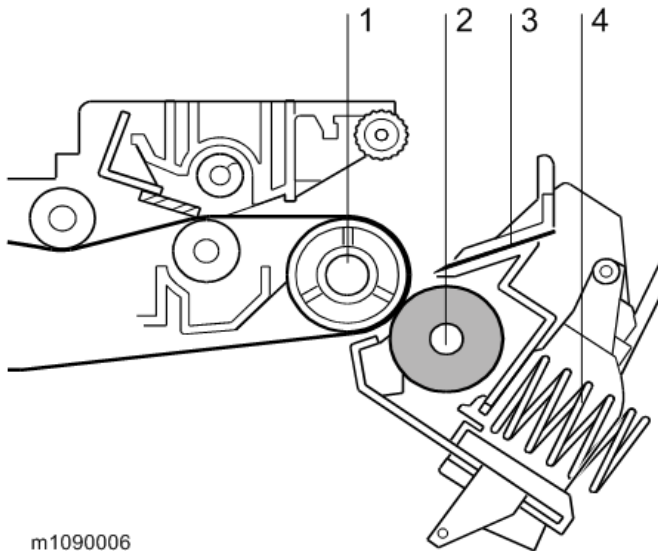
### Transfer Roller

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#### Overview

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The image is transferred from the Image Transfer Belt to the paper by applying a bias to the paper transfer roller.



1. Transfer Belt Drive Roller
2. Paper Transfer Roller
3. Discharge Plate
4. Transfer Pressure Spring

#### Drive

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The paper transfer roller rotates in conjunction with the Transfer Belt Drive Roller, which is its drive source.

#### Power

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The paper transfer roller is charged by the HVP (high voltage power supply).

#### Separation and Transport

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##### **Transfer Roller**

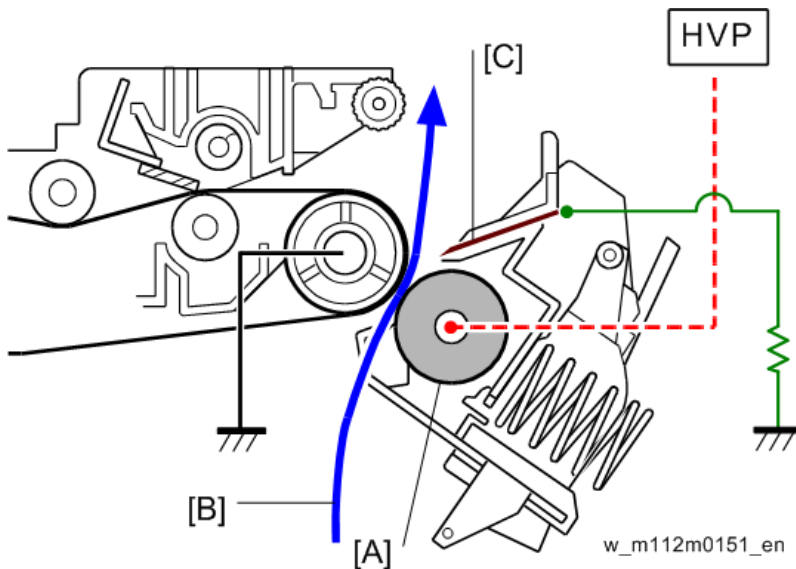
The paper transfer roller [A] is always pressed against the image transfer belt by pressure from the transfer pressure spring. The paper transfer roller moves the toner image from the transfer belt to the paper. When the transfer belt rotates, the paper transfer roller also rotates.

##### **Paper Transfer Bias**

The high voltage power supply (HVP) supplies electricity to the transfer roller. The transfer roller is positively charged.

## Discharge Plate

The transfer unit has a discharge plate [C] above the paper transfer roller. The discharge plate removes charge that was applied to the paper during paper transfer. This helps paper move away from the paper transfer roller. The discharge plate [C] is grounded via a resistor.



## Paper Transfer Roller Cleaning

Toner may transfer to the paper transfer roller surface following a paper jam or if the paper is smaller than the image. Periodic cleaning of the paper transfer roller is required to prevent this toner from migrating back to the rear of new printouts.

The machine cleans the paper transfer roller at the following times:

- After initial power on.
- After clearing of a copy jam

The PSU first supplies a negative cleaning current (about  $-4 \mu\text{A}$ ) to the paper transfer roller, causing negatively charged toner on the paper transfer roller to move back to the image transfer belt. It then applies a positive cleaning current ( $+5 \mu\text{A}$ ) to the paper transfer roller, causing any positively charged toner to migrate back to the image transfer belt.



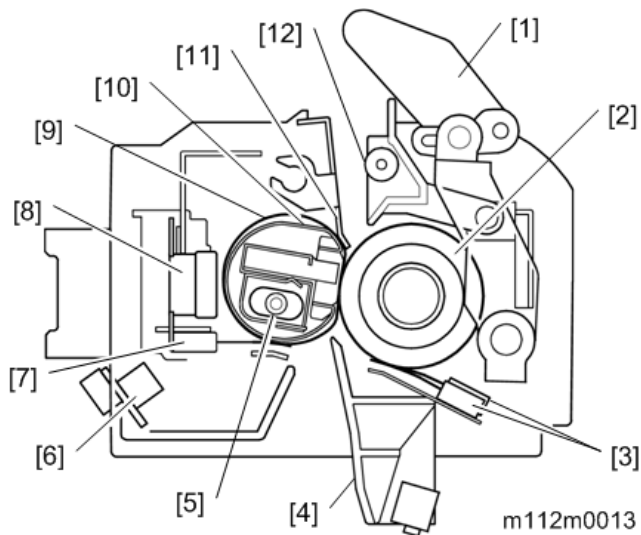
## Fusing

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### General Description

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A Color QSU (Quick Start Up) fusing method is adopted in this machine, in which a fusing belt is heated by a fusing lamps in a heating pipe. This method contributes to energy saving and compatibility with a wide range of various paper types. The larger nip band reduces image blurring.

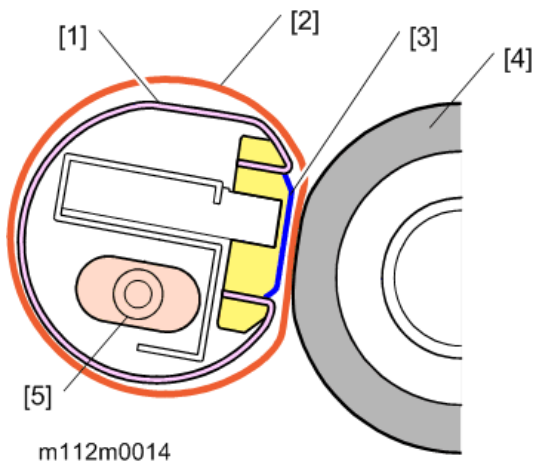


1. Pressure Release Lever
2. Pressure Roller
3. Pressure Roller Thermistors (Center/End)
4. Fusing Entrance Guide
5. Fusing Lamp
6. Thermopile
7. Thermistor (At the end of the fusing belt)
8. Thermostat
9. Fusing Belt
10. Heating Pipe
11. Stripper Plate
12. Fusing Exit Guide

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 QSU (Quick Start Up) Fusing Method
 

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1. **Heating Pipe**  
Conducts heat from the fusing lamp to the fusing belt.
2. **Fusing Belt**  
The fusing belt is rotated by friction with the pressure roller. The space between the heating pipe and the fusing belt is lubricated to reduce friction, so that the belt will rotate smoothly.
3. **Nip Band Shaping Parts**  
Located beneath the fusing belt to shape the nip band where the fusing belt contacts the pressure roller.
4. **Pressure Roller**  
The pressure roller is driven by the fusing motor. At the contact with the fusing belt, the pressure roller fuses the image to the paper and feeds the paper out of the fusing unit.
5. **Fusing Lamp**  
This is comprised of one halogen heater heating the center and both ends.

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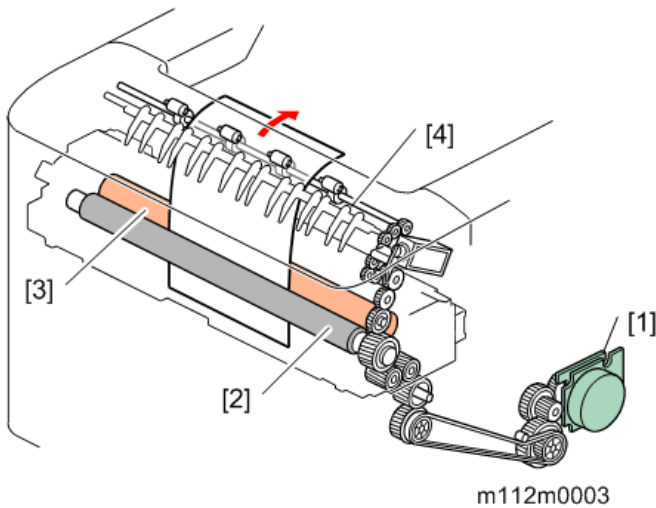
 Drive Mechanism
 

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**Drive Mechanism**

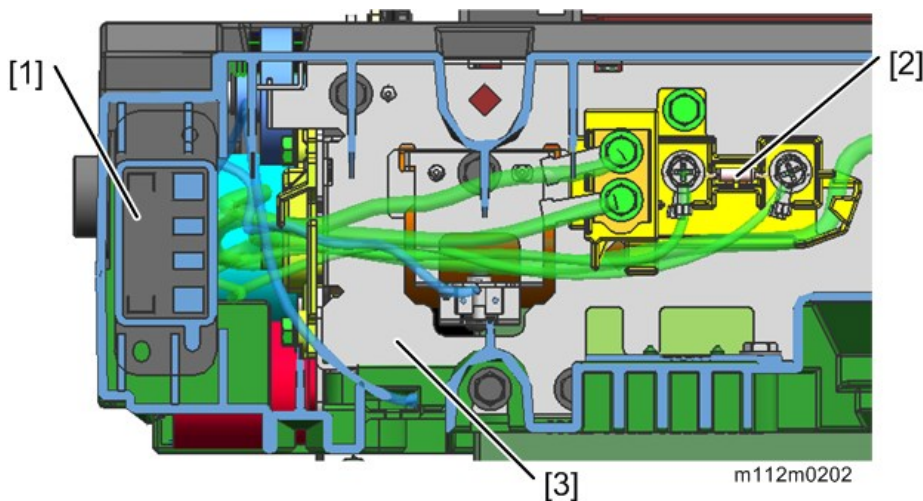
The fusing motor [1] drives the fusing unit (Pressure Roller [2], Fusing Belt [3]) and the exit roller [4] through gears and a timing belt.

## 7.Detailed Descriptions



### New Unit Detection

New unit detection for the fusing unit is performed with a current fuse which is installed on the rear frame of the fusing unit.



1. Drawer
2. Current Fuse
3. Rear Frame of the Fusing unit

### Pressure Release Mechanism

The pressure release mechanism facilitates paper removal if there is a paper jam in the fusing unit. The pressure lever is released when the front cover opens, and the pressure roller separates from the fusing belt due to a spring.

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### Thermal Control Mechanism

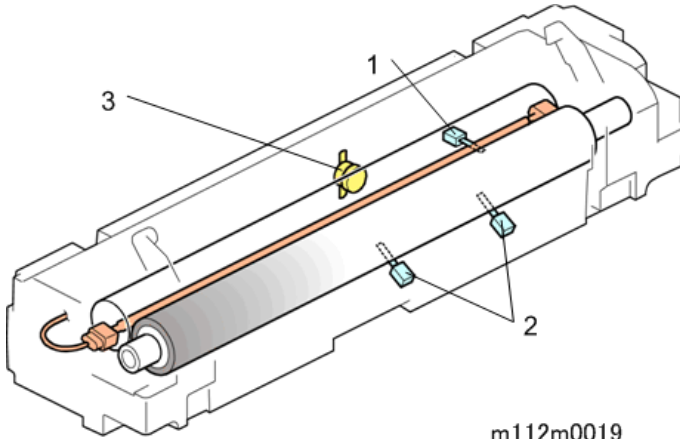
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#### Thermal Control Method

The machine uses PID control (Phase control) and ON/OFF control.

### Heating Temp., Press Temp. Detection

The contact thermistor (End) [1] detects fusing belt temperature. Contact thermistors (Center / End) [2] detect pressure roller temperature. Thermostat [3] is a safety switch for detecting malfunction of the heating pipe.



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### Temperature Control

The fusing lamp starts after machine power ON. When the fusing unit temperature reaches pre-rotation temperature, the pressure roller rotates to heat its surface equally and raise the fusing unit temperature up to the reload temperature.

The temperature increases to the paper feed temperature when printing.

The pressure roller rotates to prevent overshooting after printing.

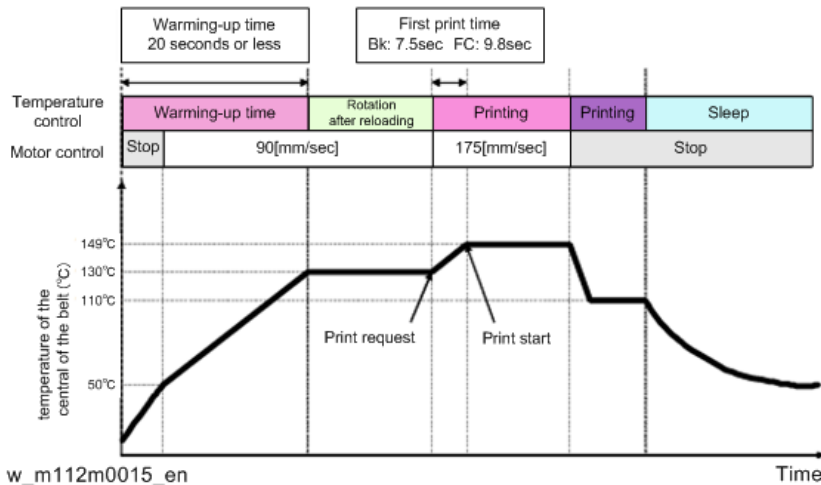
Warming Up Mode	Fusing warming up begins after machine power switches ON. The fusing lamp heats without rotation until the temperature reaches the “pre-rotation start temperature” (to heat the grease between the heating pipe and fusing belt until the motor can rotate). The fusing motor turns ON, and the fusing unit temperature increases to the “start-up target temperature”.
Print Mode	The machine increases the fusing unit temperature to the “print ready target temperature”. The fusing lamp turns OFF to stop heating before the last sheet of the job completely passes through the fusing nip band. This is to save energy and to prevent temperature overshoot after printing. The mode changes to the wait mode after a certain time passes by.
Wait Mode	The fusing lamp and the fusing motor turn OFF after a certain time passes after the fusing print ready condition is reached. At regular intervals, the fusing motor rotates intermittently at slow speed within print ready mode. The fusing motor stops when the machine is in Sleep Mode.

## 7.Detailed Descriptions

### List of print speeds, temperatures and paper weights

Paper type	Print speed	Paper weight (g/m <sup>2</sup> )	Fusing Temperature	
			FC	BW
Thin	Standard	56-65	FC	146
			BW	142
Standard 1	Standard	66-74	FC	149
			BW	145
Standard 2	Standard	75-90	FC	153
			BW	148
Recycled	Standard	66-90	FC	149
			BW	145
Middle Thick	Middle	91-128	FC	140
			BW	137
Thick 1	Middle	129-163	FC	147
			BW	144
Thick 2	Middle	164-220	FC	145
			BW	142
Special 1	Standard	56-90	FC	149
			BW	144
Special 2	Middle	91-163	FC	154
			BW	149
Special 3	Middle	164-220	FC	154
			BW	149
Special 4	Standard	56-90	FC	149
			BW	145
Special 5	Standard	56-90	FC	149
			BW	145
Envelope	Middle	-		140
Postcard	Middle	-		147
Label Paper	Middle	-	FC	147
			BW	144
Coated Paper	Middle	-	FC	147
			BW	144

### Graph of Temperature Control



### Details of the special temperature control operations

NO.	Purpose	Operation Details		
1	Curl Reduction Mode	<p>Enable this mode to reduce paper curl in a high-humidity environment. Enabling this function may decrease the print speed for the first print due to the pre-rotation of the fusing unit.</p> <p>For productivity-minded customers, assign a high value in the SP mode (SP1-113-012) to minimize the decrease in productivity (25 - 100%).</p> <p>Alternatively, assign a high value in the SP mode (SP1-113-006) to increase the temperature of the pressure roller (0 - 50 deg C).</p>	UP	<p>Enabling this mode forces a decrease in productivity and a rotation before printing to be done before starting any job in a high-humidity environment.</p> <p>Enabling this mode may shorten the life of the PCDU, Image Transfer Unit, and Fusing Unit by 75% when used in a high-humidity environment.</p>
2	Water Drop Reduction Mode	<p>Set pre-rotation time for the fusing unit in SP1-118-002 (0 - 99sec) to avoid water droplet patterns (droplets deposited on one side causing white patches to be generated on the other side during printing) in duplex printing.</p>	UP	<p>Enabling this mode forces a rotation before printing to be done before starting any job that involves duplex printing.</p> <p>Enabling this mode may shorten the life of the Fusing Unit by 77% when used in a low</p>

## 7.Detailed Descriptions

NO.	Purpose	Operation Details		
				temperature environment.
3	Prevention of roller distortion during a long-term period of non-usage	When releasing sleep mode and maintaining standby (110 deg C) for a long time, the roller rotates for one minute at 136° every hour.	Default	In Sleep mode, no one-minute rotations are done.



## Paper Feed

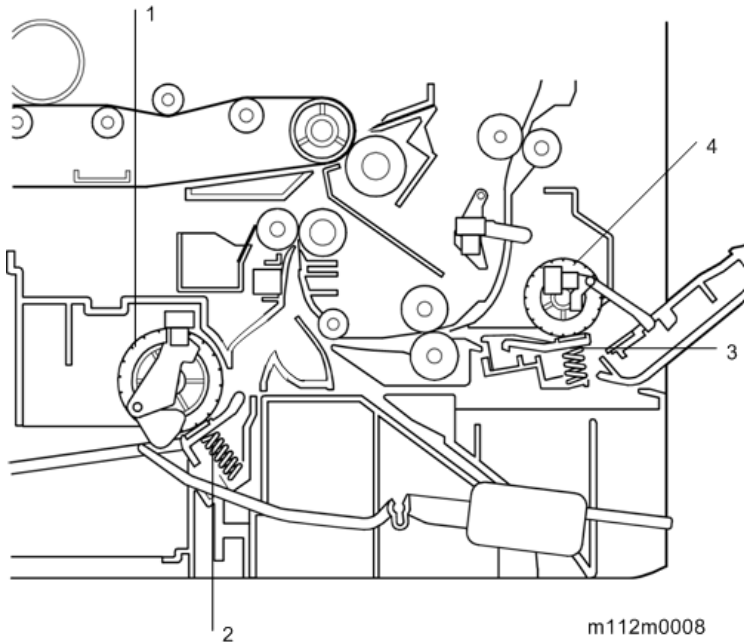
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### Overview

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#### Paper Feed

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1. Paper Feed Roller
2. Friction Pad
3. Bypass Friction Pad
4. Bypass Feed Roller

This machine has a paper tray and a bypass tray.

The separation mechanism uses the friction pad system for both the paper feed tray and the bypass feed tray.

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### Mechanism

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#### Paper Feeding

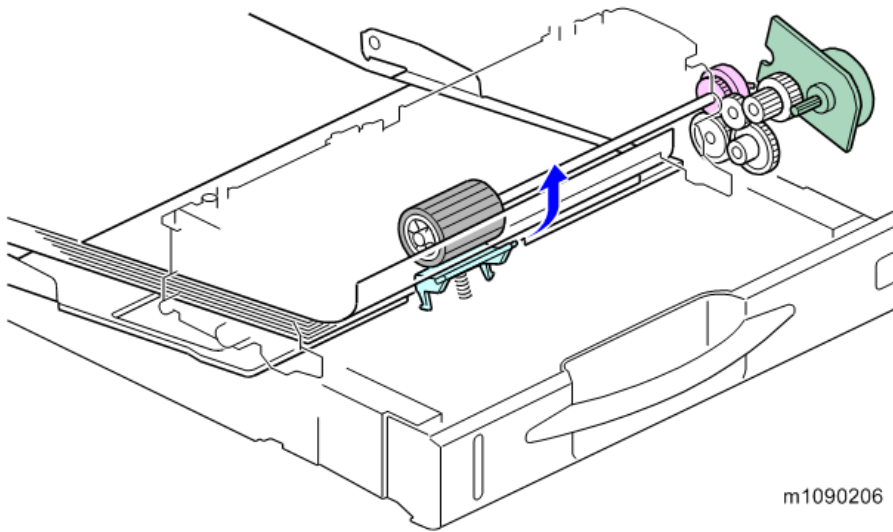
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Upon receiving the paper feed signal, the Paper Feed Clutch is turned on to rotate the Paper Feed Roller.

Only the sheet on the top in the Cassette is fed out by the Friction Pad.

When the paper fed into the machine activates the Registration Sensor, the Paper Feed Clutch is turned off. Once the toner pattern formed on the transfer belt is moved to the correct position, the Registration Clutch is turned on to feed the paper to the Image Transfer Unit.

## 7.Detailed Descriptions



### Paper Volume Detection

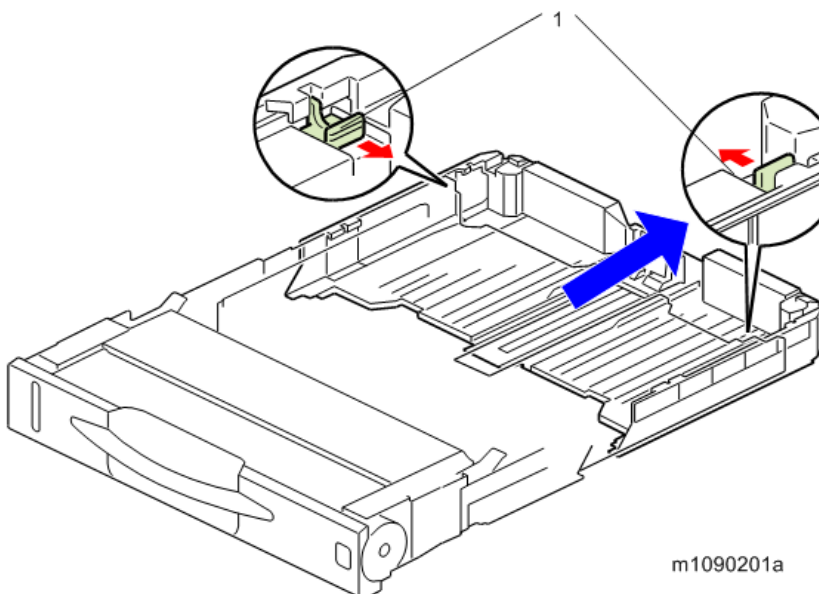
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If the tray becomes empty, a feeler enters a cutout in the bottom plate, and the paper end sensor at the other end of this feeler turns on.

### Adjustable Cassette

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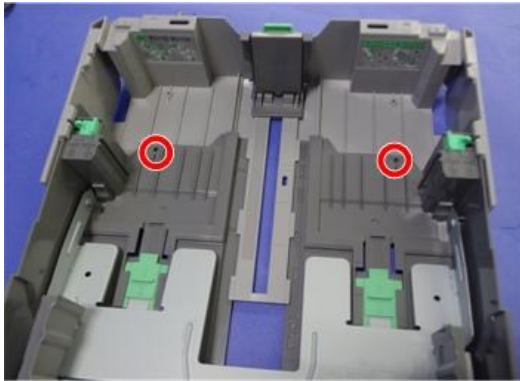
When shipped from the factory, paper sizes up to A4 portrait can be loaded in the cassette. To support paper sizes larger than A4 portrait, unlock the Tray Extension Lock [1] to extend the Tray.



#### **Note**

- Fix the extended tray with screws at the points indicated by red circles below (M3 x10  x2,

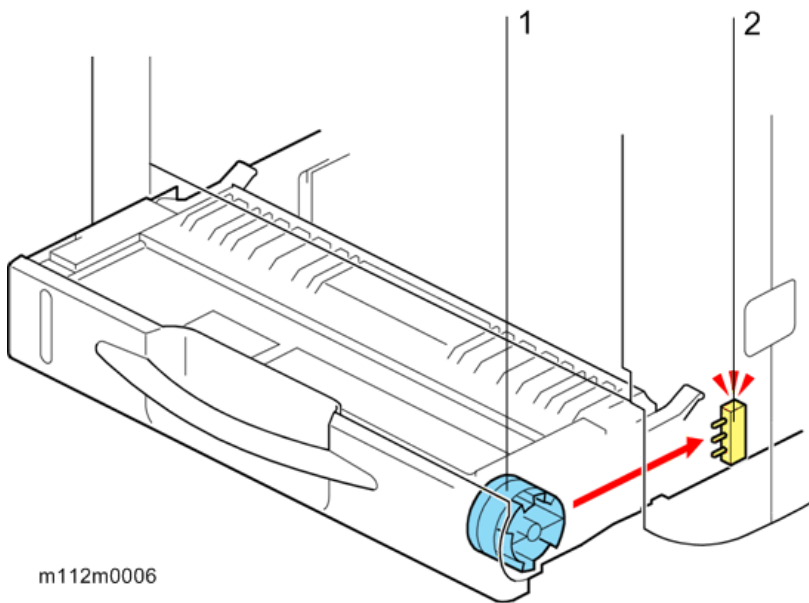
Part No.: 04583010N).



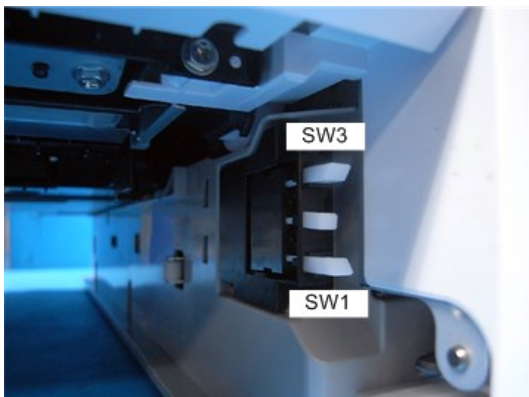
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Paper Size Detection

The paper size is detected by a combination of three detection switches on a Paper Size Detection Sensor [2]. The switches are operated by the Size Detection Dial [1] located on the right side of the Paper Feed Tray.



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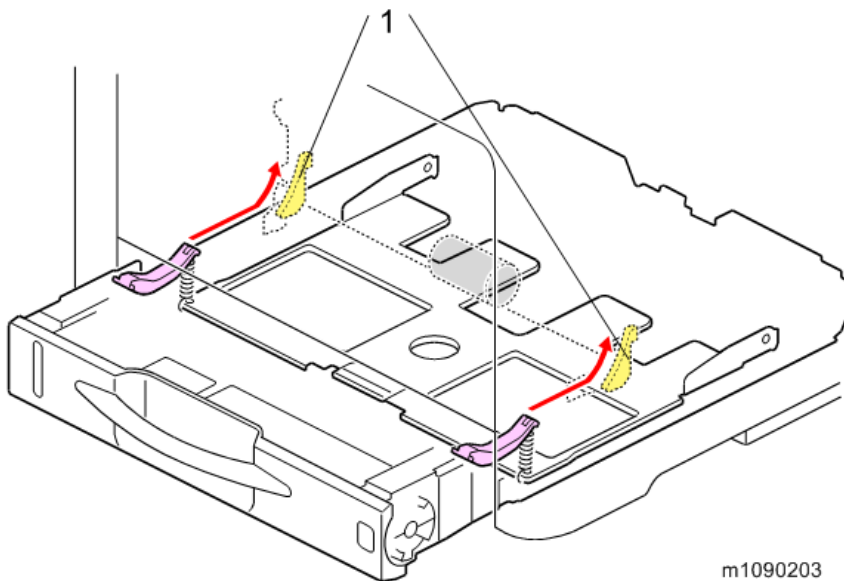
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**Paper size detection combinations (Switch is pressed: L)**

	SW 1	SW 2	SW 3	Paper Size
1	L	L	L	A4 SEF
2	L	H	L	A5 SEF
3	H	L	L	A6 SEF
4	H	H	L	Legal SEF
5	L	L	H	Letter SEF
6	L	H	H	Custom Size
7	H	L	H	Half Letter SEF
8	H	H	H	Paper cassette is not set.

**Paper Feed Tray Bottom Plate Lift Mechanism**

When you slide the Paper Feed Tray into the unit, the Bottom Plate Arm [1] slides along the sloping guide of the Main Frame, and the Paper Feed Tray is pushed upward by the spring. As a result, the lifted Paper Feed Tray presses the sheet on the top of the stack against the Paper Feed Roller.



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**Bypass Tray Paper Feed**

When Bypass Feed Tray is selected to feed paper, the Bypass Bottom plate is lifted up, and then the Bypass Feed Clutch is turned on to rotate the Bypass Feed Roller.

The friction pad ensures that only the sheet on the top is fed out. Once the paper is fed out, the Duplex Exit Clutch is turned on to feed the paper into the same path as for paper from the Paper Feed Tray.

When the paper activates the Registration Sensor, the Bypass Feed Clutch is turned off. Once the toner pattern formed on the transfer belt is moved to the correct position, the Registration Clutch is turned on to feed the paper to the Image Transfer Unit.

## Bypass Feed Tray Automatic Lifting System

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The Bypass Tray Bottom Plate has an automatic lifting system.

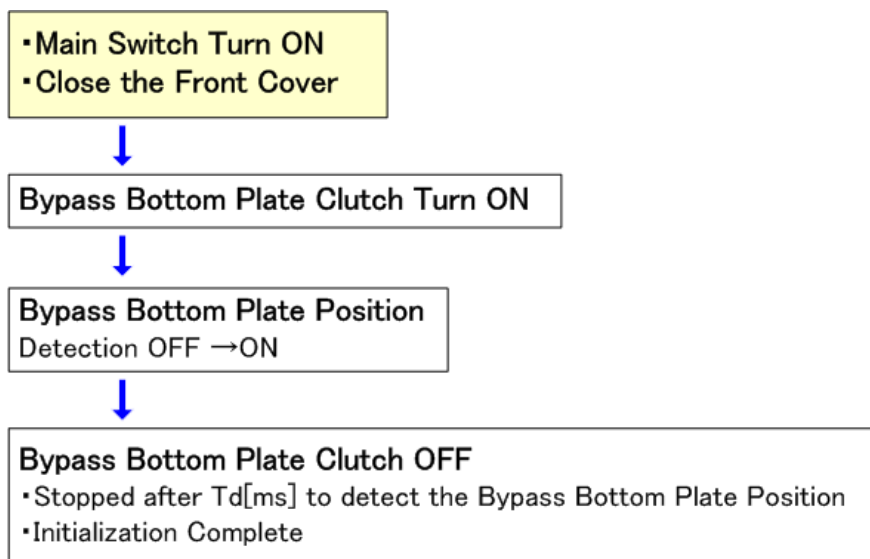
When the Bypass Bottom Plate Clutch turns on, drive is transmitted to the bottom plate lifting system of the bypass tray. Once the drive is transferred to the system, the cam on the left as you face the machine starts rotating to lift the bottom plate up and down. The actuator that operates simultaneously with the cam is mounted on the left side of the cam. The up and down movement of the bottom plate is detected by the bottom plate position detection sensor when the actuator turns the sensor on and off.

### Bottom Plate Position Detection Sensor

ON: Bottom plate is down

OFF: Bottom plate is rising

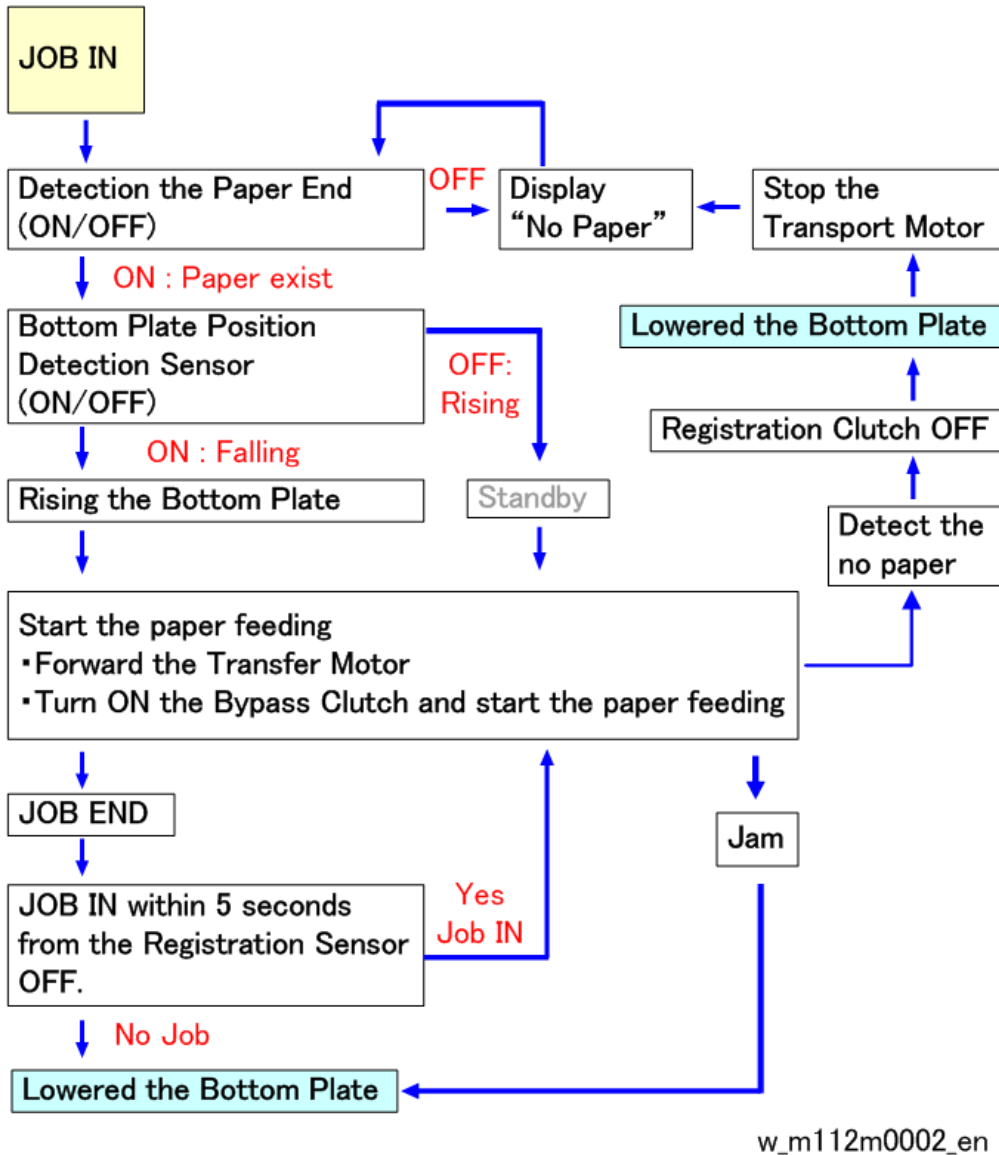
### Bypass Bottom Plate Control Sequence



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### Bottom Plate Rising/Falling Control

7.Detailed Descriptions



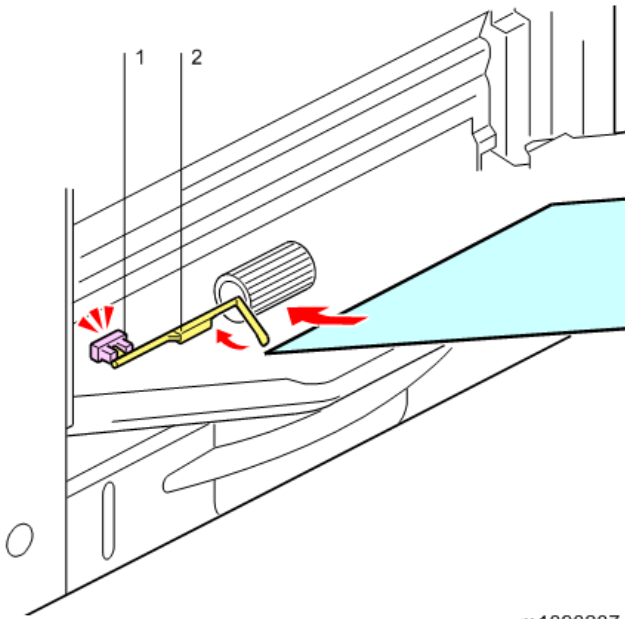
Bypass Paper Set Detection / End Detection

The Paper Feed Tray has a Paper Detection Feeler [2] and a Bypass Paper End Sensor [1]. When paper is loaded into the tray, the Bypass Paper End Sensor is turned ON (allowing the light beam to pass through) to detect Paper End.

**Bypass Paper End Sensor**

ON: Bottom plate is down

OFF: Bottom plate is rising



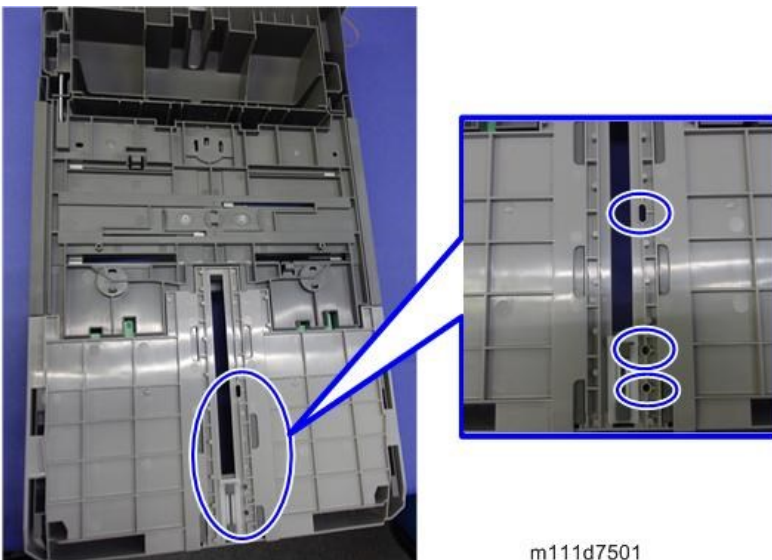
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### End Fence and Side Fences

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There are five screw holes so that the end fence and side fences can be fixed in place. This is useful for ensuring that the paper guides will not move when the size of the paper to be used is fixed.

#### End fence



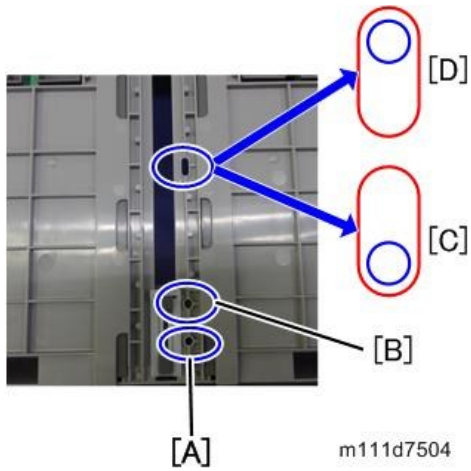
m111d7501



## 7.Detailed Descriptions

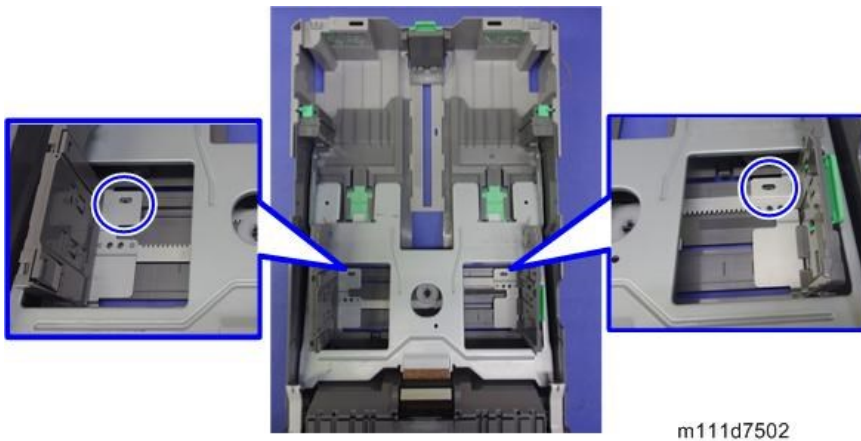
### Note

- Fixable paper sizes are shown below.



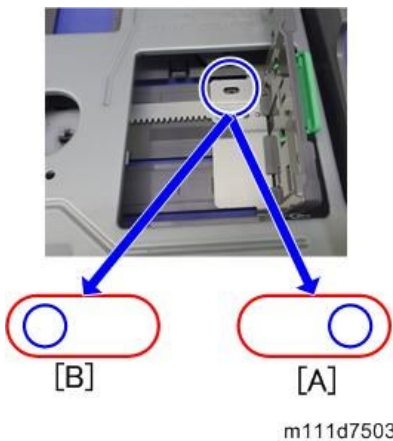
- [A]: Normal: A4 SEF / Extension: LG SEF
- [B]: Normal: LT SEF
- [C]: Normal: HLT SEF
- [D]: Normal: A5 SEF

### Side fences



### Note

- Fixable paper sizes are shown below.



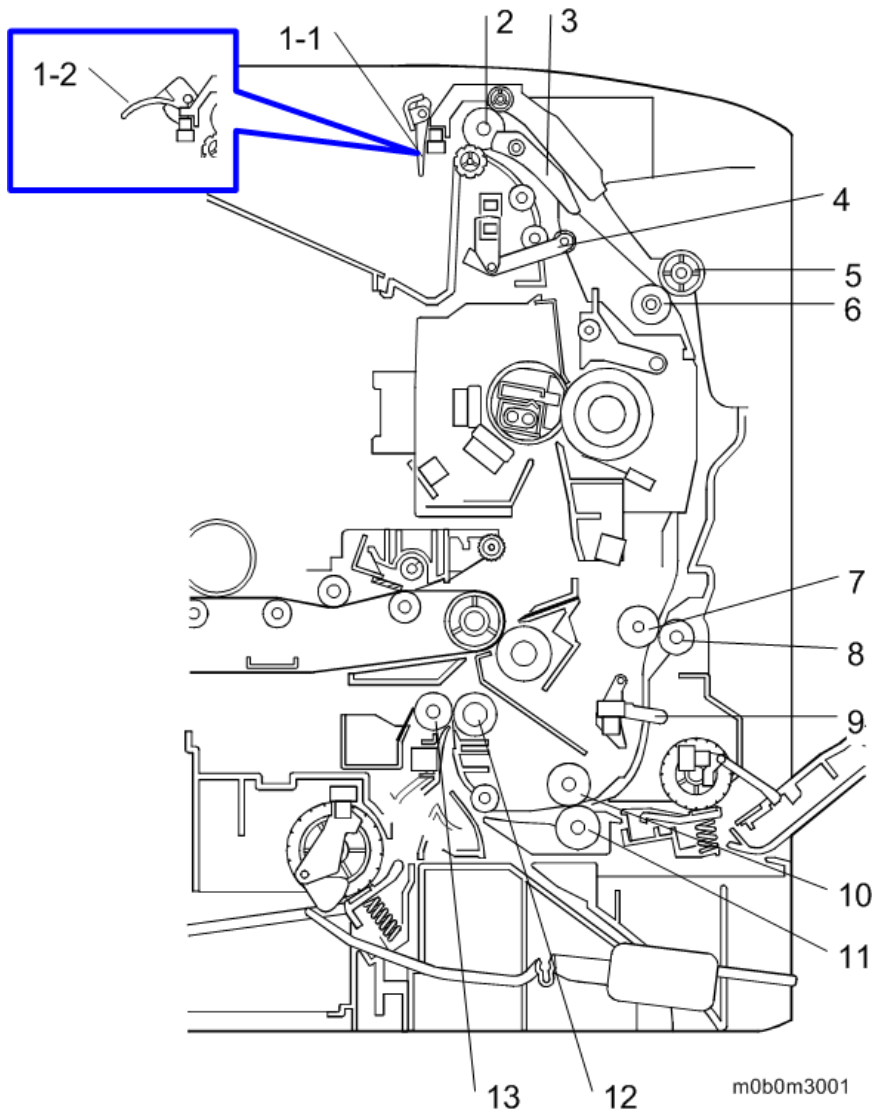
- [A]: A4 SEF
- [B]: LG SEF/LT SEF

## Paper Transport

---

### Overview

---



- 1-1. Paper Exit Full Sensor Feeler (MF models)
- 1-2. Paper Exit Full Sensor Feeler (Printer model)
- 2. Paper Exit/Reverse Roller
- 3. Junction Gate
- 4. Paper Exit Sensor Feeler
- 5. Duplex Entrance Roller (Drive)
- 6. Duplex Entrance Roller (Driven)
- 7. Duplex Intermediate Roller (Driven)
- 8. Duplex Intermediate Roller (Drive)
- 9. Duplex Sensor Feeler
- 10. Duplex Exit Roller (Driven)

- 11.Duplex Exit Roller (Drive)
- 12.Registration Roller (Drive)
- 13.Registration Roller (Driven)

---

## Mechanism

---

### Duplex

---

The machine uses the Paper Exit/Reverse/Duplex method, where switching of the Duplex Junction Gate and forward and reverse control of the Paper Exit/Reverse Roller allow the sheet to switch back. In duplex printing, the front end of the sheet with the first side printed is pulled into the Paper Exit/Reverse Roller when the Duplex Junction Gate is switched, and the Paper Exit/Reverse Roller rotates in reverse. After the rear end of the sheet passes through the Paper Exit Sensor, the Duplex Junction Gate returns to its original position before the sheet is completely discharged and the rotation direction of the Paper Exit/Reverse Roller switches back to normal. The sheet is then sent to the Duplex Transport path.

Next, after the second side is printed, the sheet printed on two sides is discharged into the Paper Exit Tray.

### Paper Exit

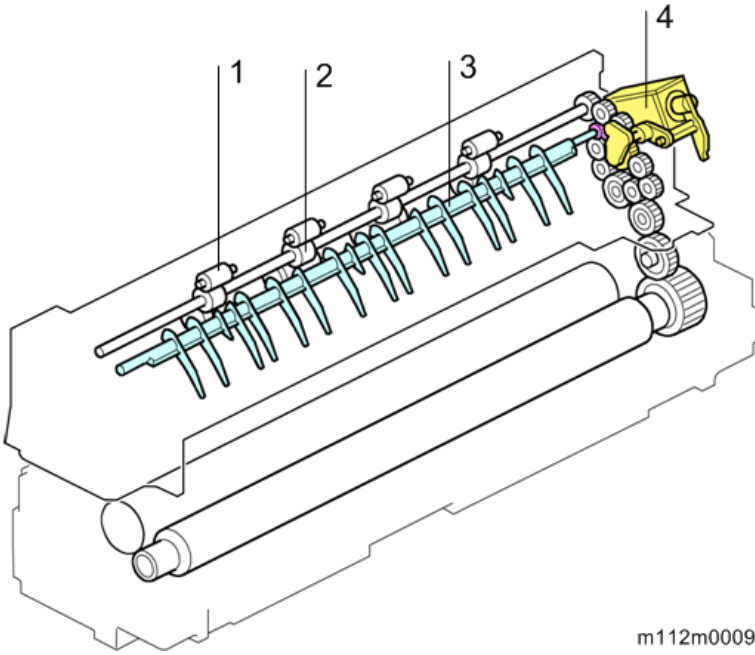
---

The Paper Exit Sensor detects paper passing out of the exit when the paper moves the Paper Exit Sensor Feeler. When printing a one-sided output, the paper passes under the Duplex Junction Gate and is then transported to the Paper Exit/Reverse Roller before being ejected.

When printing a two-sided output, the paper passes over the Duplex Junction Gate and the Paper Exit/Reverse Roller, and the unit performs a switchback.

When the height of paper stacked in the Paper Exit Tray exceeds a certain level, the Paper Full Sensor detects that the height of the stack in the output tray has reached the limit, because the top of the stack has moved the Paper Full Sensor feeler up to a certain height. Then printing is stopped.

## 7.Detailed Descriptions

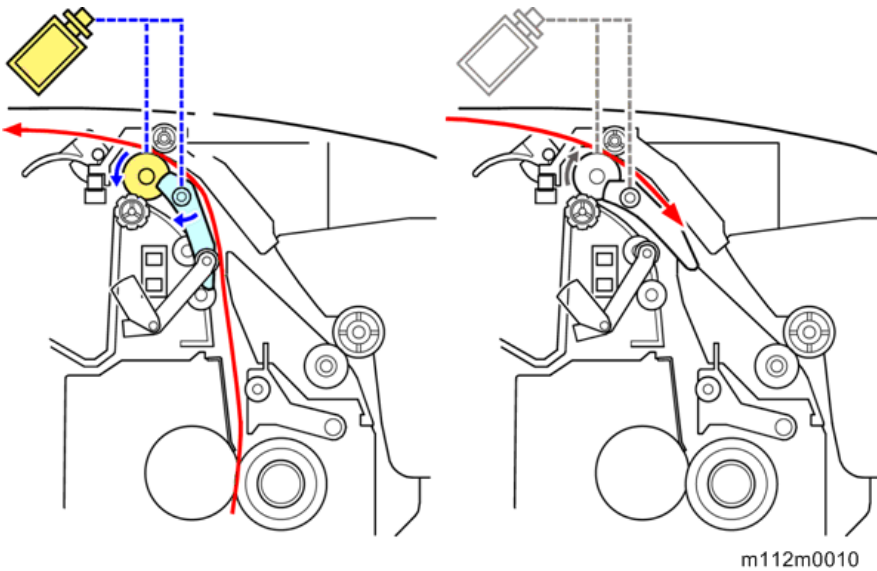


1. Driven Roller (Relay)
2. Paper Exit/Reverse Roller
3. Junction Gate
4. Duplex Inverter Solenoid

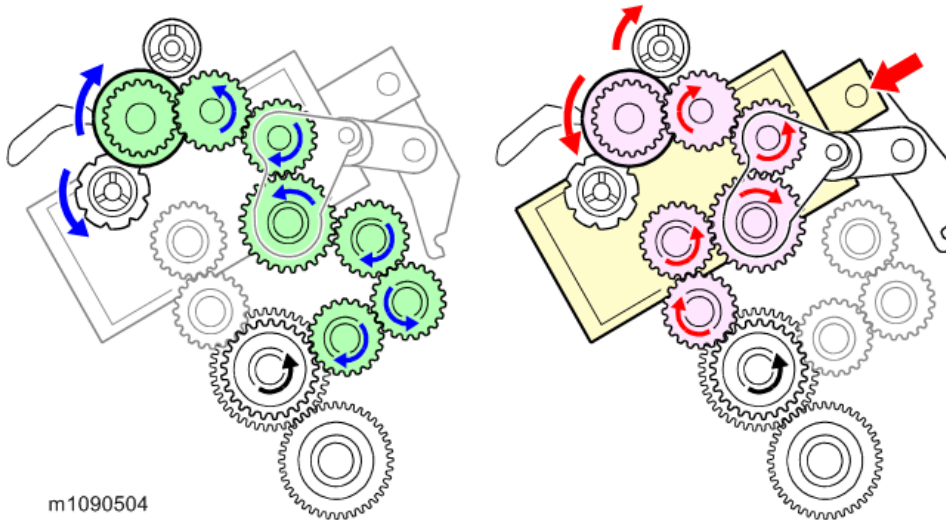
### Operation of the Paper Exit/Duplex in Duplex Printing

---

#### Duplex action



## Duplex Inverter Solenoid and Gear Driving



### Duplex Productivity

---

#### Printing Speed

- Plain Paper, Recycled Paper, Colored Paper, Letterhead, Preprinted Paper, Label Paper
  - Base linear velocity: Thin, Plain paper 1, Plain paper 2
  - Medium linear velocity: Medium Cardboard, Cardboard 1, Cardboard 2
- Special Paper
  - Base linear velocity: Special Paper
  - Medium linear velocity: Special Paper
  - Low linear velocity: Special Paper
- Coated Paper
  - Medium linear velocity: Coated paper, Cardboard 1, Cardboard 2
- Envelopes
  - Medium linear velocity: Cardboard 1, Cardboard 2

#### Print speed of Duplex printing

This machine ejects or reverses paper with one drive roller. The same roller does exit and reverse, so route switching for the next sheet cannot begin before the current sheet has been fed out. Because of this, productivity for A4 and LT size duplex printing drops to 90%.

## Waste Toner

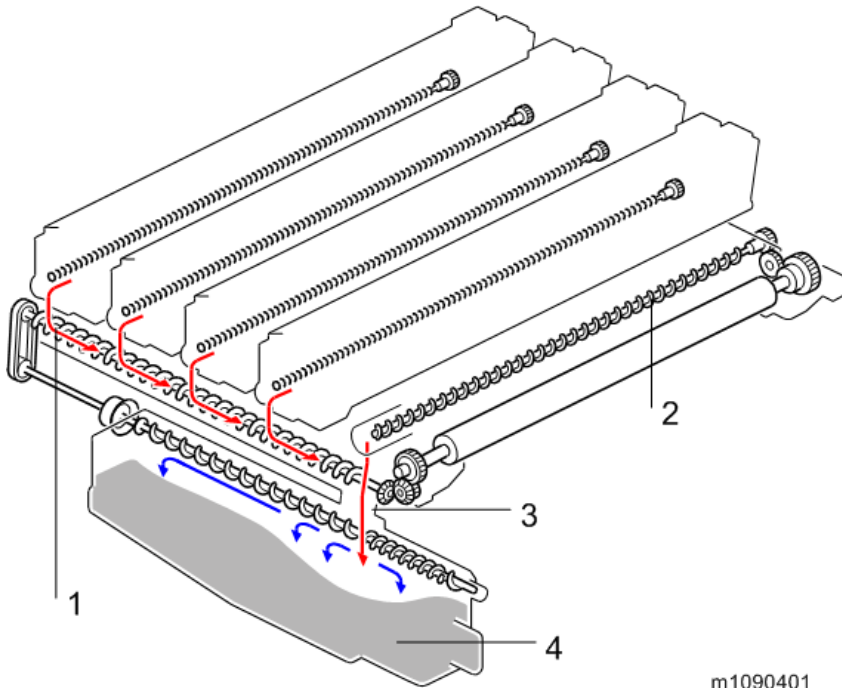
---

### Overview

---

Toner waste collected from the PCDUs is conveyed down to the waste toner duct [1], and then to the front of the unit by a coil, and from there, it is finally moved down to the waste toner bottle.

Toner waste collected from the Image Transfer Belt Unit is conveyed to the left side of the unit by the ITB waste toner collection coil [2] and then down to the waste toner bottle [4] via the same opening [3] as that used for toner waste collected from the PCDUs.



m1090401

---

### Mechanism

---

The ITB waste toner collection coil is driven via the drive roller in the image transfer unit.

The coil in the waste toner duct is driven via the gear on the left of the image transfer unit and then the main unit gear (bevelled gear).

A timing belt drives the coil inside the waste toner bottle to distribute the toner evenly inside the bottle.

### Waste Toner Bottle Set Detection

---

The machine does not have a Waste Toner Bottle replacement detection feature.

If the Waste Toner Bottle Toner Full Sensor is in the OFF state when the Waste Toner Set Sensor is in the ON state, the machine indicates that the waste toner bottle is usable.

### Waste Toner Bottle Near Full/ Full Detection

---

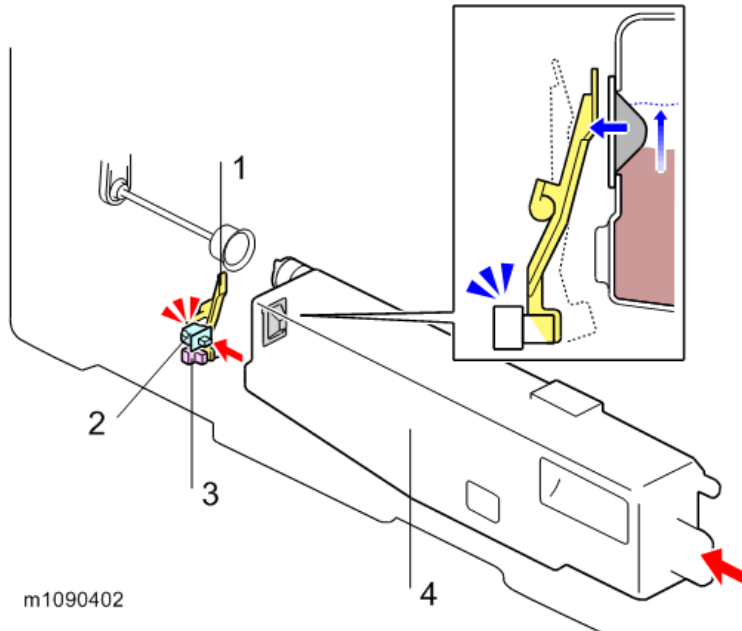
When the amount of waste toner exceeds a certain volume, the rubber part at the back of the Waste Toner Bottle is inflated by the pressure of the toner inside and pushes the feeler. As a result, the Waste Toner Bottle Full Sensor is switched ON position (the actuator intercepts the light beam), and then the



machine detects the waste toner bottle as being near full.

After detecting this near–full state, the machine detects waste toner bottle as being full using a pixel count.

The settings for the pixel count can be changed in the UP and SP mode.



1. Feeler
2. Waste Toner Bottle Sensor
3. Waste Toner Bottle Full Sensor
4. Waste Toner Bottle

**Note**

- The rubber parts are covered with yellow toner. It is a lubricant and must not be wiped off with any type of solvent including alcohol.

**Number of Sheets That Can Be Printed after Indicating Near Full (Reference Value)**

- Normal (Before 5 days): 475 pages
- Notify Later (Before 3 days): 285 pages
- Notify Sooner (Before 7 days): 665 pages

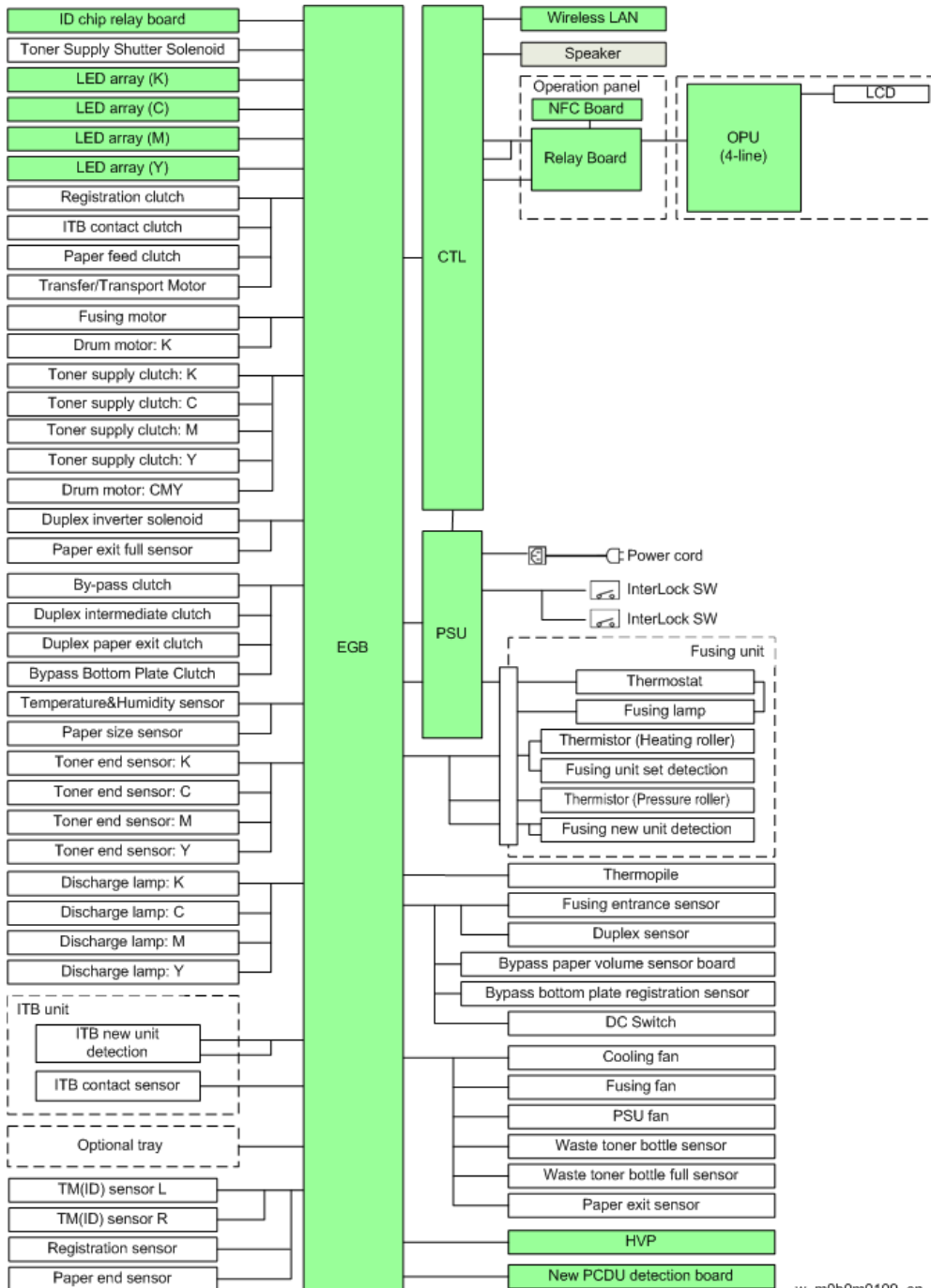
**Note**

- For the timing of the indication, users can select Normal, Short notice, or Early notice. The default is “Normal”.
- The number of sheets that can be printed is a reference value when performing continuous printing of A4-size portrait originals at a color density of 5% for each color and at a color printing rate of 50%.
- The actual replacement frequency depends on usage, and is influenced by factors including paper size, paper type, paper feed direction, content, the number of sheets continuously printed per job and adjustments to maintain the quality of printing.

# Electrical Components

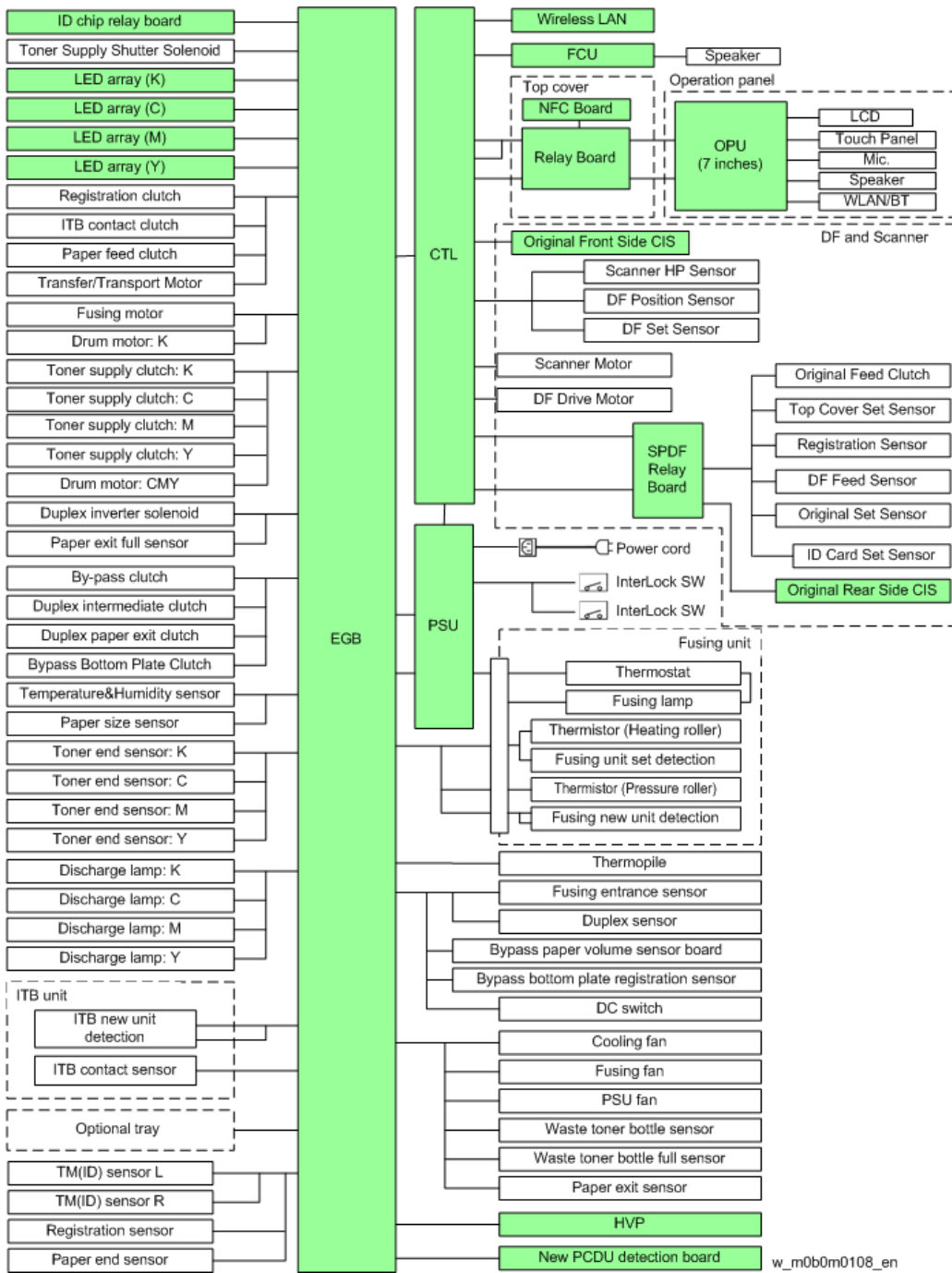
## Block Diagram

### Printer Model



w\_m0b0m0109\_en

**MF Model**



**Board Functions**

**EGB (Engine Board)**

This controls the engine, the controller interface, image processing, MUSIC (Mirror Unit for Skew and Interval Correction), input/output, and interfaces with the optional units. MUSIC is also called Automatic Line Position Adjustment.

## 7.Detailed Descriptions

### **CTL (Controller Board)**

This controls the interface between the OPU and EGB, and applications.

### **PSU (Power Supply Unit)**

This unit supplies the DC voltages to the machine.

### **HVP (High Voltage Power supply)**

This unit converts DC voltage to high-voltage supplies.

### **New PCDU Detection Board**

This unit detects when a new PCDU is installed, and whether each PCDU has been set.

### **USB Board**

Connects the USB memory.

### **ID Chip Relay Board**

Relays the data from the ID Chips of the Toner cartridges.

### **DC Switch**

Turns the DC voltage supply on/off

### **Toner End Detection Board**

This unit detects the amount of remaining toner.

### **Fax Board**

Controls the fax program.

### **Wireless LAN**

Controls the wireless LAN communication.

### **NFC**

Controls NFC (Near Field Communication).

This board is used only for RICOH Smart Device Connector.

### **Operation Panel Relay Board**

A relay board unique for each model is installed, so that other models can use the same operation panel unit.

### **OPU**

Controls the operation panel. For details, see the service manual for Smart Operation Panel 2nd Generation.

## SPDF Relay Board

This is a relay board for the document feeder.

---

## Notes on Data Storage Devices

---

### Where the Data Is Stored

---

This machine does not have a hard disk. The data stored on the hard disk on GW+ controller models will be stored, on this model, in the following locations by the sGW controller.

Only the SP C361SFNw, which has many functions to support, is equipped with a micro SD card on the controller board to be used along with the eMMC.

Data	Where to Store	Note
SP/UP data	NVRAM	
Counter Data		
Local Address Book (Only for MF models)	eMMC on the CTL board	The address book is supported by WIM.
Server certificate SSL public certificate Data for customizing the message in the authentication/charging control window SAF (Only for MF models)	eMMC on the CTL board	
Browser setting value	MicroSD card (SP C361SFNw only)	The micro SD card's life is detected by the machine. When the card reaches its end of life, it is notified by SCs. <b>★ Important</b> The micro SD card on the controller board cannot be used for capturing or retrieving the device log. To capture the device log, insert the SD card into the service slot. For details, see <a href="#">Capturing the Device Logs</a> .
Storage for SDK		

## 7.Detailed Descriptions

### Moving the Data in the Case of a Problem

#### The CTL Board is Damaged

Data	Where to Store	Data migration
SP/UP data	NVRAM	OK (by reinstalling the NVRAM on a new CTL board).
Counter Data	NVRAM	OK (by reinstalling the NVRAM on a new CTL board).
Local Address Book	eMMC	OK (only if the Address Book has been downloaded by the end user with WIM).
Server certificate SSL public certificate Data for customizing the message in the authentication/charging control window SAF (received fax documents)(Only for MF models)	eMMC	Cannot be moved.
Browser setting value (SP C361SFNw only)	Micro SD Card	OK (by reinstalling the Micro SD card on a new CTL board).
Storage for SDK (SP C361SFNw only)	Micro SD Card	OK, by reinstalling the Micro SD card on a new CTL board.

#### The Micro SD Card is Damaged (SP C361SFNw only)

Data	Where to Store	Data migration
Browser setting value	Micro SD Card	OK, only if the browser setting value has been downloaded by the end user with WIM.
Storage for SDK	Micro SD Card	Cannot be moved. This case is the same as a broken hard disk on a GW+ model.

#### Note

The Micro SD card's life is detected by the machine. When the card reaches its end of life, it is notified by the following SCs.

SC860-51 (Insufficient Nand-Flash blocks (threshold exceeded))

SC860-52 (Number of Nand-Flash block deletions exceeded))

## Process Control

### Overview

#### Process Control

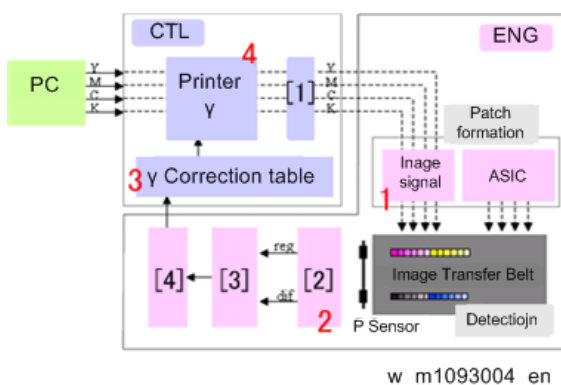
Process Control controls the image process to keep the image density as accurate as possible.

#### MUSIC (Mirror Unit for Skew and Interval Correction)

This machine creates a correction pattern, and uses it to measure the image position and correct the writing position.

#### IBACC

IBACC (Intermediate Belt ACC) is a function for correcting the color halftone reproduction by printing sensor patches on the Image Transfer Belt. In previous ACC corrections, the user printed a test chart, compared it with standard color tones, and adjusted the color tone manually. IBACC forms patches on the Image transfer belt unit, so all operations can be completed within the printer.



1. Tone Processing
2. ID Sensor (also called the P Sensor)
3. Adhesion amount conversion
4. Density conversion
- 1.** Patches formed on the Image Transfer Belt
- 2.** Density detected by the ID sensor
- 3.** Creates the Gamma correction table
- 4.** Sets the Gamma correction table

#### Process Control Self-check

Operations	FC mode	Bk priority mode
Rotation before image forming operation (the	2.5 sec	2.5 sec



7.Detailed Descriptions

Operations		FC mode	Bk priority mode
controller has started up)			
Power ON	Default	-	-
	Change of environment	Process Control/MUSIC	Mono MUSIC (*1)
Recover from sleep mode	By the panel operation	Default	-
		Change of environment, or after 48 hours from the previous printing	-
	By the print request (Mono)	Default	-
		Change of environment, or after 48 hours from the previous printing	Process Control/MUSIC
	By the print request (Color)	after 48 hours from the previous printing	Process Control/MUSIC
Close Cover	Default	-	-
	Change of environment	Process Control/MUSIC	Mono MUSIC (*1)
Before color job	Default	-	-
	Change of environment	Process Control	Process Control
	Number of pages printed	MUSIC (every 400 pages)	MUSIC (every 400 pages)
During a color job	Default	-	-
	Number of pages printed	Process Control (every 300 pages), MUSIC (every 450pages)	Process Control (every 300 pages), MUSIC (every 450pages)
After color job	Default	-	-
	Number of pages printed	Process Control (every 250 pages)	Mono Process Control (every 450 pages)
Before Monochrome job	Default	-	-
	Change of environment	Process Control	-
	Number of pages printed	MUSIC (every 400 pages)	Mono MUSIC (*1) (every 400 pages)
During a Monochrome job	Default		
	Number of pages printed	Process Control (every 500 pages),	Mono Process Control (every 500 pages),

Operations		FC mode	Bk priority mode
		MUSIC (every 450 pages)	Mono MUSIC (every 450 pages)
After Monochrome job	Default	-	-
	Number of pages printed	Process Control (every 450 pages)	Mono Process Control (every 450 pages)
Manual operation from the Driver/Operation panel		Process Control/MUSIC	Process Control/MUSIC
Others	Changing the K PCDU	Process Control/MUSIC + Image Transfer Unit cleaning	Mono Process Control/Mono MUSIC (*1) + Image Transfer Unit cleaning
	Changing the YMC PCDU	Process Control/MUSIC + Image Transfer Unit cleaning	-
	Printing after a 48 hour interval	Process Control/MUSIC	Mono MUSIC (*1)
	Adjusting the K toner supply amount	Process Control	Mono Process Control
	Adjusting the YMC toner supply amount	Process Control	-
	Changing the Transfer belt	Process Control/MUSIC	Mono Process Control/Mono MUSIC

\*1 Mono (Monochrome) MUSIC is defined as the alignment of the position of the Bk margin.

Related SP settings

- Process Control: SP3-529-006, SP3-529-007
- MUSIC : SP2-193-020, SP2-193-019

#### IBACC (Execution Method)

---

With the IBACC procedure, which is included in the user menu under “Auto Color Calibration”, users can perform calibration whenever they need to. When “Automatic Color Calibration process” is selected, adjustments are executed in the order MUSIC, Process Control and IBACC.

#### Sensor Configuration

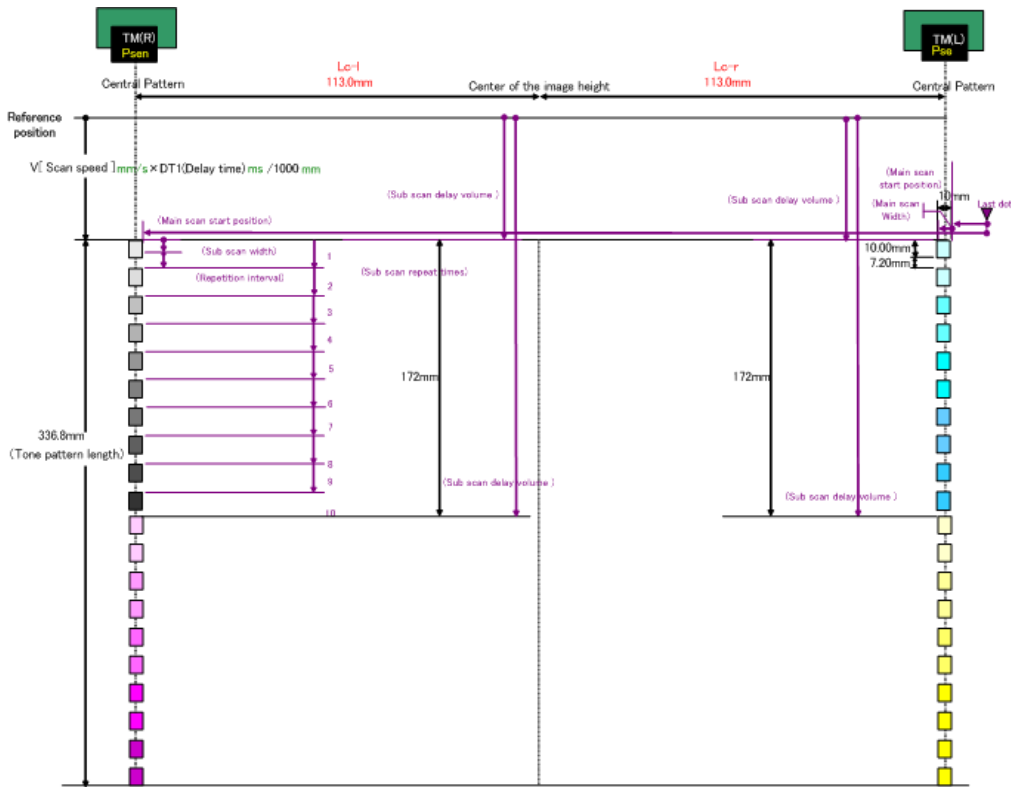
---

In this machine, two small TM(ID) sensors, consisting of a sensor head on a circuit board, are located on each side of the main unit, facing the transfer belt. Both sensors are used when executing Process Control/IBACC/MUSIC.

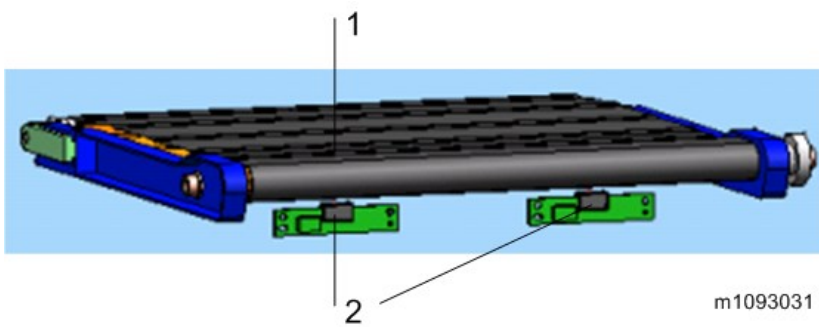
A bar code label incorporating a unique value specific to each sensor (ID Sensor test value) is attached

## 7.Detailed Descriptions

to the sensor head of the TM(ID) Sensor. When the machine is shipped, the correct values for the installed ID sensors are already set into the correct SP modes. After a TM(ID) Sensor has been replaced in the field, you must input a set value in the SP. For instructions on how to input the value in the SP, see “TM(ID) Sensor” in the “Replacement and Adjustment” chapter.



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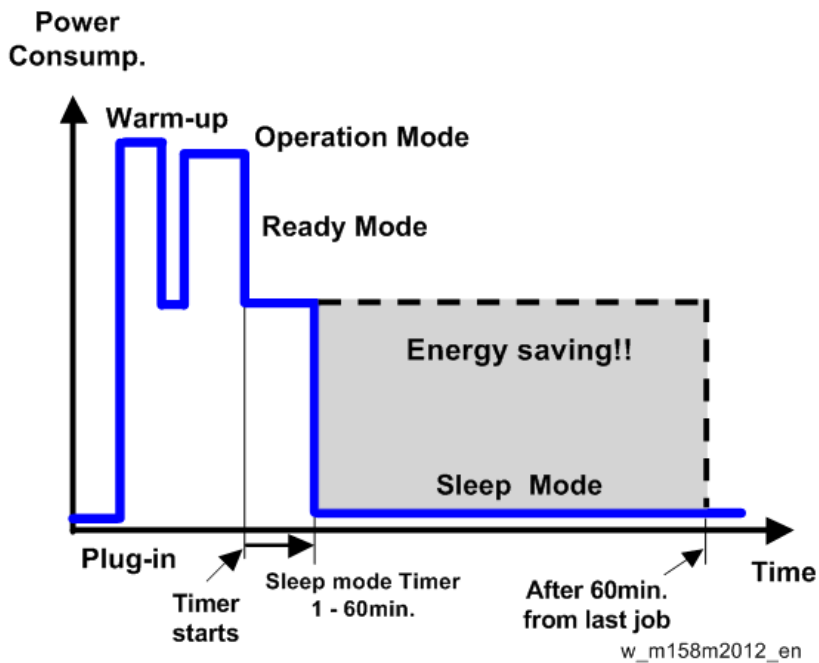
m1093031

1. Image Transfer Belt
2. TM(ID) Sensor

## Energy Save

### Energy Saver Modes

Customers should use energy saver modes properly, to save energy and protect the environment.



The area shaded grey in this diagram represents the amount of energy that is saved when the timers are at the default settings. If the timers are changed, then the energy saved will be different. For example, if the timers are all set to 60 min., the grey area will disappear, and no energy is saved before 60 min. expires.

### Sleep Mode Setting

#### Sleep Mode Timer

- Printer model: Menu > System > Sleep Mode Timer
- MF model: User Tools > System Settings > Timer Settings > Sleep Mode Timer

After a specified period has passed, or the [Energy Saver] key is pressed, the printer enters Sleep Mode in order to conserve energy.

Specify the time to elapse before Sleep Mode.

The time can be set from 1 to 60 minutes, using the number keys. (For the printer model, select from 1, 5, 15, 30, or 45 minutes.)

Default:"1" minute(s)

### Fusing Off Mode

- Printer: Menu > System > Fusing Off Mode(EnSav)On/Off

## 7.Detailed Descriptions

- MF Model: User Tools > System Settings > Timer Settings > Fusing Unit Off Mode (Energy Saving) On/Off

The user can specify whether the printer enters Fusing Unit Off mode or not.

Default: [Off]

- On  
Turn on Fusing Unit Off mode. This setting further reduces power consumption, but the printer may take longer to recover from Fusing Unit Off mode.
- Off  
Turn off Fusing Unit Off mode.

### **Exit Fusing Unit Off Mode**

Specify the condition for the printer to exit Fusing Unit Off mode.

Default: [On Printing]

- On Printing  
The printer exits Fusing Unit Off mode when printing is performed.
- On Operating Control Panel  
The printer exits Fusing Unit Off mode when any key on the control panel is pressed.

### **Fusing Unit Off Mode Timer**

Specify the period of time the printer waits before entering Fusing Unit Off mode.

The timer is reset if any key on the control panel is pressed or printing is performed.

Default: [10 seconds]

Set the time from 10 seconds to 240 minutes, using the number keys.(For the printer model, select from the following settings: 10 sec., 30 sec, 1 min, 15 min, 60 min, 120 min., or 240 min.)

The Fusing Unit Off Mode Timer is reset when:

- A print is performed
- A cover is opened when [Exit Fusing Unit Off Mode] is set to [On Printing]
- Any key on the operating panel is pressed when [Exit Fusing Unit Off Mode] is set to [On Operating Control Panel]

### **Return to Stand-by Mode**

---

Printer Model: 8.72 sec.

MF Model: 10 sec.

The time it takes to switch out from energy saving functions and electrical consumption may differ depending on the conditions and environment of the machine.

### **Recommendation**

---

We recommend that the default settings should be kept.

- If the customer requests that these settings should be changed, please explain that their energy

costs could increase, and that they should consider the effects on the environment of extra energy use.

- If it is necessary to change the settings, please try to make sure that the Sleep Mode timer is not too long. Try with a shorter setting first, such as 5 min., then go to a longer one (such as 15 min.) if the customer is not satisfied.
- If the Sleep Mode timer is all set to the maximum value, the machine will not begin saving energy until 240 minutes has expired after the last job. This means that after the customer has finished using the machine for the day, energy will be consumed that could otherwise be saved.
- If you change the settings, the energy consumed can be measured using SP8941, as explained below.

---

### Energy Save Effectiveness

---

SP 8941 (Machine Status) keeps a record of the amount of time that the machine spends in each mode.

- 8941-001: Operating mode
- 8941-002: Standby mode
- 8941-003: Panel off mode (Not used in this model)
- 8941-004: Low power mode
- 8941-005: Sleep mode

With this data, and the power consumption values from the specifications, we can estimate the amount of energy that is used by the machine.

This should only be used as a reference value, because the power consumption specifications are measured in a controlled environment with a constant power supply.

To get an exact measurement at the customers site, a watt meter must be used to measure the actual energy consumed.

To use SP8941 to calculate the energy consumed:

- At the start of the measurement period, read the values of SP8941 001 to 005.
- At the end of the measurement period, read the values of SP8941 001 to 005 again.
- Find the amount of time spent in each mode (subtract the earlier measurement from the later measurement).
- Multiply this by the power consumption spec for each mode.
- Convert the result to kWh (kilowatt hours)

Here is an example calculation.

## 7.Detailed Descriptions

Machine Date	Power Consumption (W): Data: a	SP8941: Machine Status	Start Time: (min.) Data: b	End Time: (min.) Data: c	Time Differences (Data: b - Data: c) (min.) Data: d	Power Consumption (Data: a x Data: d) (Wmin.) Data: e
Operating mode	NA: 543W EU: 565W	001: Operating Time	21089	21386	21386	NA: 161271 EU: 167805
Ready mode (stand by)	51W	002: Standby Time	306163	308046	308046	96033
Energy mode (Panel off)	1W or less	003: Energy Save Time	0	0	0	0
Low power mode	20W or less	004: Low power Time	71386	71386	75111	74500
Sleep mode	1W or less	005: Off mode Time	508776	508776	520377	11601
Total Time of Data: d (min.)					17506	
Total Time of Data: d/60min. (Hour)					291.7667	
Total Power Consumption of Data: e (Wmin.)						NA: 343405 EU: 349939
Total Power Consumption of Data: e /60min./1000W (KWH)						NA:5.72342 EU: 5.83232



**SP C360DNw, SP C360SFNw, SP  
C360SNw, SP C361SFNw  
Machine Code: M0B0, D0A0,  
D0AA, D0AB  
Appendices  
Ver 1.0**

**Latest Release: Oct, 2017  
Initial Release: Oct, 2017  
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# 1. General Specifications

## Mainframe/Printer (for MF Models)

Items	Specification	
Type	Desktop	
Memory	Standard: 2.0GB	
Photoconductor Type	OPC Drum	
Copy System	LED array and electro-photographic printing	
Development System	Dry-type single component, biaxial circulation developer system	
Fusing System	Color QSU fixing system	
Warm-up Time (23°C (73.4°F), rated voltage)	<ul style="list-style-type: none"> <li>• SP C360SFNw 61.7 seconds (If [Screen Startup Mode] is set to [Normal]) 25.1 seconds (If [Screen Startup Mode] is set to [Quick])</li> <li>• SP C361SFNw 65.5 seconds (If [Screen Startup Mode] is set to [Normal]) 25.1 seconds (If [Screen Startup Mode] is set to [Quick])</li> </ul>	
First Print Time	Black: 7.2 seconds (A4/LT SEF) Full Color: 8.6 seconds (A4/LT SEF)	
First Copy Time	Black: 14 seconds (A4 SEF, LT SEF, feeding from Tray 1) Full Color: 18 seconds (A4 SEF, LT SEF, feeding from Tray 1)	
Continuous Copy Speed	One-sided	Black: 30 cpm (A4/LT SEF) Full Color: 30 cpm (A4/LT SEF)
	Two-sided	Black: 28 cpm (A4/LT SEF) Full Color: 28 cpm (A4/LT SEF)
Continuous Print Speed	One-sided	Black: 30 ppm (A4/LT SEF) Full Color: 30 ppm (A4/LT SEF)
	Two-sided	Black: 28 ppm (A4/LT SEF) Full Color: 28 ppm (A4/LT SEF)
Paper Size *: Dial setting available	Std. Tray	A4*, B5, A5*, B6, A6*, Legal*, Letter*, HLT*, Executive, F, Foolscap, Folio, 16K, Custom size: Min.: 82.6 x 148 mm (3.25" x 5.83"), Max.: 216 x 356 mm (8.50" x 14.0")
	Bypass Tray	A4, B5, A5, B6, A6, Legal, Letter, HLT, Executive, F, Foolscap, Folio, 16K Custom size: Min.: 64 x 127 mm (2.52" x 5"), Max.: 216 x 1260 mm

## 1. General Specifications

Items	Specification	
		(8.5" x 49.6")
	Optional Tray	A4*, B5*, A5*, Legal*, Letter*, HLT*, Executive, F, Foolscap, Folio, 16K, Custom size: Min.: 139.7 x 210 mm (5.5"x8.27") Max.: 216 x 356 mm (8.50" x 14.0")
Paper Weight	<ul style="list-style-type: none"> <li>Standard Tray: 56-220g/m2</li> <li>Bypass Tray: 56-220g/m2</li> <li>Optional Tray: 56-220g/m2</li> <li>Duplex: 56-163g/m2</li> </ul>	
Paper Type	Std. Tray	Plain paper 1 to 2, Recycled paper, Middle thick paper, Thick paper 1 to 2, Thin paper, Special paper 1 to 5, Color paper, Letterhead, Preprinted, Labels, Bond, Cardstock, Coated paper: Gloss Print, Envelope
	Bypass Tray	Plain paper 1 to 2, Middle thick paper, Thick paper 1 to 2, Thin paper, Special paper 1 to 5, Color paper, Letterhead, Preprinted, Bond, Cardstock, Label paper, Coated paper, Envelope,
	Optional Tray	Plain paper 1 to 2, Middle thick paper, Thick paper 1 to 2, Thin paper, Special paper 1 to 5, Color paper, Letterhead, Preprinted, Bond, Cardstock, Label paper, Coated paper
Paper Capacity (80g/m2, 20lb.Bond)	<ul style="list-style-type: none"> <li>Standard Tray: 250 sheets</li> <li>Bypass Tray: 100 sheets</li> <li>Optional Tray: 500 sheets, 250 sheets</li> </ul> Max: Up to 850 sheets (Standard tray + Optional Tray + Bypass)	
Output Paper Capacity (80g/m2, 20lb.Bond)	Up to 200 sheets	
Edge Erase Margin	<ul style="list-style-type: none"> <li>Leading edge: 4.2 mm (0.2 inches)</li> <li>Trailing edge: 4.2 mm (0.2 inches)</li> <li>Left edge: 4.2 mm (0.2 inches)</li> <li>Right edge: 4.2 mm (0.2 inches)</li> </ul> The margin for envelopes is 15 mm (0.6 inches) for the leading edge and 10 mm (0.4 inches) for the other edges.	
Reproduction Ratio (Fixed)	NA	<ul style="list-style-type: none"> <li>Enlargement: 155%, 129%</li> <li>Full size: 100%</li> <li>Reduction: 93%, 78%, 65%</li> </ul>
	EU/AP	<ul style="list-style-type: none"> <li>Enlargement: 200%, 141%</li> <li>Full size: 100%</li> </ul>

## 1.General Specifications

Items	Specification	
		<ul style="list-style-type: none"> <li>• Reduction: 93%, 71%, 50%</li> </ul>
Reproduction Ratio (Zoom)	25 - 400% (by 1% step)	
Resolution (Print)	300x300dpi (B/W printing), 600x600dpi, 600x1200dpi equivalent, 600x2400dpi equivalent, 1200x1200dpi	
Interface	Standard: Rear <ul style="list-style-type: none"> <li>• Ethernet interface (1000BASE-T/100BASE-TX/10BASE-T) x1</li> <li>• IEEE 802.11a/b/g/n wireless LAN interface x1</li> <li>• USB 2.0-Device (Type B) x1</li> </ul> Front <ul style="list-style-type: none"> <li>• USB 2.0-Host (Type A) x1</li> <li>• SD card slot x1</li> </ul>	
Network Protocol	TCP/IP (IPv4, IPv6)	
Supported Operating System	Windows Vista/7/8.1/10, Windows Server 2008/2008 R2/2012/2012 R2/2016 OS X 10.9 or later	
Printer Language	Standard: PJL, PCL 5c/XL, IRIPS PostScript 3, MediaPrint (TIFF, IRIPS PDF)	
Font	<ul style="list-style-type: none"> <li>• PCL: 80 Roman fonts + 13 international fonts</li> <li>• IRPS PDF: 80 Roman fonts + 13 international fonts</li> <li>• IRPS PostScript 3: 80 Roman fonts + 13 international fonts</li> </ul>	
Power Source	NA	120 – 127V, 60 Hz, 9A
	EU/AP	220 – 240V, 50 / 60 Hz, 5A
Max Power Consumption	NA	1200 W
	EU/AP	1200 W
Dimensions	W × D × H (up to SPDF): 420 x 540 x 547mm (16.6 x 21.3 x 21.6 inches) When Tray 1 is extended, the depth increases by 58.6 mm (2.4 inches).	
Space for Main Unit	W×D: 420 x 754mm (16.6 x 29.7 inches): Including the bypass tray	
Weight	Approx. 41.5 kg (91.5 lb.)	



1.General Specifications

## Mainframe/Printer (for Printer Model)

Items	Specification	
Type	Desktop	
Memory	Standard: 512MB	
Photoconductor Type	OPC Drum	
Print Process	LED array and electro-photographic printing	
Development System	Dry-type single component, biaxial circulation developer system	
Fusing System	Color QSU fixing system	
Warm-up Time (23°C (73.4°F), rated voltage)	20 seconds	
First Print Time	Black: 7.2 seconds (A4/LT SEF) Full Color: 8.6 seconds (A4/LT SEF)	
Continuous Print Speed	One-sided	30 ppm (A4 SEF)
	Two-sided	28 ppm (A4 SEF)
Paper Size *: Dial setting available	Std. Tray	A4*, B5, A5*, B6, A6*, Legal*, Letter*, HLT*, Executive, F, Foolscap, Folio, 16K, Custom size: Min.: 82.6 x 148 mm (3.25" x 5.83"), Max.: 216 x 356 mm (8.50" x 14.0")
	Bypass Tray	A4, B5, A5, B6, A6, Legal, Letter, HLT, Executive, F, Foolscap, Folio, 16K Custom size:Min.: 64 x 127 mm (2.52" x 5"), Max.: 216 x 1260 mm (8.5" x 49.6")
	Optional Tray	A4*, B5*, A5*, Legal*, Letter*, HLT*, Executive, F, Foolscap, Folio, 16K, Custom size:Min.: 139.7 x 210 mm (5.5"x8.27") Max.: 216 x 356 mm (8.50" x 14.0")
Paper Weight	<ul style="list-style-type: none"> <li>• Standard Tray: 56-220g/m2</li> <li>• Bypass Tray: 56-220g/m2</li> <li>• Optional Tray: 56-220g/m2</li> <li>• Duplex: 56-163g/m2</li> </ul>	
Paper Type	Std. Tray	Plain paper 1 to 2, Recycled paper, Middle thick paper, Thick paper 1 to 2, Thin paper, Special paper 1 to 5, Color paper, Letterhead, Preprinted, Labels, Bond, Cardstock, Coated paper:

## 1.General Specifications

Items	Specification	
		Gloss Print, Envelope
	Bypass Tray	Plain paper 1 to 2, Middle thick paper, Thick paper 1 to 2, Thin paper, Special paper 1 to 5, Color paper, Letterhead, Preprinted, Bond, Cardstock, Label paper, Coated paper, Envelope,
	Optional Tray	Plain paper 1 to 2, Middle thick paper, Thick paper 1 to 2, Thin paper, Special paper 1 to 5, Color paper, Letterhead, Preprinted, Bond, Cardstock, Label paper, Coated paper
Paper Capacity (80g/m2, 20lb.Bond)	<ul style="list-style-type: none"> <li>• Standard Tray: 250 sheets</li> <li>• Bypass Tray: 100 sheets</li> <li>• Optional Tray: 500 sheets, 250 sheets</li> </ul> Max: Up to 850 sheets (Standard tray + Optional Tray + Bypass)	
Output Paper Capacity (80g/m2, 20lb.Bond)	Up to 200 sheets	
Edge Erase Margin	<ul style="list-style-type: none"> <li>• Leading edge: 4.2 mm (0.2 inches)</li> <li>• Trailing edge: 4.2 mm (0.2 inches)</li> <li>• Left edge: 4.2 mm (0.2 inches)</li> <li>• Right edge: 4.2 mm (0.2 inches)</li> </ul> The margin for envelopes is 15 mm (0.6 inches) for the leading edge and 10 mm (0.4 inches) for the other edges.	
Resolution	300x300dpi (B/W printing), 600x600dpi, 600x1200dpi equivalent, 600x2400dpi equivalent, 1200x1200dpi	
Interface	Standard: Rear <ul style="list-style-type: none"> <li>• Ethernet interface (1000BASE-T/100BASE-TX/10BASE-T) x1</li> <li>• IEEE 802.11a/b/g/n wireless LAN interface x1</li> <li>• USB 2.0-Device (Type B) x1</li> </ul> Front <ul style="list-style-type: none"> <li>• USB 2.0-Host (Type A) x1</li> </ul>	
Network Protocol	TCP/IP (IPv4, IPv6)	
Supported Operating System	Windows Vista/7/8.1/10, Windows Server 2008/2008 R2/2012/2012 R2/2016 OS X 10.9 or later	
Printer Language	Standard: PJL, PCL 5c/XL, IRIPS PostScript 3, MediaPrint (TIFF, IRIPS PDF)	
Font	80 Roman fonts + 13 international fonts	
Power Source	NA	120 – 127V, 60 Hz, 9A

## 1. General Specifications

Items	Specification	
	EU/AP	220 – 240V, 50 / 60 Hz, 5A
Max Power	NA	1200 W
Consumption	EU/AP	1200 W
Dimensions	W × D × H (up to SPDF): 400 x 515 x 360mm (15.8 x 20.3 x 14.2 inches) When Tray 1 is extended, the depth increases by 58.6 mm (2.4 inches).	
Space for Main Unit	W×D: 400 x 754mm (15.8 x 29.6 inches): Including the bypass tray	
Weight	Approx. 32.0 kg (71.0 lb.)	

**DF/Scanner (Only for MF Models)**

Items	Specification
Type	Full color Scanner
Scanning Method	Stationary original exposure type + Sheet-through SPDF
Image Sensor Type	Front side: Color CIS Back side: Color CIS
Scan Type	Sheet, book, ID card
Auto Original Size Detection	SPDF: No Exposure Glass: No
Max Original Size	<ul style="list-style-type: none"> <li>Exposure Glass: 216 × 297 mm (8.5 x 11.7 inches) (A4/LT)</li> <li>Single Pass Document Feeder (SPDF): 216 × 600 mm (8.5 x 23.6 inches) (A4/LT)</li> </ul>
SPDF Original Thickness	52 - 128 g/m <sup>2</sup> (45 - 110kg)
SPDF Original Capacity	50 sheets (80g/m <sup>2</sup> , 20 lb. Bond or less)
Original size	<ul style="list-style-type: none"> <li>Exposure Glass: Length: Up to 216 mm(8.5 inches) Width: Up to 297 mm(11.7 inches)</li> <li>ADF: Length: 105 mm to 216 mm(4.1inches to 8.5 inches) Width: 128 mm to 600 mm (5.0 inches to 23.6 inches)</li> </ul>
Scan Speed	When using the E-mail, Scan to Folder, or Scan to Removable device function: <ul style="list-style-type: none"> <li>30 ipm (200 dpi/binary image/A4 SEF)</li> <li>20 ipm (300 dpi/color image/A4 SEF)</li> </ul> (Type of Original: Text/Photo, Compression (Grey Scale/Full Color): On, Original Chart)
Grayscales	<ul style="list-style-type: none"> <li>Black and White: 2 tones</li> <li>Full color / Gray scale: 256 tones</li> </ul>
Scanning Resolution	<ul style="list-style-type: none"> <li>Basic: 200dpi</li> <li>Scan to Email: 100dpi, 200dpi, 300dpi, 400dpi, 600dpi</li> <li>Scan to Folder: 100dpi, 200dpi, 300dpi, 400dpi, 600dpi</li> <li>Network TWAIN scanner: 100 - 600dpi</li> <li>WIA scanner: 100 - 600dpi</li> </ul>
Compression Method	<ul style="list-style-type: none"> <li>Black and White: TIFF (MH, MR, MMR)</li> <li>Full color/Grayscale: JPEG</li> </ul>
Interface	<ul style="list-style-type: none"> <li>Standard:</li> </ul>

## 1.General Specifications

Items	Specification
	Ethernet (1000BASE-T, 100BASE-TX, 10BASE-T), IEEE802.11a/b/g/n (Wireless LAN), USB2.0 (Type A: Operation Panel), SD card slot (Operation Panel)
Protocol	<ul style="list-style-type: none"><li>• Network: TCP/IP</li><li>• Scan to Email: POP, SMTP, IMAP4</li><li>• Scan to Folder: SMB</li><li>• Network TWAIN scanner: TCP/IP, USB</li><li>• WIA scanner: TCP/IP, USB</li></ul>
Scan to Email/Folder Format	TIFF, JPEG, IRIPS PDF

## Supported Paper Sizes

### Paper Feed

Paper	Size (W x L)	Standard Tray	Optional Tray	Bypass Tray	Duplex
A4 SEF	210 x 297 mm	A	A	C	D
B5 SEF	182 x 257 mm	B	A	C	D
A5 SEF	148 x 210 mm	A	A	C	D
A5 LEF	210 x 148 mm	B	N	C	D
B6 SEF	128 x 182 mm	B	N	C	D
B6 LEF	182 x 128 mm	N	N	C	N
A6 SEF	105 x 148 mm	A	N	C	D
LG SEF	8.5 x 14 inch	A	A	C	D
Foolscap SEF	8.5 x 13 inch	B	B	C	D
LT SEF	8.5 x 11 inch	A	A	C	D
GovernmentLG SEF	8.25 x 14 inch	B	N	C	D
Folio SEF	8.25 x 13 inch	B	B	C	D
F/GL SEF	8 x 13 inch	B	B	C	D
Eng Quatro SEF	8 x 10 inch	B	N	C	D
Executive SEF	7.25 x 10.5 inch	B	B	C	D
HLT SEF	5.5 x 8.5 inch	A	A	C	D
HLT LEF	8.5 x 5.5 inch	N	N	C	N
Com10 SEF	4.125 x 0.5 inch	B	N	C	N
Monarch SEF	3.875 x 7.5 inch	B	N	C	N
C5 SEF	162 x 229 mm	B	N	C	N
C6 SEF	114 x 162 mm	B	N	C	N
DL SEF	110 x 220 mm	B	N	C	N
16K SEF	195 x 267 mm	B	B	C	D
8.5" x 12" SEF	8.5 x 12 inch	B	B	C	D
8.5" x 13.4" SEF	8.5 x 13.4 inch	B	B	C	D

### Remarks: Standard Tray, Optional Tray

A	Supported and the size is molded in the tray. Need to set the dial to the paper size and select the paper size by driver.
B	Supported but size is not molded in the tray. Need to set the dial "*" and select the paper size by operation panel and driver.
N	Not supported.

## 1.General Specifications

### Remarks: Bypass Tray

C	Supported. Need to select the Bypass Tray and the paper size on operation panel and driver.
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### Remarks: Duplex

D	Supported.
N	Not supported.

### Custom Paper Size

Size	Standard Tray	Optional Tray	Bypass Tray	Duplex
Width (mm)	82.6 - 216.0	139.7- 216.0	64 - 216	100 - 216
Length (mm)	148 - 356	210 - 356	127 - 1260	148 - 356
Width (inch)	3.25 - 8.50	5.5 - 8.5	2.52 - 8.50	3.94 - 8.50
Length (inch)	5.83 - 14.00	8.27 - 14.00	5.0 - 49.6	5.83 - 14.00

### Paper Exit

Paper	Size (W x L)	Output Tray
A4 SEF	210 x 297 mm	D
B5 SEF	182 x 257 mm	D
A5 SEF	148 x 210 mm	D
A5 LEF	210 x 148 mm	D
B6 SEF	128 x 182 mm	D
B6 LEF	182 x 128 mm	D
A6 SEF	105 x 148 mm	D
LG SEF	8.5 x 14 inch	D
Foolscap SEF	8.5 x 13 inch	D
LT SEF	8.5 x 11 inch	D
GovermentLG SEF	8.25 x 14 inch	D
Folio SEF	8.25 x 13 inch	D
F/GL SEF	8 x 13 inch	D
Eng Quatro SEF	8 x 10 inch	D
Exective SEF	7.25 x 10.5 inch	D
HLT SEF	5.5 x 8.5 inch	D
HLT LEF	8.5 x 5.5 inch	D
Com10 SEF	4.125 x 0.5 inch	D
Monarch SEF	3.875 x 7.5 inch	D
C5 SEF	162 x 229 mm	D
C6 SEF	114 x 162 mm	D
DL SEF	110 x 220 mm	D



## 1.General Specifications

Paper	Size (W x L)	Output Tray
16K SEF	195 x 267 mm	D
8.5" x 12" SEF	8.5 x 12 inch	D
8.5" x 13.4" SEF	8.5 x 13.4 inch	D

### Remarks: Output Tray

D	Supported.
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### Custom Paper Size

Size	Output Tray
Width (mm)	64 - 216
Length (mm)	127 - 1260
Width (inch)	2.52 - 8.50
Length (inch)	5.0 - 49.6

## Software Accessories

The printer drivers and utility software are provided on one CD-ROM. An auto-run installer lets you select the components you want to install.

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### Printer Drivers

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For printing, install a printer driver on your computer. The following drivers are included on the CD-ROM:

Operating System*1	Printer Drivers		
	PCL 5c	PCL 6	PostScript 3
Windows Vista *2	✓	✓	✓
Windows 7 *3	✓	✓	✓
Windows 8.1 *4	✓	✓	✓
Windows 10 *5	✓	✓	✓
Windows Server 2008 *6	✓	✓	✓
Windows Server 2008 R2 *7	✓	✓	✓
Windows Server 2012 *8	✓	✓	✓
Windows Server 2012 R2 *9	✓	✓	✓
Windows Server 2016 *10	✓	✓	✓
Macintosh OS *11	-	-	✓

✓: Supported

- : Not Supported

\*1 Printer drivers support both 32-bit and 64-bit Windows.

\*2 Microsoft Windows Vista Ultimate/Microsoft Windows Vista Enterprise/Microsoft Windows Vista Business/Microsoft Windows Vista Home Premium/Microsoft Windows Vista Home Basic

\*3 Microsoft Windows 7 Home Premium/Microsoft Windows 7 Professional/Microsoft Windows 7 Ultimate/Microsoft Windows 7 Enterprise

\*4 Microsoft Windows 8.1 Standard/Microsoft Windows 8.1 Professional/Microsoft Windows 8.1 Enterprise

\*5 Microsoft Windows 10 Home/Microsoft Windows 10 Pro/Microsoft Windows 10 Enterprise/ Microsoft Windows 10 Education

\*6 Microsoft Windows Server 2008 Standard/Microsoft Windows Server 2008 Enterprise

\*7 Microsoft Windows Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise

\*8 Microsoft Windows Server 2012 Foundation/Microsoft Windows Server 2012 Essentials/ Microsoft Windows Server 2012 Standard

\*9 Microsoft Windows Server 2012 R2 Foundation/Microsoft Windows Server 2012 R2 Essentials/ Microsoft Windows Server 2012 R2 Standard

\*10 Microsoft Windows Server 2016 Essentials/ Microsoft Windows Server 2016 Standard/Microsoft Windows Server 2016 Datacenter/Microsoft Windows Server 2016 MultiPoint Premium Server

\*11 OS X 10.9 or later

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## Scanner and LAN Fax Drivers

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### Operating system for TWAIN driver:

Windows Vista/7/8.1/10, Windows Server 2008/2008 R2/2012/2012 R2/2016

(TWAIN scanner runs in 32-bit compatible mode on a 64-bit operating system, so TWAIN scanner is not compatible with 64-bit applications. Use it with 32-bit applications.)

### Operating system for WIA driver:

Windows Vista/7/8.1/10, Windows Server 2008/2008 R2/2012/2012 R2/2016

(WIA scanner can function under both 32- and 64-bit operating systems.)

### Operating system for LAN FAX driver:

Windows Vista/7/8.1/10, Windows Server 2008/2008 R2/2012/2012 R2/2016

#### Note

- The LAN Fax driver lets you fax documents directly from your PC. Address Book Editor, Cover Sheet Editor, and MFP Address Book Downloader are to be installed as well.

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## Utility Software

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The following utilities are available.

Software	Description
Device Manager NX Lite	A PC Client based application program that monitors and manages up to 250 networked print devices.
Device Manager NX Accounting	
Remote Communication Gate A	A communication device that enables digital MFPs and printers to be connected to the communication server in the maintenance center.

## Optional Equipment

### Paper Feed Unit TK1230 (M407)

Capacity	250 sheets × 1 tray
Paper Weight	56-220g/m <sup>2</sup> (16-59lb)
Paper Size	A4*, B5*, A5*, Legal*, Letter*, HLT*, Executive, F, Foolscap, Folio, 16K, 8.5"x12", 8.5"x13.4" Custom size: Min. 139.7mm x 210mm (5.5"x8.27") Max. 216mm x 356mm (8.50" x 14.0")
Dimensions (W x D x H)	400 x 515 x 95 mm
Weight	5.6kg

\* Supported and the size is automatically detected

### Paper Feed Unit TK1240 (M408)

Capacity	500 sheets x 1 tray
Paper Weight	56-220g/m <sup>2</sup> (16-59lb)
Paper Size	A4*, B5*, A5*, Legal*, Letter*, HLT*, Executive, F, Foolscap, Folio, 16K, 8.5"x12", 8.5"x13.4" Custom size: Min. 139.7mm x 210mm (5.5"x8.27") Max. 216mm x 356mm (8.50" x 14.0")
Dimensions (W x D x H)	400 × 515 × 123 mm (15.8 × 20.3 × 4.9 inches)
Weight	6.1kg

\* Supported and the size is automatically detected

### Controller Options

- NFC Card Reader Type P14 (only for SP C361SFNw)
- Handset HS1010 (only for MF models for NA)

## 2. PM Tables

### Preventive Maintenance

#### User Replaceable Items

Item	Yield
PCDU	BK: Approx. 15K prints/unit CMY: Approx. 12K prints/unit
Fusing Unit	Approx. 150k prints/unit
Image Transfer Belt Unit	Approx. 100k prints/unit
Paper Transfer Roller Unit	Approx. 100k prints/unit
Air Filter	Approx. 100K prints
Waste Toner Bottle	Approx. 13K prints

#### Condition:

1. An A4 (8.5"x11")/ 5% chart is used.
2. The condition is standard temperature and humidity.
3. These replacement timings may change depending on the circumstances and printing conditions.
4. The replacement timings are measured at 3P/J.
5. Color ratio:
  - 50% (printer model)
  - 40% (MF models)

#### Toner Cartridge

Toner cartridge type	Average number of printable pages per cartridge *1
Black (Low yield)	2,500 pages
Cyan, Magenta, Yellow (Low yield)	1,500 pages
Black	7,000 pages
Cyan, Magenta, Yellow	5,000 pages
Black	10,000 pages *2
Cyan, Magenta, Yellow	9,000 pages *2

\*1 The number of printable pages is based on pages that are compliant with ISO/IEC 19798 with the image density set as the factory default. ISO/IEC 19798 is an international standard for measurement of printable pages, set by the International Organization for Standardization.

\*2 Large-size Cartridge (only for MF2b)

## 2.PM Tables

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### Yield Items

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The following items are not user replaceable items. However, replacement at its yield is required for the following items to maintain the printing operation.

Item	Yield
Paper Feed Roller (Mainframe & Optional)	Approx. 180k prints
Friction Pad (Optional)	Approx. 180k prints
Paper Feed Roller (Bypass)	Approx. 100k prints
Friction Pad (Bypass)	Approx. 100k prints
Feed Roller (SPDF)	Approx. 45k *
Pick-up Roller (SPDF)	Approx. 30k *
Friction Pad (SPDF)	Approx. 30k *

\*: This is the number of "originals", where each original consists of 2 sheets (C/O=2).

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### Service Maintenance

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To enable the machine for the maintenance by the service technician, the meter-click charge mode must be set to "1 (On)" with SP5930-001.

Also, make the following settings for meter-click charge mode depending on the type of service contract: SP5930-010, 014, 016 (Supply End Option.), SP1007-002, 004, 006 (PDCU, Image Transfer Belt, Fusing Unit: Remaining Supply Display), SP5083 (LED Light Switch)

PM items serviced by the service technician are designated as user replaceable items and yield items. The following table shows the expected yield values for PM items when replacing them by the service technician with the meter-charge mode on.

Item	Yield
PCDU	BK: Approx. 23K prints/unit CMY: Approx. 18K prints/unit
Fusing Unit	180K prints/unit
Image Transfer Belt Unit	115K prints/unit
Paper Transfer Roller Unit	115K prints/unit
Air Filter	115K prints
Waste Toner Bottle	13K prints

The replacement timing for customer maintenance is set earlier than the target yield for service maintenance in order to ensure that the parts of the machine are replaced before an image problem occurs.

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### Preventive Maintenance Items

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Chart: A4 (LT)/5%

Mode: 3 prints/job

Ratio: 50%

Environment: Normal temperature and humidity

Yield may change depending on circumstances and print conditions.

Symbol keys: C: Clean, R: Replace, L: Lubricant, I: Inspect

#### Preventive Maintenance Items

Item	100K	180K	EM	Remarks
<b>Optics</b>				
LED lens cleaning			C	Clean when replacing the PCDU
<b>Paper Feed</b>				
Paper Feed Roller	C	R		Damp cloth, dry cloth
Friction Pad	C	R		Dry cloth
Registration Roller	C			Damp cloth, dry cloth Do not use alcohol
Registration Sensor	C			Blower brush, dry cloth
Vertical Transport Roller	C			Blower brush, dry cloth
Bypass Feed Roller	R/C			Damp cloth, dry cloth
Bypass Friction Pad	R/C			Dry cloth
<b>Paper Path</b>				
Paper Exit Roller	C			Damp cloth, dry cloth
Reverse Roller	C			Damp cloth, dry cloth
Reverse Intermediate Roller	C			Damp cloth, dry cloth
Fusing Entrance Sensor	C			Blower brush, dry cloth
<b>Duplex</b>				
Duplex Entrance Roller	C			Damp cloth, dry cloth
Duplex Intermediate Roller	C			Damp cloth, dry cloth
Duplex Exit Roller	C			Damp cloth, dry cloth

#### Preventive Maintenance Items (Only for MF Models)

#### ADF

Item	100K	180K	EM	Remarks
Pick-up Roller			R/C	Damp cloth, dry cloth
Feed Roller			R/C	Damp cloth, dry cloth
Friction Pad			R/C	Dry cloth
Pull-out Roller			R/C	Damp cloth, dry cloth
Pre-scanning Roller				
ADF Exit Roller				



## 2.PM Tables

Item	100K	180K	EM	Remarks
ADF Paper Exit Roller				
Various Idle Rollers			R/C	Damp cloth, dry cloth

### Scanner Unit

Item	100K	180K	EM	Remarks
Platen	C		R/C	Dry cloth
Exposure glass	C		R/C	Dry cloth
ADF exposure glass	C		R/C	Dry cloth

## 3.SP Mode Tables (Common for both MF Models and Printer Model)

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### Service Table Key

Notation	What it means
ENG	Engine SP
CTL	Controller SP
[Min to Max/Init./Step]	Example: [-9 to 9 / 0 / 0.1mm]. The setting can be adjusted in the range $\pm 9$ , value reset to 0 after an NVRAM reset, and the value can be changed in 0.1 mm steps with each key press.
*	Value stored in NVRAM. After a RAM reset, this default value (factory setting) is restored.

## Input and Output Check

Input Check Table

5803	[INPUT CHECK]		
5-803-001	PSIZE&TRYSET	ENG	[0 to 15 / <b>0</b> / 1/step] 0: A4 SEF 1: LT SEF 2: A5 SEF 3: Custom 4: A6 SEF 5: HLT SEF 6: LG SEF 7: Tray not set 8 to 15: Not used
5-803-004	PAPEND_SNS	ENG	[0 or 1 / <b>0</b> / 1/step] Displays the status of the by-pass paper end sensor. 0: paper end 1: paper remaining
5-803-005	HANDBP_SNS	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Base plate goes down 1: Base plate goes up
5-803-006	HAND_SNS	ENG	[0 or 1 / <b>0</b> / 1/step] 0: No paper detected
5-803-008	PAPOUT_SNS	ENG	1: Paper detected
5-803-009	PEFUL_SNS	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Paper not full 1: Paper full
5-803-010	PAPERON_SNS	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Paper detected
5-803-013	DUP_SNS	ENG	1: No paper detected
5-803-015	REG_SNS	ENG	
5-803-018	TE_SNS_K	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Toner remaining
5-803-019	TE_SNS_C	ENG	1: Toner end

3.SP Mode Tables (Common for both MF Models and Printer Model)

5-803-020	TE_SNS_M	ENG	
5-803-021	TE_SNS_Y	ENG	
5-803-024	INTERLOCK_+24VS1	ENG	[0 or 1 / 0 / 1/step] 0: +24VS1 On 1: +24VS1 Off
5-803-025	INTERLOCK_+24VS2	ENG	[0 or 1 / 0 / 1/step] 0: +24VS2 On 1: +24VS2 Off
5-803-026	+5V_LED	ENG	[0 or 1 / 0 / 1/step] 0: +5VS On 1: +5VS Off
5-803-032	TONERBTLSET_SNS	ENG	[0 or 1 / 0 / 1/step] Displays the status of the waste toner bottle set sensor. 0: Set 1: Not set
5-803-033	TONERFUL_SNS	ENG	[0 or 1 / 0 / 1/step] Displays the status of the waste toner overflow sensor. 0: Not full 1: Full
5-803-034	MIDNEW_SNS	ENG	[0 or 1 / 0 / 1/step] 0: Used 1: New
5-803-035	MINFAN_LOCK	ENG	[0 or 1 / 0 / 1/step] 0: Normal 1: Error
5-803-036	FUFAN_LOCK	ENG	[0 or 1 / 0 / 1/step] 0: Normal 1: Error
5-803-037	PSUFAN_LOCK	ENG	[0 or 1 / 0 / 1/step] 0: Normal 1: Error
5-803-048	MID_TCSP_SNS	ENG	[0 or 1 / 0 / 1/step] 0: Abutting 1: Spaced
5-803-050	BWMT_LOCK	ENG	[0 or 1 / 0 / 1/step] 0: Normal

3.SP Mode Tables (Common for both MF Models and Printer Model)

5-803-051	FUMT_LOCK	ENG	1: Error
5-803-052	COLMT_LOCK	ENG	
5-803-053	MIDMT_LOCK	ENG	
5-803-055	HVP_ERR_1	ENG	[0 or 1 / 0 / 1/step] Indicates the state of the error signal from high voltage output of charging and development. If the error is detected, it returns SC490-00. 0: Error 1: Normal
5-803-056	HVP_ERR_2	ENG	[0 or 1 / 0 / 1/step] Indicates the state of the error signal from high voltage output of 1st and 2nd transfer. If the error is detected, it returns SC490-01. 0: Abutting 1: Spaced
5-803-058	FUNEW_SNS	ENG	[0 or 1 / 0 / 1/step] 0: Used 1: New
5-803-060	FUSET_SNS	ENG	[0 or 1 / 0 / 1/step] 0: Set 1: Not set
5-803-062	FUCOMP	ENG	[0 or 1 / 0 / 1/step] 0: Off 1: High temp. detected
5-803-072	EGB_VER	ENG	[0 to 15 / 0 / 1/step] Increases 1 if version is increased.
5-803-073	EGB_TYPE	ENG	[0 to 15 / 0 / 1 /step] 0: GW 1: KIBO
5-803-077	BANK_PE_SNS1	ENG	[0 or 1 / 0 / 1/step] 0: paper end 1: paper remaining
5-803-078	BANK_PE_SNS2	ENG	
5-803-079	BANK_PE_SNS3	ENG	

3.SP Mode Tables (Common for both MF Models and Printer Model)

5-803-080	BANK_FEED_SNS1	ENG	[0 or 1 / <b>0</b> / 1/step] 0: No paper detected 1: Paper detected
5-803-081	BANK_FEED_SNS2	ENG	
5-803-082	BANK_FEED_SNS3	ENG	
5-803-083	BANK_500/250_1	ENG	[0 or 1 / <b>0</b> / 1/step] Indicates first stage (tray 2) is 500 sheets tray. 0: 500 1: Not used
5-803-084	BANK_500/250_2	ENG	[0 or 1 / <b>0</b> / 1/step] Indicates second stage (tray 3) is 500 sheets tray. 0: 500 1: Not used
5-803-085	BANK_500/250_3	ENG	[0 or 1 / <b>0</b> / 1/step] Indicates third stage (tray 4) is 500 sheets tray. 0: 500 1: Not used
5-803-086	BANK_PSIZE_1	ENG	[0 to 15 / <b>0</b> / 1/step] 0: A3 SEF 1: B4 SEF 2: A4 SEF 3: A4 LEF 4: B5 SEF 5: B5 LEF 6: A5 SEF 9: DLT SEF 10: LG SEF 11: LT SEF 12: LT LEF 14: Custom 15: Tray not set
5-803-087	BANK_PSIZE_2	ENG	
5-803-088	BANK_PSIZE_3	ENG	
5-803-089	BANK_SET	ENG	
5-803-090	BANK_MT_LOCK_1	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Normal 1: Error
5-803-091	BANK_MT_LOCK_2	ENG	
5-803-	BANK_MT_LOCK_3	ENG	

3.SP Mode Tables (Common for both MF Models and Printer Model)

092			
5-803-100	PCDUNEW_SNS_K	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Used
5-803-101	PCDUNEW_SNS_C	ENG	1: New
5-803-102	PCDUNEW_SNS_M	ENG	
5-803-103	PCDUNEW_SNS_Y	ENG	
5-803-104	PCDUSET_SNS_K	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Set
5-803-105	PCDUSET_SNS_C	ENG	1: Not set
5-803-106	PCDUSET_SNS_M	ENG	
5-803-107	PCDUSET_SNS_Y	ENG	
5-803-116	Temperature	ENG	[0 to 999 / <b>0</b> / 1 deg/step] Displays current temperature.
5-803-117	Relative Humidity	ENG	[0 to 999 / <b>0</b> / 1 %RH/step] Displays current relative humidity.
5-803-118	Absolute Humidity	ENG	[0.00 to 99.99 / <b>0.00</b> / 0.01 %RH/step] Displays current absolute humidity.
5-803-200	Scanner HP Sensor (MF models only)	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off  1: On
5-803-201	Platen Sensor (MF models only)	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Closed 1: Open
5-803-202	DFP Sensor (MF models only)	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off  1: On

<b>6011</b>	<b>[ADF INPUT Check]</b>
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3.SP Mode Tables (Common for both MF Models and Printer Model)

6-011-009	Original Detection:Side	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Not detected 1: Detected
6-011-010	Feed After sensor	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Not detected 1: Detected
6-011-013	Regist Sensor	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Not detected 1: Detected
6-011-015	Feed Cover Sensor	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Not detected 1: Detected
6-011-017	Manual Set Sensor	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Not detected 1: Detected

Output Check Table

5804	[OUTPUT CHECK]		
5-804-003	BWMT_Plain	ENG	[0 or 1 / <b>0</b> / 1/step] When using this SP, remove Bk toner cartridge / Bk PCDU. Toner may contaminate inside of the machine.
5-804-004	BWMT_Thick1	ENG	
5-804-005	BWMT_Thick2	ENG	
5-804-010	FUMT_Plain	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-011	FUMT_Thick1	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-013	FUMT_Thick2	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-	COLMT_Plain	ENG	[0 or 1 / <b>0</b> / 1/step] When using this SP, remove FC (CMY) toner cartridge / FC



3.SP Mode Tables (Common for both MF Models and Printer Model)

017			(CMY) PCDU. Toner may contaminate inside of the machine.
5- 804- 018	COLMT_Thick1	ENG	
5- 804- 019	COLMT_Thick2	ENG	
5- 804- 024	MIDMT_Plain	ENG	[0 or 1 / <b>0</b> / 1/step] When using this SP, remove all toner cartridges / all PCDU. This may damage PCDU and transfer belt, and would affect printing images.
5- 804- 025	MIDMT_Thick1	ENG	
5- 804- 026	MIDMT_Thick2	ENG	
5- 804- 035	FEEDMT_1TCSP	ENG	[0 or 1 / <b>0</b> / 1/step] Revolve using transected motor speed of the 1st transfer. When using this SP, remove all toner cartridges / all PCDU. This may damage PCDU and transfer belt, and would affect printing images.
5- 804- 036	FEEDMT_HANDBP	ENG	[0 or 1 / <b>0</b> / 1/step] To lift manual feed base plate, reverse drive paper transfer motor, and rotate at a speed for lifting. When using this SP, remove all toner cartridges / all PCDU. This may damage PCDU and transfer belt, and would affect printing images.
5- 804- 039	REG_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 040	MID_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 041	PAP_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 042	HAND_CL	ENG	[0 or 1 / <b>0</b> / 1/step]

3.SP Mode Tables (Common for both MF Models and Printer Model)

5- 804- 043	DUP_MID_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 044	DUP_OUT_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 046	PAPOUT_SOL	ENG	[0 or 1 / <b>0</b> / 1/step] Drives solenoid for the idler gear to reverse drive paper exit roller. 0: Off 1: On – idler gear works to transfer the paper to the duplex unit. Do not turn on more than a minute, this might damage the machine because of the high heat.
5- 804- 047	HAND_BP_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 083	1TCSP_CL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 091	TN_CL_K	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 092	TN_CL_C	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 093	TN_CL_M	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 094	TN_CL_Y	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 100	MIN_FAN_H	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 101	MIN_FAN_L	ENG	[0 or 1 / <b>0</b> / 1/step]
5-	FU_FAN_H	ENG	[0 or 1 / <b>0</b> / 1/step]

3.SP Mode Tables (Common for both MF Models and Printer Model)

804-102			
5-804-103	FU_FAN_L	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-107	PSU_FAN_H	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-108	PSU_FAN_L	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-130	HVP_C_K	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -1100V There is no SP to change output voltage. When turning this ON, make sure to remove Bk toner cartridge and Bk PCDU. OPC Drum might be scratched by the discharge. SP5804-147 must be ON to output voltage.
5-804-131	HVP_C_C	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -1100V There is no SP to change output voltage. When turning this ON, make sure to remove Cy toner cartridge and Cy PCDU. OPC Drum might be scratched by the discharge. SP5804-148 must be ON to output voltage.
5-804-132	HVP_C_M	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -1100V There is no SP to change output voltage. When turning this ON, make sure to remove Ma toner cartridge and Ma PCDU. OPC Drum might be scratched by the discharge. SP5804-148 must be ON to output voltage.
5-804-133	HVP_C_Y	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -1100V There is no SP to change output voltage. When turning this ON, make sure to remove Ye toner cartridge

### 3.SP Mode Tables (Common for both MF Models and Printer Model)

			and Ye PCDU. OPC Drum might be scratched by the discharge. SP5804-148 must be ON to output voltage.
5- 804- 134	HVP_DV_K	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -200V There is no SP to change output voltage. SP5804-147 must be ON to output voltage.
5- 804- 135	HVP_DV_C	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -200V
5- 804- 136	HVP_DV_M	ENG	There is no SP to change output voltage. SP5804-148 must be ON to output voltage.
5- 804- 137	HVP_DV_Y	ENG	
5- 804- 138	HVP_DV_+	ENG	[0 or 1 / <b>0</b> / 1/step] 0:OFF 1:ON
5- 804- 139	HVP_T1_K	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output +1000V There is no SP to change output voltage.
5- 804- 143	HVP_T2_+	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output +30uA There is no SP to change output value.
5- 804- 144	HVP_T2_-	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – Output -800V There is no SP to change output voltage.
5- 804- 147	HVP_BION_BK	ENG	[0 or 1 / <b>0</b> / 1/step] SP to output charging and development for Bk. This SP must be “ON” to enable SP5804-130 / SP5804-134 to output voltage.
5- 804- 148	HVP_BION_COL	ENG	[0 or 1 / <b>0</b> / 1/step] SP to output charging and development for Bk. This SP must be “ON” to enable SP5804-135 to SP5804-137

### 3.SP Mode Tables (Common for both MF Models and Printer Model)

			to output voltage.
5- 804- 185	TM_0	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 186	TM_1	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 190	QLON_BK	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 191	QLON_COL	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 224	BANK_MT1:Plain	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 225	BANK_MT1:Thick1	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 226	BANK_MT1:Thick2	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 227	BANK_MT2:Plain	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 228	BANK_MT2:Thick1	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 229	BANK_MT2:Thick2	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 230	BANK_MT3:Plain	ENG	[0 or 1 / <b>0</b> / 1/step]
5- 804- 231	BANK_MT3:Thick1	ENG	[0 or 1 / <b>0</b> / 1/step]
5-	BANK_MT3:Thick2	ENG	[0 or 1 / <b>0</b> / 1/step]

3.SP Mode Tables (Common for both MF Models and Printer Model)

804-232			
5-804-239	BANK_PAP_CL1	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-240	BANK_PAP_CL2	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-241	BANK_PAP_CL3	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-242	BANK_FEED_CL1	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-243	BANK_FEED_CL2	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-244	BANK_FEED_CL3	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-248	ON_DEMAND_2	ENG	[0 or 1 / <b>0</b> / 1/step] Do not execute.
5-804-249	MIDFU_NEWON	ENG	[0 or 1 / <b>0</b> / 1/step] 0: Off 1: On – flows current to cut the new detection fuse of the Fusing unit. This SP only flows current, no new detection control is working.
5-804-250	PCDU_NEWON	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-251	TEON_BK	ENG	[0 or 1 / <b>0</b> / 1/step]
5-804-252	TEON_COL	ENG	[0 or 1 / <b>0</b> / 1/step]
5-	UPCOVER_SOL	ENG	[0 or 1 / <b>0</b> / 1/step]

3.SP Mode Tables (Common for both MF Models and Printer Model)

804-253			<p>This SP controls shutter to supply toner to PCDU from toner cartridge.</p> <p>If top cover is opened, it is a spec not to open shutter. Must to hear the sound to check if this solenoid is working.</p> <p>When using this SP, remove all toner cartridge / PCDU. Toner may contaminate inside of the machine.</p>
5-804-254	5V_TMP_ON	ENG	<p>[0 or 1 / 0 / 1/step]</p> <p>This SP supplies power to the thermopile to check the surface temperature of fusing belt.</p> <p>Design analysis use only. Controlling this SP might damage the thermopile.</p>
5-804-255	BankSerialComm	ENG	<p>[0 or 1 / 0 / 1/step]</p>

<b>6012</b>	<b>[ADF OUTPUT Check]</b>		
6-012-003	Motor Forward	ENG	[0 or 1 / 0 / 1/step]
6-012-004	Motor Reverse	ENG	[0 or 1 / 0 / 1/step]
6-012-014	Feed Clutch	ENG	[0 or 1 / 0 / 1/step]

## Test Pattern Printing

After changing an SP value for registration or image adjustment, print a test pattern to check the adjustment result.

### Note

- Some of these test patterns are used for print image adjustments but most are used primarily for design testing.
- Do not operate the machine until the test pattern is printed out completely. Otherwise, an SC occurs.

1. Enter the SP mode.
2. Select **SP5-903-005**.
3. Enter the number for the test pattern that you want to print and press [OK].
4. Enter the SP5-903-001 to 008 and modify the test print parameters below if needed:

**SP5-903-001: Feed Tray**

**SP5-903-002: Duplex Setting**

**SP5-903-003: Paper Size**

**SP5-903-004: Color Mode**

**SP5-903-006: Paper Kind**

**SP5-903-007: Print Page**

**SP5-903-008: Freerun Setting**

5. Enter SP-5-903-009 and touch “Execute” to print test pattern.
6. After checking the test pattern, reset SP5-903-005 to “0: None”
7. Exit the SP mode.

No	Pattern	No	Pattern
0	None	8	S Grid
1	V1 Line	9	20mm Grid
2	H1 Line	10	1 by 1
3	V2 Line	11	2 by 2
4	H2 Line	12	4 by 4
5	V Grid	13	Full dot
6	H Grid	14	Belt
7	20mm Grid	-	-



## 4.SP Mode Tables (for Printer Model)

### Engine SP Tables

#### SP1-XXX (Feed)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-001	Leading Edge Reg	Tray1	ENG*	[0 to 9 / 0 / 0.1mm]
1-001-002	Leading Edge Reg	By-pass	ENG*	[0 to 9 / 0 / 0.1mm]
1-001-003	Leading Edge Reg	Duplex	ENG*	[0 to 9 / 0 / 0.1mm]
1-001-004	Leading Edge Reg	Tray2	ENG*	[0 to 9 / 0 / 0.1mm]
1-001-005	Leading Edge Reg	Tray3	ENG*	[0 to 9 / 0 / 0.1mm]
1-001-006	Leading Edge Reg	Tray4	ENG*	[0 to 9 / 0 / 0.1mm]
1-001-013	Leading Edge Reg	Tray1:Std Spd	ENG*	[-9 to 9 / 1.4 / 0.1mm]
1-001-014	Leading Edge Reg	Tray1:Mid SpdA	ENG*	[-9 to 9 / 2.3 / 0.1mm]
1-001-015	Leading Edge Reg	Tray1:Low Mid SpdB	ENG*	[-9 to 9 / 3.2 / 0.1mm]
1-001-016	Leading Edge Reg	By-pass:Std Spd	ENG*	[-9 to 9 / 1.9 / 0.1mm]
1-001-017	Leading Edge Reg	By-pass:Mid SpdA	ENG*	[-9 to 9 / 3.2 / 0.1mm]
1-001-018	Leading Edge Reg	By-pass:Mid SpdB	ENG*	[-9 to 9 / 4.1 / 0.1mm]
1-001-019	Leading Edge Reg	Duplex:Std Spd	ENG*	[-9 to 9 / 1.9 / 0.1mm]
1-001-020	Leading Edge Reg	Duplex:Mid SpdA	ENG*	[-9 to 9 / 3.4 / 0.1mm]
1-001-021	Leading Edge Reg	Duplex:Mid SpdB	ENG*	[-9 to 9 / 0 / 0.1mm]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-022	Leading Edge Reg	Tray2/3/4:Std Spd	ENG*	[-9 to 9 / 0.9 / 0.1mm]
1-001-023	Leading Edge Reg	Tray2/3/4:Mid SpdA	ENG*	[-9 to 9 / 1.9 / 0.1mm]
1-001-024	Leading Edge Reg	Tray2/3/4:Mid SpdB	ENG*	[-9 to 9 / 1.9 / 0.1mm]
1-002-001	Side-to-Side Reg	Tray1	ENG*	[-5 to 5 / 0 / 0.1mm]
1-002-002	Side-to-Side Reg	By-pass	ENG*	[-5 to 5 / 0 / 0.1mm]
1-002-003	Side-to-Side Reg	Duplex	ENG*	[-5 to 5 / 0 / 0.1mm]
1-002-004	Side-to-Side Reg	Tray2	ENG*	[-5 to 5 / -1.1 / 0.1mm]
1-002-005	Side-to-Side Reg	Tray3	ENG*	[-5 to 5 / -1 / 0.1mm]
1-002-006	Side-to-Side Reg	Tray4	ENG*	[-5 to 5 / -1 / 0.1mm]
1-003-001	Paper Buckle	Tray1:Std Spd	ENG*	[-9 to 9 / -0.5 / 0.1mm]
1-003-002	Paper Buckle	Tray1:Mid SpdA	ENG*	[-9 to 9 / -1 / 0.1mm]
1-003-003	Paper Buckle	Tray1:Mid SpdB	ENG*	[-9 to 9 / 0 / 0.1mm]
1-003-004	Paper Buckle	By-pass:Std Spd	ENG*	[-9 to 9 / 1.5 / 0.1mm]
1-003-005	Paper Buckle	By-pass:Mid SpdA	ENG*	[-9 to 9 / -1 / 0.1mm]
1-003-006	Paper Buckle	By-pass:Mid SpdB	ENG*	[-9 to 9 / -1 / 0.1mm]
1-003-007	Paper Buckle	Duplex:Std Spd	ENG*	[-9 to 9 / -0.5 / 0.1mm]
1-003-008	Paper Buckle	Duplex:Mid SpdA	ENG*	[-9 to 9 / -1 / 0.1mm]
1-003-009	Paper Buckle	Duplex::Mid SpdB	ENG*	[-9 to 9 / 0 / 0.1mm]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-003-010	Paper Buckle	Tray2/3/4:Std Spd	ENG*	[-9 to 9 / -1 / 0.1mm]
1-003-011	Paper Buckle	Tray2/3/4:Mid SpdA	ENG*	[-9 to 9 / 0 / 0.1mm]
1-003-012	Paper Buckle	Tray2/3/4:Mid SpdB	ENG*	[-9 to 9 / 0 / 0.1mm]
1-004-001	Feed Assist Mode	Execute Pattern	ENG*	[0 to 1 / 0 / 1]
1-004-002	Feed Assist Mode	Tray1	ENG*	[0 to 3 / 0 / 1]
1-004-003	Feed Assist Mode	By-pass	ENG*	[0 to 3 / 0 / 1]
1-004-005	Feed Assist Mode	Affter Jam	ENG*	[0 to 1 / 0 / 1]
1-004-006	Feed Assist Mode	Lower ppm	ENG*	[60 to 99 / 60 / 1%]
1-101-001	Reload Permit Set	Idling Start Temp	ENG*	[50 to 60 / 50 / 1deg]
1-101-002	Reload Permit Set	ReloadTemp:Center	ENG*	[120 to 155 / 140 / 1deg]
1-101-003	Reload Permit Set	ReloadTemp:Press	ENG*	[50 to 80 / 70 / 1deg]
1-101-004	Reload Permit Set	Delta:Cld:Ctr	ENG*	[20 to 50 / 20 / 1deg]
1-101-005	Reload Permit Set	Delta:Cld:End	ENG*	[55 to 80 / 80 / 1deg]
1-101-006	Reload Permit Set	Delta:Cld:PrssCtr	ENG*	[0 to 30 / 30 / 1deg]
1-101-007	Reload Permit Set	Rotation Time:Cld	ENG*	[0 to 10 / 2 / 0.1sec]
1-101-008	Reload Permit Set	Delta:Hot:Ctr	ENG*	[20 to 50 / 30 / 1deg]
1-101-009	Reload Permit Set	Delta:Hot:End	ENG*	[55 to 70 / 55 / 1deg]
1-101-010	Reload Permit Set	Delta:Hot:PrssCtr	ENG*	[0 to 30 / 20 / 1deg]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-101-011	Reload Permit Set	Rotation Time:Hot	ENG*	[0 to 10 / 2 / 0.1sec]
1-101-012	Reload Permit Set	Delta:BW1:Ctr	ENG*	[20 to 50 / 20 / 1deg]
1-101-013	Reload Permit Set	Delta:BW1:End	ENG*	[55 to 80 / 80 / 1deg]
1-101-014	Reload Permit Set	Delta:BW1:PrssCtr	ENG*	[0 to 30 / 30 / 1deg]
1-101-015	Reload Permit Set	Rotation Time:BW1	ENG*	[0 to 10 / 2 / 0.1sec]
1-101-101	Reload Permit Set	Delta:BW2:Ctr	ENG*	[20 to 100 / 20 / 1deg]
1-101-102	Reload Permit Set	Delta:BW2:End	ENG*	[55 to 100 / 80 / 1deg]
1-101-103	Reload Permit Set	Delta:BW2:PrssCtr	ENG*	[0 to 50 / 40 / 1deg]
1-101-104	Reload Permit Set	Rotation Time:BW2	ENG*	[0 to 10 / 1.4 / 0.1sec]
1-101-105	Reload Permit Set	ReloadTemp:C:BW2	ENG*	[120 to 155 / 140 / 1deg]
1-101-106	Reload Permit Set	ReloadTemp:P:BW2	ENG*	[50 to 80 / 70 / 1deg]
1-101-151	Reload Permit Set	Delta:Low:Ctr	ENG*	[20 to 50 / 20 / 1deg]
1-101-152	Reload Permit Set	Delta:Low:End	ENG*	[55 to 70 / 65 / 1deg]
1-101-153	Reload Permit Set	Delta:Low:PrssCtr	ENG*	[0 to 30 / 10 / 1deg]
1-101-154	Reload Permit Set	Rotation Time:Low	ENG*	[0 to 10 / 2 / 0.1sec]
1-101-200	Reload Permit Set	Delta:Cld:PrssEnd	ENG*	[0 to 30 / 30 / 1deg]
1-101-201	Reload Permit Set	Delta:Hot:PrssEnd	ENG*	[0 to 30 / 20 / 1deg]
1-101-202	Reload Permit Set	Delta:BW1:PrssEnd	ENG*	[0 to 30 / 30 / 1deg]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-101-203	Reload Permit Set	Delta:BW2:PrssEnd	ENG*	[0 to 50 / 40 / 1deg]
1-101-204	Reload Permit Set	Delta:Low:PrssEnd	ENG*	[0 to 30 / 10 / 1deg]
1-102-001	Feed Permit Set	LowDlt:Ctr	ENG*	[0 to 30 / 15 / 1deg]
1-102-002	Feed Permit Set	LowDlt:End	ENG*	[40 to 80 / 80 / 1deg]
1-102-003	Feed Permit Set	UpDlt:Ctr	ENG*	[0 to 20 / 15 / 1deg]
1-102-004	Feed Permit Set	UpDlt:End	ENG*	[0 to 20 / 15 / 1deg]
1-102-005	Feed Permit Set	LowDlt:PrssCtr	ENG*	[40 to 100 / 85 / 1deg]
1-102-006	Feed Permit Set	Rotation Time	ENG*	[0 to 3 / 0 / 0.1sec]
1-102-007	Feed Permit Set	LowDlt:CtrEx	ENG*	[0 to 30 / 25 / 1deg]
1-102-008	Feed Permit Set	LowDlt:EndEx	ENG*	[40 to 80 / 65 / 1deg]
1-102-009	Feed Permit Set	UpDlt:CtrEx	ENG*	[0 to 20 / 15 / 1deg]
1-102-010	Feed Permit Set	UpDlt:EndEx	ENG*	[0 to 20 / 15 / 1deg]
1-102-011	Feed Permit Set	LowDlt:PrssCtrEx	ENG*	[40 to 100 / 75 / 1deg]
1-102-012	Feed Permit Set	Rotation Time:Ex	ENG*	[0 to 3 / 0 / 0.1sec]
1-102-013	Feed Permit Set	LowDlt:CtrEx2	ENG*	[0 to 100 / 80 / 1deg]
1-102-014	Feed Permit Set	LowDlt:EndEx2	ENG*	[40 to 80 / 80 / 1deg]
1-102-015	Feed Permit Set	UpDlt:CtrEx2	ENG*	[0 to 20 / 15 / 1deg]
1-102-016	Feed Permit Set	UpDlt:EndEx2	ENG*	[0 to 20 / 15 / 1deg]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-102-017	Feed Permit Set	LowDlt:PrssCtrEx2	ENG*	[40 to 100 / 85 / 1deg]
1-102-018	Feed Permit Set	Rotation Time:Ex2	ENG*	[0 to 4 / 2.1 / 0.1sec]
1-102-019	Feed Permit Set	Feed Permit Time	ENG*	[0 to 200 / 60 / 1sec]
1-102-030	Feed Permit Set	Start:PTmp:Ctr	ENG*	[0 to 100 / 10 / 1deg]
1-102-040	Feed Permit Set	Judging Temp:C	ENG*	[0 to 150 / 102 / 1deg]
1-102-041	Feed Permit Set	Judging Time	ENG*	[0 to 3 / 2 / 0.1sec]
1-102-042	Feed Permit Set	Feed Permit Ex	ENG*	[0 to 30 / 0 / 1sec]
1-102-050	Feed Permit Set	LowDlt:PrssEnd	ENG*	[40 to 100 / 85 / 1deg]
1-102-051	Feed Permit Set	UpDlt:PrssEnd	ENG*	[100 to 200 / 125 / 1deg]
1-102-052	Feed Permit Set	LowDlt:PrssEndEX	ENG*	[40 to 100 / 75 / 1deg]
1-102-053	Feed Permit Set	UpDlt:PrssEndEX	ENG*	[100 to 200 / 125 / 1deg]
1-102-054	Feed Permit Set	LowDlt:PrssEndEX2	ENG*	[40 to 100 / 85 / 1deg]
1-102-055	Feed Permit Set	UpDlt:PrssEndEX2	ENG*	[100 to 200 / 125 / 1deg]
1-105-001	Print Target Temp	Plain1:FC:Center	ENG*	[130 to 170 / 149 / 1deg]
1-105-002	Print Target Temp	Plain1:BW:Center	ENG*	[130 to 170 / 145 / 1deg]
1-105-003	Print Target Temp	Plain2:FC:Center	ENG*	[130 to 170 / 153 / 1deg]
1-105-004	Print Target Temp	Plain2:BW:Center	ENG*	[130 to 170 / 148 / 1deg]
1-105-005	Print Target Temp	Thin:FC:Center	ENG*	[130 to 170 / 146 / 1deg]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-006	Print Target Temp	Thin:BW:Center	ENG*	[130 to 170 / 142 / 1deg]
1-105-009	Print Target Temp	M-Thick:FC:Center	ENG*	[130 to 170 / 140 / 1deg]
1-105-010	Print Target Temp	M-Thick:BW:Center	ENG*	[130 to 170 / 137 / 1deg]
1-105-011	Print Target Temp	Thick1:FC:Center	ENG*	[130 to 170 / 147 / 1deg]
1-105-012	Print Target Temp	Thick1:BW:Center	ENG*	[130 to 170 / 144 / 1deg]
1-105-015	Print Target Temp	Thick2:FC:Center	ENG*	[130 to 170 / 147 / 1deg]
1-105-016	Print Target Temp	Thick2:BW:Center	ENG*	[130 to 170 / 144 / 1deg]
1-105-017	Print Target Temp	Spe1:FC:Center	ENG*	[130 to 170 / 149 / 1deg]
1-105-018	Print Target Temp	Spe1:BW:Center	ENG*	[130 to 170 / 144 / 1deg]
1-105-019	Print Target Temp	Spe2:FC:Center	ENG*	[130 to 170 / 154 / 1deg]
1-105-020	Print Target Temp	Spe2:BW:Center	ENG*	[130 to 170 / 149 / 1deg]
1-105-021	Print Target Temp	Plain1:Glo:Center	ENG*	[120 to 170 / 130 / 1deg]
1-105-025	Print Target Temp	Env:Center	ENG*	[130 to 170 / 145 / 1deg]
1-105-027	Print Target Temp	Thick3:FC:Center	ENG*	[130 to 170 / 149 / 1deg]
1-105-028	Print Target Temp	Thick3:BW:Center	ENG*	[130 to 170 / 144 / 1deg]
1-105-029	Print Target Temp	Thick4:FC:Center	ENG*	[0 to 200 / 154 / 1deg]
1-105-030	Print Target Temp	Thick4:BW:Center	ENG*	[0 to 200 / 149 / 1deg]
1-105-031	Print Target Temp	Spe3:FC:Center	ENG*	[130 to 170 / 154 / 1deg]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-032	Print Target Temp	Spe3:BW:Center	ENG*	[130 to 170 / 149 / 1deg]
1-105-033	Print Target Temp	Env:Low:Center	ENG*	[120 to 170 / 140 / 1deg]
1-105-035	Print Target Temp	Card:Center	ENG*	[120 to 170 / 147 / 1deg]
1-105-041	Print Target Temp	OHP:Center	ENG*	[140 to 180 / 160 / 1deg]
1-105-043	Print Target Temp	Label1:FC:Center	ENG*	[130 to 170 / 147 / 1deg]
1-105-044	Print Target Temp	Label1:BW:Center	ENG*	[130 to 170 / 144 / 1deg]
1-105-045	Print Target Temp	Label2:FC:Center	ENG*	[130 to 170 / 140 / 1deg]
1-105-046	Print Target Temp	Label2:BW:Center	ENG*	[130 to 170 / 137 / 1deg]
1-105-101	Print Target Temp	Plain1:FC:Press	ENG*	[50 to 150 / 120 / 1deg]
1-105-102	Print Target Temp	Plain1:BW:Press	ENG*	[50 to 150 / 120 / 1deg]
1-105-103	Print Target Temp	Plain2:FC:Press	ENG*	[50 to 150 / 120 / 1deg]
1-105-104	Print Target Temp	Plain2:BW:Press	ENG*	[50 to 150 / 120 / 1deg]
1-105-105	Print Target Temp	Thin:FC:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-106	Print Target Temp	Thin:BW:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-109	Print Target Temp	M-Thick:FC:Press	ENG*	[50 to 150 / 145 / 1deg]
1-105-110	Print Target Temp	M-Thick:BW:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-111	Print Target Temp	Thick1:FC:Press	ENG*	[100 to 150 / 150 / 1deg]
1-105-112	Print Target Temp	Thick1:BW:Press	ENG*	[100 to 150 / 150 / 1deg]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-115	Print Target Temp	Thick2:FC:Press	ENG*	[100 to 160 / 150 / 1deg]
1-105-116	Print Target Temp	Thick2:BW:Press	ENG*	[100 to 160 / 150 / 1deg]
1-105-117	Print Target Temp	Spe1:FC:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-118	Print Target Temp	Spe1:BW:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-119	Print Target Temp	Spe2:FC:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-120	Print Target Temp	Spe2:BW:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-121	Print Target Temp	Plain1:Glo:Press	ENG*	[50 to 150 / 105 / 1deg]
1-105-125	Print Target Temp	Env:Press	ENG*	[50 to 150 / 135 / 1deg]
1-105-127	Print Target Temp	Thick3:FC:Press	ENG*	[100 to 160 / 145 / 1deg]
1-105-128	Print Target Temp	Thick3:BW:Press	ENG*	[100 to 160 / 145 / 1deg]
1-105-129	Print Target Temp	Thick4:FC:Press	ENG*	[0 to 200 / 120 / 1deg]
1-105-130	Print Target Temp	Thick4:BW:Press	ENG*	[0 to 200 / 120 / 1deg]
1-105-131	Print Target Temp	Spe3:FC:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-132	Print Target Temp	Spe3:BW:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-133	Print Target Temp	Env:Low:Press	ENG*	[50 to 150 / 140 / 1deg]
1-105-135	Print Target Temp	Card:Press	ENG*	[50 to 150 / 150 / 1deg]
1-105-141	Print Target Temp	OHP:Press	ENG*	[50 to 150 / 125 / 1deg]
1-105-143	Print Target Temp	Label1:FC:Press	ENG*	[100 to 150 / 150 / 1deg]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-144	Print Target Temp	Label1:BW::Press	ENG*	[100 to 150 / 150 / 1deg]
1-105-145	Print Target Temp	Label2:FC::Press	ENG*	[100 to 160 / 145 / 1deg]
1-105-146	Print Target Temp	Label2:BW::Press	ENG*	[100 to 160 / 145 / 1deg]
1-107-001	Stdbby Target Temp	PreHeat1:Center	ENG*	[100 to 120 / 110 / 1deg]
1-107-002	Stdbby Target Temp	PreHeat1:Press	ENG*	[100 to 120 / 110 / 1deg]
1-107-007	Stdbby Target Temp	PrintReady:Center	ENG*	[120 to 150 / 130 / 1deg]
1-107-008	Stdbby Target Temp	PrintReady:Press	ENG*	[100 to 150 / 110 / 1deg]
1-108-001	AftrRld/PtTrgtTmp	Center	ENG*	[100 to 150 / 130 / 1deg]
1-108-002	AftrRld/PtTrgtTmp	Press	ENG*	[100 to 150 / 110 / 1deg]
1-108-011	AftrRld/PtTrgtTmp	Center:BW2	ENG*	[100 to 150 / 140 / 1deg]
1-108-012	AftrRld/PtTrgtTmp	Press:BW2	ENG*	[100 to 150 / 110 / 1deg]
1-109-001	Upper Limit Temp	BootRecovery:Heat	ENG*	[160 to 200 / 180 / 1deg]
1-109-002	Upper Limit Temp	BootRecovery:Prss	ENG*	[160 to 200 / 180 / 1deg]
1-109-003	Upper Limit Temp	Other:Heat	ENG*	[170 to 200 / 190 / 1deg]
1-109-004	Upper Limit Temp	Other:Prss	ENG*	[170 to 200 / 190 / 1deg]
1-110-001	Flicker mode	Flicker mode	ENG*	[0 to 1 / 0 / 1]
1-111-001	Env.Crrct:Fusing	Temp:Thresh:Low	ENG*	[10 to 20 / 17 / 1deg]
1-111-002	Env.Crrct:Fusing	Temp:Thresh:High	ENG*	[20 to 40 / 30 / 1deg]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-111-003	Env.Crrct:Fusing	LowCorrection	ENG*	[0 to 10 / 0 / 1deg]
1-111-004	Env.Crrct:Fusing	HighCorrection	ENG*	[0 to 10 / 0 / 1deg]
1-111-005	Env.Crrct:Fusing	Print:LowCorrect	ENG*	[0 to 10 / 5 / 1deg]
1-111-006	Env.Crrct:Fusing	Print:HighCorrect	ENG*	[0 to 10 / 0 / 1deg]
1-111-007	Env.Crrct:Fusing	Prnt:LowCrrct:Sp	ENG*	[0 to 20 / 8 / 1deg]
1-111-008	Env.Crrct:Fusing	Prnt:HighCrrct:Sp	ENG*	[0 to 20 / 0 / 1deg]
1-112-001	ImageTempCorrect	Temp:Level1	ENG*	[-10 to 0 / 0 / 1deg]
1-112-002	ImageTempCorrect	Temp:Level2	ENG*	[-30 to 0 / -10 / 1deg]
1-113-001	Curl Correction	Execute Pattern	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
1-113-004	Curl Correction	TmpDIt:PrssM-Hum	ENG*	[0 to 50 / 40 / 1deg]
1-113-005	Curl Correction	TmpDIt:PrssH-Hum	ENG*	[0 to 50 / 40 / 1deg]
1-113-006	Curl Correction	TmpDIt:PrssH-HumS	ENG*	[0 to 50 / 0 / 1deg]
1-113-008	Curl Correction	CPM:M-humid	ENG*	[0 to 100 / 100 / 1%]
1-113-009	Curl Correction	CPM:H-humid	ENG*	[0 to 100 / 100 / 1%]
1-113-010	Curl Correction	Paper Width:A	ENG*	[0 to 300 / 128.5 / 0.1mm]
1-113-011	Curl Correction	Paper Width:B	ENG*	[0 to 300 / 182 / 0.1mm]
1-113-012	Curl Correction	CPM:H-humid:S	ENG*	[0 to 100 / 50 / 1%]
1-114-	HeatStorageStatus	Temp:Thresh:Press	ENG*	[50 to 100 / 75 / 1deg]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
1-115-001	Target Temp Crrct	Temp:Delta:End	ENG	[-10 to 10 / 10 / 1deg]
1-115-002	Target Temp Crrct	Pri:Delta:End	ENG	[-10 to 10 / 0 / 1deg]
1-115-003	Target Temp Crrct	Stdby:Delta:End	ENG	[-10 to 10 / 0 / 1deg]
1-115-010	Target Temp Crrct	Pri:Del:Ple1:FC	ENG	[-10 to 10 / 10 / 1deg]
1-115-011	Target Temp Crrct	Pri:Del:Ple1:BW	ENG	[-10 to 10 / 10 / 1deg]
1-115-012	Target Temp Crrct	Pri:Del:Ple2:FC	ENG	[-10 to 10 / 10 / 1deg]
1-115-013	Target Temp Crrct	Pri:Del:Ple2:BW	ENG	[-10 to 10 / 10 / 1deg]
1-115-014	Target Temp Crrct	Pri:Del:Thin:FC	ENG	[-10 to 10 / 10 / 1deg]
1-115-015	Target Temp Crrct	Pri:Del:Thin:BW	ENG	[-10 to 10 / 10 / 1deg]
1-115-016	Target Temp Crrct	Pri:Del:Ple1:BW2	ENG	[-10 to 10 / 5 / 1deg]
1-115-017	Target Temp Crrct	Pri:Del:Ple2:BW2	ENG	[-10 to 10 / 5 / 1deg]
1-115-020	Target Temp Crrct	Pri:Del:End:Ssize	ENG	[-10 to 10 / 0 / 1deg]
1-116-001	StorageFBCrrct	ONOFF Switch Temp	ENG*	[0 to 2 / 2 / 1] 0:OFF 1:ON(BW) 2:ON(BW/FC)
1-116-011	StorageFBCrrct	Time Out	ENG*	[0 to 500 / 0 / 1sec]
1-116-021	StorageFBCrrct	Delay:Std:FC1	ENG*	[0 to 20000 / 0 / 1msec]
1-116-022	StorageFBCrrct	Delay:Std:BW1	ENG*	[0 to 20000 / 0 / 1msec]
1-116-	StorageFBCrrct	Delay:Std:FC2	ENG*	[0 to 20000 / 0 / 1msec]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
031				
1-116-032	StorageFBCrrct	Delay:Std:BW2	ENG*	[0 to 20000 / 0 / 1msec]
1-116-041	StorageFBCrrct	PressStandardTemp	ENG*	[0 to 200 / 99 / 1deg]
1-116-042	StorageFBCrrct	TmpCrrctLowLimit	ENG*	[-30 to 0 / -3 / 1deg]
1-116-043	StorageFBCrrct	TmpCrrctHighLimit	ENG*	[0 to 30 / 0 / 1deg]
1-116-051	StorageFBCrrct	PprThickCoef:Nm1	ENG*	[0 to 100 / 17 / 1]
1-116-052	StorageFBCrrct	PprThickCoef:Nm2	ENG*	[0 to 100 / 17 / 1]
1-116-141	StorageFBCrrct	PressStandardTemp	ENG*	[0 to 200 / 0 / 1deg]
1-116-142	StorageFBCrrct	CrrctLowLimitBW2	ENG*	[-30 to 0 / 0 / 1deg]
1-116-143	StorageFBCrrct	CrrctHighLimitBW2	ENG*	[0 to 200 / 0 / 1deg]
1-116-151	StorageFBCrrct	PprThickCoef1:BW2	ENG*	[0 to 200 / 0 / 1]
1-116-152	StorageFBCrrct	PprThickCoef2:BW2	ENG*	[0 to 200 / 0 / 1]
1-117-001	Repeat Temp Crrct	Control Time 1:A	ENG	[0 to 300 / 0 / 1sec]
1-117-002	Repeat Temp Crrct	Control Time 2:A	ENG	[0 to 300 / 64 / 1sec]
1-117-003	Repeat Temp Crrct	Temp:Center:1:A	ENG	[-20 to 20 / 0 / 1deg]
1-117-004	Repeat Temp Crrct	Temp:End:1:A	ENG	[-20 to 20 / 0 / 1deg]
1-117-005	Repeat Temp Crrct	Temp:Center:2:A	ENG	[-20 to 20 / -4 / 1deg]
1-117-006	Repeat Temp Crrct	Temp:End:2:A	ENG	[-20 to 20 / 0 / 1deg]
1-117-	Repeat Temp Crrct	Control Time 1:B	ENG	[0 to 300 / 0 / 1sec]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
1-117-012	Repeat Temp Crrct	Control Time 2:B	ENG	[0 to 300 / 0 / 1sec]
1-117-013	Repeat Temp Crrct	Temp:Center:1:B	ENG	[-20 to 20 / 0 / 1deg]
1-117-014	Repeat Temp Crrct	Temp:End:1:B	ENG	[-20 to 20 / 0 / 1deg]
1-117-015	Repeat Temp Crrct	Temp:Center:2:B	ENG	[-20 to 20 / 0 / 1deg]
1-117-016	Repeat Temp Crrct	Temp:End:2:B	ENG	[-20 to 20 / 0 / 1deg]
1-117-021	Repeat Temp Crrct	Control Time 1:C	ENG*	[0 to 300 / 0 / 1sec]
1-117-022	Repeat Temp Crrct	Control Time 2:C	ENG*	[0 to 300 / 0 / 1sec]
1-117-023	Repeat Temp Crrct	Temp:Center:1:C	ENG*	[-20 to 20 / 0 / 1deg]
1-117-024	Repeat Temp Crrct	Temp:End:1:C	ENG*	[-20 to 20 / 0 / 1deg]
1-117-025	Repeat Temp Crrct	Temp:Center:2:C	ENG*	[-20 to 20 / 0 / 1deg]
1-117-026	Repeat Temp Crrct	Temp:End:2:C	ENG*	[-20 to 20 / 0 / 1deg]
1-117-027	Repeat Temp Crrct	Control Time 1:D	ENG*	[0 to 300 / 0 / 1sec]
1-117-028	Repeat Temp Crrct	Control Time 2:D	ENG*	[0 to 300 / 0 / 1sec]
1-117-029	Repeat Temp Crrct	Temp:Center:1:D	ENG*	[-20 to 20 / 0 / 1deg]
1-117-030	Repeat Temp Crrct	Temp:End:1:D	ENG*	[-20 to 20 / 0 / 1deg]
1-117-031	Repeat Temp Crrct	Temp:Center:2:D	ENG*	[-20 to 20 / 0 / 1deg]
1-117-032	Repeat Temp Crrct	Temp:End:2:D	ENG*	[-20 to 20 / 0 / 1deg]
1-117-	Repeat Temp Crrct	Control Time 1:E	ENG	[0 to 300 / 0 / 1sec]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
033				
1-117-034	Repeat Temp Crrct	Control Time 2:E	ENG	[0 to 300 / 0 / 1sec]
1-117-035	Repeat Temp Crrct	Temp:Center:1:E	ENG	[-20 to 20 / 0 / 1deg]
1-117-036	Repeat Temp Crrct	Temp:End:1:E	ENG	[-20 to 20 / 0 / 1deg]
1-117-037	Repeat Temp Crrct	Temp:Center:2:E	ENG	[-20 to 20 / 0 / 1deg]
1-117-038	Repeat Temp Crrct	Temp:End:2:E	ENG	[-20 to 20 / 0 / 1deg]
1-118-001	Water Drop Reduce	Execute Pattern	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
1-118-002	Water Drop Reduce	RotationTime:1	ENG*	[0 to 99 / 99 / 1sec]
1-118-003	Water Drop Reduce	RotationTime:0	ENG*	[0 to 30 / 10 / 1sec]
1-119-001	Pre Temp Crrct	Temp:Center:A4Y	ENG*	[-10 to 20 / 0 / 1deg]
1-119-002	Pre Temp Crrct	Temp:End:A4Y	ENG*	[-10 to 20 / 0 / 1deg]
1-119-003	Pre Temp Crrct	Temp:Center:B5Y	ENG*	[-10 to 20 / 0 / 1deg]
1-119-004	Pre Temp Crrct	Temp:End:B5Y	ENG	[-10 to 20 / 0 / 1deg]
1-121-001	SwRotate Strt/Stp	Time:After Reload	ENG*	[0 to 200 / 100 / 1sec]
1-121-002	SwRotate Strt/Stp	Time:After Recov	ENG*	[0 to 20 / 10 / 1sec]
1-121-003	SwRotate Strt/Stp	Time:After Job	ENG*	[0 to 30 / 30 / 1sec]
1-121-004	SwRotate Strt/Stp	Press:AfterReload	ENG*	[0 to 160 / 160 / 1deg]
1-121-005	SwRotate Strt/Stp	End:AfterPrint:A3	ENG	[150 to 200 / 190 / 1deg]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-121-006	SwRotate Strt/Stp	End:AfterPrt:LTL	ENG*	[150 to 200 / 190 / 1deg]
1-121-008	SwRotate Strt/Stp	StrtTp:OverTpPrev	ENG*	[150 to 200 / 190 / 1deg]
1-121-009	SwRotate Strt/Stp	RotatTm:OvrTpPrev	ENG*	[10 to 30 / 17 / 1sec]
1-121-010	SwRotate Strt/Stp	End:AfterPrt:B5T	ENG*	[50 to 150 / 100 / 1deg]
1-121-011	SwRotate Strt/Stp	End:AfterPrt:A6T	ENG*	[50 to 150 / 100 / 1deg]
1-121-012	SwRotate Strt/Stp	End:AfterPrt:B6T	ENG*	[60 to 160 / 110 / 1deg]
1-121-023	SwRotate Strt/Stp	HeatOFF:Sto:AfRld	ENG*	[0 to 50000 / 3000 / 1msec]
1-121-024	SwRotate Strt/Stp	HeatOFF:AfterPrt	ENG*	[0 to 50000 / 3000 / 1msec]
1-121-025	SwRotate Strt/Stp	HeatOFF:BW2	ENG*	[0 to 50000 / 0 / 1msec]
1-121-026	SwRotate Strt/Stp	HeatOFF:Over:Stp	ENG*	[0 to 50000 / 3000 / 1msec]
1-121-030	SwRotate Strt/Stp	MotorOFF::Stp	ENG*	[500 to 50000 / 1500 / 1msec]
1-121-031	SwRotate Strt/Stp	MotorOFF::Stp:BW2	ENG*	[500 to 50000 / 3000 / 1msec]
1-122-001	StdbyRotationSet	Rotation Interval	ENG*	[0 to 240 / 60 / 1min]
1-122-002	StdbyRotationSet	Rotation Time	ENG*	[0 to 10000 / 600 / 1msec]
1-124-001	CPM Down Setting	Low:Down Temp.	ENG*	[-30 to 0 / -15 / 1deg]
1-124-002	CPM Down Setting	Low:Up Temp.	ENG*	[-20 to 0 / -10 / 1deg]
1-124-003	CPM Down Setting	Low:1CPM	ENG*	[10 to 100 / 50 / 1%]
1-124-004	CPM Down Setting	Low:2CPM	ENG*	[10 to 100 / 25 / 1%]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-124-006	CPM Down Setting	High:1CPM	ENG*	[10 to 100 / 50 / 1%]
1-124-007	CPM Down Setting	High:2CPM	ENG*	[10 to 100 / 25 / 1%]
1-124-009	CPM Down Setting	High:1CPMDown:A3	ENG	[0 to 225 / 180 / 1deg]
1-124-010	CPM Down Setting	High:2CPMDown:A3	ENG	[0 to 225 / 190 / 1deg]
1-124-012	CPM Down Setting	H:1CPMD:A4	ENG*	[0 to 225 / 198 / 1deg]
1-124-013	CPM Down Setting	H:2CPMD:A4	ENG*	[0 to 225 / 208 / 1deg]
1-124-014	CPM Down Setting	High:1CPMDown:A6	ENG*	[0 to 225 / 180 / 1deg]
1-124-015	CPM Down Setting	High:2CPMDown:A6	ENG*	[0 to 225 / 190 / 1deg]
1-124-020	CPM Down Setting	High:1CPMDown:crd	ENG*	[0 to 225 / 180 / 1deg]
1-124-021	CPM Down Setting	High:2CPMDwn:crd	ENG*	[0 to 225 / 190 / 1deg]
1-124-022	CPM Down Setting	High:1CPMDown:env	ENG*	[0 to 225 / 180 / 1deg]
1-124-023	CPM Down Setting	High:2CPMDown:env	ENG*	[0 to 225 / 190 / 1deg]
1-124-024	CPM Down Setting	Judging Interval	ENG*	[1 to 250 / 10 / 1sec]
1-124-100	CPM Down Setting	H:1CPMD:A4:P	ENG	[0 to 225 / 170 / 1deg]
1-124-101	CPM Down Setting	H:2CPMD:A4:P	ENG	[0 to 225 / 180 / 1deg]
1-124-103	CPM Down Setting	H:1CPMD:B5:P	ENG*	[0 to 225 / 110 / 1deg]
1-124-104	CPM Down Setting	H:2CPMD:B5:P	ENG*	[0 to 225 / 155 / 1deg]
1-124-106	CPM Down Setting	H:1CPMD:A6:P	ENG*	[0 to 225 / 115 / 1deg]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-124-107	CPM Down Setting	H:2CPMD:A6:P	ENG*	[0 to 225 / 160 / 1deg]
1-124-120	CPM Down Setting	H:1CPMD:post:P	ENG*	[0 to 225 / 105 / 1deg]
1-124-121	CPM Down Setting	H:2CPMD:post:P	ENG*	[0 to 225 / 180 / 1deg]
1-124-122	CPM Down Setting	H:1CPMD:env:P	ENG*	[0 to 225 / 105 / 1deg]
1-124-123	CPM Down Setting	H:2CPMD:env:P	ENG*	[0 to 225 / 160 / 1deg]
1-124-200	CPM Down Setting	Start:DownTime	ENG*	[0 to 100 / 20 / 1sec]
1-125-004	PressTmpFBCorrect	Delay:Std:FC	ENG*	[0 to 20000 / 3978 / 1msec]
1-125-005	PressTmpFBCorrect	Delay:Std:BW	ENG*	[0 to 20000 / 2779 / 1msec]
1-125-006	PressTmpFBCorrect	Delay:Middle:FC	ENG*	[0 to 20000 / 8113 / 1msec]
1-125-007	PressTmpFBCorrect	Delay:Middle:BW	ENG*	[0 to 20000 / 5781 / 1msec]
1-125-008	PressTmpFBCorrect	Delay:Low:FC	ENG*	[0 to 20000 / 12369 / 1msec]
1-125-009	PressTmpFBCorrect	Delay:Low:BW	ENG*	[0 to 20000 / 8872 / 1msec]
1-125-020	PressTmpFBCorrect	ONOFFSw:Rotations	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
1-125-051	PressTmpFBCorrect	GainA:Low	ENG*	[0 to 100 / 3.45 / 0.01]
1-125-052	PressTmpFBCorrect	GainB:Low	ENG*	[-5000 to 5000 / -305 / 1]
1-125-053	PressTmpFBCorrect	GainA:Normal	ENG*	[0 to 100 / 3.45 / 0.01]
1-125-054	PressTmpFBCorrect	GainB:Normal	ENG*	[-5000 to 5000 / -305 / 1]
1-125-	PressTmpFBCorrect	Moter:LowLimit	ENG*	[-5 to 0 / -1.2 / 0.1%]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
061				
1-125-062	PressTmpFBCorrect	Moter:HighLimit	ENG*	[0 to 5 / 0.3 / 0.1%]
1-131-001	ContPrtModeSwitch	ContPrtModeSwitch	ENG*	[0 to 2 / 0 / 1] 0:Product 1:Quality1 2:Quality2
1-132-001	MaxDutySwitch	ControlSwitch	ENG*	[0 to 1 / 0 / 1]
1-133-001	LstPprHeatOffCtrl	OffTime:Std:FC	ENG*	[0 to 20000 / 538 / 1msec]
1-133-002	LstPprHeatOffCtrl	OffTime:Std:BW	ENG*	[0 to 20000 / 538 / 1msec]
1-133-003	LstPprHeatOffCtrl	OffTime:Middle:FC	ENG*	[0 to 20000 / 1047 / 1msec]
1-133-004	LstPprHeatOffCtrl	OffTime:Middle:BW	ENG*	[0 to 20000 / 1047 / 1msec]
1-133-005	LstPprHeatOffCtrl	OffTime:Low:FC	ENG*	[0 to 20000 / 1570 / 1msec]
1-133-006	LstPprHeatOffCtrl	OffTime:Low:BW	ENG*	[0 to 20000 / 1570 / 1msec]
1-133-007	LstPprHeatOffCtrl	OffTime:Std:BW2	ENG*	[0 to 20000 / 538 / 1msec]
1-135-001	Inrush Control	Inrush Control	ENG*	[0 to 1 / 0 / 1]
1-141-001	FusingSCErrInfo	SC Number	ENG*	[0 to 999 / 0 / 1]
1-141-002	FusingSCErrInfo	SC Number Detail	ENG*	[0 to 255 / 0 / 1]
1-141-101	FusingSCErrInfo	SC Temp:Sens1	ENG*	[0 to 255 / 0 / 1deg]
1-141-102	FusingSCErrInfo	SC Temp:Sens2	ENG*	[0 to 255 / 0 / 1deg]
1-141-103	FusingSCErrInfo	SC Temp:Sens3	ENG*	[0 to 255 / 0 / 1deg]
1-141-	FusingSCErrInfo	SC Temp:Sens4	ENG*	[0 to 255 / 0 / 1deg]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
104				
1-141-151	FusingSCErrInfo	SC Pre1Temp:Sens1	ENG*	[0 to 255 / 0 / 1deg]
1-141-152	FusingSCErrInfo	SC Pre1Temp:Sens2	ENG*	[0 to 255 / 0 / 1deg]
1-141-153	FusingSCErrInfo	SC Pre1Temp:Sens3	ENG*	[0 to 255 / 0 / 1deg]
1-141-154	FusingSCErrInfo	SC Pre1Temp:Sens4	ENG*	[0 to 255 / 0 / 1deg]
1-141-201	FusingSCErrInfo	SC Pre2Temp:Sens1	ENG*	[0 to 255 / 0 / 1deg]
1-141-202	FusingSCErrInfo	SC Pre2Temp:Sens2	ENG*	[0 to 255 / 0 / 1deg]
1-141-203	FusingSCErrInfo	SC Pre2Temp:Sens3	ENG*	[0 to 255 / 0 / 1deg]
1-141-204	FusingSCErrInfo	SC Pre2Temp:Sens4	ENG*	[0 to 255 / 0 / 1deg]
1-148-001	Full Detected	OFF / ON	ENG*	[0 to 1 / 1 / 1]
1-149-001	Wait Time	Duplex	ENG*	[0 to 120 / 20 / 5sec]
1-152-001	Nip Band Check	Execute	ENG	[0 to 1 / 0 / 1]
1-152-002	Nip Band Check	Pre-idling Time	ENG*	[0 to 999 / 600 / 1sec]
1-152-003	Nip Band Check	Stop Time	ENG*	[0 to 100 / 20 / 1sec]
1-152-004	Nip Band Check	Feed Time	ENG*	[1937 to 2250 / 1970 / 1msec]
1-153-001	LowTemp:StartUp	Temp:Thresh1	ENG*	[0 to 30 / 5 / 1deg]
1-153-002	LowTemp:StartUp	Temp:Thresh2	ENG*	[0 to 30 / 17 / 1deg]
1-153-003	LowTemp:StartUp	Temp:Target	ENG*	[50 to 100 / 100 / 1deg]
1-153-	LowTemp:StartUp	Temp:RotateThresh	ENG*	[0 to 50 / 30 / 1deg]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
1-153-006	LowTemp:StartUp	Judging Temp	ENG*	[0 to 100 / 60 / 1deg]
1-153-010	LowTemp:StartUp	Time:HeatStorage1	ENG*	[0 to 60 / 60 / 1sec]
1-153-011	LowTemp:StartUp	Time:HeatStorage2	ENG*	[0 to 60 / 15 / 1sec]
1-153-020	LowTemp:StartUp	ETemp:Thresh1	ENG*	[0 to 30 / 5 / 1deg]
1-153-021	LowTemp:StartUp	ETemp:Thresh2	ENG*	[0 to 30 / 17 / 1deg]
1-159-001	Fusing Jam	SC Detection	ENG*	[0 to 1 / 0 / 1]
1-801-001	MoterSpeedAdjust	FeedMot Plain	ENG	[-10 to 10 / 0 / 0.05%]
1-801-002	MoterSpeedAdjust	FeedMot Middle 1	ENG	[-10 to 10 / 0 / 0.05%]
1-801-003	MoterSpeedAdjust	FeedMot Middle 2	ENG	[-10 to 10 / 0 / 0.05%]
1-801-004	MoterSpeedAdjust	FeedMot Thick	ENG	[-10 to 10 / 0 / 0.05%]
1-801-005	MoterSpeedAdjust	BkOpcMot Plain	ENG	[-10 to 10 / 0 / 0.05%]
1-801-006	MoterSpeedAdjust	BkOpcMot Middle	ENG	[-10 to 10 / 0 / 0.05%]
1-801-007	MoterSpeedAdjust	BkOpcMot Thick	ENG	[-10 to 10 / 0 / 0.05%]
1-801-008	MoterSpeedAdjust	FcOpcMot Plain	ENG	[-10 to 10 / 0 / 0.05%]
1-801-009	MoterSpeedAdjust	FcOpcMot Middle	ENG	[-10 to 10 / 0 / 0.05%]
1-801-010	MoterSpeedAdjust	FcOpcMot Thick	ENG	[-10 to 10 / 0 / 0.05%]
1-801-011	MoterSpeedAdjust	TransMot Plain	ENG	[-10 to 10 / 0 / 0.05%]
1-801-	MoterSpeedAdjust	TransMot Middle	ENG	[-10 to 10 / 0 / 0.05%]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
1-801-013	MoterSpeedAdjust	TransMot Thick	ENG	[-10 to 10 / 0 / 0.05%]
1-801-014	MoterSpeedAdjust	FusingMot Plain	ENG	[-10 to 10 / 0 / 0.05%]
1-801-015	MoterSpeedAdjust	FusingMot Middle1	ENG	[-10 to 10 / 0 / 0.05%]
1-801-016	MoterSpeedAdjust	FusingMot Middle2	ENG	[-10 to 10 / 0 / 0.05%]
1-801-017	MoterSpeedAdjust	FusingMot Thick	ENG	[-10 to 10 / 0 / 0.05%]
1-801-018	MoterSpeedAdjust	BankMot Plain	ENG	[-10 to 10 / 0 / 0.05%]
1-801-019	MoterSpeedAdjust	BankMot Middle	ENG	[-10 to 10 / 0 / 0.05%]
1-801-020	MoterSpeedAdjust	BankMot Thick	ENG	[-10 to 10 / 0 / 0.05%]
1-952-001	PowerON LowPower	Non-use Time	ENG*	[1 to 60 / 12 / 1minute]

## SP2-XXX (Drum)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-101-001	System Setting	SSCG On/Off	ENG*	[0 to 1 / 1 / 1]
2-101-002	System Setting	SSCG Down/Center	ENG*	[0 to 1 / 1 / 1]
2-101-003	System Setting	SSCG Rate	ENG*	[0 to 1023 / 246 / 1]
2-101-004	System Setting	SSCG Freq	ENG*	[0 to 3 / 0 / 1]
2-102-008	Line speed	Normal	ENG*	[0 to 16383 / 3531 / 1clk_w]
2-102-009	Line speed	Half	ENG*	[0 to 16383 / 6850 / 1clk_w]
2-102-	Line speed	Low	ENG*	[0 to 16383 / 10258 /

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
010				1clk_w]
2-103-011	ColorRegistration	Sub Line: Bk	ENG*	[-472 to 472 / 0 / 1line]
2-103-012	ColorRegistration	Sub Line: C	ENG*	[-472 to 472 / 0 / 1line]
2-103-013	ColorRegistration	Sub Line: M	ENG*	[-472 to 472 / 0 / 1line]
2-103-014	ColorRegistration	Sub Line: Y	ENG*	[-472 to 472 / 0 / 1line]
2-103-015	ColorRegistration	Main Dot: Bk	ENG*	[-188 to 188 / 0 / 1dot]
2-103-016	ColorRegistration	Main Dot: C	ENG*	[-188 to 188 / 0 / 1dot]
2-103-017	ColorRegistration	Main Dot: M	ENG*	[-188 to 188 / 0 / 1dot]
2-103-018	ColorRegistration	Main Dot: Y	ENG*	[-188 to 188 / 0 / 1dot]
2-104-019	Low power mode	Shift judgment	ENG*	[0 to 1 / 1 / 1]
2-105-020	LEDA	CommClockDivRatio	ENG*	[0 to 1023 / 64 / 1]
2-106-021	LEDA Setting	Stbwd normal Bk	ENG	[0 to 65535 / 0 / 1ns]
2-106-022	LEDA Setting	Stbwd normal C	ENG	[0 to 65535 / 0 / 1ns]
2-106-023	LEDA Setting	Stbwd normal M	ENG	[0 to 65535 / 0 / 1ns]
2-106-024	LEDA Setting	Stbwd normal Y	ENG	[0 to 65535 / 0 / 1ns]
2-106-025	LEDA Setting	Stbwd half/low Bk	ENG	[0 to 65535 / 0 / 1ns]
2-106-026	LEDA Setting	Stbwd half/low C	ENG	[0 to 65535 / 0 / 1ns]
2-106-027	LEDA Setting	Stbwd half/low M	ENG	[0 to 65535 / 0 / 1ns]
2-106-028	LEDA Setting	Stbwd half/low Y	ENG	[0 to 65535 / 0 / 1ns]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-106-029	LEDA Setting	Stbwd Elmt normal	ENG	[0 to 65535 / 0 / 1ns]
2-106-030	LEDA Setting	Stbwd Elmt half	ENG	[0 to 65535 / 0 / 1ns]
2-106-031	LEDA Setting	Stbwd Elmt low	ENG	[0 to 65535 / 0 / 1ns]
2-106-036	LEDA Setting	Stbitv normal	ENG*	[0 to 4095 / 439 / 1clk_w]
2-106-037	LEDA Setting	Stbitv half	ENG*	[0 to 4095 / 854 / 1clk_w]
2-106-038	LEDA Setting	Stbitv low	ENG*	[0 to 4095 / 1280 / 1clk_w]
2-107-039	Check sum err cnt	Bk	ENG*	[0 to 65535 / 0 / 1]
2-107-040	Check sum err cnt	C	ENG*	[0 to 65535 / 0 / 1]
2-107-041	Check sum err cnt	M	ENG*	[0 to 65535 / 0 / 1]
2-107-042	Check sum err cnt	Y	ENG*	[0 to 65535 / 0 / 1]
2-108-043	ColorShiftCorrect	Main C	ENG*	[-188 to 188 / 0 / 1dot]
2-108-044	ColorShiftCorrect	Main M	ENG*	[-188 to 188 / 0 / 1dot]
2-108-045	ColorShiftCorrect	Main Y	ENG*	[-188 to 188 / 0 / 1dot]
2-108-046	ColorShiftCorrect	Sub Bk	ENG*	[-472 to 472 / 0 / 1line]
2-108-047	ColorShiftCorrect	Sub C	ENG*	[-472 to 472 / 0 / 1line]
2-108-048	ColorShiftCorrect	Sub M	ENG*	[-472 to 472 / 0 / 1line]
2-108-049	ColorShiftCorrect	Sub Y	ENG*	[-472 to 472 / 0 / 1line]
2-108-050	ColorShiftCorrect	F-Phase normal Bk	ENG*	[0 to 16383 / 1 / 1clk_w]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-108-051	ColorShiftCorrect	F-Phase normal C	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-052	ColorShiftCorrect	F-Phase normal M	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-053	ColorShiftCorrect	F-Phase normal Y	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-054	ColorShiftCorrect	F-Phase half Bk	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-055	ColorShiftCorrect	F-Phase half C	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-056	ColorShiftCorrect	F-Phase half M	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-057	ColorShiftCorrect	F-Phase half Y	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-058	ColorShiftCorrect	F-Phase low Bk	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-059	ColorShiftCorrect	F-Phase low C	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-060	ColorShiftCorrect	F-Phase low M	ENG*	[0 to 16383 / 1 / 1clk_w]
2-108-061	ColorShiftCorrect	F-Phase low Y	ENG*	[0 to 16383 / 1 / 1clk_w]
2-109-062	MUSIC Detect	Edge Thresh	ENG*	[0 to 65535 / 27235 / 1]
2-110-003	Test Pattern	Pattern Selection	ENG	[0 to 14 / 0 / 1] 0:None 1:V 1line 2:H 1line 3:V 2line 4:H 2line 5:V Grid 6:H Grid 7:20mm Grid 8:SGrid 9:20mm SGrid 10:1by1

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				11:2by2 12:4by4 13:Full Dot 14:Belt
2-111-001	Line Position Adj	Normal Mode	ENG	[0 to 1 / 0 / 0]
2-111-002	Line Position Adj	Factory Mode	ENG	[0 to 1 / 0 / 0]
2-111-003	Line Position Adj	Black Mode	ENG	[0 to 1 / 0 / 0]
2-116-001	MUSIC Mode	Skew	ENG*	[0 to 2 / 2 / 1] 0:Curve Off 1:All Off 2:Curve On
2-116-002	MUSIC Mode	Bow	ENG*	[0 to 1 / 0 / 1] 0:On 1:Off
2-181-003	Skew Correction	C	ENG*	[-64 to 63 / 0 / 1line]
2-181-021	Skew Correction	M	ENG*	[-64 to 63 / 0 / 1line]
2-181-039	Skew Correction	Y	ENG*	[-64 to 63 / 0 / 1line]
2-181-061	Skew Correction	Bk	ENG*	[-64 to 63 / 0 / 1line]
2-181-100	Skew Correction	Curve Table	ENG*	[0 to 9 / 4 / 1]
2-182-040	MUSIC Pattern	Pattern Offset	ENG*	[-236 to 236 / 0 / 1dot]
2-182-041	MUSIC Pattern	Width	ENG*	[0 to 236 / 118 / 2dot]
2-182-042	MUSIC Pattern	Cycle	ENG*	[-236 to 236 / 0 / 1dot]
2-183-001	MUSIC Condition	Posipattern FC R	ENG*	[0 to 65535 / 0 / 1]
2-183-002	MUSIC Condition	Posipattern FC L	ENG*	[0 to 65535 / 0 / 1]
2-183-003	MUSIC Condition	Posipattern Bk R	ENG*	[0 to 65535 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-183-004	MUSIC Condition	Posipattern Bk L	ENG*	[0 to 65535 / 0 / 1]
2-185-001	Margin Position	Mode	ENG*	[0 to 1 / 0 / 1] 0:On 1:Off
2-185-002	Margin Position	Base Cal Flag	ENG*	[0 to 1 / 0 / 1] 0:None 1:Need
2-185-011	Margin Position	Position FC Base	ENG*	[0 to 65535 / 0 / 1]
2-185-012	Margin Position	Position Bk Base	ENG*	[0 to 65535 / 0 / 1]
2-185-021	Margin Position	Correct FC	ENG*	[-32768 to 32767 / 0 / 1]
2-185-022	Margin Position	Correct Bk	ENG*	[-32768 to 32767 / 0 / 1]
2-193-017	MUSIC Condition	Judge Mode	ENG*	[0 to 1 / 0 / 1] 0:On 1:Off
2-193-018	MUSIC Condition	Power On Mode	ENG*	[0 to 1 / 1 / 1] 0:Run 1:None
2-193-019	MUSIC Condition	Run Per Pages	ENG*	[0 to 65535 / 400 / 1page]
2-193-020	MUSIC Condition	Forced Per Pages	ENG*	[0 to 65535 / 450 / 1page]
2-193-021	MUSIC Condition	Normal Request	ENG*	[0 to 1 / 0 / 1] 0:None 1:Need
2-193-022	MUSIC Condition	Black Request	ENG*	[0 to 1 / 0 / 1] 0:None 1:Need
2-193-023	MUSIC Condition	Normal Pagecount	ENG*	[0 to 65535 / 0 / 1page]
2-193-024	MUSIC Condition	Black Pagecount	ENG*	[0 to 65535 / 0 / 1page]
2-193-	MUSIC Condition	Judge Factor	ENG*	[0 to 255 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
025				
2-193-026	MUSIC Condition	Normal Temp	ENG*	[-128 to 127 / 0 / 1deg]
2-193-027	MUSIC Condition	Black Temp	ENG*	[-128 to 127 / 0 / 1deg]
2-194-007	MUSIC Result	Run Result	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-194-013	MUSIC Result	Normal Run Num	ENG*	[0 to 65535 / 0 / 1time]
2-194-014	MUSIC Result	Normal Fail Num	ENG*	[0 to 65535 / 0 / 1time]
2-194-015	MUSIC Result	Factory Run Num	ENG*	[0 to 65535 / 0 / 1time]
2-194-016	MUSIC Result	Factory Fail Num	ENG*	[0 to 65535 / 0 / 1time]
2-194-017	MUSIC Result	Margin Run Num	ENG*	[0 to 65535 / 0 / 1time]
2-194-018	MUSIC Result	Margin Fail Num	ENG*	[0 to 65535 / 0 / 1time]
2-196-001	MUSIC Pattern	Pattern Num	ENG*	[1 to 16 / 8 / 1set]
2-221-001	LEDA Disp	Average volume Bk	ENG	[0 to 65535 / 0 / 1]
2-221-002	LEDA Disp	Averagevolume C	ENG	[0 to 65535 / 0 / 1]
2-221-003	LEDA Disp	Averagevolume M	ENG	[0 to 65535 / 0 / 1]
2-221-004	LEDA Disp	Averagevolume Y	ENG	[0 to 65535 / 0 / 1]
2-221-005	LEDA Disp	Serial num Bk	ENG	[0 to 255 / 0 / 1]
2-221-006	LEDA Disp	Serial num C	ENG	[0 to 255 / 0 / 1]
2-221-007	LEDA Disp	Serial num M	ENG	[0 to 255 / 0 / 1]
2-221-	LEDA Disp	Serial num Y	ENG	[0 to 255 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
008				
2-221-009	LEDA Disp	LEDA Pow Err Bk	ENG	[0 to 1 / 0 / 1]
2-221-010	LEDA Disp	LEDA Pow Err C	ENG	[0 to 1 / 0 / 1]
2-221-011	LEDA Disp	LEDA Pow Err M	ENG	[0 to 1 / 0 / 1]
2-221-012	LEDA Disp	LEDA Pow Err Y	ENG	[0 to 1 / 0 / 1]
2-222-001	LEDA Energy	Normal Bk	ENG*	[0 to 1605 / 500 / 1nJ/cm2]
2-222-002	LEDA Energy	Normal C	ENG*	[0 to 1605 / 707 / 1nJ/cm2]
2-222-003	LEDA Energy	Normal M	ENG*	[0 to 1605 / 707 / 1nJ/cm2]
2-222-004	LEDA Energy	Normal Y	ENG*	[0 to 1605 / 707 / 1nJ/cm2]
2-222-005	LEDA Energy	half/low Bk	ENG*	[0 to 1605 / 500 / 1nJ/cm2]
2-222-006	LEDA Energy	half/low C	ENG*	[0 to 1605 / 707 / 1nJ/cm2]
2-222-007	LEDA Energy	half/low M	ENG*	[0 to 1605 / 707 / 1nJ/cm2]
2-222-008	LEDA Energy	half/low Y	ENG*	[0 to 1605 / 707 / 1nJ/cm2]
2-302-001	Env Correct	Crrnt Env Display	ENG	[0 to 7 / 0 / 1]
2-302-002	Env Correct	Temp Thresh	ENG*	[-5 to 50 / 5 / 1deg]
2-302-003	Env Correct	Abs Hum:thresh 1	ENG*	[0 to 100 / 4 / 0.01g/m3]
2-302-004	Env Correct	Abs Hum:thresh 2	ENG*	[0 to 100 / 8 / 0.01g/m3]
2-302-005	Env Correct	Abs Hum:thresh 3	ENG*	[0 to 100 / 13.5 / 0.01g/m3]
2-302-006	Env Correct	Abs Hum:thresh 4	ENG*	[0 to 100 / 17.5 / 0.01g/m3]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-302-007	Env Correct	Abs Hum:thresh 5	ENG*	[0 to 100 / 24 / 0.01g/m3]
2-302-008	Env Correct	Abs Hum:thresh 6	ENG*	[0 to 100 / 30 / 0.01g/m3]
2-311-001	Paper Intvl Cur	Trans2 Current	ENG*	[0 to 255 / 0 / 1uA]
2-326-001	Trans2 CL Bias	PLUS:Spd 1:MM	ENG*	[0 to 255 / 0 / 1uA]
2-326-002	Trans2 CL Bias	PLUS:Spd 2:MM	ENG*	[0 to 255 / 0 / 1uA]
2-326-003	Trans2 CL Bias	PLUS:Spd 3:MM	ENG*	[0 to 255 / 0 / 1uA]
2-326-004	Trans2 CL Bias	PLUS:Spd 1:HH	ENG*	[0 to 255 / 0 / 1uA]
2-326-005	Trans2 CL Bias	PLUS:Spd 2:HH	ENG*	[0 to 255 / 0 / 1uA]
2-326-006	Trans2 CL Bias	PLUS:Spd 3:HH	ENG*	[0 to 255 / 0 / 1uA]
2-326-007	Trans2 CL Bias	PLUS:Spd 1:LL	ENG*	[0 to 255 / 0 / 1uA]
2-326-008	Trans2 CL Bias	PLUS:Spd 2:LL	ENG*	[0 to 255 / 0 / 1uA]
2-326-009	Trans2 CL Bias	PLUS:Spd 3:LL	ENG*	[0 to 255 / 0 / 1uA]
2-326-010	Trans2 CL Bias	MINUS:Spd 1:MM	ENG*	[0 to 255 / 0 / 1x10V]
2-326-011	Trans2 CL Bias	MINUS:Spd 2:MM	ENG*	[0 to 255 / 0 / 1x10V]
2-326-012	Trans2 CL Bias	MINUS:Spd 3:MM	ENG*	[0 to 255 / 0 / 1x10V]
2-326-013	Trans2 CL Bias	MINUS:Spd 1:HH	ENG*	[0 to 255 / 0 / 1x10V]
2-326-014	Trans2 CL Bias	MINUS:Spd 2:HH	ENG*	[0 to 255 / 0 / 1x10V]
2-326-015	Trans2 CL Bias	MINUS:Spd 3:HH	ENG*	[0 to 255 / 0 / 1x10V]
2-326-016	Trans2 CL Bias	MINUS:Spd 1:LL	ENG*	[0 to 255 / 0 / 1x10V]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-326-017	Trans2 CL Bias	MINUS:Spd 2:LL	ENG*	[0 to 255 / 0 / 1x10V]
2-326-018	Trans2 CL Bias	MINUS:Spd 3:LL	ENG*	[0 to 255 / 0 / 1x10V]
2-326-019	Trans2 CL Bias	MODE4:Spd 1:MM	ENG*	[0 to 255 / 0 / 1uA]
2-326-020	Trans2 CL Bias	MODE4:Spd 2:MM	ENG*	[0 to 255 / 0 / 1uA]
2-326-021	Trans2 CL Bias	MODE4:Spd 3:MM	ENG*	[0 to 255 / 0 / 1uA]
2-326-022	Trans2 CL Bias	MODE4:Spd 1:HH	ENG*	[0 to 255 / 0 / 1uA]
2-326-023	Trans2 CL Bias	MODE4:Spd 2:HH	ENG*	[0 to 255 / 0 / 1uA]
2-326-024	Trans2 CL Bias	MODE4:Spd 3:HH	ENG*	[0 to 255 / 0 / 1uA]
2-326-025	Trans2 CL Bias	MODE4:Spd 1:LL	ENG*	[0 to 255 / 0 / 1uA]
2-326-026	Trans2 CL Bias	MODE4:Spd 2:LL	ENG*	[0 to 255 / 0 / 1uA]
2-326-027	Trans2 CL Bias	MODE4:Spd 3:LL	ENG*	[0 to 255 / 0 / 1uA]
2-351-003	Trans1 Bias	OPC low Bias	ENG*	[20 to 200 / 20 / 1x10V]
2-351-008	Trans1 Bias	Bk Fixed	ENG	[0 to 255 / 0 / 1x10V]
2-351-009	Trans1 Bias	Y Fixed	ENG	[0 to 255 / 0 / 1x10V]
2-351-010	Trans1 Bias	M Fixed	ENG	[0 to 255 / 0 / 1x10V]
2-351-011	Trans1 Bias	C Fixed	ENG	[0 to 255 / 0 / 1x10V]
2-351-012	Trans1 Bias	adj:Spd1:MM:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-013	Trans1 Bias	adj:Spd1:HH1:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-	Trans1 Bias	adj:Spd1:LL:FC	ENG*	[-127 to 127 / 0 / 1x10V]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
014				
2-351-015	Trans1 Bias	adj:Spd2:MM:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-016	Trans1 Bias	adj:Spd3:MM:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-017	Trans1 Bias	adj:Spd2:HH1:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-018	Trans1 Bias	adj:Spd3:HH1:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-019	Trans1 Bias	adj:Spd2:LL:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-020	Trans1 Bias	adj:Spd3:LL:FC	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-021	Trans1 Bias	adj:Spd1:MM:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-022	Trans1 Bias	adj:Spd1:HH1:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-023	Trans1 Bias	adj:Spd1:LL:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-024	Trans1 Bias	adj:Spd2:MM:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-025	Trans1 Bias	adj:Spd3:MM:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-026	Trans1 Bias	adj:Spd2:HH1:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-027	Trans1 Bias	adj:Spd3:HH1:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-028	Trans1 Bias	adj:Spd2:LL:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-351-029	Trans1 Bias	adj:Spd3:LL:Bk	ENG*	[-127 to 127 / 0 / 1x10V]
2-401-001	Separate Bias	Spd1:1st:THIN	ENG*	[0 to 255 / 0 / 1x100V]
2-401-002	Separate Bias	Spd1:2nd:THIN	ENG*	[0 to 255 / 0 / 1x100V]
2-401-	Separate Bias	Spd1:1st:NORMAL1	ENG*	[0 to 255 / 0 / 1x100V]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
2-401-004	Separate Bias	Spd1:2nd:NORMAL1	ENG*	[0 to 255 / 0 / 1x100V]
2-401-005	Separate Bias	Spd1:1st:NORMAL2	ENG*	[0 to 255 / 0 / 1x100V]
2-401-006	Separate Bias	Spd1:2nd:NORMAL2	ENG*	[0 to 255 / 0 / 1x100V]
2-401-007	Separate Bias	Spd2:1st:THICK2	ENG*	[0 to 255 / 0 / 1x100V]
2-401-008	Separate Bias	Spd2:2nd:THICK2	ENG*	[0 to 255 / 0 / 1x100V]
2-401-009	Separate Bias	Spd3:1st:THICK3	ENG*	[0 to 255 / 0 / 1x100V]
2-401-010	Separate Bias	Spd3:2nd:THICK3	ENG*	[0 to 255 / 0 / 1x100V]
2-402-001	Separate Env Adj	LL	ENG*	[0 to 255 / 0 / 1%]
2-402-002	Separate Env Adj	MM	ENG*	[0 to 255 / 0 / 1%]
2-402-003	Separate Env Adj	HH1	ENG*	[0 to 255 / 0 / 1%]
2-403-001	Separate Sub Adj	HEAD_L1	ENG*	[0 to 255 / 0 / 1%]
2-403-002	Separate Sub Adj	L1_TAIL	ENG*	[0 to 255 / 0 / 1%]
2-403-003	Separate Sub Adj	L1	ENG*	[-40 to 471 / 0 / 0.1mm]
2-404-001	Separate Timing	Start Adj	ENG*	[-127 to 127 / 0 / 1mm]
2-404-002	Separate Timing	Stop Adj	ENG*	[-127 to 127 / 0 / 1mm]
2-405-001	Separate:Head Adj	Spd1:1st:THIN	ENG*	[-127 to 127 / 0 / 1mm]
2-405-002	Separate:Head Adj	Spd1:2nd:THIN	ENG*	[-127 to 127 / 0 / 1mm]
2-405-	Separate:Head Adj	Spd1:1st:NORMAL1	ENG*	[-127 to 127 / 0 / 1mm]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				
2-405-004	Separate:Head Adj	Spd1:2nd:NORMAL1	ENG*	[-127 to 127 / 0 / 1mm]
2-405-005	Separate:Head Adj	Spd1:1st:NORMAL2	ENG*	[-127 to 127 / 0 / 1mm]
2-405-006	Separate:Head Adj	Spd1:2nd:NORMAL2	ENG*	[-127 to 127 / 0 / 1mm]
2-405-007	Separate:Head Adj	Spd2:1st:THICK1	ENG*	[-127 to 127 / 0 / 1mm]
2-405-008	Separate:Head Adj	Spd2:2nd:THICK1	ENG*	[-127 to 127 / 0 / 1mm]
2-405-009	Separate:Head Adj	Spd3:1st:THICK3	ENG*	[-127 to 127 / 0 / 1mm]
2-405-010	Separate:Head Adj	Spd3:2nd:THICK3	ENG*	[-127 to 127 / 0 / 1mm]
2-406-001	Separate:Tail Adj	Spd1:1st:THIN	ENG*	[-127 to 127 / 0 / 1mm]
2-406-002	Separate:Tail Adj	Spd1:2nd:THIN	ENG*	[-127 to 127 / 0 / 1mm]
2-406-003	Separate:Tail Adj	Spd1:1st:NORMAL1	ENG*	[-127 to 127 / 0 / 1mm]
2-406-004	Separate:Tail Adj	Spd1:2nd:NORMAL1	ENG*	[-127 to 127 / 0 / 1mm]
2-406-005	Separate:Tail Adj	Spd1:1st:NORMAL2	ENG*	[-127 to 127 / 0 / 1mm]
2-406-006	Separate:Tail Adj	Spd1:2nd:NORMAL2	ENG*	[-127 to 127 / 0 / 1mm]
2-406-007	Separate:Tail Adj	Spd2:1st:THICK1	ENG*	[-127 to 127 / 0 / 1mm]
2-406-008	Separate:Tail Adj	Spd2:2nd:THICK1	ENG*	[-127 to 127 / 0 / 1mm]
2-406-009	Separate:Tail Adj	Spd3:1st:THICK3	ENG*	[-127 to 127 / 0 / 1mm]
2-406-010	Separate:Tail Adj	Spd3:2nd:THICK3	ENG*	[-127 to 127 / 0 / 1mm]
2-408-	Trans2:MM	Spd1:1st:S1:K:N	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
2-408-002	Trans2:MM	Spd1:2nd:S1:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-003	Trans2:MM	Spd1:1st:S1:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-004	Trans2:MM	Spd1:2nd:S1:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-005	Trans2:MM	Spd1:1st:S2:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-006	Trans2:MM	Spd1:2nd:S2:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-007	Trans2:MM	Spd1:1st:S2:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-008	Trans2:MM	Spd1:2nd:S2:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-009	Trans2:MM	Spd1:1st:S3:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-010	Trans2:MM	Spd1:2nd:S3:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-011	Trans2:MM	Spd1:1st:S3:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-012	Trans2:MM	Spd1:2nd:S3:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-013	Trans2:MM	Spd1:1st:S4:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-014	Trans2:MM	Spd1:2nd:S4:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-015	Trans2:MM	Spd1:1st:S4:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-016	Trans2:MM	Spd1:2nd:S4:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-408-017	Trans2:MM	Spd1:1st:S1:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-018	Trans2:MM	Spd1:2nd:S1:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-019	Trans2:MM	Spd1:1st:S1:C:PC	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-408-020	Trans2:MM	Spd1:2nd:S1:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-021	Trans2:MM	Spd1:1st:S2:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-022	Trans2:MM	Spd1:2nd:S2:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-023	Trans2:MM	Spd1:1st:S2:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-024	Trans2:MM	Spd1:2nd:S2:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-025	Trans2:MM	Spd1:1st:S3:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-026	Trans2:MM	Spd1:2nd:S3:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-027	Trans2:MM	Spd1:1st:S3:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-028	Trans2:MM	Spd1:2nd:S3:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-029	Trans2:MM	Spd1:1st:S4:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-030	Trans2:MM	Spd1:2nd:S4:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-031	Trans2:MM	Spd1:1st:S4:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-032	Trans2:MM	Spd1:2nd:S4:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-408-033	Trans2:MM	Spd2:1st:S1:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-034	Trans2:MM	Spd2:2nd:S1:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-035	Trans2:MM	Spd2:1st:S1:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-036	Trans2:MM	Spd2:2nd:S1:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-037	Trans2:MM	Spd2:1st:S2:K:T1	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-408-038	Trans2:MM	Spd2:2nd:S2:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-039	Trans2:MM	Spd2:1st:S2:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-040	Trans2:MM	Spd2:2nd:S2:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-041	Trans2:MM	Spd2:1st:S3:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-042	Trans2:MM	Spd2:2nd:S3:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-043	Trans2:MM	Spd2:1st:S3:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-044	Trans2:MM	Spd2:2nd:S3:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-045	Trans2:MM	Spd2:1st:S4:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-046	Trans2:MM	Spd2:2nd:S4:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-047	Trans2:MM	Spd2:1st:S4:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-048	Trans2:MM	Spd2:2nd:S4:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-408-049	Trans2:MM	Spd3:1st:S1:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-050	Trans2:MM	Spd3:2nd:S1:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-051	Trans2:MM	Spd3:1st:S1:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-052	Trans2:MM	Spd3:2nd:S1:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-053	Trans2:MM	Spd3:1st:S2:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-054	Trans2:MM	Spd3:2nd:S2:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-055	Trans2:MM	Spd3:1st:S2:C:T3	ENG*	[0 to 200 / 0 / 1uA]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-408-056	Trans2:MM	Spd3:2nd:S2:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-057	Trans2:MM	Spd3:1st:S3:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-058	Trans2:MM	Spd3:2nd:S3:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-059	Trans2:MM	Spd3:1st:S3:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-060	Trans2:MM	Spd3:2nd:S3:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-061	Trans2:MM	Spd3:1st:S4:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-062	Trans2:MM	Spd3:2nd:S4:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-063	Trans2:MM	Spd3:1st:S4:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-408-064	Trans2:MM	Spd3:2nd:S4:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-001	Trans2:HH	Spd1:1st:S1:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-002	Trans2:HH	Spd1:2nd:S1:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-003	Trans2:HH	Spd1:1st:S1:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-004	Trans2:HH	Spd1:2nd:S1:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-005	Trans2:HH	Spd1:1st:S2:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-006	Trans2:HH	Spd1:2nd:S2:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-007	Trans2:HH	Spd1:1st:S2:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-008	Trans2:HH	Spd1:2nd:S2:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-009	Trans2:HH	Spd1:1st:S3:K:N	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-409-010	Trans2:HH	Spd1:2nd:S3:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-011	Trans2:HH	Spd1:1st:S3:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-012	Trans2:HH	Spd1:2nd:S3:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-013	Trans2:HH	Spd1:1st:S4:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-014	Trans2:HH	Spd1:2nd:S4:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-015	Trans2:HH	Spd1:1st:S4:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-016	Trans2:HH	Spd1:2nd:S4:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-409-017	Trans2:HH	Spd1:1st:S1:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-018	Trans2:HH	Spd1:2nd:S1:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-019	Trans2:HH	Spd1:1st:S1:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-020	Trans2:HH	Spd1:2nd:S1:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-021	Trans2:HH	Spd1:1st:S2:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-022	Trans2:HH	Spd1:2nd:S2:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-023	Trans2:HH	Spd1:1st:S2:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-024	Trans2:HH	Spd1:2nd:S2:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-025	Trans2:HH	Spd1:1st:S3:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-026	Trans2:HH	Spd1:2nd:S3:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-027	Trans2:HH	Spd1:1st:S3:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-	Trans2:HH	Spd1:2nd:S3:C:PC	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
028				
2-409-029	Trans2:HH	Spd1:1st:S4:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-030	Trans2:HH	Spd1:2nd:S4:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-031	Trans2:HH	Spd1:1st:S4:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-032	Trans2:HH	Spd1:2nd:S4:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-409-033	Trans2:HH	Spd2:1st:S1:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-034	Trans2:HH	Spd2:2nd:S1:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-035	Trans2:HH	Spd2:1st:S1:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-036	Trans2:HH	Spd2:2nd:S1:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-037	Trans2:HH	Spd2:1st:S2:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-038	Trans2:HH	Spd2:2nd:S2:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-039	Trans2:HH	Spd2:1st:S2:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-040	Trans2:HH	Spd2:2nd:S2:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-041	Trans2:HH	Spd2:1st:S3:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-042	Trans2:HH	Spd2:2nd:S3:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-043	Trans2:HH	Spd2:1st:S3:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-044	Trans2:HH	Spd2:2nd:S3:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-045	Trans2:HH	Spd2:1st:S4:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-	Trans2:HH	Spd2:2nd:S4:K:T1	ENG*	[0 to 200 / 0 / 1uA]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
046				
2-409-047	Trans2:HH	Spd2:1st:S4:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-048	Trans2:HH	Spd2:2nd:S4:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-409-049	Trans2:HH	Spd3:1st:S1:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-050	Trans2:HH	Spd3:2nd:S1:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-051	Trans2:HH	Spd3:1st:S1:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-052	Trans2:HH	Spd3:2nd:S1:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-053	Trans2:HH	Spd3:1st:S2:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-054	Trans2:HH	Spd3:2nd:S2:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-055	Trans2:HH	Spd3:1st:S2:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-056	Trans2:HH	Spd3:2nd:S2:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-057	Trans2:HH	Spd3:1st:S3:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-058	Trans2:HH	Spd3:2nd:S3:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-059	Trans2:HH	Spd3:1st:S3:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-060	Trans2:HH	Spd3:2nd:S3:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-061	Trans2:HH	Spd3:1st:S4:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-062	Trans2:HH	Spd3:2nd:S4:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-063	Trans2:HH	Spd3:1st:S4:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-409-	Trans2:HH	Spd3:2nd:S4:C:T3	ENG*	[0 to 200 / 0 / 1uA]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
064				
2-410-001	Trans2:LL	Spd1:1st:S1:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-002	Trans2:LL	Spd1:2nd:S1:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-003	Trans2:LL	Spd1:1st:S1:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-004	Trans2:LL	Spd1:2nd:S1:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-005	Trans2:LL	Spd1:1st:S2:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-006	Trans2:LL	Spd1:2nd:S2:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-007	Trans2:LL	Spd1:1st:S2:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-008	Trans2:LL	Spd1:2nd:S2:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-009	Trans2:LL	Spd1:1st:S3:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-010	Trans2:LL	Spd1:2nd:S3:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-011	Trans2:LL	Spd1:1st:S3:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-012	Trans2:LL	Spd1:2nd:S3:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-013	Trans2:LL	Spd1:1st:S4:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-014	Trans2:LL	Spd1:2nd:S4:K:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-015	Trans2:LL	Spd1:1st:S4:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-016	Trans2:LL	Spd1:2nd:S4:C:N	ENG*	[0 to 200 / 0 / 1uA]
2-410-017	Trans2:LL	Spd1:1st:S1:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-018	Trans2:LL	Spd1:2nd:S1:K:PC	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-410-019	Trans2:LL	Spd1:1st:S1:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-020	Trans2:LL	Spd1:2nd:S1:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-021	Trans2:LL	Spd1:1st:S2:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-022	Trans2:LL	Spd1:2nd:S2:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-023	Trans2:LL	Spd1:1st:S2:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-024	Trans2:LL	Spd1:2nd:S2:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-025	Trans2:LL	Spd1:1st:S3:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-026	Trans2:LL	Spd1:2nd:S3:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-027	Trans2:LL	Spd1:1st:S3:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-028	Trans2:LL	Spd1:2nd:S3:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-029	Trans2:LL	Spd1:1st:S4:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-030	Trans2:LL	Spd1:2nd:S4:K:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-031	Trans2:LL	Spd1:1st:S4:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-032	Trans2:LL	Spd1:2nd:S4:C:PC	ENG*	[0 to 200 / 0 / 1uA]
2-410-033	Trans2:LL	Spd2:1st:S1:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-034	Trans2:LL	Spd2:2nd:S1:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-035	Trans2:LL	Spd2:1st:S1:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-036	Trans2:LL	Spd2:2nd:S1:C:T1	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-410-037	Trans2:LL	Spd2:1st:S2:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-038	Trans2:LL	Spd2:2nd:S2:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-039	Trans2:LL	Spd2:1st:S2:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-040	Trans2:LL	Spd2:2nd:S2:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-041	Trans2:LL	Spd2:1st:S3:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-042	Trans2:LL	Spd2:2nd:S3:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-043	Trans2:LL	Spd2:1st:S3:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-044	Trans2:LL	Spd2:2nd:S3:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-045	Trans2:LL	Spd2:1st:S4:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-046	Trans2:LL	Spd2:2nd:S4:K:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-047	Trans2:LL	Spd2:1st:S4:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-048	Trans2:LL	Spd2:2nd:S4:C:T1	ENG*	[0 to 200 / 0 / 1uA]
2-410-049	Trans2:LL	Spd3:1st:S1:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-050	Trans2:LL	Spd3:2nd:S1:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-051	Trans2:LL	Spd3:1st:S1:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-052	Trans2:LL	Spd3:2nd:S1:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-053	Trans2:LL	Spd3:1st:S2:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-054	Trans2:LL	Spd3:2nd:S2:K:T3	ENG*	[0 to 200 / 0 / 1uA]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-410-055	Trans2:LL	Spd3:1st:S2:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-056	Trans2:LL	Spd3:2nd:S2:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-057	Trans2:LL	Spd3:1st:S3:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-058	Trans2:LL	Spd3:2nd:S3:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-059	Trans2:LL	Spd3:1st:S3:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-060	Trans2:LL	Spd3:2nd:S3:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-061	Trans2:LL	Spd3:1st:S4:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-062	Trans2:LL	Spd3:2nd:S4:K:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-063	Trans2:LL	Spd3:1st:S4:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-410-064	Trans2:LL	Spd3:2nd:S4:C:T3	ENG*	[0 to 200 / 0 / 1uA]
2-412-001	Trans2 Correct	PrintRatio:Txt:C1	ENG*	[0 to 100 / 80 / 1%]
2-412-002	Trans2 Correct	Time Adj:T1	ENG*	[0 to 100 / 100 / 1%]
2-412-003	Trans2 Correct	Time Adj:T2	ENG*	[0 to 100 / 90 / 1%]
2-412-004	Trans2 Correct	Time Adj:T3	ENG*	[0 to 100 / 90 / 1%]
2-412-005	Trans2 Correct	Time Adj:T4	ENG*	[0 to 100 / 85 / 1%]
2-412-006	Trans2 Correct	Time Adj:T5	ENG*	[0 to 100 / 85 / 1%]
2-412-007	Trans2 Correct	Timing:1st	ENG*	[-127 to 127 / 0 / 1mm]
2-412-008	Trans2 Correct	Timing:Other	ENG*	[-127 to 127 / 0 / 1mm]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-412-009	Trans2 Correct	Head	ENG*	[-127 to 127 / 0 / 1mm]
2-412-010	Trans2 Correct	Tail	ENG*	[-127 to 127 / 0 / 1mm]
2-412-011	Trans2 Correct	High Humid paper	ENG*	[0 to 1 / 0 / 1] 0:Normal 1:High Humid
2-412-021	Trans2 Correct	Special1:FC:1st	ENG*	[-127 to 127 / 0 / 1uA]
2-412-022	Trans2 Correct	Special1:FC:2nd	ENG*	[-127 to 127 / 0 / 1uA]
2-412-023	Trans2 Correct	Special1:Bk:1st	ENG*	[-127 to 127 / 0 / 1uA]
2-412-024	Trans2 Correct	Special1:Bk:2nd	ENG*	[-127 to 127 / 0 / 1uA]
2-412-025	Trans2 Correct	Special2:FC:1st	ENG*	[-127 to 127 / 0 / 1uA]
2-412-026	Trans2 Correct	Special2:FC:2nd	ENG*	[-127 to 127 / 0 / 1uA]
2-412-027	Trans2 Correct	Special2:Bk:1st	ENG*	[-127 to 127 / 0 / 1uA]
2-412-028	Trans2 Correct	Special2:Bk:2nd	ENG*	[-127 to 127 / 0 / 1uA]
2-412-029	Trans2 Correct	Special3:FC:1st	ENG*	[-127 to 127 / 0 / 1uA]
2-412-030	Trans2 Correct	Special3:Bk:1st	ENG*	[-127 to 127 / 0 / 1uA]
2-500-001	Engine Setting	Mode1	ENG	[0 to 1 / 0 / 1]
2-500-002	Engine Setting	Mode2	ENG	[0 to 1 / 0 / 1]
2-500-003	Engine Setting	Mode3	ENG	[0 to 1 / 0 / 1]
2-500-004	Engine Setting	Mode4	ENG	[0 to 1 / 0 / 1]
2-500-005	Engine Setting	Mode5	ENG	[0 to 1 / 0 / 1]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
2-500-006	Engine Setting	Mode6	ENG	[0 to 1 / 0 / 1]
2-500-007	Engine Setting	Mode7	ENG	[0 to 1 / 0 / 1]
2-500-008	Engine Setting	Mode8	ENG	[0 to 1 / 0 / 1]
2-500-009	Engine Setting	Mode9	ENG	[0 to 1 / 0 / 1]
2-500-010	Engine Setting	Mode10	ENG	[0 to 1 / 0 / 1]
2-500-011	Engine Setting	Data UC1	ENG*	[0 to 255 / 0 / 1]
2-500-012	Engine Setting	Data UC2	ENG*	[0 to 255 / 0 / 1]
2-500-013	Engine Setting	Data UC3	ENG*	[0 to 255 / 0 / 1]
2-500-014	Engine Setting	Data UC4	ENG*	[0 to 255 / 0 / 1]
2-500-015	Engine Setting	Data UC5	ENG*	[0 to 255 / 0 / 1]
2-500-016	Engine Setting	Data SC1	ENG*	[-128 to 127 / 0 / 1]
2-500-017	Engine Setting	Data SC2	ENG*	[-128 to 127 / 0 / 1]
2-500-018	Engine Setting	Data SC3	ENG*	[-128 to 127 / 0 / 1]
2-500-019	Engine Setting	Data SC4	ENG*	[-128 to 127 / 0 / 1]
2-500-020	Engine Setting	Data SC5	ENG*	[-128 to 127 / 0 / 1]
2-500-021	Engine Setting	Data UW1	ENG*	[0 to 65535 / 0 / 1]
2-500-022	Engine Setting	Data UW2	ENG*	[0 to 65535 / 0 / 1]
2-500-023	Engine Setting	Data UW3	ENG*	[0 to 65535 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-500-024	Engine Setting	Data UW4	ENG*	[0 to 65535 / 0 / 1]
2-500-025	Engine Setting	Data UW5	ENG*	[0 to 65535 / 0 / 1]
2-500-026	Engine Setting	Data SW1	ENG*	[-32768 to 32767 / 0 / 1]
2-500-027	Engine Setting	Data SW2	ENG*	[-32768 to 32767 / 0 / 1]
2-500-028	Engine Setting	Data SW3	ENG*	[-32768 to 32767 / 0 / 1]
2-500-029	Engine Setting	Data SW4	ENG*	[-32768 to 32767 / 0 / 1]
2-500-030	Engine Setting	Data SW5	ENG*	[-32768 to 32767 / 0 / 1]
2-500-031	Engine Setting	Data UL1	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-032	Engine Setting	Data UL2	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-033	Engine Setting	Data UL3	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-034	Engine Setting	Data UL4	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-035	Engine Setting	Data UL5	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-036	Engine Setting	Data UL6	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-037	Engine Setting	Data UL7	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-038	Engine Setting	Data UL8	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-039	Engine Setting	Data UL9	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-500-040	Engine Setting	Data UL10	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
2-904-001	Auto revolutions	On	ENG	[0 to 1 / 0 / 1]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-907-001	ACS SW: FC Mode	Cont.Mono Sheet	ENG	[0 to 10 / 0 / 1sheet]
2-997-001	Life Setting	Life Page<Bk>	ENG*	[1 to 255 / 15 / 1kpage]
2-997-002	Life Setting	Life Page<C>	ENG*	[1 to 255 / 12 / 1kpage]
2-997-003	Life Setting	Life Page<M>	ENG*	[1 to 255 / 12 / 1kpage]
2-997-004	Life Setting	Life Page<Y>	ENG*	[1 to 255 / 12 / 1kpage]
2-997-005	Life Setting	Stop Page<Bk>	ENG*	[1 to 255 / 26 / 1kpage]
2-997-006	Life Setting	Stop Page<C>	ENG*	[1 to 255 / 20 / 1kpage]
2-997-007	Life Setting	Stop Page<M>	ENG*	[1 to 255 / 20 / 1kpage]
2-997-008	Life Setting	Stop Page<Y>	ENG*	[1 to 255 / 20 / 1kpage]

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#### SP3-XXX (Process)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-011-001	AdjustManualExe	Normal ProCon	ENG	[0 to 1 / 0 / 1]
3-011-004	AdjustManualExe	FullMusic/ProCon	ENG	[0 to 1 / 0 / 1]
3-011-005	AdjustManualExe	Nor.Music/ProCon	ENG	[0 to 1 / 0 / 1]
3-012-001	ProCon OK?	History:Last	ENG*	[0 to 255 / 0 / 1]
3-015-001	ManualSply:Exe	TnrSplyFc	ENG	[0 to 1 / 0 / 1]
3-015-003	ManualSply:Exe	TnrSplyK	ENG	[0 to 1 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-015-004	ManualSply:Exe	TnrSplyY	ENG	[0 to 1 / 0 / 1]
3-015-005	ManualSply:Exe	TnrSplyM	ENG	[0 to 1 / 0 / 1]
3-015-006	ManualSply:Exe	TnrSplyC	ENG	[0 to 1 / 0 / 1]
3-016-001	ManualSply:Set	SplyTimeK	ENG*	[0 to 255 / 30 / 1sec]
3-016-002	ManualSply:Set	SplyTimeY	ENG*	[0 to 255 / 30 / 1sec]
3-016-003	ManualSply:Set	SplyTimeM	ENG*	[0 to 255 / 30 / 1sec]
3-016-004	ManualSply:Set	SplyTimeC	ENG*	[0 to 255 / 30 / 1sec]
3-017-001	ManualRmn:Exe	TnrRmnSnsFc	ENG	[0 to 1 / 0 / 1]
3-017-002	ManualRmn:Exe	TnrRmnSnsBk	ENG	[0 to 1 / 0 / 1]
3-018-001	ManualMix:Exe	TnrMixFc	ENG	[0 to 1 / 0 / 1]
3-018-002	ManualMix:Exe	TnrMixBk	ENG	[0 to 1 / 0 / 1]
3-019-001	ManualMix:Set	MixTime	ENG*	[0 to 255 / 3 / 1x10sec]
3-022-001	TonerFillMode	FillPhaseID:K	ENG*	[0 to 3 / 2 / 1] 0:Factory 1:Initial Fill 2:Normal Fill 3:Arrival Fill
3-022-002	TonerFillMode	FillPhaseID:Y	ENG*	[0 to 3 / 2 / 1] 0:Factory 1:Initial Fill 2:Normal Fill 3:Arrival Fill
3-022-003	TonerFillMode	FillPhaseID:M	ENG*	[0 to 3 / 2 / 1] 0:Factory

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				1:Initial Fill 2:Normal Fill 3:Arrival Fill
3-022-004	TonerFillMode	FillPhaseID:C	ENG*	[0 to 3 / 2 / 1] 0:Factory 1:Initial Fill 2:Normal Fill 3:Arrival Fill
3-098-001	TonerNearEnd	DaysBeforeTE	ENG*	[0 to 2 / 1 / 1]
3-101-005	TE/NE	Total Usage: Bk	ENG*	[0 to 999999999 / 0 / 1ug]
3-101-006	TE/NE	Total Usage: C	ENG*	[0 to 999999999 / 0 / 1ug]
3-101-007	TE/NE	Total Usage: M	ENG*	[0 to 999999999 / 0 / 1ug]
3-101-008	TE/NE	Total Usage: Y	ENG*	[0 to 999999999 / 0 / 1ug]
3-101-009	TE/NE	TonerRemainBk	ENG*	[0 to 300 / 300 / 0.1g]
3-101-010	TE/NE	TonerRemainC	ENG*	[0 to 300 / 300 / 0.1g]
3-101-011	TE/NE	TonerRemainM	ENG*	[0 to 300 / 300 / 0.1g]
3-101-012	TE/NE	TonerRemainY	ENG*	[0 to 300 / 300 / 0.1g]
3-101-120	TE/NE	EndDelayUpper	ENG*	[0 to 99 / 50 / 1times]
3-102-011	RcvrySply:Set	RcvrySplyK	ENG*	[0 to 20 / 7 / 1g]
3-102-012	RcvrySply:Set	RcvrySplyY	ENG*	[0 to 20 / 7 / 1g]
3-102-013	RcvrySply:Set	RcvrySplyM	ENG*	[0 to 20 / 7 / 1g]
3-102-014	RcvrySply:Set	RcvrySplyC	ENG*	[0 to 20 / 7 / 1g]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-102-015	RcvrySply:Set	MixTime:RcvryK	ENG*	[0 to 60 / 10 / 1sec]
3-102-016	RcvrySply:Set	MixTime:RcvryY	ENG*	[0 to 60 / 10 / 1sec]
3-102-017	RcvrySply:Set	MixTime:RcvryM	ENG*	[0 to 60 / 10 / 1sec]
3-102-018	RcvrySply:Set	MixTime:RcvryC	ENG*	[0 to 60 / 10 / 1sec]
3-102-021	RcvrySply:Set	RcvrySply:Mid:K	ENG*	[0 to 20 / 5 / 1g]
3-102-022	RcvrySply:Set	RcvrySply:Mid:Y	ENG*	[0 to 20 / 5 / 1g]
3-102-023	RcvrySply:Set	RcvrySply:Mid:M	ENG*	[0 to 20 / 5 / 1g]
3-102-024	RcvrySply:Set	RcvrySply:Mid:C	ENG*	[0 to 20 / 5 / 1g]
3-103-001	RcvrySply	RcvrySplyCntK	ENG*	[0 to 10000 / 0 / 1times]
3-103-002	RcvrySply	RcvrySplyCntY	ENG*	[0 to 10000 / 0 / 1times]
3-103-003	RcvrySply	RcvrySplyCntM	ENG*	[0 to 10000 / 0 / 1times]
3-103-004	RcvrySply	RcvrySplyCntC	ENG*	[0 to 10000 / 0 / 1times]
3-103-011	RcvrySply	RcvrySplyCntK	ENG*	[0 to 10000 / 0 / 1times]
3-103-012	RcvrySply	RcvrySplyCntY	ENG*	[0 to 10000 / 0 / 1times]
3-103-013	RcvrySply	RcvrySplyCntM	ENG*	[0 to 10000 / 0 / 1times]
3-103-014	RcvrySply	RcvrySplyCntC	ENG*	[0 to 10000 / 0 / 1times]
3-103-015	RcvrySply	RcvryFailThresh	ENG*	[0 to 3 / 3 / 1times]
3-131-011	TnrSplyErr:Disp	RcvryFailCntK	ENG*	[0 to 20 / 0 / 1times]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-131-012	TnrSplyErr:Disp	RcvryFailCntY	ENG*	[0 to 20 / 0 / 1times]
3-131-013	TnrSplyErr:Disp	RcvryFailCntM	ENG*	[0 to 20 / 0 / 1times]
3-131-014	TnrSplyErr:Disp	RcvryFailCntC	ENG*	[0 to 20 / 0 / 1times]
3-131-015	TnrSplyErr:Disp	RcvryFailThresh	ENG*	[0 to 20 / 3 / 1times]
3-244-005	TonerRmn	HHThresh:Up:K	ENG*	[0 to 400 / 22 / 1times]
3-244-006	TonerRmn	HHThresh:Up:Y	ENG*	[0 to 400 / 24 / 1times]
3-244-007	TonerRmn	HHThresh:Up:M	ENG*	[0 to 400 / 22 / 1times]
3-244-008	TonerRmn	HHThresh:Up:C	ENG*	[0 to 400 / 22 / 1times]
3-244-009	TonerRmn	HHThresh:Low:K	ENG*	[0 to 400 / 31 / 1times]
3-244-010	TonerRmn	HHThresh:Low:Y	ENG*	[0 to 400 / 30 / 1times]
3-244-011	TonerRmn	HHThresh:Low:M	ENG*	[0 to 400 / 31 / 1times]
3-244-012	TonerRmn	HHThresh:Low:C	ENG*	[0 to 400 / 30 / 1times]
3-244-013	TonerRmn	NNThresh:Up:K	ENG*	[0 to 400 / 12 / 1times]
3-244-014	TonerRmn	NNThresh:Up:Y	ENG*	[0 to 400 / 20 / 1times]
3-244-015	TonerRmn	NNThresh:Up:M	ENG*	[0 to 400 / 16 / 1times]
3-244-016	TonerRmn	NNThresh:Up:C	ENG*	[0 to 400 / 5 / 1times]
3-244-017	TonerRmn	NNThresh:Low:K	ENG*	[0 to 400 / 27 / 1times]
3-244-018	TonerRmn	NNThresh:Low:Y	ENG*	[0 to 400 / 37 / 1times]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-244-019	TonerRmn	NNThresh:Low:M	ENG*	[0 to 400 / 25 / 1times]
3-244-020	TonerRmn	NNThresh:Low:C	ENG*	[0 to 400 / 30 / 1times]
3-244-021	TonerRmn	LLThresh:Up:K	ENG*	[0 to 400 / 15 / 1times]
3-244-022	TonerRmn	LLThresh:Up:Y	ENG*	[0 to 400 / 22 / 1times]
3-244-023	TonerRmn	LLThresh:Up:M	ENG*	[0 to 400 / 21 / 1times]
3-244-024	TonerRmn	LLThresh:Up:C	ENG*	[0 to 400 / 21 / 1times]
3-244-025	TonerRmn	LLThresh:Low:K	ENG*	[0 to 400 / 29 / 1times]
3-244-026	TonerRmn	LLThresh:Low:Y	ENG*	[0 to 400 / 30 / 1times]
3-244-027	TonerRmn	LLThresh:Low:M	ENG*	[0 to 400 / 29 / 1times]
3-244-028	TonerRmn	LLThresh:Low:C	ENG*	[0 to 400 / 28 / 1times]
3-310-001	ID.Sens :Voffset	Voffset reg (R)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-002	ID.Sens :Voffset	Voffset reg (L)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-011	ID.Sens :Voffset	Voffset dif (R)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-310-012	ID.Sens :Voffset	Voffset dif (L)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-311-001	ID.Sens :Vmin	Vmin_K(R)	ENG*	[0 to 5 / 0 / 0.001V]
3-311-002	ID.Sens :Vmin	Vmin_K(L)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-001	ID.Sens :Vct	Vct_reg(R)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-002	ID.Sens :Vct	Vct_reg(L)	ENG*	[0 to 5 / 0 / 0.001V]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-312-011	ID.Sens :Vct	Vct_dif(R)	ENG*	[0 to 5 / 0 / 0.001V]
3-312-012	ID.Sens :Vct	Vct_dif(L)	ENG*	[0 to 5 / 0 / 0.001V]
3-320-001	Vsg Adj: Execute	P Sensor	ENG	[0 to 1 / 0 / 1]
3-320-031	Vsg Adj: Execute	Vsg Err Count (R)	ENG*	[0 to 99 / 0 / 1times]
3-320-032	Vsg Adj: Execute	Vsg Err Count (L)	ENG*	[0 to 99 / 0 / 1times]
3-320-033	Vsg Adj: Execute	Vsg Err Stop Th	ENG*	[0 to 99 / 4 / 1times]
3-320-034	Vsg Adj: Execute	Vsg Err Alert Th	ENG*	[0 to 99 / 3 / 1times]
3-321-001	Adjusted Vsg	Vsg reg (R)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-321-002	Adjusted Vsg	Vsg reg (L)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-321-011	Adjusted Vsg	Vsg dif (R)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-321-012	Adjusted Vsg	Vsg dif (L)	ENG*	[0 to 5.5 / 0 / 0.01V]
3-322-001	Adjusted Ifsg	Ifsg (R)	ENG*	[0 to 3317 / 544 / 1]
3-322-002	Adjusted Ifsg	Ifsg (L)	ENG*	[0 to 3317 / 544 / 1]
3-322-011	Adjusted Ifsg	Ifsg LowThresh(R)	ENG*	[0 to 50 / 10 / 0.1mA]
3-322-012	Adjusted Ifsg	Ifsg LowThresh(L)	ENG*	[0 to 50 / 10 / 0.1mA]
3-322-013	Vsg Adj: Execute	Ifsg Upper Count (R)	ENG*	[0 to 99 / 0 / 1times]
3-322-014	Vsg Adj: Execute	Ifsg Upper Count (L)	ENG*	[0 to 99 / 0 / 1times]
3-323-001	Vsg Adj OK?	Latest	ENG*	[0 to 99 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-323-002	Vsg Adj OK?	Latest 2	ENG*	[0 to 99 / 0 / 1]
3-323-003	Vsg Adj OK?	Latest 3	ENG*	[0 to 99 / 0 / 1]
3-323-004	Vsg Adj OK?	Latest 4	ENG*	[0 to 99 / 0 / 1]
3-323-005	Vsg Adj OK?	Latest 5	ENG*	[0 to 99 / 0 / 1]
3-323-006	Vsg Adj OK?	Latest 6	ENG*	[0 to 99 / 0 / 1]
3-323-007	Vsg Adj OK?	Latest 7	ENG*	[0 to 99 / 0 / 1]
3-323-008	Vsg Adj OK?	Latest 8	ENG*	[0 to 99 / 0 / 1]
3-323-009	Vsg Adj OK?	Latest 9	ENG*	[0 to 99 / 0 / 1]
3-323-010	Vsg Adj OK?	Latest 10	ENG*	[0 to 99 / 0 / 1]
3-330-001	ID.Sens Coef	K2(Latest) (C)	ENG*	[0 to 5 / 0 / 0.0001]
3-330-002	ID.Sens Coef	K2(Latest) (M)	ENG*	[0 to 5 / 0 / 0.0001]
3-330-003	ID.Sens Coef	K2(Latest) (Y)	ENG*	[0 to 5 / 0 / 0.0001]
3-330-011	ID.Sens Coef	K5(Latest) (C)	ENG*	[0 to 5 / 1.2 / 0.0001]
3-330-012	ID.Sens Coef	K5(Latest) (M)	ENG*	[0 to 5 / 1.2 / 0.0001]
3-330-013	ID.Sens Coef	K5(Latest) (Y)	ENG*	[0 to 5 / 1.2 / 0.0001]
3-333-001	ID.Sens TestVal:F	K2: Check	ENG*	[0 to 1 / 0.5 / 0.001]
3-333-002	ID.Sens TestVal:F	Diffuse Corr	ENG*	[0.75 to 1.35 / 1 / 0.01]
3-333-003	ID.Sens TestVal:F	Vct_reg Chk:Slope	ENG*	[0 to 99 / 0 / 0.1mV/mA]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-333-004	ID.Sens TestVal:F	Vct_reg Chk:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-333-005	ID.Sens TestVal:F	Vct_dif Chk:Slope	ENG*	[0 to 99 / 0 / 0.1mV/mA]
3-333-006	ID.Sens TestVal:F	Vct_dif Chk:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-334-001	ID.Sens TestVal:F	K2: Check	ENG*	[0 to 1 / 0.5 / 0.001]
3-334-002	ID.Sens TestVal:F	Diffuse Corr	ENG*	[0.75 to 1.35 / 1 / 0.01]
3-334-003	ID.Sens TestVal:F	Vct_reg Chk:Slope	ENG*	[0 to 99 / 0 / 0.1mV/mA]
3-334-004	ID.Sens TestVal:F	Vct_reg Chk:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-334-005	ID.Sens TestVal:F	Vct_dif Chk:Slope	ENG*	[0 to 99 / 0 / 0.1mV/mA]
3-334-006	ID.Sens TestVal:F	Vct_dif Chk:Xint	ENG*	[0 to 25.5 / 0 / 0.1mA]
3-345-001	Density Range	Up Param:a:K	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-002	Density Range	Up Param:a:C	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-003	Density Range	Up Param:a:M	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-004	Density Range	Up Param:a:Y	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-005	Density Range	Low Param:a:K	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-006	Density Range	Low Param:a:C	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-007	Density Range	Low Param:a:M	ENG*	[0 to 2.55 / 0 / 0.01D]
3-345-008	Density Range	Low Param:a:Y	ENG*	[0 to 2.55 / 0 / 0.01D]
3-346-001	Reverse Point	Count	ENG*	[0 to 16 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-349-001	IBACC Setting	Exec Mode	ENG	[0 to 1 / 0 / 1]
3-401-011	TonerFixSply:Set	FixedSplyAmntK	ENG*	[0 to 20 / 10 / 1g]
3-401-012	TonerFixSply:Set	FixedSplyAmntY	ENG*	[0 to 20 / 10 / 1g]
3-401-013	TonerFixSply:Set	FixedSplyAmntM	ENG*	[0 to 20 / 10 / 1g]
3-401-014	TonerFixSply:Set	FixedSplyAmntC	ENG*	[0 to 20 / 10 / 1g]
3-401-015	TonerFixSply:Set	MixTime:FixSplyK	ENG*	[0 to 60 / 60 / 1sec]
3-401-016	TonerFixSply:Set	MixTime:FixSplyY	ENG*	[0 to 60 / 60 / 1sec]
3-401-017	TonerFixSply:Set	MixTime:FixSplyM	ENG*	[0 to 60 / 60 / 1sec]
3-401-018	TonerFixSply:Set	MixTime:FixSplyC	ENG*	[0 to 60 / 60 / 1sec]
3-411-001	TonerSply:Disp	TonerRmnK	ENG*	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-002	TonerSply:Disp	TonerRmnY	ENG*	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-003	TonerSply:Disp	TonerRmnM	ENG*	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-004	TonerSply:Disp	TonerRmnC	ENG*	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-005	TonerSply:Disp	SnsOutCntAvK	ENG*	[0 to 255 / 0 / 1times]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-411-006	TonerSply:Disp	SnsOutCntAvY	ENG*	[0 to 255 / 0 / 1times]
3-411-007	TonerSply:Disp	SnsOutCntAvM	ENG*	[0 to 255 / 0 / 1times]
3-411-008	TonerSply:Disp	SnsOutCntAvC	ENG*	[0 to 255 / 0 / 1times]
3-453-011	TonerSply:Set	Thresh:CnsmK	ENG*	[0 to 100000 / 600 / 0.1mg]
3-453-012	TonerSply:Set	Thresh:CnsmY	ENG*	[0 to 100000 / 600 / 0.1mg]
3-453-013	TonerSply:Set	Thresh:CnsmM	ENG*	[0 to 100000 / 600 / 0.1mg]
3-453-014	TonerSply:Set	Thresh:CnsmC	ENG*	[0 to 100000 / 600 / 0.1mg]
3-500-001	ImgQtyAdj:ON/OFF	ALL	ENG*	[0 to 1 / 1 / 1]
3-500-002	ImgQtyAdj:ON/OFF	ProCon	ENG*	[0 to 1 / 1 / 1]
3-510-021	ImgQtyAdj:ExeFlag	Process Control	ENG*	[0 to 3 / 0 / 1]
3-510-025	ImgQtyAdj:ExeFlag	Vsg Adj.	ENG*	[0 to 1 / 0 / 1]
3-516-001	Toner Refresh	Print Area K	ENG*	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-002	Toner Refresh	Print Area C	ENG*	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-003	Toner Refresh	Print Area M	ENG*	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-004	Toner Refresh	Print Area Y	ENG*	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-005	Toner Refresh	Run Distance K	ENG*	[0 to 999999999 / 0 / 1mm]
3-516-006	Toner Refresh	Run Distance C	ENG*	[0 to 999999999 / 0 / 1mm]
3-516-007	Toner Refresh	Paper Dist	ENG*	[0 to 999999999 / 0 / 1mm]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-516-008	Toner Refresh	Paper Dist FC	ENG*	[0 to 999999999 / 0 / 1mm]
3-516-021	Toner Refresh	Enable Flag BW	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-516-022	Toner Refresh	Enable Flag FC	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-516-024	Toner Refresh	Abs Hum Thresh 1L	ENG*	[0 to 99.99 / 0 / 0.01g/m3]
3-516-025	Toner Refresh	Low Limit Dist K	ENG*	[0 to 255 / 36 / 1mm]
3-516-026	Toner Refresh	Low Limit Dist C	ENG*	[0 to 255 / 36 / 1mm]
3-516-027	Toner Refresh	Low Limit Dist M	ENG*	[0 to 255 / 36 / 1mm]
3-516-028	Toner Refresh	Low Limit Dist Y	ENG*	[0 to 255 / 36 / 1mm]
3-517-001	Toner Input	Enable Flag K	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-002	Toner Input	Enable Flag C	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-003	Toner Input	Enable Flag M	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-004	Toner Input	Enable Flag Y	ENG*	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-005	Toner Input	Run Distance Khf	ENG*	[0 to 999999999 / 0 / 1mm]
3-517-006	Toner Input	Run Distance Chf	ENG*	[0 to 999999999 / 0 / 1mm]
3-517-007	Toner Input	Run Distance M	ENG*	[0 to 999999999 / 0 / 1mm]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-517-008	Toner Input	Run Distance Y	ENG*	[0 to 999999999 / 0 / 1mm]
3-520-001	ImgQtyAdj:Inlval	During Job	ENG*	[0 to 100 / 1 / 1pages]
3-520-002	ImgQtyAdj:Inlval	During Stand-by	ENG*	[0 to 100 / 5 / 1min]
3-521-001	Drum Stop Time	Year	ENG*	[0 to 99 / 0 / 1year]
3-521-002	Drum Stop Time	Month	ENG*	[1 to 12 / 1 / 1month]
3-521-003	Drum Stop Time	Day	ENG*	[1 to 31 / 1 / 1day]
3-521-004	Drum Stop Time	Hour	ENG*	[0 to 23 / 0 / 1hour]
3-521-005	Drum Stop Time	Minute	ENG*	[0 to 59 / 0 / 1minute]
3-522-001	ProCon Environ	Temperature	ENG*	[-1280 to 1270 / 0 / 0.1deg]
3-522-002	ProCon Environ	Rel Humidity	ENG*	[0 to 1000 / 0 / 0.1%RH]
3-522-003	ProCon Environ	Abs Humidity	ENG*	[0 to 1000 / 0 / 0.1g/m3]
3-523-001	ProCon Time	Year	ENG*	[0 to 99 / 0 / 1year]
3-523-002	ProCon Time	Month	ENG*	[1 to 12 / 1 / 1month]
3-523-003	ProCon Time	Day	ENG*	[1 to 31 / 1 / 1day]
3-523-004	ProCon Time	Hour	ENG*	[0 to 23 / 0 / 1hour]
3-523-005	ProCon Time	Minute	ENG*	[0 to 59 / 0 / 1minute]
3-524-001	Unit Change	Trans Belt	ENG*	[0 to 1 / 0 / 1]
3-524-002	Unit Change	PCDU:K	ENG*	[0 to 1 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-524-003	Unit Change	PCDU:YMC	ENG*	[0 to 1 / 0 / 1]
3-529-006	ProCon Interval	Page Cnt:BW	ENG*	[0 to 5000 / 0 / 1sheets]
3-529-007	ProCon Interval	Page Cnt:FC	ENG*	[0 to 5000 / 0 / 1sheets]
3-529-011	ProCon Interval	CnsmRate_Upper	ENG*	[0 to 100 / 100 / 1%]
3-529-012	ProCon Interval	CnsmRate_Lower	ENG*	[0 to 100 / 0 / 1%]
3-530-001	PowerON ProCon	Non-use Time	ENG*	[0 to 5000 / 2880 / 1minute]
3-530-002	PowerON ProCon	Temperature Range	ENG*	[0 to 99 / 8 / 1deg]
3-530-003	PowerON ProCon	Relat Hum Range	ENG*	[0 to 99 / 50 / 1%RH]
3-530-004	PowerON ProCon	Absol Hum Range	ENG*	[0 to 99 / 6 / 1g/m3]
3-530-005	PowerON ProCon	Interval:BW	ENG*	[0 to 5000 / 0 / 1sheets]
3-530-006	PowerON ProCon	Interval:FC	ENG*	[0 to 5000 / 0 / 1sheets]
3-540-001	BkThickLowSpdMode		ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
3-560-001	TonerBondRemoval	Bond Removal Mode	ENG*	[0 to 4 / 4 / 1] Bond Removal Mode 0 Bond Removal Mode 1 Bond Removal Mode 2 Bond Removal Mode 3 Bond Removal Mode 4
3-560-002	TonerBondRemoval	Rel Hum Threshold	ENG*	[0 to 100 / 0 / 1%RH]
3-560-003	TonerBondRemoval	Temp Threshold	ENG*	[0 to 60 / 0 / 1deg]
3-600-	Select ProCon	IBACC	ENG*	[0 to 1 / 1 / 1]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
3-600-006	Select ProCon	Density Control	ENG*	[0 to 2 / 2 / 1]
3-600-010	Select ProCon	TMG Correct	ENG*	[0 to 1 / 1 / 1]
3-600-011	Select Procon	Vs_off	ENG*	[0 to 1 / 1 / 1]
3-611-001	Chrg DC Control	Std Speed: K	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-002	Chrg DC Control	Std Speed: C	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-003	Chrg DC Control	Std Speed: M	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-004	Chrg DC Control	Std Speed: Y	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-021	Chrg DC Control	Low Speed: K	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-022	Chrg DC Control	Low Speed: C	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-023	Chrg DC Control	Low Speed: M	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-024	Chrg DC Control	Low Speed: Y	ENG*	[300 to 1350 / 1038 / 1-V]
3-611-031	Chrg DC Control	UpperLimit	ENG*	[900 to 1300 / 1300 / 1-V]
3-611-032	Chrg DC Control	LowerLimit	ENG*	[900 to 1300 / 900 / 1-V]
3-612-001	Dev DC Control	Std Speed: K	ENG*	[50 to 350 / 120 / 1-V]
3-612-002	Dev DC Control	Std Speed: C	ENG*	[50 to 350 / 120 / 1-V]
3-612-003	Dev DC Control	Std Speed: M	ENG*	[50 to 350 / 120 / 1-V]
3-612-004	Dev DC Control	Std Speed: Y	ENG*	[50 to 350 / 120 / 1-V]
3-612-	Dev DC Control	Low Speed: K	ENG*	[50 to 350 / 120 / 1-V]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
021				
3-612-022	Dev DC Control	Low Speed: C	ENG*	[50 to 350 / 120 / 1-V]
3-612-023	Dev DC Control	Low Speed: M	ENG*	[50 to 350 / 120 / 1-V]
3-612-024	Dev DC Control	Low Speed: Y	ENG*	[50 to 350 / 120 / 1-V]
3-612-031	Dev DC Control	MUSIC Std: K	ENG*	[70 to 350 / 200 / 1-V]
3-612-032	Dev DC Control	MUSIC Std: C	ENG*	[70 to 350 / 200 / 1-V]
3-612-033	Dev DC Control	MUSIC Std: M	ENG*	[70 to 350 / 200 / 1-V]
3-612-034	Dev DC Control	MUSIC Std: Y	ENG*	[70 to 350 / 200 / 1-V]
3-612-120	Dev DC Control	Vb Limit	ENG*	[0 to 500 / 30 / 1V]
3-612-201	Dev DC Control	Plus DC LL Dist1	ENG	[0 to 250 / 175 / 1V]
3-612-202	Dev DC Control	Plus DC ML Dist1	ENG	[0 to 250 / 175 / 1V]
3-612-203	Dev DC Control	Plus DC MM Dist1	ENG	[0 to 250 / 175 / 1V]
3-612-204	Dev DC Control	Plus DC MH Dist1	ENG	[0 to 250 / 175 / 1V]
3-612-205	Dev DC Control	Plus DC HH Dist1	ENG	[0 to 250 / 175 / 1V]
3-612-206	Dev DC Control	Plus DC LL Dist2	ENG	[0 to 250 / 175 / 1V]
3-612-207	Dev DC Control	Plus DC ML Dist2	ENG	[0 to 250 / 175 / 1V]
3-612-208	Dev DC Control	Plus DC MM Dist2	ENG	[0 to 250 / 175 / 1V]
3-612-209	Dev DC Control	Plus DC MH Dist2	ENG	[0 to 250 / 175 / 1V]
3-612-	Dev DC Control	Plus DC HH Dist2	ENG	[0 to 250 / 175 / 1V]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
210				
3-612-211	Dev DC Control	Plus DC LL Dist3	ENG	[0 to 250 / 175 / 1V]
3-612-212	Dev DC Control	Plus DC ML Dist3	ENG	[0 to 250 / 175 / 1V]
3-612-213	Dev DC Control	Plus DC MM Dist3	ENG	[0 to 250 / 175 / 1V]
3-612-214	Dev DC Control	Plus DC MH Dist3	ENG	[0 to 250 / 175 / 1V]
3-612-215	Dev DC Control	Plus DC HH Dist3	ENG	[0 to 250 / 175 / 1V]
3-612-216	Dev DC Control	Plus DC LL Dist4	ENG	[0 to 250 / 150 / 1V]
3-612-217	Dev DC Control	Plus DC ML Dist4	ENG	[0 to 250 / 150 / 1V]
3-612-218	Dev DC Control	Plus DC MM Dist4	ENG	[0 to 250 / 150 / 1V]
3-612-219	Dev DC Control	Plus DC MH Dist4	ENG	[0 to 250 / 150 / 1V]
3-612-220	Dev DC Control	Plus DC HH Dist4	ENG	[0 to 250 / 150 / 1V]
3-612-221	Dev DC Control	Distance1	ENG	[0 to 250 / 3 / 1x100m]
3-612-222	Dev DC Control	Distance2	ENG	[0 to 250 / 5 / 1x100m]
3-612-223	Dev DC Control	Distance3	ENG	[0 to 250 / 10 / 1x100m]
3-613-001	LED Strob Time Op	Std Speed: K	ENG*	[0 to 200 / 100 / 1%]
3-613-002	LED Strob Time Op	Std Speed: C	ENG*	[0 to 200 / 100 / 1%]
3-613-003	LED Strob Time Op	Std Speed: M	ENG*	[0 to 200 / 100 / 1%]
3-613-004	LED Strob Time Op	Std Speed: Y	ENG*	[0 to 200 / 100 / 1%]
3-613-	LED Strob Time Op	Low Speed: K	ENG*	[0 to 200 / 100 / 1%]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
021				
3-613-022	LED Strob Time Op	Low Speed: C	ENG*	[0 to 200 / 100 / 1%]
3-613-023	LED Strob Time Op	Low Speed: M	ENG*	[0 to 200 / 100 / 1%]
3-613-024	LED Strob Time Op	Low Speed: Y	ENG*	[0 to 200 / 100 / 1%]
3-613-031	LED Strob Time Op	Ppattern: K	ENG*	[0 to 200 / 100 / 1%]
3-613-032	LED Strob Time Op	Ppattern: C	ENG*	[0 to 200 / 100 / 1%]
3-613-033	LED Strob Time Op	Ppattern: M	ENG*	[0 to 200 / 100 / 1%]
3-613-034	LED Strob Time Op	Ppattern: Y	ENG*	[0 to 200 / 100 / 1%]
3-613-051	LED Strob Time Op	Music	ENG*	[0 to 200 / 100 / 1%]
3-614-001	LED Energy	Upper Limit	ENG*	[0 to 1605 / 802 / 1nJ/cm2]
3-614-002	LED Energy	Lower Limit	ENG*	[0 to 1605 / 363 / 1nJ/cm2]
3-615-001	Supply DC :set	Latest value_Bk	ENG*	[0 to 350 / 50 / 1V]
3-615-002	Supply DC :set	Latest value C	ENG*	[0 to 350 / 20 / 1V]
3-615-003	Supply DC :set	Latest value M	ENG*	[0 to 350 / 20 / 1V]
3-615-004	Supply DC :set	Latest value Y	ENG*	[0 to 350 / 20 / 1V]
3-616-001	Supply DC :set	OffSet Bk	ENG	[0 to 350 / 50 / 1V]
3-616-002	Supply DC :set	OffSet C	ENG	[0 to 350 / 20 / 1V]
3-616-003	Supply DC :set	OffSet M	ENG	[0 to 350 / 20 / 1V]
3-616-004	Supply DC :set	OffSet Y	ENG	[0 to 350 / 20 / 1V]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
3-620-001	TrgtAdhnsnAmt:Set	Maximum:K	ENG*	[0.1 to 7.5 / 4.65 / 0.01g/m2]
3-620-002	TrgtAdhnsnAmt:Set	Maximum:C	ENG*	[0.1 to 7.5 / 4.63 / 0.01g/m2]
3-620-003	TrgtAdhnsnAmt:Set	Maximum:M	ENG*	[0.1 to 7.5 / 5.06 / 0.01g/m2]
3-620-004	TrgtAdhnsnAmt:Set	Maximum:Y	ENG*	[0.1 to 7.5 / 4.58 / 0.01g/m2]
3-620-011	TrgtAdhnsnAmt:Set	Halftone:K	ENG*	[0.1 to 5 / 1.7 / 0.01g/m2]
3-620-012	TrgtAdhnsnAmt:Set	Halftone:C	ENG*	[0.1 to 5 / 1.7 / 0.01g/m2]
3-620-013	TrgtAdhnsnAmt:Set	Halftone:M	ENG*	[0.1 to 5 / 1.9 / 0.01g/m2]
3-620-014	TrgtAdhnsnAmt:Set	Halftone:Y	ENG*	[0.1 to 5 / 1.7 / 0.01g/m2]
3-622-001	Dev Pot :Set	K	ENG*	[0 to 800 / 0 / 1V]
3-622-002	Dev Pot :Set	C	ENG*	[0 to 800 / 0 / 1V]
3-622-003	Dev Pot :Set	M	ENG*	[0 to 800 / 0 / 1V]
3-622-004	Dev Pot :Set	Y	ENG*	[0 to 800 / 0 / 1V]
3-628-001	Ppattern:Set	OffsetTime:K	ENG*	[-100 to 100 / 0 / 1ms]
3-628-002	Ppattern:Set	OffsetTime:C	ENG*	[-100 to 100 / 0 / 1ms]
3-628-003	Ppattern:Set	OffsetTime:M	ENG*	[-100 to 100 / 0 / 1ms]
3-628-004	Ppattern:Set	OffsetTime:Y	ENG*	[-100 to 100 / 0 / 1ms]
3-628-005	Ppattern:Set	OffsetTime:BW	ENG*	[-100 to 100 / 0 / 1ms]
3-630-	Dev gamma :Disp	Current:K	ENG*	[0.1 to 6 / 1 / 0.01g/m2/hV]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
3-630-002	Dev gamma :Disp	Current:C	ENG*	[0.1 to 6 / 1 / 0.01g/m2/hV]
3-630-003	Dev gamma :Disp	Current:M	ENG*	[0.1 to 6 / 1 / 0.01g/m2/hV]
3-630-004	Dev gamma :Disp	Current:Y	ENG*	[0.1 to 6 / 1 / 0.01g/m2/hV]
3-631-001	Dev Start Vol Vk	K	ENG*	[-900 to 300 / 0 / 1-V]
3-631-002	Dev Start Vol Vk	C	ENG*	[-900 to 300 / 0 / 1-V]
3-631-003	Dev Start Vol Vk	M	ENG*	[-900 to 300 / 0 / 1-V]
3-631-004	Dev Start Vol Vk	Y	ENG*	[-900 to 300 / 0 / 1-V]
3-631-011	Dev Start Vol Vk	Upper:K	ENG*	[0 to 900 / 400 / 1V]
3-631-012	Dev Start Vol Vk	Upper:C	ENG*	[0 to 900 / 400 / 1V]
3-631-013	Dev Start Vol Vk	Upper:M	ENG*	[0 to 900 / 400 / 1V]
3-631-014	Dev Start Vol Vk	Upper:Y	ENG*	[0 to 900 / 400 / 1V]
3-632-001	Hlftn:Slope alpha	Current:K	ENG*	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-002	Hlftn:Slope alpha	Current:C	ENG*	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-003	Hlftn:Slope alpha	Current:M	ENG*	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-004	Hlftn:Slope alpha	Current:Y	ENG*	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-011	Hlftn:Slope alpha	LED Current:K	ENG*	[-6 to 0 / 0 / 0.01g/m2/-650ns]
3-632-012	Hlftn:Slope alpha	LED Current:C	ENG*	[-6 to 0 / 0 / 0.01g/m2/-650ns]
3-632-	Hlftn:Slope alpha	LED Current:M	ENG*	[-6 to 0 / 0 / 0.01g/m2/-

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				650ns]
3-632-014	Hlftn:Slope alpha	LED Current:Y	ENG*	[-6 to 0 / 0 / 0.01g/m2/-650ns]
3-633-001	Hlftn:Intcpt beta	Current:K	ENG*	[0 to 50 / 0 / 0.01g/m2]
3-633-002	Hlftn:Intcpt beta	Current:C	ENG*	[0 to 50 / 0 / 0.01g/m2]
3-633-003	Hlftn:Intcpt beta	Current:M	ENG*	[0 to 50 / 0 / 0.01g/m2]
3-633-004	Hlftn:Intcpt beta	Current:Y	ENG*	[0 to 50 / 0 / 0.01g/m2]
3-633-011	Hlftn:Intcpt beta	LED Current:K	ENG*	[-100 to 100 / 0 / 0.01g/m2]
3-633-012	Hlftn:Intcpt beta	LED Current:C	ENG*	[-100 to 100 / 0 / 0.01g/m2]
3-633-013	Hlftn:Intcpt beta	LED Current:M	ENG*	[-100 to 100 / 0 / 0.01g/m2]
3-633-014	Hlftn:Intcpt beta	LED Current:Y	ENG*	[-100 to 100 / 0 / 0.01g/m2]
3-700-001	New Unit Detect	ON/OFF Setting	ENG*	[0 to 1 / 1 / 1]
3-800-001	TN Collec. Bottle	Full Record	ENG*	[0 to 2 / 0 / 1] 0:Empty 1:Near Full 2:Full
3-800-002	TN Collec. Bottle	After NF:M/A	ENG*	[0 to 1000000000 / 0 / 1ug]
3-800-004	TN Collec. Bottle	Mt_full	ENG*	[0 to 1000000 / 26950 / 1mg]
3-800-005	TN Collec. Bottle	Mt_near_full	ENG*	[0 to 1000000 / 10914 / 1mg]
3-800-009	TN Collec. Bottle	MC	ENG*	[0 to 1000000000 / 0 / 1ug]
3-800-010	TN Collec. Bottle	T2	ENG*	[0 to 100 / 92 / 1%]
3-800-	TN Collec. Bottle	T3	ENG*	[0 to 100 / 15 / 1%]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
3-800-012	TN Collec. Bottle	T4	ENG*	[0 to 100 / 15 / 1%]
3-800-013	TN Collec. Bottle	Change Chk:M/A	ENG*	[0 to 1000000000 / 0 / 1ug]
3-800-014	TN Collec. Bottle	M_rap_full	ENG*	[0 to 100 / 0 / 1times]
3-800-015	TN Collec. Bottle	Mt_new	ENG*	[0 to 1000000 / 70000 / 1mg]
3-800-016	TN Collec. Bottle	Rapid Full Thresh	ENG*	[0 to 100 / 0 / 1times]
3-800-017	TN Collec. Bottle	Days bfr End	ENG*	[0 to 2 / 1 / 1]

## SP4-XXX (Scanner)

There are no Group 4 SP modes for this machine.

## SP5-XXX (Mode)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-131-001	Paper Size Type		ENG*	[0 to 2 / 0 / 1] 0:JP 1:NA 2:EU
5-801-002	Memory Clear	Engine	ENG	[0 to 1 / 0 / 1]
5-806-100	ID Chip	Error Log	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
5-806-101	ID Chip	Error Log 2	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
5-810-001	Fusing SC Clear	Clear	ENG	[0 to 1 / 0 / 1]
5-811-002	MachineSerial	Display:Serial	ENG*	[0 to 255 / 0 / 1]
5-811-004	MachineSerial	Set:BICU	ENG*	[0 to 255 / 0 / 1]
5-811-021	MachineSerial	Latest Update	ENG*	[0 to 1 / 0 / 1]
5-811-022	MachineSerial	Previous Update	ENG*	[0 to 1 / 0 / 1]
5-811-023	MachineSerial	Previous	ENG*	[0 to 255 / 0 / 1]
5-811-024	MachineSerial	Latest Update:BCU	ENG*	[0 to 1 / 0 / 1]
5-811-025	MachineSerial	Prev. Update:BCU	ENG*	[0 to 1 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-811-026	MachineSerial	Previous: BCU	ENG*	[0 to 255 / 0 / 1]
5-900-001	Engine Log Upload	Pattern	ENG*	[0 to 4 / 0 / 1]
5-900-002	Engine Log Upload	Trigger	ENG*	[0 to 3 / 0 / 1]
5-902-001	AdjustControl	B/W Priority Mode	ENG*	[0 to 1 / 0 / 1]
5-903-001	Test Print	Feed Tray	ENG	[0 to 4 / 0 / 1] 0:Bypass 1:Tray1 2:Tray2 3:Tray3 4:Tray4
5-903-002	Test Print	Duplex Setting	ENG	[0 to 1 / 0 / 1] 0:Single 1:Duplex
5-903-003	Test Print	Paper Size	ENG	[0 to 3 / 1 / 1] 0:LGT 1:A4T 2:B5T 3:A5T
5-903-004	Test Print	Color Mode	ENG	[0 to 6 / 0 / 1] 0:BK 1:Cyan 2:Magenta 3:Yellow 4:Red 5:Blue 6:Green
5-903-005	Test Print	Test Patten	ENG	[0 to 14 / 0 / 1] 0:None 1:V 1line 2:H 1line 3:V 2line 4:H 2line 5:V Grid 6:H Grid 7:20mm Grid 8:SGrid 9:20mm SGrid 10:1by1

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				11:2by2 12:4by4 13:Full Dot 14:Belt
5-903-006	Test Print	Paper Kind	ENG	[0 to 2 / 0 / 1] 0:Plain Paper 1:Thick1 2:Thick2
5-903-007	Test Print	Print Page	ENG	[0 to 255 / 1 / 1]
5-903-008	Test Print	Freerun Setting	ENG	[0 to 1 / 0 / 1] 0:Normal 1:FreeRun
5-903-009	Test Print	Print Start	ENG	[0 to 1 / 0 / 1]
5-930-001	MeterClick Ch.	MeterClick Ch.	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-930-010	MeterClick Ch.	PCDU	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-930-014	MeterClick Ch.	Trans Unit	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-930-016	MeterClick Ch.	Fusing Unit	ENG*	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-931-001	Life System	Life Page System	ENG*	[0 to 1 / 0 / 1]
5-931-002	Life System	Print Stop System	ENG*	[0 to 1 / 1 / 1]
5-997-001	PSC	COMMAND	ENG	[0 to 3 / 2 / 1]
5-997-002	PSC	DOMAIN_IF	ENG	[0 to 3 / 0 / 1]
5-997-003	PSC	RAPI	ENG	[0 to 3 / 0 / 1]
5-997-004	PSC	PRINT	ENG	[0 to 3 / 0 / 1]
5-997-005	PSC	ENGINE	ENG	[0 to 3 / 0 / 1]
5-997-006	PSC	THREAD	ENG	[0 to 3 / 0 / 1]
5-997-007	PSC	THREAD_OBJ	ENG	[0 to 3 / 0 / 1]
5-997-008	PSC	STS_TREE	ENG	[0 to 3 / 0 / 1]
5-997-009	PSC	TREE_INIT	ENG	[0 to 3 / 0 / 1]
5-997-010	PSC	EVENT	ENG	[0 to 3 / 0 / 1]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-997-011	PSC	SP	ENG	[0 to 3 / 0 / 1]
5-997-012	PSC	OTHER	ENG	[0 to 3 / 0 / 1]
5-997-013	PSC	MEMORY	ENG	[0 to 3 / 0 / 1]
5-998-001	Fusing Cont mode	fast/silent	ENG*	[0 to 1 / 0 / 1] 0:Silent 1:Fast

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#### SP6-XXX (Peripherals)

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There are no Group 6 SP modes for this machine.

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#### SP7-XXX (Data Log)

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SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-801-002	ROM Info	ROM No.	ENG	[0 to 0 / 0 / 0]
7-801-102	ROM Info	Firmware Version	ENG	[0 to 0 / 0 / 0]
7-803-002	PM Counter	Page: PCDU: Bk	ENG*	[0 to 999999 / 0 / 1page]
7-803-003	PM Counter	Page: PCDU: C	ENG*	[0 to 999999 / 0 / 1page]
7-803-004	PM Counter	Page: PCDU: M	ENG*	[0 to 999999 / 0 / 1page]
7-803-005	PM Counter	Page: PCDU: Y	ENG*	[0 to 999999 / 0 / 1page]
7-803-014	PM Counter	Page: ITB Unit	ENG*	[0 to 999999 / 0 / 1page]
7-803-016	PM Counter	Page: Fusing Uint	ENG*	[0 to 999999 / 0 / 1page]
7-803-019	PM Counter	Page: PTR Unit	ENG*	[0 to 999999 / 0 / 1page]
7-803-031	PM Counter	Dist: PCDU: Bk	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-032	PM Counter	Dist: PCDU: C	ENG*	[0 to 999999999 / 0 / 1mm]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-803-033	PM Counter	Dist: PCDU: M	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-034	PM Counter	Dist: PCDU: Y	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-043	PM Counter	Dist: ITB Unit	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-044	PM Counter	Dist: ITBUnit: FC	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-045	PM Counter	Dist: Fusing Unit	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-048	PM Counter	Dist: PTR	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-110	PM Counter	Pass Dist: PTR	ENG*	[0 to 999999999 / 0 / 1mm]
7-803-112	PM Counter	Pass Dist: Fusing	ENG*	[0 to 999999999 / 0 / 1mm]
7-804-002	PM Counter Clear	PCU: Bk	ENG	[0 to 1 / 0 / 1]
7-804-003	PM Counter Clear	PCU: C	ENG	[0 to 1 / 0 / 1]
7-804-004	PM Counter Clear	PCU: M	ENG	[0 to 1 / 0 / 1]
7-804-005	PM Counter Clear	PCU: Y	ENG	[0 to 1 / 0 / 1]
7-804-017	PM Counter Clear	ITB Unit	ENG	[0 to 1 / 0 / 1]
7-804-019	PM Counter Clear	Fusing Unit	ENG	[0 to 1 / 0 / 1]
7-804-022	PM Counter Clear	PTR Unit	ENG	[0 to 1 / 0 / 1]
7-804-030	PM Counter Clear	Consump	ENG	[0 to 1 / 0 / 1]
7-804-050	PM Counter Clear	Life:PCU: Bk	ENG	[0 to 1 / 0 / 1]
7-804-051	PM Counter Clear	Life:PCU: C	ENG	[0 to 1 / 0 / 1]
7-804-052	PM Counter Clear	Life:PCU: M	ENG	[0 to 1 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-804-053	PM Counter Clear	Life:PCU: Y	ENG	[0 to 1 / 0 / 1]
7-804-060	PM Counter Clear	Life:ITB Unit	ENG	[0 to 1 / 0 / 1]
7-804-061	PM Counter Clear	Life:PTR Unit	ENG	[0 to 1 / 0 / 1]
7-804-070	PM Counter Clear	Life:Fusing Unit	ENG	[0 to 1 / 0 / 1]
7-804-100	PM Counter Clear	All	ENG	[0 to 1 / 0 / 1]
7-850-001	MachineCounter	TotalCounter	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-002	MachineCounter	TotalCounterFC	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-003	MachineCounter	Duplex	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-004	MachineCounter	Size:DL/A3	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-005	MachineCounter	Size:LT/A4	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-006	MachineCounter	Pkind:Normal	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-007	MachineCounter	Pkind:Recycle	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-008	MachineCounter	Pkind:MidThick	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-009	MachineCounter	Pkind:Glossy	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-010	MachineCounter	Pkind:Post	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-011	MachineCounter	Feed:Tray1	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-012	MachineCounter	Feed:Tray2	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-013	MachineCounter	Feed:Tray3	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-850-014	MachineCounter	Feed:Tray4	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-015	MachineCounter	Env:HH	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-016	MachineCounter	Env:HL	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-017	MachineCounter	Env:LH	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-018	MachineCounter	Env:LL	ENG*	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-019	MachineCounter	Coverage:Bk	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-850-020	MachineCounter	Coverage:C	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-850-021	MachineCounter	Coverage:M	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-850-022	MachineCounter	Coverage:Y	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-853-001	Replacement Cnt	PCDU: Bk	ENG*	[0 to 999 / 0 / 1time]
7-853-002	Replacement Cnt	PCDU: C	ENG*	[0 to 999 / 0 / 1time]
7-853-003	Replacement Cnt	PCDU: M	ENG*	[0 to 999 / 0 / 1time]
7-853-004	Replacement Cnt	PCDU: Y	ENG*	[0 to 999 / 0 / 1time]
7-853-009	Replacement Cnt	Cartridge: Bk	ENG*	[0 to 999 / 0 / 1time]
7-853-010	Replacement Cnt	Cartridge: C	ENG*	[0 to 999 / 0 / 1time]
7-853-011	Replacement Cnt	Cartridge: M	ENG*	[0 to 999 / 0 / 1time]
7-853-012	Replacement Cnt	Cartridge: Y	ENG*	[0 to 999 / 0 / 1time]
7-853-013	Replacement Cnt	ITB Unit	ENG*	[0 to 999 / 0 / 1time]
7-853-	Replacement Cnt	Fusing Unit	ENG*	[0 to 999 / 0 / 1time]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
015				
7-853-018	Replacement Cnt	PTR Unit	ENG*	[0 to 999 / 0 / 1time]
7-854-001	CCW Rotate Cnt	ITB Unit	ENG*	[0 to 9999 / 0 / 1time]
7-905-001	Life Counter	Page: PCDU: Bk	ENG*	[0 to 999999 / 0 / 1page]
7-905-002	Life Counter	Page: PCDU: C	ENG*	[0 to 999999 / 0 / 1page]
7-905-003	Life Counter	Page: PCDU: M	ENG*	[0 to 999999 / 0 / 1page]
7-905-004	Life Counter	Page: PCDU: Y	ENG*	[0 to 999999 / 0 / 1page]
7-905-013	Life Counter	Page: ITB Unit	ENG*	[0 to 999999 / 0 / 1page]
7-905-015	Life Counter	Page: Fusing Uint	ENG*	[0 to 999999 / 0 / 1page]
7-905-018	Life Counter	Page: PTR Unit	ENG*	[0 to 999999 / 0 / 1page]
7-905-031	Life Counter	Dist: PCDU: Bk	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-032	Life Counter	Dist: PCDU: C	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-033	Life Counter	Dist: PCDU: M	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-034	Life Counter	Dist: PCDU: Y	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-043	Life Counter	Dist: ITB Unit	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-045	Life Counter	Dist: Fusing Unit	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-048	Life Counter	Dist: PTR	ENG*	[0 to 999999999 / 0 / 1mm]
7-905-061	Life Counter	Dist(%): PCDU: Bk	ENG	[0 to 250 / 0 / 0.1%]
7-905-	Life Counter	Dist(%): PCDU: C	ENG	[0 to 250 / 0 / 0.1%]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
062				
7-905-063	Life Counter	Dist(%): PCDU: M	ENG	[0 to 250 / 0 / 0.1%]
7-905-064	Life Counter	Dist(%): PCDU: Y	ENG	[0 to 250 / 0 / 0.1%]
7-905-073	Life Counter	Dist(%): ITB Unit	ENG	[0 to 250 / 0 / 0.1%]
7-905-075	Life Counter	Dist(%): Fusing	ENG	[0 to 250 / 0 / 0.1%]
7-905-078	Life Counter	Dist(%): PTR	ENG	[0 to 250 / 0 / 0.1%]
7-905-091	Life Counter	Page(%): PCDU: Bk	ENG	[0 to 250 / 0 / 0.1%]
7-905-092	Life Counter	Page(%): PCDU: C	ENG	[0 to 250 / 0 / 0.1%]
7-905-093	Life Counter	Page(%): PCDU: M	ENG	[0 to 250 / 0 / 0.1%]
7-905-094	Life Counter	Page(%): PCDU: Y	ENG	[0 to 250 / 0 / 0.1%]
7-905-103	Life Counter	Page(%): ITB Unit	ENG	[0 to 250 / 0 / 0.1%]
7-905-105	Life Counter	Page(%): Fuser	ENG	[0 to 250 / 0 / 0.1%]
7-905-108	Life Counter	Page(%): PTR Unit	ENG	[0 to 250 / 0 / 0.1%]
7-906-001	Prev. Counter	Page: PCDU: Bk	ENG*	[0 to 999999 / 0 / 1page]
7-906-002	Prev. Counter	Page: PCDU: C	ENG*	[0 to 999999 / 0 / 1page]
7-906-003	Prev. Counter	Page: PCDU: M	ENG*	[0 to 999999 / 0 / 1page]
7-906-004	Prev. Counter	Page: PCDU: Y	ENG*	[0 to 999999 / 0 / 1page]
7-906-013	Prev. Counter	Page: ITB Unit	ENG*	[0 to 999999 / 0 / 1page]
7-906-	Prev. Counter	Page: Fusing Uint	ENG*	[0 to 999999 / 0 / 1page]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
015				
7-906-018	Prev. Counter	Page: PTR Unit	ENG*	[0 to 999999 / 0 / 1page]
7-906-031	Prev. Counter	Dist: PCDU: Bk	ENG*	[0 to 999999999 / 0 / 1mm]
7-906-032	Prev. Counter	Dist: PCDU: C	ENG*	[0 to 999999999 / 0 / 1mm]
7-906-033	Prev. Counter	Dist: PCDU: M	ENG*	[0 to 999999999 / 0 / 1mm]
7-906-034	Prev. Counter	Dist: PCDU: Y	ENG*	[0 to 999999999 / 0 / 1mm]
7-906-043	Prev. Counter	Dist: ITB Unit	ENG*	[0 to 999999999 / 0 / 1mm]
7-906-045	Prev. Counter	Dist: Fusing Unit	ENG*	[0 to 999999999 / 0 / 1mm]
7-906-048	Prev. Counter	Dist: PTR	ENG*	[0 to 999999999 / 0 / 1mm]
7-907-001	Life(%) Counter	PCDU: Bk	ENG	[0 to 250 / 0 / 1%]
7-907-002	Life(%) Counter	PCDU: C	ENG	[0 to 250 / 0 / 1%]
7-907-003	Life(%) Counter	PCDU: M	ENG	[0 to 250 / 0 / 1%]
7-907-004	Life(%) Counter	PCDU: Y	ENG	[0 to 250 / 0 / 1%]
7-907-005	Life(%) Counter	PCDU: FC	ENG	[0 to 250 / 0 / 1%]
7-907-013	Life(%) Counter	ITB Unit	ENG	[0 to 250 / 0 / 1%]
7-907-014	Life(%) Counter	ITB&PTR Unit	ENG	[0 to 250 / 0 / 1%]
7-907-015	Life(%) Counter	Fusing Uint	ENG	[0 to 250 / 0 / 1%]
7-907-018	Life(%) Counter	PTR Unit	ENG	[0 to 250 / 0 / 1%]
7-907-	Life Counter	P Stop Dist(%): Bk	ENG	[0 to 250 / 0 / 0.1%]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
101				
7-907-102	Life Counter	P Stop Dist(%): C	ENG	[0 to 250 / 0 / 0.1%]
7-907-103	Life Counter	P Stop Dist(%): M	ENG	[0 to 250 / 0 / 0.1%]
7-907-104	Life Counter	P Stop Dist(%): Y	ENG	[0 to 250 / 0 / 0.1%]
7-931-001	Toner Bottle Bk	Machine Serial ID	ENG*	[0 to 255 / 0 / 1]
7-931-002	Toner Bottle Bk	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-931-003	Toner Bottle Bk	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-931-004	Toner Bottle Bk	Area ID	ENG*	[0 to 255 / 0 / 1]
7-931-005	Toner Bottle Bk	Product ID	ENG*	[0 to 255 / 0 / 1]
7-931-006	Toner Bottle Bk	Color ID	ENG*	[0 to 255 / 0 / 1]
7-931-007	Toner Bottle Bk	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-931-008	Toner Bottle Bk	New Info	ENG*	[0 to 255 / 0 / 1]
7-931-009	Toner Bottle Bk	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-931-010	Toner Bottle Bk	Date	ENG*	[0 to 255 / 0 / 1]
7-931-011	Toner Bottle Bk	SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-931-012	Toner Bottle Bk	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-931-013	Toner Bottle Bk	EDP Code	ENG*	[0 to 255 / 0 / 1]
7-931-014	Toner Bottle Bk	End History	ENG*	[0 to 1 / 0 / 1]
7-931-015	Toner Bottle Bk	Refill Info	ENG*	[0 to 99 / 0 / 1]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-931-016	Toner Bottle Bk	Set: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-931-017	Toner Bottle Bk	Set: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-931-018	Toner Bottle Bk	End: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-931-019	Toner Bottle Bk	End: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-931-020	Toner Bottle Bk	Set Date	ENG*	[0 to 255 / 0 / 1]
7-931-021	Toner Bottle Bk	End Date	ENG*	[0 to 255 / 0 / 1]
7-932-001	Toner Bottle C	Machine Serial ID	ENG*	[0 to 255 / 0 / 1]
7-932-002	Toner Bottle C	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-932-003	Toner Bottle C	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-932-004	Toner Bottle C	Area ID	ENG*	[0 to 255 / 0 / 1]
7-932-005	Toner Bottle C	Product ID	ENG*	[0 to 255 / 0 / 1]
7-932-006	Toner Bottle C	Color ID	ENG*	[0 to 255 / 0 / 1]
7-932-007	Toner Bottle C	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-932-008	Toner Bottle C	New Info	ENG*	[0 to 255 / 0 / 1]
7-932-009	Toner Bottle C	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-932-010	Toner Bottle C	Date	ENG*	[0 to 255 / 0 / 1]
7-932-011	Toner Bottle C	SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-932-012	Toner Bottle C	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-932-	Toner Bottle C	EDP Code	ENG*	[0 to 255 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
7-932-014	Toner Bottle C	End History	ENG*	[0 to 1 / 0 / 1]
7-932-015	Toner Bottle C	Refill Info	ENG*	[0 to 99 / 0 / 1]
7-932-016	Toner Bottle C	Set: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-932-017	Toner Bottle C	Set: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-932-018	Toner Bottle C	End: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-932-019	Toner Bottle C	End: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-932-020	Toner Bottle C	Set Date	ENG*	[0 to 255 / 0 / 1]
7-932-021	Toner Bottle C	End Date	ENG*	[0 to 255 / 0 / 1]
7-933-001	Toner Bottle M	MachineSerialID	ENG*	[0 to 255 / 0 / 1]
7-933-002	Toner Bottle M	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-933-003	Toner Bottle M	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-933-004	Toner Bottle M	Area ID	ENG*	[0 to 255 / 0 / 1]
7-933-005	Toner Bottle M	Product ID	ENG*	[0 to 255 / 0 / 1]
7-933-006	Toner Bottle M	Color ID	ENG*	[0 to 255 / 0 / 1]
7-933-007	Toner Bottle M	Maintenance ID	ENG*	[0 to 255 / 0 / 1]
7-933-008	Toner Bottle M	New Info	ENG*	[0 to 255 / 0 / 1]
7-933-009	Toner Bottle M	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-933-	Toner Bottle M	Date	ENG*	[0 to 255 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
010				
7-933-011	Toner Bottle M	SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-933-012	Toner Bottle M	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-933-013	Toner Bottle M	EDP Code	ENG*	[0 to 255 / 0 / 1]
7-933-014	Toner Bottle M	End History	ENG*	[0 to 1 / 0 / 1]
7-933-015	Toner Bottle M	Refill Info	ENG*	[0 to 99 / 0 / 1]
7-933-016	Toner Bottle M	Set: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-933-017	Toner Bottle M	Set: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-933-018	Toner Bottle M	End: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-933-019	Toner Bottle M	End: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-933-020	Toner Bottle M	Set Date	ENG*	[0 to 255 / 0 / 1]
7-933-021	Toner Bottle M	End Date	ENG*	[0 to 255 / 0 / 1]
7-934-001	Toner Bottle Y	MachineSerialID	ENG*	[0 to 255 / 0 / 1]
7-934-002	Toner Bottle Y	Cartridge Ver	ENG*	[0 to 255 / 0 / 1]
7-934-003	Toner Bottle Y	Brand ID	ENG*	[0 to 255 / 0 / 1]
7-934-004	Toner Bottle Y	Area ID	ENG*	[0 to 255 / 0 / 1]
7-934-005	Toner Bottle Y	Product ID	ENG*	[0 to 255 / 0 / 1]
7-934-006	Toner Bottle Y	Color ID	ENG*	[0 to 255 / 0 / 1]
7-934-007	Toner Bottle Y	Maintenance ID	ENG*	[0 to 255 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-934-008	Toner Bottle Y	New Info	ENG*	[0 to 255 / 0 / 1]
7-934-009	Toner Bottle Y	Recycle Counter	ENG*	[0 to 255 / 0 / 1]
7-934-010	Toner Bottle Y	Date	ENG*	[0 to 255 / 0 / 1]
7-934-011	Toner Bottle Y	SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-934-012	Toner Bottle Y	Toner Remaining	ENG*	[0 to 100 / 100 / 1%]
7-934-013	Toner Bottle Y	EDP Code	ENG*	[0 to 255 / 0 / 1]
7-934-014	Toner Bottle Y	End History	ENG*	[0 to 1 / 0 / 1]
7-934-015	Toner Bottle Y	Refill Info	ENG*	[0 to 99 / 0 / 1]
7-934-016	Toner Bottle Y	Set: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-934-017	Toner Bottle Y	Set: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-934-018	Toner Bottle Y	End: Total Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-934-019	Toner Bottle Y	End: Color Cnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-934-020	Toner Bottle Y	Set Date	ENG*	[0 to 1 / 0 / 1]
7-934-021	Toner Bottle Y	End Date	ENG*	[0 to 1 / 0 / 1]
7-935-001	Toner Log : Bk	Log1:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-935-002	Toner Log : Bk	Log1:Set Date	ENG*	[0 to 255 / 0 / 1]
7-935-003	Toner Log : Bk	Log1:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-935-004	Toner Log : Bk	Log1:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-935-	Toner Log : Bk	Log2:SerialNo.	ENG*	[0 to 255 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
7-935-006	Toner Log : Bk	Log2:Set Date	ENG*	[0 to 255 / 0 / 1]
7-935-007	Toner Log : Bk	Log2:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-935-008	Toner Log : Bk	Log2:Refill Info	ENG*	[0 to 1 / 0 / 1]
7-935-009	Toner Log : Bk	Log3:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-935-010	Toner Log : Bk	Log3:Set Date	ENG*	[0 to 255 / 0 / 1]
7-935-011	Toner Log : Bk	Log3:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-935-012	Toner Log : Bk	Log3:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-935-013	Toner Log : Bk	Log4:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-935-014	Toner Log : Bk	Log4:Set Date	ENG*	[0 to 255 / 0 / 1]
7-935-015	Toner Log : Bk	Log4:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-935-016	Toner Log : Bk	Log4:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-935-017	Toner Log : Bk	Log5:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-935-018	Toner Log : Bk	Log5:Set Date	ENG*	[0 to 255 / 0 / 1]
7-935-019	Toner Log : Bk	Log5:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-935-020	Toner Log : Bk	Log5:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-936-001	Toner Log : C	Log1:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-936-002	Toner Log : C	Log1:Set Date	ENG*	[0 to 255 / 0 / 1]
7-936-003	Toner Log : C	Log1:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-936-004	Toner Log : C	Log1:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-936-005	Toner Log : C	Log2:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-936-006	Toner Log : C	Log2:Set Date	ENG*	[0 to 255 / 0 / 1]
7-936-007	Toner Log : C	Log2:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-936-008	Toner Log : C	Log2:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-936-009	Toner Log : C	Log3:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-936-010	Toner Log : C	Log3:Set Date	ENG*	[0 to 255 / 0 / 1]
7-936-011	Toner Log : C	Log3:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-936-012	Toner Log : C	Log3:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-936-013	Toner Log : C	Log4:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-936-014	Toner Log : C	Log4:Set Date	ENG*	[0 to 255 / 0 / 1]
7-936-015	Toner Log : C	Log4:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-936-016	Toner Log : C	Log4:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-936-017	Toner Log : C	Log5:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-936-018	Toner Log : C	Log5:Set Date	ENG*	[0 to 255 / 0 / 1]
7-936-019	Toner Log : C	Log5:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-936-020	Toner Log : C	Log5:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-937-001	Toner Log : M	Log1:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-937-	Toner Log : M	Log1:Set Date	ENG*	[0 to 255 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
7-937-003	Toner Log : M	Log1:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-937-004	Toner Log : M	Log1:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-937-005	Toner Log : M	Log2:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-937-006	Toner Log : M	Log2:Set Date	ENG*	[0 to 255 / 0 / 1]
7-937-007	Toner Log : M	Log2:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-937-008	Toner Log : M	Log2:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-937-009	Toner Log : M	Log3:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-937-010	Toner Log : M	Log3:Set Date	ENG*	[0 to 255 / 0 / 1]
7-937-011	Toner Log : M	Log3:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-937-012	Toner Log : M	Log3:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-937-013	Toner Log : M	Log4:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-937-014	Toner Log : M	Log4:Set Date	ENG*	[0 to 255 / 0 / 1]
7-937-015	Toner Log : M	Log4:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-937-016	Toner Log : M	Log4:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-937-017	Toner Log : M	Log5:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-937-018	Toner Log : M	Log5:Set Date	ENG*	[0 to 255 / 0 / 1]
7-937-019	Toner Log : M	Log5:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-937-020	Toner Log : M	Log5:Refill Info	ENG*	[0 to 99 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-938-001	Toner Log : Y	Log1:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-938-002	Toner Log : Y	Log1:Set Date	ENG*	[0 to 255 / 0 / 1]
7-938-003	Toner Log : Y	Log1:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-938-004	Toner Log : Y	Log1:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-938-005	Toner Log : Y	Log2:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-938-006	Toner Log : Y	Log2:Set Date	ENG*	[0 to 255 / 0 / 1]
7-938-007	Toner Log : Y	Log2:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-938-008	Toner Log : Y	Log2:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-938-009	Toner Log : Y	Log3:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-938-010	Toner Log : Y	Log3:Set Date	ENG*	[0 to 255 / 0 / 1]
7-938-011	Toner Log : Y	Log3:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-938-012	Toner Log : Y	Log3:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-938-013	Toner Log : Y	Log4:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-938-014	Toner Log : Y	Log4:Set Date	ENG*	[0 to 255 / 0 / 1]
7-938-015	Toner Log : Y	Log4:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]
7-938-016	Toner Log : Y	Log4:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-938-017	Toner Log : Y	Log5:SerialNo.	ENG*	[0 to 255 / 0 / 1]
7-938-018	Toner Log : Y	Log5:Set Date	ENG*	[0 to 255 / 0 / 1]
7-938-	Toner Log : Y	Log5:Set:TotalCnt	ENG*	[0 to 0xFFFFFFFF / 0 / 1]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
019				
7-938-020	Toner Log : Y	Log5:Refill Info	ENG*	[0 to 99 / 0 / 1]
7-952-021	PM Yield Setting	Day Thres:PCDU: K	ENG*	[0 to 2 / 1 / 1]
7-952-022	PM Yield Setting	Day Thres:PCDU:FC	ENG*	[0 to 2 / 1 / 1]
7-952-033	PM Yield Setting	Day Thres:Trans	ENG*	[0 to 2 / 1 / 1]
7-952-035	PM Yield Setting	Day Thres:Fuser	ENG*	[0 to 2 / 1 / 1]
7-952-071	PM Yield Setting	Day Rate:Trans	ENG*	[0.1 to 25.5 / 0.1 / 0.1%]
7-952-073	PM Yield Setting	Day Rate:Fuser	ENG*	[0.1 to 25.5 / 0.1 / 0.1%]
7-952-076	PM Yield Setting	Day Rate:PTR	ENG*	[0.1 to 25.5 / 0.1 / 0.1%]

## Controller SP Tables

### SP1-XXX (Service Mode)

1001	[Bit Switch]			
001	Bit Switch 1 Settings		0	1
	bit 0	<b>DFU</b>	-	-
	bit 1	Responding with the hostname as the sysName	<b>Model name</b> (PnP name)	Hostname
	This BitSwitch can change the value of the sysName. 0 (default): Model name (PnP name) such as "SP C352DN" 1: Host name			
	bit 2	<b>DFU</b>	-	-
	bit 3	<b>No I/O Timeout</b>	<b>Disabled</b>	Enabled
	Enables/Disables I/O Timeouts. If enabled, the I/O Timeout setting will have no affect. I/O Timeouts will never occur.			
	bit 4	<b>SD Card Save Mode</b>	<b>Disabled</b>	Enabled
	If this bit switch is enabled, print jobs will be saved to the GW SD slot and not output to paper.			
	bit 5	<b>[PS and PDF] Paper size error margin</b>	<b>±5pt</b>	±10pt
When a PS job is printed by using a custom paper size, the job might not be printed because of a paper size mismatch caused by a calculation error. By default, the error margin for matching to a paper size is ±5 points. By enabling this BitSwitch, the error margin for matching to a paper size can be extended to ±10 points.				
bit 6	<b>Color balance switching</b>	<b>0:Disabled</b>	1:Enabled	
This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance that is equivalent to Fuji-Xerox printers will be used.				
bit 7	<b>[RPCS,PCL]: Printable area frame border</b>	<b>Disabled</b>	Enabled	
Prints all RPCS and PCL jobs with a border around the printable area.				

1001	[Bit Switch]			
002	Bit Switch 2 Settings		0	1
	bit 0	<b>Color balance switching</b>	<b>Disabled</b>	Enabled
This BitSwitch can be used to restore the color balance to match that of previous				

4.SP Mode Tables (for Printer Model)

	<p>models. If this BitSwitch is set to "1" (Enabled), the color balance from 09S and earlier models will be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>If the BitSwitches #2-0, #2-4 and #1-6 are respectively configured to "1", their configurations will be given priority in the following order: #2-0 &gt; #2-4 &gt; #1-6.</li> </ul>		
bit 1	<b>RPCS: Switching between normal printing mode and 2-color printing mode for color absence prevention</b>	<b>OFF (Normal mode)</b>	ON (Color absence prevention mode)
bit 2	<b>DFU</b>	-	-
bit 3	<b>[PCL5e/c,PS]: PDL Auto Switching</b>	<b>Enabled</b>	Disabled
	<p>Enables/Disables the machine's ability to change the PDL processor mid-job. Some host systems submit jobs that contain both PS and PCL5e/c. If Auto PDL switching is disabled, these jobs will not be printed properly.</p>		
bit 4	<b>Color balance switching</b>	<b>Disabled</b>	Enabled
	<p>This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance from 09A and Extended 09A models will be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>If the BitSwitches #2-0, #2-4 and #1-6 are respectively configured to "1", their configurations will be given priority in the following order: #2-0 &gt; #2-4 &gt; #1-6.</li> </ul>		
bit 5	<b>DFU</b>	-	-
bit 6	<b>Switch dither</b> *Please refer to RTB#RD014018	<b>Use normal dither</b>	Use alternative dither
bit 7	<b>Switching of in-process print mode</b>	<b>Normal mode</b>	In-process mode

<b>1001</b>	<b>[Bit Switch]</b>		
003	Bit Switch 3 Settings	0	1
bit 0	<b>RPDL/R98/R55/R16: Switching font size of OCR-B</b>	<b>OFF (Conventional font size)</b>	ON (New font size)
bit 1	<b>RPDL: Switching ON/OFF the display of "86%" option in the "Scaling" menu of the printing condition settings</b>	<b>OFF (Not displayed)</b>	ON (Displayed)
bit	<b>[PCL5e/c]: Legacy HP compatibility</b>	<b>Disabled</b>	Enabled

## 4.SP Mode Tables (for Printer Model)

2	Uses the same left margin as older HP models such as HP4000/HP8000. In other words, the left margin defined in the job (usually "<ESC>*r0A") will be changed to "<ESC>*r1A".		
bit 3	<b>RPGL: Switching ON/OFF the "Reduce the line width of 0.3 mm or thicker pens by 1 dot" function for color machine</b>	<b>(Do not reduce by 1 dot)</b>	ON (Reduce by 1 dot)
bit 4	<b>RPDL, R16, R55, R98, GL/GL2: Ignore one byte in data greater than 0x80 when the host power is turned ON</b>	<b>OFF (Do not ignore)</b>	ON (Ignore)
bit 5	<b>RPDL: Selection of paper feed tray allocation</b>	<b>LP type</b>	MFP type
bit 6	<b>R16, R55, R98: Selection of paper feed tray allocation</b>	<b>LP type</b>	MFP type
bit 7	<b>DFU</b>	-	-

<b>1001</b>	<b>[Bit Switch]</b>		
004	Bit Switch 4 Settings	0	1
bit 0	<b>RPDL, R16, R55, R98: Fill enclosed areas of simple graphics</b>	<b>OFF (Do not fill)</b>	ON (Fill)
bit 1	<b>R98: Avoid clearing 2-byte external characters</b>	<b>OFF (Clear)</b>	ON (Do not clear)
bit 2	<b>R16: Avoid resetting portrait/landscape settings by reset command</b>	<b>OFF</b>	ON
bit 3	<b>DFU</b>	-	-
bit 4	<b>RPDL, R16, R55, R98, GL/GL2: Hide/show the display of error messages No. 84 to DF</b>	<b>OFF (Display)</b>	ON (Do not display)
bit 5	<b>RPDL, R16, R55, R98, GL/GL2: Hide/show the display of error messages No. E1 onwards</b>	<b>OFF (Display)</b>	ON (Do not display)
bit 6	<b>DFU</b>	-	-
bit 7	<b>DFU</b>	-	-

4.SP Mode Tables (for Printer Model)

1001		[Bit Switch]		
005	Bit Switch 5 Settings		0	1
	bit 0	<b>DFU</b>	-	-
	bit 1	<b>Multiple copies if a paper size or type mismatch occurs</b>	<b>Disabled (single copy)</b>	Enabled (multiple)
	If a paper size or type mismatch occurs during the printing of multiple copies, only a single copy is output by default. Using this BitSw, the device can be configured to print all copies even if a paper mismatch occurs.			
	bit 2	<b>Prevent SDK applications from altering the contents of a job.</b>	<b>Disabled</b>	Enabled
	If this switch is enabled, SDK applications will not be able to alter print data. This is achieved by preventing SDK applications from accessing a module called the "GPS Filter". Note: The main purpose of this switch is for troubleshooting the effects of SDK applications on data.			
	bit 3	<b>[PS] PS Criteria</b>	<b>Pattern3</b>	Pattern1
	Change the number of PS criterion used by the PS interpreter to determine whether a job is PS data or not. Pattern3: includes most PS commands. Pattern1: A small number of PS tags and headers			
bit 4	<b>Increase max number of the stored jobs.</b>	<b>Disabled (100)</b>	Enabled (750)	
Changes the maximum number of jobs that can be stored on the HDD. The default (disabled) is 100. If this is enabled, the max. will be raised to 750.				
bit 5	<b>DFU</b>	-	-	

1001		[Bit Switch]		
005	Bit Switch 5 Settings		0	1
	bit 6	<b>Method for determining the image rotation for the edge to bind on.</b>	<b>Disabled</b>	Enabled
	If enabled, the image rotation will be performed as they were in the specifications of older models for the binding of pages of mixed orientation jobs. The old models are below: - PCL: Pre-04A models - PS/PDF/RPCS:Pre-05S models			
bit 7	<b>Letterhead mode printing</b>	<b>Disabled</b>	Enabled (Duplex)	

4.SP Mode Tables (for Printer Model)

	<p>Routes all pages through the duplex unit.</p> <p>If this is disabled, simplex pages or the last page of an odd-paged duplex job, are not routed through the duplex unit. This could result in problems with letterhead/pre-printed pages.</p> <p>Only affects pages specified as Letterhead paper.</p>
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<b>1001</b>	<b>[Bit Switch]</b>		
006	Bit Switch 6 Settings <b>DFU</b>	-	-

<b>1001</b>	<b>[Bit Switch]</b>		
007	Bit Switch 7 Settings	0	1
	bit <b>DFU</b>	-	-
	bit <b>MSIS: Setting to LT-size medical receipt continuation sheet mode</b>	<b>Normal mode (11"x8.5")</b>	Receipt continuation sheet mode (239 mm x 210 mm)
	bit <b>RPDL: Addition of 3 characters for ruling line</b>	<b>Not added</b>	Added
	bit <b>RPCS: Inhibition of overwrap judgment process</b>	<b>Not inhibited</b>	Inhibited
	bit <b>RPCS: Inhibition of Black Over Print</b>	<b>Not inhibited</b>	Inhibited
	bit <b>DFU</b>	-	-
	bit <b>MSIS: Insert a blank back page when performing duplex printing of an odd number of pages</b>	<b>Inserted</b>	Not inserted
	bit <b>DFU</b>	-	-

<b>1001</b>	<b>[Bit Switch]</b>		
008	Bit Switch 8 Settings	0	1
	bit <b>MSIS: Enable switching of binding margin position in the same duplex printing job</b> <b>Enable switching of binding position on a per-page basis in a duplex printing job</b>	<b>Enabled DAZEL mode Compatible with non-GW machine (Switching enabled)</b>	Disabled (Switching disabled)

4.SP Mode Tables (for Printer Model)

		If the function is enabled, "Switching of binding margin position in the same duplex printing job" will also work.		
bit 1	<b>MSIS/RPCS: Count data indicated in debug messages</b>	<b>Disabled</b>	Enabled	
bit 2	<b>R16, R55, R98: Setting the scope of 11-inch settings</b>	<b>A4 landscape 67x67% is set as scope of 11-inch settings</b>	Not set (Compatible with former models)	
bit 3	<b>[PCL,PS]: Allow BW jobs to print without requiring User Code</b>	<b>Disabled</b>	Enabled (allow BW jobs to print without a user code)	
	BW jobs submitted without a user code will be printed even if usercode authentication is enabled. Note: Color jobs will not be printed without a valid user code.			
bit 4	<b>PCL: Switching to custom-built EdgeToEdge (Tailored to BMS)</b>	<b>Disabled (Normal EdgeToEdge is applied)</b>	Enabled (Custom-built EdgeToEdge is applied)	
	Valid only for PCL5			

<b>1001</b>	<b>[Bit Switch]</b>			
008	Bit Switch 8 Settings	0	1	
bit 5	<b>RTIFF (TIFFDP): Switching of default values of printing conditions</b>	<b>Default values for model 07A series and later</b>	Default values for model 06A series and earlier	
bit 6	<b>PCL, RPCS, PS: Forced BW print</b>	<b>Enabled</b>	Disabled	
	Switches whether to ignore PDL color command.			
bit 7	<b>RTIFF (TIFFDP): Switching of image rotation angle</b>	<b>Disabled</b>	Enabled MSIS compatible mode	
	If the orientation of an image does not match that of the sheet, the angle of the image can be changed. If the function is disabled, the angle of the image will be kept at 270°. With the function enabled, the image will be rotated by 90° only if the following criteria are met: -The machine is capable of rotating expanded images. -Printing conditions allow rotation of expanded images. -Limitless paper feed is enabled or finishing process is disabled. -In the orientation setting menu, 90° or 180° is selected.			

4.SP Mode Tables (for Printer Model)

<b>1001</b>		<b>[Bit Switch]</b>	
009	Bit Switch 9 Settings	0	1
bit 0	<b>PDL Auto Detection timeout of jobs submitted via USB or Parallel Port (IEEE 1284).</b>	<b>Disabled (Immediately)</b>	Enabled (10 seconds)
To be used if PDL auto-detection fails. A failure of PDL autodetection doesn't necessarily mean that the job can't be printed. This bit switch tells the device whether to time-out immediately (default) upon failure or to wait 10 seconds.			
bit 1	DFU	-	-
bit 2	<b>Job Cancel</b>	<b>Disabled (Not cancelled)</b>	Enabled (Cancelled)
If this bit switch, all jobs will be cancelled after a jam occurs. Note: If this bit switch is enabled, printing under the following conditions might result in problems: - Job submission via USB or Parallel Port - Spool printing (WIM > Configuration > Device Settings > System)			
bit 3	<b>DFU</b>	-	-
bit 4	<b>Timing of the PDL Status ReadBack (JOB END) when printing multiple collated copies.</b>	<b>Disable</b>	Enable
This switch determines the timing of the PDL USTATUS JOB END sent when multiple collated copies are being printed. 0 (default): JOB END is sent by the device to the client after the first copy has completed printing. This causes the page counter to be incremented after the first copy and then again at the end of the job. 1: JOB END is sent by the device to the client after the last copy has finished printing. This causes the page counter to be incremented at the end of each job.			

<b>1001</b>		<b>[Bit Switch]</b>	
009	Bit Switch 9 Settings	0	1
bit 5	<b>Display UTF-8 text in the operation panel</b>	<b>Enabled</b>	Disabled
Enabled (=0): Text composed of UTF-8 characters can be displayed in the operation panel. Disabled (=1): UTF-8 characters cannot be displayed in the operation panel. For example, job names are sometimes stored in the MIB using UTF-8 encoded characters. When these are displayed on the operation panel, they will be garbled unless this switch is enabled (=0).			



4.SP Mode Tables (for Printer Model)

6	bit	<b>Disable super option</b>	<b>OFF</b>	ON
	Switches super option disable on / off. If this is On, multiple jobs are grouped at LPR port. PjL settings are enabled even jobs that are specified queue names are sent.			
7	bit	<b>Enable/Disable Print from USB/SD's Preview function</b>	<b>Enabled</b>	Disabled
	Determines whether Print from USB/SD will have the Preview function. Enabled (=0): Print from USB/SD will have the Preview function. Disabled (=1): Print from USB/SD will not have the Preview function.			

<b>1001</b>	<b>[Bit Switch]</b>			
010	Bit Switch A Settings		0	1
	bit	<b>DFU</b>	-	-
	0			
	bit	<b>DFU</b>	-	-
	1			
	bit	<b>DFU</b>	-	-
	2			
	bit	<b>DFU</b>	-	-
	3			
bit	<b>DFU</b>	-	-	
4				
bit	<b>Store and Skip Errored Job locks the queue</b>	<b>Queue is not locked after SSEJ</b>	Queue locked after SSEJ	
5	If this is 1, then after a job is stored using Store and Skip Errored Job (SSEJ), new jobs cannot be added to the queue until the stored job has been completely printed.			
bit	<b>Allow use of Auto Job Promotion if connected to an external charge device.</b>	<b>Does not allow AJP with ECD</b>	Allows AJP with ECD	
6	If this is 0, Auto Job Promotion will be automatically disabled if an external charge device is connected. Note: We do not officially support enabling this switch (1). Use it at your own risk.			
bit	<b>DFU</b>	-	-	
7				

<b>1001</b>	<b>[Bit Switch]</b>			
011	Bit Switch B Settings		0	1
	bit	<b>DFU</b>	-	-
0				

4.SP Mode Tables (for Printer Model)

bit	1	<b>Print job interruption</b>	<b>Does not allow interruption</b>	Allow interruption
	<p>0 (default): Print jobs are not interrupted. If a job is promoted to the top of the print queue, it will wait for the currently printing job to finish.</p> <p>1: If a job is promoted to the top of the queue, it will interrupt the currently printing job and start printing immediately.</p>			
	2	<b>In the manual feed free mode, the manual feed tray is included within/excluded from the scope of the limitless paper feed function</b>	<b>Included within scope</b>	xcluded from scope
	3	<b>DFU</b>	-	-
	4	<b>Add/do not add tray lock to tray overwriting criteria</b>	<b>Do not add</b>	Add
	5	<b>DFU</b>	-	-
	6	<b>Disable/do not disable the selection of trays that are not included in the choices of automatic tray selection in the Forced Print screen</b>	<b>Do not disable</b>	Disable
7	<b>DFU</b>	-	-	

<b>1001</b>	<b>[Bit Switch]</b>		
012	Bit Switch C Settings	0	1
bit	<b>DFU</b>	-	-
0			
bit	<b>DFU</b>	-	-
1			
bit	<b>DFU</b>	-	-
2			
bit	<b>DFU</b>	-	-
3			
bit	<b>DFU</b>	-	-
4			
bit	<b>Change the user ID type displayed on the operation panel</b>	<b>Login User Name</b>	User ID
5	<p>As of 15S models, the Login User Name can be displayed on the operation panel. The user ID type displayed on the operation panel can be changed by configuring BitSwitch #12-5 as follows:</p>		

4.SP Mode Tables (for Printer Model)

		- 0 (default): Login User Name - 1: User ID. If this is enabled, User ID will be displayed, which is equivalent to the behavior exhibited in 14A and earlier models.		
	bit	<b>Ability to use AirPrint</b>	<b>Enabled</b>	Disabled
	6	For 15S and later models that support AirPrint, AirPrint can be disabled by changing this Bit Switch from 0 (default) to 1.		
	Bit	DFU		
	7			

<b>1003</b>	<b>[Clear Setting]</b>			
1-003-001	Initialize Printer System	*CTL	[- / - / -] [Execute]	
	Initializes settings in the "System" menu of the user mode.			
1-003-003	Delete Program	*CTL	[- / - / -] [Execute]	

<b>1004</b>	<b>[Print Summary]</b>			
	Prints the service summary sheet (a summary of all the controller settings).			
1-004-001	Print Printer Summary	CTL	[- / - / -] [Execute]	

<b>1007</b>	<b>[Supply Display]</b>			
	Sets displaying remaining supply amount information or not. 0: Displays remaining supply amount information 1: Does not display remaining supply amount information			
1-007-001	Development	*CTL	[0 or 1 / 1 / 1 /step]	
1-007-002	PCU	*CTL	*The Default setting is 1 but the Factory setting is 0	
1-007-003	Transfer	*CTL		
1-007-004	Int. Transfer	*CTL		
1-007-005	Transfer Roller	*CTL		
1-007-006	Fuser	*CTL		
1-007-007	Fuser Oil	*CTL		

<b>1101</b>	<b>[Data Recall]</b>			
	Recalls a set of gamma settings. This can be either a) the factory setting, b) the previous setting, or c) the current setting.			
1-101-001	Factory	*CTL	[- / - / -] [Execute]	

4.SP Mode Tables (for Printer Model)

1-101-002	Previous	*CTL	
1-101-003	TCurrent	*CTL	

<b>1102</b>	<b>[Resolution Setting]</b>		
	Selects the printing mode (resolution) for the printer gamma adjustment.		
1-102-001	Tone Control Media Selection	CTL	[0 to 7 / 0 / 1/step] 0: 1200x1200Photo 1: 600x600Photo 2: 600x600 Photo 3: 600x600 Photo 4: 1200x1200 Text 5: 600x600 Text 6: 600x600 Text 7: 600x600 Text

<b>1103</b>	<b>[Test Page]</b>		
	Prints the test page to check the color balance before and after the gamma adjustment.		
1-103-001	Color Gray Scale	CTL	[ - / - / - ]
1-103-002	Color Pattern	CTL	[Execute]

<b>1104</b>	<b>[Gamma Adjustment]</b>		
	Adjusts the printer gamma for the mode selected in the "Mode Selection" menu.		
1-104-001	Black 1: Highlight	CTL	[0 to 255 / 0 / 1/step ]
1-104-002	Black 2: Shadow	CTL	
1-104-003	Black 3: Middle	CTL	
1-104-004	Black 4: IDmac	CTL	
1-104-005	Tone Control Value Setting: Black 5	CTL	
1-104-006	Tone Control Value Setting: Black 6	CTL	
1-104-007	Tone Control Value Setting: Black 7	CTL	
1-104-008	Tone Control Value Setting: Black 8	CTL	
1-104-009	Tone Control Value Setting: Black 9	CTL	
1-104-010	Tone Control Value Setting: Black 10	CTL	
1-104-011	Tone Control Value Setting: Black 11	CTL	
1-104-012	Tone Control Value Setting: Black 12	CTL	
1-104-013	Tone Control Value Setting: Black 13	CTL	
1-104-014	Tone Control Value Setting: Black 14	CTL	

4.SP Mode Tables (for Printer Model)

1-104-015	Tone Control Value Setting: Black 15	CTL	
1-104-021	Cyan 1: Highlight	CTL	[0 to 255 / 0 / 1/step ]
1-104-022	Cyan 2: Shadow	CTL	
1-104-023	Cyan 3: Middle	CTL	
1-104-024	Cyan 4: IDmac	CTL	
1-104-025	Tone Control Value Setting: Cyan 5	CTL	
1-104-026	Tone Control Value Setting: Cyan 6	CTL	
1-104-027	Tone Control Value Setting: Cyan 7	CTL	
1-104-028	Tone Control Value Setting: Cyan 8	CTL	
1-104-029	Tone Control Value Setting: Cyan 9	CTL	
1-104-030	Tone Control Value Setting: Cyan 10	CTL	
1-104-031	Tone Control Value Setting: Cyan 11	CTL	
1-104-032	Tone Control Value Setting: Cyan 12	CTL	
1-104-033	Tone Control Value Setting: Cyan 13	CTL	
1-104-034	Tone Control Value Setting: Cyan 14	CTL	
1-104-035	Tone Control Value Setting: Cyan 15	CTL	
1-104-041	Magenta 1: Highlight	CTL	[0 to 255 / 0 / 1/step ]
1-104-042	Magenta 2: Shadow	CTL	
1-104-043	Magenta 3: Middle	CTL	
1-104-044	Magenta 4: IDmac	CTL	
1-104-045	Tone Control Value Setting: Magenta 5	CTL	
1-104-046	Tone Control Value Setting: Magenta 6	CTL	
1-104-047	Tone Control Value Setting: Magenta 7	CTL	
1-104-048	Tone Control Value Setting: Magenta 8	CTL	
1-104-049	Tone Control Value Setting: Magenta 9	CTL	
1-104-050	Tone Control Value Setting: Magenta 10	CTL	
1-104-051	Tone Control Value Setting: Magenta 11	CTL	
1-104-052	Tone Control Value Setting: Magenta 12	CTL	
1-104-053	Tone Control Value Setting: Magenta 13	CTL	
1-104-054	Tone Control Value Setting: Magenta 14	CTL	
1-104-055	Tone Control Value Setting: Magenta 15	CTL	
1-104-061	Yellow 1: Highlight	CTL	[0 to 255 / 0 / 1/step ]
1-104-062	Yellow 2: Shadow	CTL	
1-104-063	Yellow 3: Middle	CTL	
1-104-064	Yellow 4: IDmac	CTL	
1-104-065	Tone Control Value Setting: Yellow 5	CTL	
1-104-066	Tone Control Value Setting: Yellow 6	CTL	
1-104-067	Tone Control Value Setting: Yellow 7	CTL	

## 4.SP Mode Tables (for Printer Model)

1-104-068	Tone Control Value Setting: Yellow 8	CTL	
1-104-069	Tone Control Value Setting: Yellow 9	CTL	
1-104-070	Tone Control Value Setting: Yellow 10	CTL	
1-104-071	Tone Control Value Setting: Yellow 11	CTL	
1-104-072	Tone Control Value Setting: Yellow 12	CTL	
1-104-073	Tone Control Value Setting: Yellow 13	CTL	
1-104-074	Tone Control Value Setting: Yellow 14	CTL	
1-104-075	Tone Control Value Setting: Yellow 15	CTL	

<b>1105</b>	<b>[Save Tone Control Value]</b>		
	Stores the print gamma adjusted with the "Gamma Adj." menu item as the current setting. Before the machine stores the new "current setting", it moves the data currently stored as the "current setting" to the "previous setting" memory storage location.		
1-105-001	Save Tone Control Value	*CTL	[ - / - / - ] [Execute]

<b>1106</b>	<b>[Toner Limit]</b>		
	Adjusts the maximum toner amount for image development.		
1-106-001	Toner Limit Value	*CTL	[0 to 400 / <b>0</b> / 1 %/step ]

<b>1109</b>	<b>[EconomyColor]</b>		
	Adjusts the maximum toner amount for image development.		
1-109-001	Text	*CTL	[0 to 999 / <b>100</b> / 1 /step ]
1-109-002	Image	*CTL	[0 to 999 / <b>50</b> / 1 /step ]
1-109-003	Line	*CTL	[0 to 999 / <b>30</b> / 1 /step ]
1-109-004	Paint	*CTL	[0 to 999 / <b>30</b> / 1 /step ]

<b>1110</b>	<b>[Media Print Device Setting]</b>		
	Selects the setting for the media print device.		
1-110-002	0: Disable 1: Enable	*CTL	[0 or 1 / <b>1</b> / 1 /step]

<b>1111</b>	<b>[All Job Delete Mode]</b>		
	Selects whether to include an image processing job in jobs subject to full cancellation from the SCS job list.		
1-111-001	0: Excluding New Job 1: Including New Job	*CTL	[0 or 1 / <b>1</b> / 1 /step]

#### 4.SP Mode Tables (for Printer Model)

1112	<b>[Operation when detecting that the supply has run out]</b>		
	Selects whether or not to stop at once or continue printing even on detecting that the supply has run out.		
1-112-001	-	[0 or 1 / 0 / 1/step]	

1113	<b>[IBACC Exec]</b>		
	Sets IBACC correction execution (calculation IBACC gamma) on / off. 0: Not calculate IBACC gamma. (Sets IBACC gamma linear) 1: Calculate IBACC gamma		
1-113-001	0:Off 1:On	*CTL	[0 or 1 / 1 / 1/step]

1114	<b>[IBACC ToneCtISet]</b>		
	Sets back to the previous value of IBACC gamma correction for all resolutions. If there is no previous value, sets to the factory default values.		
1-114-001	Tone (Prev.)	CTL	-
1-114-002	Tone (Factory)	CTL	-

1115	<b>[IBACC Exec Time]</b>		
	Displays the time when IBACC is executed or sets back to the previous / initial value.		
1-115-001	Time	CTL	-

1115	<b>[IBACC Data Copy]</b>		
	Copies the IBACC data file (ibacc.dat) stored in the flash memory to the microSD card.		
1-115-002	-	[0 or 1 / 1 / 1/step]	

1121	<b>[Initial settings menu ON/OFF]</b>		
	Select whether or not to display the initial settings (such as the language, time zone, and summer time settings) when turning the power on for the first time. 0: Not displayed 1: Displayed		
1-121-001	Time	CTL	-

## SP5-XXX (Mode)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-001-001	All Indicators On		CTL	[0 to 0 / 0 / 0]
5-024-001	mm/inch Selection	0:mm 1:inch	CTL*	[0 to 1 / * / 1] NA:1 EU/AP/CHN/TWN: 0
5-045-001	Accounting counter	Counter Method	CTL*	[0 to 7 / 0 / 1]
5-051-001	Refill Toner Disp		CTL*	[0 to 1 / 0 / 1]
5-055-001	DisplayIPAddress		CTL*	[0 to 1 / 0 / 1]
5-083-001	LED Light Switch		CTL*	[0 to 1 / 0 / 1]
5-169-001	CE Login		CTL*	[0 to 1 / 0 / 1]
5-191-002	Power Setting	Power Low Clock Mode	CTL*	[0 to 1 / 1 / 1]
5-195-001	Limitless SW		CTL*	[0 to 1 / 0 / 1]
5-302-002	Set Time	Time Difference	CTL*	[-1440 to 1440 / * / 1] NA: -300 EU/AP:60 CHN/TWN:480
5-305-101	Auto Off Set	Auto Off Limit Set	CTL*	[0 to 1 / 0 / 1]
5-307-001	Daylight Saving Time	ON/OFF	CTL*	[0 to 1 / * / 1] NA/EU:1 AP/CHN/TWN/KOR:0
5-307-003	Daylight Saving Time	Start	CTL*	[0 to 0xffffffff / * / 1] NA:0x03200210 EU:0x03500010 AP:0x10500010 CHN/TWN:0
5-307-004	Daylight Saving Time	End	CTL*	[0 to 0xffffffff / * / 1] NA:0x11100200



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				EU:0x10500100 AP:0x03100000 CHN/TWN:0
5-401-104	Access Control	Authentication Time	CTL*	[0 to 255 / 0 / 1sec]
5-401-162	Access Control	Extend Certification Detail	CTL*	[0 to 0xff / 0 / 1]
5-401-200	Access Control	SDK1 UniqueID	CTL*	[0 to 0xFFFFFFFF / 0 / 1]
5-401-201	Access Control	SDK1 Certification Method	CTL*	[0 to 0xFF / 0 / 1]
5-401-210	Access Control	SDK2 UniqueID	CTL*	[0 to 0xFFFFFFFF / 0 / 1]
5-401-211	Access Control	SDK2 Certification Method	CTL*	[0 to 0xFF / 0 / 1]
5-401-220	Access Control	SDK3 UniqueID	CTL*	[0 to 0xFFFFFFFF / 0 / 1]
5-401-221	Access Control	SDK3 Certification Method	CTL*	[0 to 0xFF / 0 / 1]
5-401-230	Access Control	SDK Cert	CTL*	[0 to 0xff / 0 / 1]
5-401-240	Access Control	Detail Option	CTL*	[0 to 0xff / 0 / 1]
5-404-001	User Code Clear	UsrCodeCtrClr	CTL	[0 to 0 / 0 / 0]
5-404-101	User Code Clear	UsrCodeCtrClr Pmt	CTL*	[0 to 1 / 0 / 1]
5-411-004	LDAP-Certification	Simplified Authentication	CTL*	[0 to 1 / 1 / 1]
5-411-005	LDAP-Certification	Password Null Not Permit	CTL*	[0 to 1 / 1 / 1]
5-411-006	LDAP-Certification	Detail Option	CTL*	[0 to 0xff / 0 / 1]
5-412-100	Krb-Certification	Encrypt Mode	CTL*	[0 to 0xFF / 0x1F / 1]
5-413-	Lockout Setting	Lockout On/Off	CTL*	[0 to 1 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
5-413-002	Lockout Setting	Lockout Threshold	CTL*	[1 to 10 / 5 / 1]
5-413-003	Lockout Setting	Cancel On/Off	CTL*	[0 to 1 / 0 / 1]
5-413-004	Lockout Setting	Cancel Time	CTL*	[1 to 9999 / 60 / 1min]
5-414-001	Access Mitigation	Mitigation On/Off	CTL*	[0 to 1 / 0 / 1]
5-414-002	Access Mitigation	Mitigation Time	CTL*	[0 to 60 / 15 / 1min]
5-415-001	Password Attack	Permission Number	CTL*	[0 to 100 / 30 / 1]
5-415-002	Password Attack	Detect Time	CTL*	[1 to 10 / 5 / 1]
5-416-001	Access Info	User Max Num	CTL*	[50 to 200 / 200 / 1]
5-416-002	Access Info	Password Max Num	CTL*	[50 to 200 / 200 / 1]
5-416-003	Access Info	Monitor Interval	CTL*	[1 to 10 / 3 / 1]
5-417-001	Access Attack	Permission Num	CTL*	[0 to 500 / 100 / 1]
5-417-002	Access Attack	Attack DetectTime	CTL*	[10 to 30 / 10 / 1sec]
5-417-003	Access Attack	Cert Waite	CTL*	[0 to 9 / 3 / 1sec]
5-417-004	Access Attack	Attack Max Num	CTL*	[50 to 200 / 200 / 1]
5-420-041	User Auth	Printer	CTL*	[0 to 1 / 0 / 1]
5-420-051	User Auth	SDK1	CTL*	[0 to 1 / 0 / 1]
5-420-061	User Auth	SDK2	CTL*	[0 to 1 / 0 / 1]
5-420-	User Auth	SDK3	CTL*	[0 to 1 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
071				
5-481-001	Auth. Error Code	System Log Disp	CTL*	[0 to 1 / 0 / 1]
5-501-001	PM Alarm Interval	Printout	CTL*	[0 to 9999 / 0 / 1]
5-504-001	Jam Alarm		CTL*	[0 to 3 / 3 / 1]
5-504-002	Jam Alarm	Threshold	CTL*	[1 to 99 / 10 / 1]
5-505-001	Error Alarm		CTL*	[0 to 255 / 19 / 1]
5-505-002	Error Alarm	Threshold	CTL*	[1 to 99 / 5 / 1]
5-507-001	Supply/CC Alarm	Paper Size	CTL*	[0 to 1 / 0 / 1]
5-507-003	Supply/CC Alarm	Toner	CTL*	[0 to 1 / 1 / 1]
5-507-005	Supply/CC Alarm	Drum	CTL*	[0 to 1 / 1 / 1]
5-507-006	Supply/CC Alarm	WasteTonerBottle	CTL*	[0 to 1 / 1 / 1]
5-507-007	Supply/CC Alarm	Transfer Belt	CTL*	[0 to 1 / 1 / 1]
5-507-008	Supply/CC Alarm	Fusing unit	CTL*	[0 to 1 / 1 / 1]
5-507-080	Supply/CC Alarm	Toner Call Timing	CTL*	[0 to 1 / 0 / 1]
5-507-081	Supply/CC Alarm	Toner Call Thresh	CTL*	[10 to 90 / 10 / 10%]
5-507-128	Supply/CC Alarm	Interval: Others	CTL*	[250 to 10000 / 1000 / 1]
5-507-133	Supply/CC Alarm	Interval: A4	CTL*	[250 to 10000 / 1000 / 1]
5-507-134	Supply/CC Alarm	Interval: A5	CTL*	[250 to 10000 / 1000 / 1]
5-507-	Supply/CC Alarm	Interval: B5	CTL*	[250 to 10000 / 1000 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
142				
5-507-164	Supply/CC Alarm	Interval: LG	CTL*	[250 to 10000 / 1000 / 1]
5-507-166	Supply/CC Alarm	Interval: LT	CTL*	[250 to 10000 / 1000 / 1]
5-507-172	Supply/CC Alarm	Interval: HLT	CTL*	[250 to 10000 / 1000 / 1]
5-508-001	Auto Call Setting	Jam Remains	CTL*	[0 to 1 / 0 / 1]
5-508-002	Auto Call Setting	Frequent Jams	CTL*	[0 to 1 / 0 / 1]
5-508-003	Auto Call Setting	Door Open	CTL*	[0 to 1 / 0 / 1]
5-508-011	Auto Call Setting	Jam Remains:Time	CTL*	[3 to 30 / 10 / 1]
5-508-012	Auto Call Setting	Freq Jam:#of Time	CTL*	[2 to 10 / 5 / 1]
5-508-013	Auto Call Setting	Door Open:Time	CTL*	[3 to 30 / 10 / 1]
5-515-001	SC/Alarm Setting	SC Call	CTL*	[0 to 1 / 1 / 1]
5-515-002	SC/Alarm Setting	Service Parts Near End Call	CTL*	[0 to 1 / 0 / 1]
5-515-003	SC/Alarm Setting	Service Parts End Call	CTL*	[0 to 1 / 0 / 1]
5-515-004	SC/Alarm Setting	User Call	CTL*	[0 to 1 / 1 / 1]
5-515-006	SC/Alarm Setting	Communication Test Call	CTL*	[0 to 1 / 1 / 1]
5-515-007	SC/Alarm Setting	Machine Information Notice	CTL*	[0 to 1 / 1 / 1]
5-515-008	SC/Alarm Setting	Alarm Notice	CTL*	[0 to 1 / 0 / 1]
5-515-009	SC/Alarm Setting	Non Genuine Tonner Aram	CTL*	[0 to 1 / 1 / 1]
5-515-	SC/Alarm Setting	Supply Automatic	CTL*	[0 to 1 / 1 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
010		Ordering Call		
5-515-011	SC/Alarm Setting	Supply Management Report Call	CTL*	[0 to 1 / 1 / 1]
5-515-012	SC/Alarm Setting	Jam/Door Open Call	CTL*	[0 to 1 / 0 / 1]
5-515-050	SC/Alarm Setting	Timeout:Manual Call	CTL*	[1 to 255 / 5 / 1min]
5-515-051	SC/Alarm Setting	Timeout:Other Call	CTL*	[1 to 255 / 10 / 1min]
5-517-061	Get Machine Info	AD exec setting	CTL	[0 to 1 / 0 / 1]
5-517-062	Get Machine Info	AD exec interval	CTL	[0 to 1 / 0 / 1]
5-517-063	Get Machine Info	AD exec weekday	CTL	[0 to 6 / 0 / 1]
5-517-064	Get Machine Info	AD exec hour	CTL	[0 to 23 / 0 / 1]
5-517-065	Get Machine Info	AD exec min	CTL	[0 to 59 / 0 / 1]
5-517-066	Get Machine Info	AD SNMP Community	CTL*	[0 to 0 / 0 / 0]
5-731-001	Counter Effect	Mk1 Paper>Combine	CTL*	[0 to 1 / 0 / 1]
5-749-001	Import/Export	Export	CTL	[0 to 0 / 0 / 0]
5-749-101	Import/Export	Import	CTL	[0 to 0 / 0 / 0]
5-764-001	NFC	GuestNW	CTL*	[0 to 1 / 0 / 1]
5-764-002	NFC	EncryptCom	CTL*	[0 to 1 / 0 / 1]
5-764-003	NFC	Port1	CTL*	[0 to 65535 / 8081 / 1]
5-764-004	NFC	Port2	CTL*	[0 to 65535 / 8080 / 1]
5-764-	NFC	Port3	CTL*	[0 to 65535 / 80 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
5-801-001	Memory Clear	All Clear	CTL	[0 to 0 / 0 / 0]
5-801-003	Memory Clear	SCS	CTL	[0 to 0 / 0 / 0]
5-801-004	Memory Clear	IMH	CTL	[0 to 0 / 0 / 0]
5-801-005	Memory Clear	MCS	CTL	[0 to 0 / 0 / 0]
5-801-008	Memory Clear	Printer	CTL	[0 to 0 / 0 / 0]
5-801-010	Memory Clear	GWWS	CTL	[0 to 0 / 0 / 0]
5-801-011	Memory Clear	NCS	CTL	[0 to 0 / 0 / 0]
5-801-014	Memory Clear	Clear DCS Setting	CTL	[0 to 0 / 0 / 0]
5-801-015	Memory Clear	Clr UCS Setting	CTL	[0 to 0 / 0 / 0]
5-801-016	Memory Clear	MIRS Setting	CTL	[0 to 0 / 0 / 0]
5-801-017	Memory Clear	CCS	CTL	[0 to 0 / 0 / 0]
5-801-018	Memory Clear	SRM Memory Clr	CTL	[0 to 0 / 0 / 0]
5-801-019	Memory Clear	LCS	CTL	[0 to 0 / 0 / 0]
5-801-021	Memory Clear	ECS	CTL	[0 to 0 / 0 / 0]
5-801-025	Cleaer Memory	websys	CTL*	[0 to 0 / 0 / 0]
5-812-001	Service TEL	Telephone	CTL*	[0 to 0 / 0 / 0]
5-812-002	Service TEL	Facsimile	CTL*	[0 to 0 / 0 / 0]
5-816-	NRS Function	I/F Setting	CTL*	[0 to 2 / 2 / 1]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
5-816-002	NRS Function	CE Call	CTL*	[0 to 1 / 0 / 1]
5-816-003	NRS Function	Function Flag	CTL*	[0 to 1 / 0 / 1]
5-816-007	NRS Function	SSL Disable	CTL*	[0 to 1 / 0 / 1]
5-816-008	NRS Function	RCG Connect T/O	CTL*	[1 to 90 / 30 / 1sec]
5-816-009	NRS Function	RCG Write Timeout	CTL*	[0 to 100 / 60 / 1sec]
5-816-010	NRS Function	RCG Read Timeout	CTL*	[0 to 100 / 60 / 1sec]
5-816-011	NRS Function	Port 80	CTL*	[0 to 1 / 0 / 1]
5-816-013	Remote Service	RFU Timing	CTL*	[0 to 1 / 1 / 1]
5-816-014	Remote Service	RCG Error Cause	CTL	[0 to 2 / 0 / 1]
5-816-021	Remote Service	Function Flag	CTL*	[0 to 1 / 0 / 1]
5-816-023	Remote Service	Connect Mode(N/M/3G)	CTL*	[0 to 2 / 0 / 1]
5-816-061	Remote Service	NotiTime ExpTime	CTL*	[0 to 0 / 0 / 1]
5-816-062	Remote Service	HTTP Proxy use	CTL*	[0 to 1 / 0 / 1]
5-816-063	Remote Service	HTTP Proxy Host	CTL*	[0 to 0 / 0 / 0]
5-816-064	Remote Service	HTTP Proxy Port	CTL*	[0 to 0xffff / 0 / 1]
5-816-065	Remote Service	HTTP Prox AutUsr	CTL*	[0 to 0 / 0 / 0]
5-816-066	Remote Service	HTTP Prox AutPass	CTL*	[0 to 0 / 0 / 0]
5-816-	Remote Service	Cer Updt Cond	CTL*	[0 to 255 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
067				
5-816-068	Remote Service	Cer Abnml Cause	CTL*	[0 to 255 / 0 / 1]
5-816-069	Remote Service	Cer Updt ReqID	CTL*	[0 to 0 / 0 / 0]
5-816-083	Remote Service	Firm Updating	CTL*	[0 to 1 / 0 / 1]
5-816-085	Remote Service	Firm UpUsr Conf	CTL*	[0 to 1 / 0 / 1]
5-816-086	Remote Service	Firmware Size	CTL*	[0 to 0xffffffff / 0 / 1]
5-816-087	Remote Service	CERT:MacroVsn	CTL	[0 to 0 / 0 / 0]
5-816-088	Remote Service	CERT:PAC Vsn	CTL	[0 to 0 / 0 / 0]
5-816-089	Remote Service	CERT:ID2 Code	CTL	[0 to 0 / 0 / 0]
5-816-090	Remote Service	CERT:Subject	CTL	[0 to 0 / 0 / 0]
5-816-091	Remote Service	CERT:SeriNum	CTL	[0 to 0 / 0 / 0]
5-816-092	Remote Service	CERT:Issuer	CTL	[0 to 0 / 0 / 0]
5-816-093	Remote Service	CERT:St ExpTime	CTL	[0 to 0 / 0 / 0]
5-816-094	Remote Service	CERT:End ExpTime	CTL	[0 to 0 / 0 / 0]
5-816-102	Remote Service	CERT:Encrypt Lv	CTL*	[1 to 2 / 1 / 1]
5-816-103	Remote Service	ClientCommMethod	CTL*	[0 to 3 / 0 / 1]
5-816-104	Remote Service	Client Comm Limit	CTL*	[1 to 7 / 7 / 1]
5-816-115	Remote Service	NetInfoWaitTimer	CTL*	[5 to 255 / 5 / 1sec]
5-816-	Remote Service	3G DongleID	CTL*	[0 to 0 / 0 / 0]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
190				
5-816-200	Remote Service	Poling Man Exc	CTL	[0 to 1 / 0 / 1]
5-816-201	Remote Service	Instl:Condition	CTL	[0 to 255 / 0 / 1]
5-816-202	Remote Service	Instl:ID #	CTL*	[0 to 0 / 0 / 0]
5-816-203	Remote Service	Instl:Reference	CTL	[0 to 1 / 0 / 1]
5-816-204	Remote Service	Instl:Ref Rslt	CTL	[0 to 255 / 0 / 1]
5-816-205	Remote Service	Instl:Ref Section	CTL	[0 to 1 / 0 / 1]
5-816-206	Remote Service	Instl:Rgstltn	CTL	[0 to 1 / 0 / 1]
5-816-207	Remote Service	Instl:Rgstltn Rst	CTL	[0 to 255 / 0 / 1]
5-816-208	Remote Service	Instl:ErrorCode	CTL	[-2147483647 to 2147483647 / 0 / 0]
5-816-209	Remote Service	Instl Clear	CTL	[0 to 1 / 0 / 1]
5-816-240	Remote Service	CommErrorTime	CTL	[0 to 0 / 0 / 1]
5-816-241	Remote Service	CommErrorCode 1	CTL*	[0 to 0xffffffff / 0x00000000 / 1]
5-816-242	Remote Service	CommErrorCode 2	CTL*	[0 to 0xffffffff / 0x00000000 / 1]
5-816-243	Remote Service	CommErrorCode 3	CTL*	[0 to 0xffffffff / 0x00000000 / 1]
5-816-244	Remote Service	CommErrorState 1	CTL*	[0 to 0xffff / 0x0000 / 1]
5-816-245	Remote Service	CommErrorState 2	CTL*	[0 to 0xffff / 0x0000 / 1]
5-816-246	Remote Service	CommErrorState 3	CTL*	[0 to 0xffff / 0x0000 / 1]
5-816-	Remote Service	SSL Error Count	CTL*	[0 to 255 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
247				
5-816-248	Remote Service	Other Err Count	CTL*	[0 to 255 / 0 / 1]
5-816-250	Remote Service	Print Com Log	CTL	[0 to 255 / 0 / 0]
5-821-002	RCG Setting	RCG IPv4Addr	CTL*	[0 to 0xffffffff / 0 / 1]
5-821-003	RCG Setting	RCG Port	CTL*	[0 to 65535 / 443 / 1]
5-821-004	RCG Setting	RCG IPv4URLPath	CTL*	[0 to 0 / 0 / 0]
5-821-005	RCG Setting	RCG IPv6Addr	CTL*	[0 to 0 / 0 / 0]
5-821-006	RCG Setting	RCG IPv6URLPath	CTL*	[0 to 0 / 0 / 0]
5-821-007	RCG Setting	RCG HostName	CTL*	[0 to 0 / 0 / 0]
5-821-008	RCG Setting	RCG HostURLPath	CTL*	[0 to 0 / 0 / 0]
5-824-001	NVRAM Upload		CTL	[0 to 0 / 0 / 0]
5-825-001	NVRAM Download		CTL	[0 to 0 / 0 / 0]
5-828-065	Network Setting	Job Spooling	CTL*	[0 to 1 / 0 / 1]
5-828-066	Network Setting	Job Spooling Clear: Start Time	CTL*	[0 to 1 / 1 / 1]
5-828-069	Network Setting	Job Spooling (Protocol)	CTL*	[0x00 to 0xff / 0x7f / 0]
5-828-087	Network Setting	Protocol usage	CTL*	[0x00000000 to 0xffffffff / 0x00000000 / 1]
5-828-090	Network Setting	TELNET(0:OFF 1:ON)	CTL*	[0 to 1 / 1 / 1]
5-828-091	Network Setting	Web(0:OFF 1:ON)	CTL*	[0 to 1 / 1 / 1]
5-828-	Network Setting	Active IPv6 Link Local	CTL	[0 to 0 / 0 / 0]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
145		Address		
5-828-147	Network Setting	Active IPv6 Stateless Address 1	CTL	[0 to 0 / 0 / 0]
5-828-149	Network Setting	Active IPv6 Stateless Address 2	CTL	[0 to 0 / 0 / 0]
5-828-151	Network Setting	Active IPv6 Stateless Address 3	CTL	[0 to 0 / 0 / 0]
5-828-153	Network Setting	Active IPv6 Stateless Address 4	CTL	[0 to 0 / 0 / 0]
5-828-155	Network Setting	Active IPv6 Stateless Address 5	CTL	[0 to 0 / 0 / 0]
5-828-156	Network Setting	IPv6 Manual Address	CTL*	[0 to 0 / 0 / 0]
5-828-158	Network Setting	IPv6 Gateway Address	CTL*	[0 to 0 / 0 / 0]
5-828-161	Network Setting	IPv6 Stateless Auto Setting	CTL*	[0 to 1 / 1 / 1]
5-828-236	Network Setting	Web Item visible	CTL*	[0x0000 to 0xffff / 0xffff / 1]
5-828-237	Network Setting	Web shop Link	CTL*	[0 to 1 / 1 / 1]
5-828-238	Network Setting	Web Supplies Link visible	CTL*	[0 to 1 / 1 / 1]
5-828-239	Network Setting	Web Link1 Name	CTL*	[0 to 0 / 0 / 0]
5-828-240	Network Setting	Web Link1 URL	CTL*	[0 to 0 / 0 / 0]
5-828-241	Network Setting	Web Link1 visible	CTL*	[0 to 1 / 1 / 1]
5-828-242	Network Setting	Web Link2 Name	CTL*	[0 to 0 / 0 / 0]
5-828-243	Network Setting	Web Link2 URL	CTL*	[0 to 0 / 0 / 0]
5-828-244	Network Setting	Web Link2 visible	CTL*	[0 to 1 / 1 / 1]
5-828-	Network Setting	DHCPv6 DUID	CTL	[0 to 0 / 0 / 0]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
249				
5-832-002	HDD	HDD Formatting (IMH)	CTL*	[0 to 0 / 0 / 0]
5-840-006	IEEE 802.11	Channel MAX	CTL*	[1 to 14 / 14 / 1]
5-840-007	IEEE 802.11	Channel MIN	CTL*	[1 to 14 / 1 / 1]
5-840-011	IEEE 802.11	WEP Key Select	CTL*	[0x00 to 0x11 / 0x00 / 0]
5-840-045	IEEE 802.11	WPA Debug Lvl	CTL*	[1 to 3 / 3 / 1]
5-840-046	IEEE 802.11	11w	CTL*	[0 to 2 / 0 / 1]
5-840-047	IEEE 802.11	PSK Set Type	CTL*	[0 to 1 / 0 / 1]
5-842-001	GWWS Analysis	Setting 1	CTL*	[0x00 to 0xFF / 0 / 1]
5-842-002	GWWS Analysis	Setting 2	CTL*	[0x00 to 0xFF / 0 / 1]
5-844-001	USB	Transfer Rate	CTL*	[1 to 4 / 4 / 0]
5-844-002	USB	Vendor ID	CTL*	[0x0000 to 0xffff / 0x05ca / 0]
5-844-003	USB	Product ID	CTL*	[0x0000 to 0xffff / 0x0403 / 0]
5-844-004	USB	Device Release Number	CTL*	[0 to 9999 / 100 / 1]
5-844-005	USB	Fixed USB Port	CTL*	[0 to 2 / 0 / 1]
5-844-006	USB	PnP Model Name	CTL*	[0 to 0 / 0 / 0]
5-844-007	USB	PnP Serial Number	CTL*	[0 to 0 / 0 / 0]
5-844-008	USB	Mac Supply Level	CTL*	[0 to 1 / 1 / 1]
5-844-	USB	USB Toggle Clear Mode	CTL*	[0 to 1 / 0 / 1]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
009				
5-844-100	USB	Notify Unsupport	CTL*	[0 to 1 / 1 / 1]
5-845-003	Delivery Srv	Retry Interval	CTL*	[60 to 900 / 300 / 1sec]
5-845-004	Delivery Srv	No. of Retries	CTL*	[0 to 99 / 3 / 1]
5-845-022	Delivery Srv	InstantTrans Off	CTL*	[0 to 1 / 1 / 1]
5-846-010	UCS Setting	LDAP Search TOut	CTL*	[1 to 255 / 60 / 1]
5-846-021	UCS Setting	Folder Auth Chg	CTL*	[0 to 1 / 0 / 1]
5-846-043	UCS Setting	AddrB Media	CTL*	[0 to 30 / 0 / 1]
5-846-047	UCS Setting	Ini Local AddrB	CTL	[0 to 0 / 0 / 0]
5-846-049	UCS Setting	Ini LDAP AddrB	CTL	[0 to 0 / 0 / 0]
5-846-050	UCS Setting	Ini All AddrB	CTL	[0 to 0 / 0 / 0]
5-846-060	UCS Setting	Search option	CTL*	[0x00 to 0xff / 0x0f / 1]
5-846-094	UCS Setting	Encryption Stat	CTL*	[0 to 255 / 0 / 0]
5-848-004	Web Service	ac:UD	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-007	Web Service	ac:Log Fax	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-009	Web Service	ac:Job Ctrl	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-011	Web Service	ac:Dev Mng	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-022	Web Service	ac:Uadmin	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-	Web Service	ac:Rest	CTL*	[0x00 to 0xFF / 0x00 / 0]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
025				
5-849-001	Installation Date	Display	CTL*	[0 to 0 / 0 / 0]
5-849-002	Installation Date	Print	CTL*	[0 to 1 / 0 / 1]
5-849-003	Installation Date	Total Counter	CTL*	[0 to 99999999 / 0 / 1]
5-856-002	Remote ROM Update	Local Port	CTL*	[0 to 1 / 0 / 1]
5-858-001	Save Machine Info	0:OFF 1:ON	CTL*	[0 to 1 / 1 / 1]
5-858-002	Save Machine Info	Target 0:HDD 1:SD 2:Lynx	CTL*	[0 to 2 / 0 / 1]
5-858-003	Save Machine Info	Make LogTrace Dir	CTL*	[0 to 1 / 0 / 0]
5-858-101	Save Machine Info	Start Date	CTL*	[0 to 20371212 / 0 / 1]
5-858-102	Save Machine Info	Days	CTL*	[1 to 180 / 2 / 1day]
5-858-103	Save Machine Info	Fax Mask	CTL*	[0 to 1 / 0 / 1]
5-858-111	Save Machine Info	All Info & Logs	CTL*	[0 to 1 / 0 / 0]
5-858-121	Save Machine Info	ConfigurationPage	CTL*	[0 to 1 / 0 / 0]
5-858-122	Save Machine Info	FontPage	CTL*	[0 to 1 / 0 / 0]
5-858-123	Save Machine Info	PrintSettingList	CTL*	[0 to 1 / 0 / 0]
5-858-124	Save Machine Info	ErrorLog	CTL*	[0 to 1 / 0 / 0]
5-858-131	Save Machine Info	FaxInfo	CTL*	[0 to 1 / 0 / 0]
5-858-141	Save Machine Info	All Logs	CTL*	[0 to 1 / 0 / 0]
5-858-	Save Machine Info	ControllerLogs	CTL*	[0 to 1 / 0 / 0]

#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
142				
5-858-143	Save Machine Info	EngineDebugLogs	CTL*	[0 to 1 / 0 / 0]
5-858-144	Save Machine Info	OpepanelDebugLogs	CTL*	[0 to 1 / 0 / 0]
5-858-145	Save Machine Info	FCU DebugLogs	CTL*	[0 to 1 / 0 / 0]
5-860-002	SMTP/POP3/IMAP4	SMTP Svr Port No	CTL*	[1 to 65535 / 25 / 1]
5-860-003	SMTP/POP3/IMAP4	SMTP Authentication	CTL*	[0 to 1 / 0 / 1]
5-860-006	SMTP/POP3/IMAP4	SMTP Auth. Encryption	CTL*	[0 to 2 / 0 / 1]
5-860-007	SMTP/POP3/IMAP4	POP before SMTP	CTL*	[0 to 1 / 0 / 1]
5-860-008	SMTP/POP3/IMAP4	POPtoSMTP Waiting Time	CTL*	[0 to 10000 / 300 / 1ms]
5-860-009	SMTP/POP3/IMAP4	Mail Receive Protocol	CTL*	[1 to 3 / 1 / 1]
5-860-013	SMTP/POP3/IMAP4	POP3/IMAP4 Auth. Encryption	CTL*	[0 to 2 / 0 / 1]
5-860-014	SMTP/POP3/IMAP4	POP3 Svr Port No	CTL*	[1 to 65535 / 110 / 1]
5-860-015	SMTP/POP3/IMAP4	IMAP4 Svr Port No	CTL*	[1 to 65535 / 143 / 1]
5-860-016	SMTP/POP3/IMAP4	SMTP Rx Port No	CTL*	[1 to 65535 / 25 / 1]
5-860-017	SMTP/POP3/IMAP4	Mail Rx Interval	CTL*	[2 to 1440 / 3 / 1min]
5-860-019	SMTP/POP3/IMAP4	Mail Keep Setting	CTL*	[0 to 2 / 0 / 1]
5-860-020	SMTP/POP3/IMAP4	ParMail RecTOut	CTL*	[1 to 168 / 72 / 1hour]
5-860-021	SMTP/POP3/IMAP4	MDN ResRFC2298	CTL*	[0 to 1 / 1 / 1]
5-860-	SMTP/POP3/IMAP4	SMTPAut FieldRep	CTL*	[0 to 1 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
022				
5-860-025	SMTP/POP3/IMAP4	SMTPAut DirectSet	CTL*	[0 to 0xff / 0 / 1]
5-860-026	SMTP/POP3/IMAP4	S/MIME Header	CTL*	[0 to 2 / 0 / 1]
5-866-001	E-Mail Report	Report Validity	CTL*	[0 to 1 / 0 / 1]
5-866-005	E-Mail Report	Add Date Field	CTL*	[0 to 1 / 0 / 1]
5-869-001	RAM Disk Setting	Mail Function	CTL*	[0 to 1 / 0 / 1]
5-870-001	Common KeyInfo Writing	Writing	CTL*	[0 to 1 / 0 / 1]
5-870-003	Common KeyInfo Writing	Initialize	CTL*	[0 to 1 / 0 / 1]
5-870-004	Com Key Info WR	Writing: 2048bit	CTL*	[0 to 1 / 0 / 1]
5-875-001	SC Auto Reboot	Reboot Mode	CTL*	[0 to 1 / 0 / 1]
5-875-002	SC Auto Reboot	Reboot Method	CTL*	[0 to 1 / 1 / 1]
5-885-205	Set WIM Function	MonitorDisable	CTL*	[0 to 1 / 0 / 1]
5-887-001	SD GetCounter		CTL*	[0 to 0 / 0 / 0]
5-888-001	Person. InfoProt.		CTL*	[0 to 1 / 0 / 1]
5-907-001	Plug & Play		CTL*	[0 to 255 / 0 / 1]
5-990-001	SP Print Mode	All	CTL	[0 to 255 / 0 / 0]
5-990-002	SP Print Mode	SP	CTL	[0 to 255 / 0 / 0]
5-990-004	SP Print Mode	Logging Data	CTL	[0 to 255 / 0 / 0]
5-990-	SP Print Mode	Diagnostic Report	CTL	[0 to 255 / 0 / 0]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
5-990-006	SP Print Mode	Non-Default	CTL	[0 to 255 / 0 / 0]
5-990-007	SP Print Mode	NIB Summary	CTL	[0 to 0 / 0 / 0]
5-990-026	SP Print Mode	Printer SP	CTL	[0 to 255 / 0 / 0]
5-992-001	SP Text Mode	All	CTL	[0 to 255 / 0 / 0]
5-992-002	SP Text Mode	SP	CTL	[0 to 255 / 0 / 0]
5-992-004	SP Text Mode	Logging Data	CTL	[0 to 255 / 0 / 0]
5-992-005	SP Text Mode	Diagnostic Report	CTL	[0 to 255 / 0 / 0]
5-992-006	SP Text Mode	Non-Default	CTL	[0 to 255 / 0 / 0]
5-992-007	SP Text Mode	NIB Summary	CTL	[0 to 0 / 0 / 0]
5-992-026	SP Text Mode	Printer SP	CTL	[0 to 255 / 0 / 0]

#### SP7-XXX (Data Log 1)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-401-001	Total SC	SC Counter	CTL*	[0 to 65535 / 0 / 0]
7-401-002	Total SC	Total SC Counter	CTL*	[0 to 65535 / 0 / 0]
7-403-001	SC History	Latest	CTL*	[0 to 0 / 0 / 0]
7-403-002	SC History	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-403-003	SC History	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-403-004	SC History	Latest 3	CTL*	[0 to 0 / 0 / 0]
7-403-005	SC History	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-403-006	SC History	Latest 5	CTL*	[0 to 0 / 0 / 0]
7-403-007	SC History	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-403-008	SC History	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-403-009	SC History	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-403-010	SC History	Latest 9	CTL*	[0 to 0 / 0 / 0]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-404-001	SW Error History	Latest	CTL*	[0 to 0 / 0 / 0]
7-404-002	SW Error History	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-404-003	SW Error History	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-404-004	SW Error History	Latest 3	CTL*	[0 to 0 / 0 / 0]
7-404-005	SW Error History	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-404-006	SW Error History	Latest 5	CTL*	[0 to 0 / 0 / 0]
7-404-007	SW Error History	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-404-008	SW Error History	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-404-009	SW Error History	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-404-010	SW Error History	Latest 9	CTL*	[0 to 0 / 0 / 0]
7-502-001	Total Paper Jam	Jam Counter	CTL*	[0 to 65535 / 0 / 0]
7-502-002	Total Paper Jam	Total Jam Counter	CTL*	[0 to 65535 / 0 / 0]
7-504-001	Paper Jam Loc	InitJam	CTL*	[0 to 65535 / 0 / 0]
7-504-003	Paper Jam Loc	Tray1NoFeed	CTL*	[0 to 65535 / 0 / 0]
7-504-004	Paper Jam Loc	Tray2NoFeed	CTL*	[0 to 65535 / 0 / 0]
7-504-008	Paper Jam Loc	BypassTrayNoFeed	CTL*	[0 to 65535 / 0 / 0]
7-504-009	Paper Jam Loc	DplxNoFeed	CTL*	[0 to 65535 / 0 / 0]
7-504-023	Paper Jam Loc	RgstSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-504-024	Paper Jam Loc	FusEntSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-504-032	Paper Jam Loc	PprExtSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-504-038	Paper Jam Loc	DplxSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-504-087	Paper Jam Loc	RgstSnsrLgJam	CTL*	[0 to 65535 / 0 / 0]
7-504-096	Paper Jam Loc	PprExtSnsrLgJam	CTL*	[0 to 65535 / 0 / 0]
7-504-102	Paper Jam Loc	DplxSnsrLgJam	CTL*	[0 to 65535 / 0 / 0]
7-506-006	Paper Jam/Size	A5 LEF	CTL*	[0 to 65535 / 0 / 0]
7-506-044	Paper Jam/Size	HLT LEF	CTL*	[0 to 65535 / 0 / 0]
7-506-133	Paper Jam/Size	A4 SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-134	Paper Jam/Size	A5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-142	Paper Jam/Size	B5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-164	Paper Jam/Size	LG SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-166	Paper Jam/Size	LT SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-172	Paper Jam/Size	HLT SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-255	Paper Jam/Size	Other	CTL*	[0 to 65535 / 0 / 0]
7-507-001	Dsply-P Jam Hist	Latest	CTL*	[0 to 0 / 0 / 0]
7-507-002	Dsply-P Jam Hist	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-507-003	Dsply-P Jam Hist	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-507-004	Dsply-P Jam Hist	Latest 3	CTL*	[0 to 0 / 0 / 0]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-507-005	Dsply-P Jam Hist	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-507-006	Dsply-P Jam Hist	Latest 5	CTL*	[0 to 0 / 0 / 0]
7-507-007	Dsply-P Jam Hist	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-507-008	Dsply-P Jam Hist	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-507-009	Dsply-P Jam Hist	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-507-010	Dsply-P Jam Hist	Latest 9	CTL*	[0 to 0 / 0 / 0]
7-514-001	Paper Jam Cnt Loc	InitJam	CTL*	[0 to 65535 / 0 / 0]
7-514-003	Paper Jam Cnt Loc	Tray1NoFeed	CTL*	[0 to 65535 / 0 / 0]
7-514-004	Paper Jam Cnt Loc	Tray2NoFeed	CTL*	[0 to 65535 / 0 / 0]
7-514-008	Paper Jam Cnt Loc	BypassTrayNoFeed	CTL*	[0 to 65535 / 0 / 0]
7-514-009	Paper Jam Cnt Loc	DplxNoFeed	CTL*	[0 to 65535 / 0 / 0]
7-514-023	Paper Jam Cnt Loc	RgstSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-514-024	Paper Jam Cnt Loc	FusEntSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-514-032	Paper Jam Cnt Loc	PprExtSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-514-038	Paper Jam Cnt Loc	DplxSnsrLtJam	CTL*	[0 to 65535 / 0 / 0]
7-514-087	Paper Jam Cnt Loc	RgstSnsrLgJam	CTL*	[0 to 65535 / 0 / 0]
7-514-096	Paper Jam Cnt Loc	PprExtSnsrLgJam	CTL*	[0 to 65535 / 0 / 0]
7-514-102	Paper Jam Cnt Loc	DplxSnsrLgJam	CTL*	[0 to 65535 / 0 / 0]
7-516-006	PaperSize Jam Cnt	A5 LEF	CTL*	[0 to 65535 / 0 / 0]
7-516-044	PaperSize Jam Cnt	HLT LEF	CTL*	[0 to 65535 / 0 / 0]
7-516-133	PaperSize Jam Cnt	A4 SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-134	PaperSize Jam Cnt	A5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-142	PaperSize Jam Cnt	B5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-164	PaperSize Jam Cnt	LG SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-166	PaperSize Jam Cnt	LT SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-172	PaperSize Jam Cnt	HLT SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-255	PaperSize Jam Cnt	Other	CTL*	[0 to 65535 / 0 / 0]
7-520-001	Update Log	Record1	CTL*	[0 to 255 / 0 / 1]
7-520-002	Update Log	Record2	CTL*	[0 to 255 / 0 / 1]
7-520-003	Update Log	Record3	CTL*	[0 to 255 / 0 / 1]
7-520-004	Update Log	Record4	CTL*	[0 to 255 / 0 / 1]
7-520-005	Update Log	Record5	CTL*	[0 to 255 / 0 / 1]
7-520-006	Update Log	Record6	CTL*	[0 to 255 / 0 / 1]
7-520-007	Update Log	Record7	CTL*	[0 to 255 / 0 / 1]
7-520-008	Update Log	Record8	CTL*	[0 to 255 / 0 / 1]
7-520-009	Update Log	Record9	CTL*	[0 to 255 / 0 / 1]
7-520-010	Update Log	Record10	CTL*	[0 to 255 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-617-001	PM Parts Counter Display	Normal	CTL*	[0 to 9999999 / 0 / 0]
7-617-002	PM Parts Counter Display	Df	CTL*	[0 to 9999999 / 0 / 0]
7-618-001	PM Parts Counter Reset	Normal	CTL*	[0 to 0 / 0 / 0]
7-618-002	PM Parts Counter Reset	Df	CTL*	[0 to 0 / 0 / 0]
7-801-255	Memory/Version/PN		CTL*	[0 to 0 / 0 / 0]
7-803-001	PM Counter	Paper	CTL*	[0 to 9999999 / 0 / 0]
7-804-001	PM Count.Reset	Paper	CTL*	[0 to 0 / 0 / 0]
7-807-001	Reset-SC/Jam		CTL*	[0 to 0 / 0 / 0]
7-832-001	Display-Self-Diag		CTL*	[0 to 0 / 0 / 0]
7-836-001	Resident Memory		CTL*	[0 to 0xffffffff / 0 / 0MB]
7-855-001	Coverage Range	Coverage Range 1	CTL*	[1 to 200 / 5 / 1%]
7-855-002	Coverage Range	Coverage Range 2	CTL*	[1 to 200 / 20 / 1%]
7-901-001	Assert Info.	File Name	CTL*	[0 to 0 / 0 / 0]
7-901-002	Assert Info.	Number of Lines	CTL*	[0 to 0 / 0 / 0]
7-901-003	Assert Info.	Location	CTL*	[0 to 0 / 0 / 0]
7-910-001	ROM No	System	CTL*	[0 to 0 / 0 / 0]
7-910-002	ROM No	Engine	CTL*	[0 to 0 / 0 / 0]
7-910-003	ROM No	Lcdc	CTL*	[0 to 0 / 0 / 0]
7-910-009	ROM No	Bank	CTL*	[0 to 0 / 0 / 0]
7-910-015	ROM No	Scanner	CTL*	[0 to 0 / 0 / 0]
7-910-018	ROM No	NetworkSupport	CTL*	[0 to 0 / 0 / 0]
7-910-019	ROM No	Bank2	CTL*	[0 to 0 / 0 / 0]
7-910-022	ROM No	BIOS	CTL*	[0 to 0 / 0 / 0]
7-910-040	ROM No	Bank3	CTL*	[0 to 0 / 0 / 0]
7-910-041	ROM No	Bank4	CTL*	[0 to 0 / 0 / 0]
7-910-151	ROM No	PS	CTL*	[0 to 0 / 0 / 0]
7-910-158	ROM No	PCL	CTL*	[0 to 0 / 0 / 0]
7-910-159	ROM No	PCLXL	CTL*	[0 to 0 / 0 / 0]
7-910-162	ROM No	PDF	CTL*	[0 to 0 / 0 / 0]
7-910-165	ROM No	PJL	CTL*	[0 to 0 / 0 / 0]
7-910-168	ROM No	MediaPrint:TIFF	CTL*	[0 to 0 / 0 / 0]
7-910-180	ROM No	FONT	CTL*	[0 to 0 / 0 / 0]
7-910-181	ROM No	FONT1	CTL*	[0 to 0 / 0 / 0]
7-910-182	ROM No	FONT2	CTL*	[0 to 0 / 0 / 0]
7-910-183	ROM No	FONT3	CTL*	[0 to 0 / 0 / 0]
7-910-184	ROM No	FONT4	CTL*	[0 to 0 / 0 / 0]
7-910-185	ROM No	FONT5	CTL*	[0 to 0 / 0 / 0]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-910-186	ROM No	FONT6	CTL*	[0 to 0 / 0 / 0]
7-910-187	ROM No	FONT7	CTL*	[0 to 0 / 0 / 0]
7-910-200	ROM No	Factory	CTL*	[0 to 0 / 0 / 0]
7-910-202	ROM No	NetworkDocBox	CTL*	[0 to 0 / 0 / 0]
7-910-204	ROM No	Printer	CTL*	[0 to 0 / 0 / 0]
7-910-210	ROM No	MIB	CTL*	[0 to 0 / 0 / 0]
7-910-211	ROM No	Websupport	CTL*	[0 to 0 / 0 / 0]
7-911-001	Firmware Version	System	CTL*	[0 to 0 / 0 / 0]
7-911-002	Firmware Version	Engine	CTL*	[0 to 0 / 0 / 0]
7-911-003	Firmware Version	Lcdc	CTL*	[0 to 0 / 0 / 0]
7-911-009	Firmware Version	Bank	CTL*	[0 to 0 / 0 / 0]
7-911-015	Firmware Version	Scanner	CTL*	[0 to 0 / 0 / 0]
7-911-018	Firmware Version	NetworkSupport	CTL*	[0 to 0 / 0 / 0]
7-911-019	Firmware Version	Bank2	CTL*	[0 to 0 / 0 / 0]
7-911-022	Firmware Version	BIOS	CTL*	[0 to 0 / 0 / 0]
7-911-040	Firmware Version	Bank3	CTL*	[0 to 0 / 0 / 0]
7-911-041	Firmware Version	Bank4	CTL*	[0 to 0 / 0 / 0]
7-911-151	Firmware Version	PS	CTL*	[0 to 0 / 0 / 0]
7-911-158	Firmware Version	PCL	CTL*	[0 to 0 / 0 / 0]
7-911-159	Firmware Version	PCLXL	CTL*	[0 to 0 / 0 / 0]
7-911-162	Firmware Version	PDF	CTL*	[0 to 0 / 0 / 0]
7-911-165	Firmware Version	PJL	CTL*	[0 to 0 / 0 / 0]
7-911-168	Firmware Version	MediaPrint:TIFF	CTL*	[0 to 0 / 0 / 0]
7-911-180	Firmware Version	FONT	CTL*	[0 to 0 / 0 / 0]
7-911-181	Firmware Version	FONT1	CTL*	[0 to 0 / 0 / 0]
7-911-182	Firmware Version	FONT2	CTL*	[0 to 0 / 0 / 0]
7-911-183	Firmware Version	FONT3	CTL*	[0 to 0 / 0 / 0]
7-911-184	Firmware Version	FONT4	CTL*	[0 to 0 / 0 / 0]
7-911-185	Firmware Version	FONT5	CTL*	[0 to 0 / 0 / 0]
7-911-186	Firmware Version	FONT6	CTL*	[0 to 0 / 0 / 0]
7-911-187	Firmware Version	FONT7	CTL*	[0 to 0 / 0 / 0]
7-911-200	Firmware Version	Factory	CTL*	[0 to 0 / 0 / 0]
7-911-202	Firmware Version	NetworkDocBox	CTL*	[0 to 0 / 0 / 0]
7-911-204	Firmware Version	Printer	CTL*	[0 to 0 / 0 / 0]
7-911-210	Firmware Version	MIB	CTL*	[0 to 0 / 0 / 0]
7-911-211	Firmware Version	Websupport	CTL*	[0 to 0 / 0 / 0]

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**SP8-XXX (Data Log 2)**


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Most of the SPs in this group are prefixed with a letter that indicates the mode of operation (the mode of operation is referred to as an "application"). Before reading the Group 8 Service Table, make sure that you understand what these prefixes mean.

Prefixes	What it means	
T:	Total: (Grand Total).	Grand total of the items counted for all applications.
P:	Print application.	Totals (pages, jobs, etc.) executed for each application.
O:	Other applications (external network applications, for example)	Refers to network applications such as Web Image Monitor. Utilities developed with the SDK (Software Development Kit) will also be counted with this group in the future.

**Keys and abbreviations in Data Log 2**

Abbreviation	What it means
/	"By", e.g. "T:Jobs/Apl" = Total Jobs "by" Application
>	More (2> "2 or more", 4> "4 or more")
AddBook	Address Book
Apl	Application
B/W	Black & White
Bk	Black
C	Cyan
ColCr	Color Create
ColMode	Color Mode
Comb	Combine
Comp	Compression
Deliv	Delivery
DesApl	Designated Application. The application (Copy, Fax, Scan, Print) used to store the job on the document server, for example.
Dev Counter	Development Count, no. of pages developed.
Dup, Duplex	Duplex, printing on both sides
Emul	Emulation
FC	Full Color
FIN	Post-print processing, i.e. finishing (punching, stapling, etc.)
Full Bleed	No Margins
GenCopy	Generation Copy Mode
GPC	Get Print Counter. For jobs 10 pages or less, this counter does not count up. For jobs larger than 10 pages, this counter counts up by the number that is in excess of 10

#### 4.SP Mode Tables (for Printer Model)

Abbreviation	What it means
	(e.g., for an 11-page job, the counter counts up 11-10 =1)
IFax	Internet Fax
ImgEdt	Image Edit performed on the original with the copier GUI, e.g. border removal, adding stamps, page numbers, etc.
K	Black (YMCK)
LS	Local Storage. Refers to the document server.
LSize	Large (paper) Size
Mag	Magnification
MC	One color (monochrome)
NRS	New Remote Service, which allows a service center to monitor machines remotely. "NRS" is used overseas, and "CSS" is used in Japan.
Org	Original for scanning
OrgJam	Original Jam
Palm 2	Print Job Manager/Desk Top Editor: A pair of utilities that allows print jobs to be distributed evenly among the printers on the network, and allows files to move around, combined, and converted to different formats.
PC	Personal Computer
PGS	Pages. A page is the total scanned surface of the original. Duplex pages count as two pages, and A3 simplex count as two pages if the A3/DLT counter SP is switched ON.
PJob	Print Jobs
Ppr	Paper
PrtJam	Printer (plotter) Jam
PrtPGS	Print Pages
R	Red (Toner Remaining). Applies to the wide format model A2 only. This machine is under development and currently not available.
Rez	Resolution
SC	Service Code (Error SC code displayed)
Scn	Scan
Sim, Simplex	Simplex, printing on 1 side.
S-to-Email	Scan-to-E-mail
SMC	SMC report printed with SP5990. All of the Group 8 counters are recorded in the SMC report.
Svr	Server
TonEnd	Toner End
TonSave	Toner Save
TXJob	Send, Transmission

## 4.SP Mode Tables (for Printer Model)

Abbreviation	What it means
YMC	Yellow, Magenta, Cyan
YMCK	Yellow, Magenta, Cyan, Black

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-001-001	T:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-004-001	P:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-061-001	T:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-061-002	T:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-061-003	T:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-061-004	T:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-061-005	T:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-006	T:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-061-007	T:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-061-008	T:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-009	T:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-010	T:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-011	T:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-012	T:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-013	T:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-061-014	T:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-061-015	T:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-061-016	T:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-064-001	P:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-064-002	P:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-064-003	P:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-064-004	P:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-064-005	P:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-006	P:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-064-007	P:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-064-008	P:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-009	P:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-010	P:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-011	P:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-012	P:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-013	P:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-064-014	P:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-064-015	P:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-064-016	P:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-067-001	O:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-067-002	O:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-067-003	O:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-067-004	O:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-067-005	O:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-006	O:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-067-007	O:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-067-008	O:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-009	O:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-010	O:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-011	O:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-012	O:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-013	O:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-067-014	O:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-067-015	O:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-067-016	O:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-071-001	T:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-071-002	T:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-071-003	T:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-004	T:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-005	T:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-006	T:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-007	T:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-008	T:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-009	T:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-010	T:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-011	T:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-012	T:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-013	T:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-014	T:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-001	P:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-074-002	P:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-003	P:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-004	P:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-005	P:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-006	P:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-074-007	P:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-008	P:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-009	P:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-010	P:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-011	P:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-012	P:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-013	P:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-014	P:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-001	O:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-077-002	O:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-003	O:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-004	O:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-005	O:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-006	O:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-007	O:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-008	O:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-009	O:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-010	O:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-077-011	O:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-012	O:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-013	O:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-014	O:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-081-001	T:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-084-001	P:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-381-001	T:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-384-001	P:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-387-001	O:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-391-001	LSize PrtPGS	A3/DLT, Larger	CTL*	[0 to 99999999 / 0 / 1]
8-391-003	LSize PrtPGS	BannerPaper	CTL*	[0 to 99999999 / 0 / 1]
8-411-001	Prints/Duplex		CTL*	[0 to 99999999 / 0 / 1]
8-421-001	T:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-421-004	T:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-421-005	T:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-421-006	T:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-007	T:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-008	T:PrtPGS/Dup Comb	6in1	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-421-009	T:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-010	T:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-011	T:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-012	T:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-013	T:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-014	T:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-015	T:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-016	T:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-017	T:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-018	T:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-019	T:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-020	T:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-021	T:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-022	T:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-023	T:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-024	T:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-001	P:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-424-004	P:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-424-005	P:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-424-006	P:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-007	P:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-008	P:PrtPGS/Dup Comb	6in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-009	P:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-010	P:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-011	P:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-012	P:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-013	P:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-014	P:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-015	P:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-016	P:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-017	P:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-018	P:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-019	P:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-020	P:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-021	P:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-022	P:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-424-023	P:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-024	P:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-001	O:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-427-004	O:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-427-005	O:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-427-006	O:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-007	O:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-008	O:PrtPGS/Dup Comb	6in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-009	O:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-010	O:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-011	O:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-012	O:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-013	O:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-014	O:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-015	O:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-016	O:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-017	O:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-018	O:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-427-019	O:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-020	O:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-021	O:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-022	O:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-023	O:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-024	O:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-431-001	T:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-431-002	T:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-431-003	T:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-434-001	P:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-434-002	P:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-434-003	P:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-437-001	O:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-437-002	O:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-437-003	O:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-441-001	T:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-441-002	T:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-441-003	T:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-441-004	T:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-441-005	T:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-441-006	T:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-441-007	T:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-441-008	T:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-441-009	T:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-441-010	T:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-441-254	T:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-441-255	T:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-444-001	P:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-444-002	P:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-444-003	P:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-444-004	P:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-444-005	P:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-444-006	P:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-444-007	P:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-444-008	P:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-444-009	P:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-444-010	P:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-444-254	P:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-444-255	P:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-447-001	O:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-447-002	O:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-447-003	O:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-447-004	O:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-447-005	O:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-447-006	O:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-447-007	O:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-447-008	O:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-447-009	O:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-447-010	O:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-447-254	O:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-447-255	O:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-451-001	PrtPGS/Ppr Tray	Bypass Tray	CTL*	[0 to 99999999 / 0 / 1]
8-451-002	PrtPGS/Ppr Tray	Tray 1	CTL*	[0 to 99999999 / 0 / 1]
8-451-003	PrtPGS/Ppr Tray	Tray 2	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-451-004	PrtPGS/Ppr Tray	Tray 3	CTL*	[0 to 99999999 / 0 / 1]
8-451-005	PrtPGS/Ppr Tray	Tray 4	CTL*	[0 to 99999999 / 0 / 1]
8-451-006	PrtPGS/Ppr Tray	Tray 5	CTL*	[0 to 99999999 / 0 / 1]
8-451-007	PrtPGS/Ppr Tray	Tray 6	CTL*	[0 to 99999999 / 0 / 1]
8-451-008	PrtPGS/Ppr Tray	Tray 7	CTL*	[0 to 99999999 / 0 / 1]
8-451-009	PrtPGS/Ppr Tray	Tray 8	CTL*	[0 to 99999999 / 0 / 1]
8-451-010	PrtPGS/Ppr Tray	Tray 9	CTL*	[0 to 99999999 / 0 / 1]
8-451-011	PrtPGS/Ppr Tray	Tray 10	CTL*	[0 to 99999999 / 0 / 1]
8-451-012	PrtPGS/Ppr Tray	Tray 11	CTL*	[0 to 99999999 / 0 / 1]
8-451-013	PrtPGS/Ppr Tray	Tray 12	CTL*	[0 to 99999999 / 0 / 1]
8-451-014	PrtPGS/Ppr Tray	Tray 13	CTL*	[0 to 99999999 / 0 / 1]
8-451-015	PrtPGS/Ppr Tray	Tray 14	CTL*	[0 to 99999999 / 0 / 1]
8-451-016	PrtPGS/Ppr Tray	Tray 15	CTL*	[0 to 99999999 / 0 / 1]
8-451-101	PrtPGS/Ppr Tray	LC Inserter	CTL*	[0 to 99999999 / 0 / 1]
8-451-102	PrtPGS/Ppr Tray	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-461-001	T:PrtPGS/Ppr Type	Normal	CTL*	[0 to 99999999 / 0 / 1]
8-461-002	T:PrtPGS/Ppr Type	Recycled	CTL*	[0 to 99999999 / 0 / 1]
8-461-003	T:PrtPGS/Ppr Type	Special	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-461-004	T:PrtPGS/Ppr Type	Thick	CTL*	[0 to 99999999 / 0 / 1]
8-461-005	T:PrtPGS/Ppr Type	Normal (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-461-006	T:PrtPGS/Ppr Type	Thick (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-461-007	T:PrtPGS/Ppr Type	OHP	CTL*	[0 to 99999999 / 0 / 1]
8-461-008	T:PrtPGS/Ppr Type	Other	CTL*	[0 to 99999999 / 0 / 1]
8-464-001	P:PrtPGS/Ppr Type	Normal	CTL*	[0 to 99999999 / 0 / 1]
8-464-002	P:PrtPGS/Ppr Type	Recycled	CTL*	[0 to 99999999 / 0 / 1]
8-464-003	P:PrtPGS/Ppr Type	Special	CTL*	[0 to 99999999 / 0 / 1]
8-464-004	P:PrtPGS/Ppr Type	Thick	CTL*	[0 to 99999999 / 0 / 1]
8-464-005	P:PrtPGS/Ppr Type	Normal (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-464-006	P:PrtPGS/Ppr Type	Thick (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-464-007	P:PrtPGS/Ppr Type	OHP	CTL*	[0 to 99999999 / 0 / 1]
8-464-008	P:PrtPGS/Ppr Type	Other	CTL*	[0 to 99999999 / 0 / 1]
8-471-001	PrtPGS/Mag	~49%	CTL*	[0 to 99999999 / 0 / 1]
8-471-002	PrtPGS/Mag	50%~99%	CTL*	[0 to 99999999 / 0 / 1]
8-471-003	PrtPGS/Mag	100%	CTL*	[0 to 99999999 / 0 / 1]
8-471-004	PrtPGS/Mag	101%~200%	CTL*	[0 to 99999999 / 0 / 1]
8-471-005	PrtPGS/Mag	201% ~	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-481-001	T:PrtPGS/TonSave		CTL*	[0 to 99999999 / 0 / 1]
8-484-001	P:PrtPGS/TonSave		CTL*	[0 to 99999999 / 0 / 1]
8-501-001	T:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-501-002	T:PrtPGS/Col Mode	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-003	T:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-004	T:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-005	T:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-051	T:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-501-052	T:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-501-053	T:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-501-054	T:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-001	P:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-504-002	P:PrtPGS/Col Mode	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-003	P:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-004	P:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-005	P:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-051	P:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-052	P:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-504-053	P:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-054	P:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-001	O:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-507-002	O:PrtPGS/Col Mode	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-003	O:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-004	O:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-005	O:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-051	O:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-052	O:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-053	O:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-054	O:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-511-001	T:PrtPGS/Emul	RPCS	CTL*	[0 to 99999999 / 0 / 1]
8-511-002	T:PrtPGS/Emul	RPDL	CTL*	[0 to 99999999 / 0 / 1]
8-511-003	T:PrtPGS/Emul	PS3	CTL*	[0 to 99999999 / 0 / 1]
8-511-004	T:PrtPGS/Emul	R98	CTL*	[0 to 99999999 / 0 / 1]
8-511-005	T:PrtPGS/Emul	R16	CTL*	[0 to 99999999 / 0 / 1]
8-511-006	T:PrtPGS/Emul	GL/GL2	CTL*	[0 to 99999999 / 0 / 1]
8-511-007	T:PrtPGS/Emul	R55	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-511-008	T:PrtPGS/Emul	RTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-511-009	T:PrtPGS/Emul	PDF	CTL*	[0 to 99999999 / 0 / 1]
8-511-010	T:PrtPGS/Emul	PCL5e/5c	CTL*	[0 to 99999999 / 0 / 1]
8-511-011	T:PrtPGS/Emul	PCL XL	CTL*	[0 to 99999999 / 0 / 1]
8-511-012	T:PrtPGS/Emul	IPDL-C	CTL*	[0 to 99999999 / 0 / 1]
8-511-013	T:PrtPGS/Emul	BM-Links	CTL*	[0 to 99999999 / 0 / 1]
8-511-014	T:PrtPGS/Emul	Other	CTL*	[0 to 99999999 / 0 / 1]
8-511-015	T:PrtPGS/Emul	IPDS	CTL*	[0 to 99999999 / 0 / 1]
8-511-016	T:PrtPGS/Emul	XPS	CTL*	[0 to 99999999 / 0 / 1]
8-511-017	T:PrtPGS/Emul	IRIPS PS	CTL*	[0 to 99999999 / 0 / 1]
8-511-018	T:PrtPGS/Emul	IRIPS PDF	CTL*	[0 to 99999999 / 0 / 1]
8-511-019	T:PrtPGS/Emul	PictBridge	CTL*	[0 to 99999999 / 0 / 1]
8-511-020	T:PrtPGS/Emul	MediaPrintTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-511-021	T:PrtPGS/Emul	MediaPrintJPEG	CTL*	[0 to 99999999 / 0 / 1]
8-514-001	P:PrtPGS/Emul	RPCS	CTL*	[0 to 99999999 / 0 / 1]
8-514-002	P:PrtPGS/Emul	RPDL	CTL*	[0 to 99999999 / 0 / 1]
8-514-003	P:PrtPGS/Emul	PS3	CTL*	[0 to 99999999 / 0 / 1]
8-514-004	P:PrtPGS/Emul	R98	CTL*	[0 to 99999999 / 0 / 1]



#### 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-514-005	P:PrtPGS/Emul	R16	CTL*	[0 to 99999999 / 0 / 1]
8-514-006	P:PrtPGS/Emul	GL/GL2	CTL*	[0 to 99999999 / 0 / 1]
8-514-007	P:PrtPGS/Emul	R55	CTL*	[0 to 99999999 / 0 / 1]
8-514-008	P:PrtPGS/Emul	RTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-514-009	P:PrtPGS/Emul	PDF	CTL*	[0 to 99999999 / 0 / 1]
8-514-010	P:PrtPGS/Emul	PCL5e/5c	CTL*	[0 to 99999999 / 0 / 1]
8-514-011	P:PrtPGS/Emul	PCL XL	CTL*	[0 to 99999999 / 0 / 1]
8-514-012	P:PrtPGS/Emul	IPDL-C	CTL*	[0 to 99999999 / 0 / 1]
8-514-013	P:PrtPGS/Emul	BM-Links	CTL*	[0 to 99999999 / 0 / 1]
8-514-014	P:PrtPGS/Emul	Other	CTL*	[0 to 99999999 / 0 / 1]
8-514-015	P:PrtPGS/Emul	IPDS	CTL*	[0 to 99999999 / 0 / 1]
8-514-016	P:PrtPGS/Emul	XPS	CTL*	[0 to 99999999 / 0 / 1]
8-514-017	P:PrtPGS/Emul	IRIPS PS	CTL*	[0 to 99999999 / 0 / 1]
8-514-018	P:PrtPGS/Emul	IRIPS PDF	CTL*	[0 to 99999999 / 0 / 1]
8-514-019	P:PrtPGS/Emul	PictBridge	CTL*	[0 to 99999999 / 0 / 1]
8-514-020	P:PrtPGS/Emul	MediaPrintTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-514-021	P:PrtPGS/Emul	MediaPrintJPEG	CTL*	[0 to 99999999 / 0 / 1]
8-521-001	T:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-521-002	T:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-521-003	T:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-521-004	T:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-521-005	T:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-006	T:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-521-007	T:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-521-008	T:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-009	T:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-010	T:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-011	T:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-012	T:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-013	T:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-521-014	T:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-521-015	T:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-521-016	T:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-524-001	P:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-524-002	P:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-524-003	P:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-524-004	P:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-524-005	P:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-006	P:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-524-007	P:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-524-008	P:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-009	P:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-010	P:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-011	P:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-012	P:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-013	P:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-524-014	P:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-524-015	P:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-524-016	P:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-531-001	Staple	Staples	CTL*	[0 to 99999999 / 0 / 1]
8-531-002	Staple	Stapless	CTL*	[0 to 99999999 / 0 / 1]
8-551-001	T:FIN Books	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-551-002	T:FIN Books	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-551-003	T:FIN Books	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-554-001	P:FIN Books	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-554-002	P:FIN Books	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-554-003	P:FIN Books	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-561-001	T:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-561-002	T:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-561-003	T:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-561-004	T:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-001	P:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-002	P:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-003	P:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-004	P:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-001	O:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-002	O:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-003	O:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-004	O:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-581-001	T:Counter	Total	CTL*	[0 to 99999999 / 0 / 1]
8-581-002	T:Counter	Total: Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-003	T:Counter	B&W/Single Color	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-581-004	T:Counter	Development: CMY	CTL*	[0 to 99999999 / 0 / 1]
8-581-005	T:Counter	Development: K	CTL*	[0 to 99999999 / 0 / 1]
8-581-008	T:Counter	Print: Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-009	T:Counter	Print: B/W	CTL*	[0 to 99999999 / 0 / 1]
8-581-010	T:Counter	Total: Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-011	T:Counter	Total: B/W	CTL*	[0 to 99999999 / 0 / 1]
8-581-012	T:Counter	Full Color: A3	CTL*	[0 to 99999999 / 0 / 1]
8-581-013	T:Counter	Full Color: -B4	CTL*	[0 to 99999999 / 0 / 1]
8-581-014	T:Counter	Full Color Print	CTL*	[0 to 99999999 / 0 / 1]
8-581-015	T:Counter	Mono Color Print	CTL*	[0 to 99999999 / 0 / 1]
8-581-016	T:Counter	Full Color GPC	CTL*	[0 to 99999999 / 0 / 1]
8-581-017	T:Counter	Twin Mode Print	CTL*	[0 to 99999999 / 0 / 1]
8-581-018	T:Counter	Full Color Print(Twin)	CTL*	[0 to 99999999 / 0 / 1]
8-581-019	T:Counter	Mono Color Print(Twin)	CTL*	[0 to 99999999 / 0 / 1]
8-581-020	T:Counter	Full Color Total(CV)	CTL*	[0 to 99999999 / 0 / 1]
8-581-021	T:Counter	Mono Color Total(CV)	CTL*	[0 to 99999999 / 0 / 1]
8-581-022	T:Counter	Full Color Print(CV)	CTL*	[0 to 99999999 / 0 / 1]
8-581-023	T:Counter	Eco Color Print(FC)	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-581-024	T:Counter	Eco Color Print(Bk)	CTL*	[0 to 99999999 / 0 / 1]
8-581-025	T:Counter	Total: Color(Eco Bk)	CTL*	[0 to 99999999 / 0 / 1]
8-581-026	T:Counter	Total: B/W(Eco Bk)	CTL*	[0 to 99999999 / 0 / 1]
8-581-027	T:Counter	Total: Color(Eco FC)	CTL*	[0 to 99999999 / 0 / 1]
8-581-028	T:Counter	Development: CMY(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-581-029	T:Counter	Development: K(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-581-030	T:Counter	Total: Color(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-581-031	T:Counter	Total: B/W(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-584-001	P:Counter	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-584-002	P:Counter	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-003	P:Counter	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-004	P:Counter	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-005	P:Counter	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-591-001	O:Counter	A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-591-002	O:Counter	Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-591-005	O:Counter	Banner	CTL*	[0 to 99999999 / 0 / 1]
8-601-001	T:CvgCounter	Cvg: BW %	CTL*	[0 to 2147483647 / 0 / 1%]
8-601-002	T:CvgCounter	Cvg: FC %	CTL*	[0 to 2147483647 / 0 / 1%]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-601-011	T:CvgCounter	Cvg: BW Pages	CTL*	[0 to 99999999 / 0 / 1]
8-601-012	T:CvgCounter	Cvg: FC Pages	CTL*	[0 to 99999999 / 0 / 1]
8-601-021	T:CvgCounter	CvgCounter 1	CTL*	[0 to 99999999 / 0 / 1]
8-601-022	T:CvgCounter	CvgCounter 2	CTL*	[0 to 99999999 / 0 / 1]
8-601-023	T:CvgCounter	CvgCounter 3	CTL*	[0 to 99999999 / 0 / 1]
8-601-031	CvgCounter	CvgCounter 1(YMC)	CTL*	[0 to 99999999 / 0 / 1]
8-601-032	CvgCounter	CvgCounter 2(YMC)	CTL*	[0 to 99999999 / 0 / 1]
8-601-033	CvgCounter	CvgCounter 3(YMC)	CTL*	[0 to 99999999 / 0 / 1]
8-604-001	P:CvgCounter	Cvg: B/W %	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-002	P:CvgCounter	Cvg: Single Color %	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-003	P:CvgCounter	Cvg: Two Color %	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-004	P:CvgCounter	Cvg: Full Color %	CTL*	[0 to 2147483647 / 0 / 1%]
8-617-001	SDK Apli Counter	SDK-1	CTL*	[0 to 99999999 / 0 / 1]
8-617-002	SDK Apli Counter	SDK-2	CTL*	[0 to 99999999 / 0 / 1]
8-617-003	SDK Apli Counter	SDK-3	CTL*	[0 to 99999999 / 0 / 1]
8-617-004	SDK Apli Counter	SDK-4	CTL*	[0 to 99999999 / 0 / 1]
8-617-005	SDK Apli Counter	SDK-5	CTL*	[0 to 99999999 / 0 / 1]
8-617-006	SDK Apli Counter	SDK-6	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-617-007	SDK Apli Counter	SDK-7	CTL*	[0 to 99999999 / 0 / 1]
8-617-008	SDK Apli Counter	SDK-8	CTL*	[0 to 99999999 / 0 / 1]
8-617-009	SDK Apli Counter	SDK-9	CTL*	[0 to 99999999 / 0 / 1]
8-617-010	SDK Apli Counter	SDK-10	CTL*	[0 to 99999999 / 0 / 1]
8-617-011	SDK Apli Counter	SDK-11	CTL*	[0 to 99999999 / 0 / 1]
8-617-012	SDK Apli Counter	SDK-12	CTL*	[0 to 99999999 / 0 / 1]
8-621-001	Func Use Counter	Function-001	CTL*	[0 to 99999999 / 0 / 1]
8-621-002	Func Use Counter	Function-002	CTL*	[0 to 99999999 / 0 / 1]
8-621-003	Func Use Counter	Function-003	CTL*	[0 to 99999999 / 0 / 1]
8-621-004	Func Use Counter	Function-004	CTL*	[0 to 99999999 / 0 / 1]
8-621-005	Func Use Counter	Function-005	CTL*	[0 to 99999999 / 0 / 1]
8-621-006	Func Use Counter	Function-006	CTL*	[0 to 99999999 / 0 / 1]
8-621-007	Func Use Counter	Function-007	CTL*	[0 to 99999999 / 0 / 1]
8-621-008	Func Use Counter	Function-008	CTL*	[0 to 99999999 / 0 / 1]
8-621-009	Func Use Counter	Function-009	CTL*	[0 to 99999999 / 0 / 1]
8-621-010	Func Use Counter	Function-010	CTL*	[0 to 99999999 / 0 / 1]
8-621-011	Func Use Counter	Function-011	CTL*	[0 to 99999999 / 0 / 1]
8-621-012	Func Use Counter	Function-012	CTL*	[0 to 99999999 / 0 / 1]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-013	Func Use Counter	Function-013	CTL*	[0 to 99999999 / 0 / 1]
8-621-014	Func Use Counter	Function-014	CTL*	[0 to 99999999 / 0 / 1]
8-621-015	Func Use Counter	Function-015	CTL*	[0 to 99999999 / 0 / 1]
8-621-016	Func Use Counter	Function-016	CTL*	[0 to 99999999 / 0 / 1]
8-621-017	Func Use Counter	Function-017	CTL*	[0 to 99999999 / 0 / 1]
8-621-018	Func Use Counter	Function-018	CTL*	[0 to 99999999 / 0 / 1]
8-621-019	Func Use Counter	Function-019	CTL*	[0 to 99999999 / 0 / 1]
8-621-020	Func Use Counter	Function-020	CTL*	[0 to 99999999 / 0 / 1]
8-621-021	Func Use Counter	Function-021	CTL*	[0 to 99999999 / 0 / 1]
8-621-022	Func Use Counter	Function-022	CTL*	[0 to 99999999 / 0 / 1]
8-621-023	Func Use Counter	Function-023	CTL*	[0 to 99999999 / 0 / 1]
8-621-024	Func Use Counter	Function-024	CTL*	[0 to 99999999 / 0 / 1]
8-621-025	Func Use Counter	Function-025	CTL*	[0 to 99999999 / 0 / 1]
8-621-026	Func Use Counter	Function-026	CTL*	[0 to 99999999 / 0 / 1]
8-621-027	Func Use Counter	Function-027	CTL*	[0 to 99999999 / 0 / 1]
8-621-028	Func Use Counter	Function-028	CTL*	[0 to 99999999 / 0 / 1]
8-621-029	Func Use Counter	Function-029	CTL*	[0 to 99999999 / 0 / 1]
8-621-030	Func Use Counter	Function-030	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-031	Func Use Counter	Function-031	CTL*	[0 to 99999999 / 0 / 1]
8-621-032	Func Use Counter	Function-032	CTL*	[0 to 99999999 / 0 / 1]
8-621-033	Func Use Counter	Function-033	CTL*	[0 to 99999999 / 0 / 1]
8-621-034	Func Use Counter	Function-034	CTL*	[0 to 99999999 / 0 / 1]
8-621-035	Func Use Counter	Function-035	CTL*	[0 to 99999999 / 0 / 1]
8-621-036	Func Use Counter	Function-036	CTL*	[0 to 99999999 / 0 / 1]
8-621-037	Func Use Counter	Function-037	CTL*	[0 to 99999999 / 0 / 1]
8-621-038	Func Use Counter	Function-038	CTL*	[0 to 99999999 / 0 / 1]
8-621-039	Func Use Counter	Function-039	CTL*	[0 to 99999999 / 0 / 1]
8-621-040	Func Use Counter	Function-040	CTL*	[0 to 99999999 / 0 / 1]
8-621-041	Func Use Counter	Function-041	CTL*	[0 to 99999999 / 0 / 1]
8-621-042	Func Use Counter	Function-042	CTL*	[0 to 99999999 / 0 / 1]
8-621-043	Func Use Counter	Function-043	CTL*	[0 to 99999999 / 0 / 1]
8-621-044	Func Use Counter	Function-044	CTL*	[0 to 99999999 / 0 / 1]
8-621-045	Func Use Counter	Function-045	CTL*	[0 to 99999999 / 0 / 1]
8-621-046	Func Use Counter	Function-046	CTL*	[0 to 99999999 / 0 / 1]
8-621-047	Func Use Counter	Function-047	CTL*	[0 to 99999999 / 0 / 1]
8-621-048	Func Use Counter	Function-048	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-049	Func Use Counter	Function-049	CTL*	[0 to 99999999 / 0 / 1]
8-621-050	Func Use Counter	Function-050	CTL*	[0 to 99999999 / 0 / 1]
8-621-051	Func Use Counter	Function-051	CTL*	[0 to 99999999 / 0 / 1]
8-621-052	Func Use Counter	Function-052	CTL*	[0 to 99999999 / 0 / 1]
8-621-053	Func Use Counter	Function-053	CTL*	[0 to 99999999 / 0 / 1]
8-621-054	Func Use Counter	Function-054	CTL*	[0 to 99999999 / 0 / 1]
8-621-055	Func Use Counter	Function-055	CTL*	[0 to 99999999 / 0 / 1]
8-621-056	Func Use Counter	Function-056	CTL*	[0 to 99999999 / 0 / 1]
8-621-057	Func Use Counter	Function-057	CTL*	[0 to 99999999 / 0 / 1]
8-621-058	Func Use Counter	Function-058	CTL*	[0 to 99999999 / 0 / 1]
8-621-059	Func Use Counter	Function-059	CTL*	[0 to 99999999 / 0 / 1]
8-621-060	Func Use Counter	Function-060	CTL*	[0 to 99999999 / 0 / 1]
8-621-061	Func Use Counter	Function-061	CTL*	[0 to 99999999 / 0 / 1]
8-621-062	Func Use Counter	Function-062	CTL*	[0 to 99999999 / 0 / 1]
8-621-063	Func Use Counter	Function-063	CTL*	[0 to 99999999 / 0 / 1]
8-621-064	Func Use Counter	Function-064	CTL*	[0 to 99999999 / 0 / 1]
8-771-001	Dev Counter	Total	CTL*	[0 to 99999999 / 0 / 1]
8-771-002	Dev Counter	K	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-771-003	Dev Counter	Y	CTL*	[0 to 99999999 / 0 / 1]
8-771-004	Dev Counter	M	CTL*	[0 to 99999999 / 0 / 1]
8-771-005	Dev Counter	C	CTL*	[0 to 99999999 / 0 / 1]
8-781-001	Toner_Botol_Info.	BK	CTL*	[0 to 99999999 / 0 / 1]
8-781-002	Toner_Botol_Info.	Y	CTL*	[0 to 99999999 / 0 / 1]
8-781-003	Toner_Botol_Info.	M	CTL*	[0 to 99999999 / 0 / 1]
8-781-004	Toner_Botol_Info.	C	CTL*	[0 to 99999999 / 0 / 1]
8-801-001	Toner Remain	K	CTL*	[0 to 100 / 0 / 1%]
8-801-002	Toner Remain	Y	CTL*	[0 to 100 / 0 / 1%]
8-801-003	Toner Remain	M	CTL*	[0 to 100 / 0 / 1%]
8-801-004	Toner Remain	C	CTL*	[0 to 100 / 0 / 1%]
8-811-001	Eco Counter	Eco Total	CTL*	[0 to 99999999 / 0 / 1]
8-811-002	Eco Counter	Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-003	Eco Counter	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-004	Eco Counter	Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-811-005	Eco Counter	Combine	CTL*	[0 to 99999999 / 0 / 1]
8-811-006	Eco Counter	Color(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-007	Eco Counter	Full Color(%)	CTL*	[0 to 100 / 0 / 1%]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-811-008	Eco Counter	Duplex(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-009	Eco Counter	Combine(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-010	Eco Counter	Paper Cut(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-051	Eco Counter	Sync Eco Total	CTL*	[0 to 99999999 / 0 / 1]
8-811-052	Eco Counter	Sync Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-053	Eco Counter	Sync Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-054	Eco Counter	Sync Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-811-055	Eco Counter	Sync Combine	CTL*	[0 to 99999999 / 0 / 1]
8-811-056	Eco Counter	Sync Color(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-057	Eco Counter	Sync Full Color(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-058	Eco Counter	Sync Duplex(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-059	Eco Counter	Sync Combine(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-060	Eco Counter	Sync Paper Cut(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-101	Eco Counter	Eco Total>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-102	Eco Counter	Color>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-103	Eco Counter	Full Color>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-104	Eco Counter	Duplex>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-105	Eco Counter	Combine>Last	CTL*	[0 to 99999999 / 0 / 1]

## 4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-811-106	Eco Counter	Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-107	Eco Counter	Full Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-108	Eco Counter	Duplex(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-109	Eco Counter	Combine(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-110	Eco Counter	Paper Cut(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-151	Eco Counter	Sync Eco Totalr:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-152	Eco Counter	Sync Color:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-153	Eco Counter	Sync Full Color:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-154	Eco Counter	Sync Duplex:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-155	Eco Counter	Sync Combine:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-156	Eco Counter	Sync Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-157	Eco Counter	Sync Full Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-158	Eco Counter	Sync Duplex(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-159	Eco Counter	Sync Combine(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-160	Eco Counter	Sync Paper Cut(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-851-011	Cvr Cnt:0-10%	0~2%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-012	Cvr Cnt:0-10%	0~2%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-013	Cvr Cnt:0-10%	0~2%:M	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-851-014	Cvr Cnt:0-10%	0~2%:C	CTL*	[0 to 99999999 / 0 / 1]
8-851-021	Cvr Cnt:0-10%	3~4%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-022	Cvr Cnt:0-10%	3~4%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-023	Cvr Cnt:0-10%	3~4%:M	CTL*	[0 to 99999999 / 0 / 1]
8-851-024	Cvr Cnt:0-10%	3~4%:C	CTL*	[0 to 99999999 / 0 / 1]
8-851-031	Cvr Cnt:0-10%	5~7%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-032	Cvr Cnt:0-10%	5~7%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-033	Cvr Cnt:0-10%	5~7%:M	CTL*	[0 to 99999999 / 0 / 1]
8-851-034	Cvr Cnt:0-10%	5~7%:C	CTL*	[0 to 99999999 / 0 / 1]
8-851-041	Cvr Cnt:0-10%	8~10%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-042	Cvr Cnt:0-10%	8~10%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-043	Cvr Cnt:0-10%	8~10%:M	CTL*	[0 to 99999999 / 0 / 1]
8-851-044	Cvr Cnt:0-10%	8~10%:C	CTL*	[0 to 99999999 / 0 / 1]
8-861-001	Cvr Cnt:11-20%	BK	CTL*	[0 to 99999999 / 0 / 1]
8-861-002	Cvr Cnt:11-20%	Y	CTL*	[0 to 99999999 / 0 / 1]
8-861-003	Cvr Cnt:11-20%	M	CTL*	[0 to 99999999 / 0 / 1]
8-861-004	Cvr Cnt:11-20%	C	CTL*	[0 to 99999999 / 0 / 1]
8-871-001	Cvr Cnt:21-30%	BK	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-871-002	Cvr Cnt:21-30%	Y	CTL*	[0 to 99999999 / 0 / 1]
8-871-003	Cvr Cnt:21-30%	M	CTL*	[0 to 99999999 / 0 / 1]
8-871-004	Cvr Cnt:21-30%	C	CTL*	[0 to 99999999 / 0 / 1]
8-881-001	Cvr Cnt:31%-	BK	CTL*	[0 to 99999999 / 0 / 1]
8-881-002	Cvr Cnt:31%-	Y	CTL*	[0 to 99999999 / 0 / 1]
8-881-003	Cvr Cnt:31%-	M	CTL*	[0 to 99999999 / 0 / 1]
8-881-004	Cvr Cnt:31%-	C	CTL*	[0 to 99999999 / 0 / 1]
8-891-001	Page/Toner Bottle	BK	CTL*	[0 to 99999999 / 0 / 1]
8-891-002	Page/Toner Bottle	Y	CTL*	[0 to 99999999 / 0 / 1]
8-891-003	Page/Toner Bottle	M	CTL*	[0 to 99999999 / 0 / 1]
8-891-004	Page/Toner Bottle	C	CTL*	[0 to 99999999 / 0 / 1]
8-901-001	Page/Ink_Prev1	BK	CTL*	[0 to 99999999 / 0 / 1]
8-901-002	Page/Ink_Prev1	Y	CTL*	[0 to 99999999 / 0 / 1]
8-901-003	Page/Ink_Prev1	M	CTL*	[0 to 99999999 / 0 / 1]
8-901-004	Page/Ink_Prev1	C	CTL*	[0 to 99999999 / 0 / 1]
8-911-001	Page/Ink_Prev2	BK	CTL*	[0 to 99999999 / 0 / 1]
8-911-002	Page/Ink_Prev2	Y	CTL*	[0 to 99999999 / 0 / 1]
8-911-003	Page/Ink_Prev2	M	CTL*	[0 to 99999999 / 0 / 1]



4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-911-004	Page/Ink_Prev2	C	CTL*	[0 to 99999999 / 0 / 1]
8-921-001	Cvr Cnt/Total	Coverage(%):BK	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-002	Cvr Cnt/Total	Coverage(%):Y	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-003	Cvr Cnt/Total	Coverage(%):M	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-004	Cvr Cnt/Total	Coverage(%):C	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-011	Cvr Cnt/Total	Coverage/P:BK	CTL*	[0 to 99999999 / 0 / 1]
8-921-012	Cvr Cnt/Total	Coverage/P:Y	CTL*	[0 to 99999999 / 0 / 1]
8-921-013	Cvr Cnt/Total	Coverage/P:M	CTL*	[0 to 99999999 / 0 / 1]
8-921-014	Cvr Cnt/Total	Coverage/P:C	CTL*	[0 to 99999999 / 0 / 1]
8-921-031	Cvr Cnt/Total	Coverage(%):Eco BK	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-032	Cvr Cnt/Total	Coverage(%):Eco Y	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-033	Cvr Cnt/Total	Coverage(%):Eco M	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-034	Cvr Cnt/Total	Coverage(%):Eco C	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-041	Cvr Cnt/Total	Coverage/P:Eco BK	CTL*	[0 to 99999999 / 0 / 1]
8-921-042	Cvr Cnt/Total	Coverage/P:Eco Y	CTL*	[0 to 99999999 / 0 / 1]
8-921-043	Cvr Cnt/Total	Coverage/P:Eco M	CTL*	[0 to 99999999 / 0 / 1]
8-921-044	Cvr Cnt/Total	Coverage/P:Eco C	CTL*	[0 to 99999999 / 0 / 1]
8-941-001	Machine Status	Operation Time	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-941-002	Machine Status	Standby Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-003	Machine Status	Energy Save Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-004	Machine Status	Low Power Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-005	Machine Status	Off Mode Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-006	Machine Status	SC	CTL*	[0 to 99999999 / 0 / 1]
8-941-007	Machine Status	PrtJam	CTL*	[0 to 99999999 / 0 / 1]
8-941-008	Machine Status	OrgJam	CTL*	[0 to 99999999 / 0 / 1]
8-941-009	Machine Status	Supply PM Unit End	CTL*	[0 to 99999999 / 0 / 1]
8-961-001	Electricity Status	Ctrl Standby Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-002	Electricity Status	STR Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-003	Electricity Status	Main Power Off Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-004	Electricity Status	Reading and Printing Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-005	Electricity Status	Printing Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-006	Electricity Status	Reading Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-007	Electricity Status	Eng Waiting Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-008	Electricity Status	Low Power State Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-009	Electricity Status	Silent State Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-010	Electricity Status	Heater Off State Time	CTL*	[0 to 99999999 / 0 / 1]

4.SP Mode Tables (for Printer Model)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-961-011	Electricity Status	LCD on Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-101	Electricity Status	Silent Print	CTL*	[0 to 99999999 / 0 / 1]
8-971-001	Unit Control	Engine Off Recovery Count	CTL*	[0 to 99999999 / 0 / 1]
8-971-002	Unit Control	Power Off Count	CTL*	[0 to 99999999 / 0 / 1]
8-971-003	Unit Control	Force Power Off Count	CTL*	[0 to 99999999 / 0 / 1]
8-999-001	AdminCounter	Total	CTL*	[0 to 99999999 / 0 / 1]
8-999-006	AdminCounter	Printer:FC	CTL*	[0 to 99999999 / 0 / 1]
8-999-007	AdminCounter	Printer:BW	CTL*	[0 to 99999999 / 0 / 1]
8-999-008	AdminCounter	Printer:OneC	CTL*	[0 to 99999999 / 0 / 1]
8-999-009	AdminCounter	Printer:TwoC	CTL*	[0 to 99999999 / 0 / 1]
8-999-013	AdminCounter	Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-999-026	AdminCounter	Printer:FC %	CTL*	[0 to 2147483647 / 0 / 1]
8-999-027	AdminCounter	Printer:BW %	CTL*	[0 to 2147483647 / 0 / 1]
8-999-028	AdminCounter	Printer:OneC %	CTL*	[0 to 2147483647 / 0 / 1]
8-999-029	AdminCounter	Printer:TwoC %	CTL*	[0 to 2147483647 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

### Engine SP Tables

#### SP1-XXX (Feed)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-001	Leading Edge Reg	Tray1	ENG	[0 to 9 / 0 / 0.1mm]
1-001-002	Leading Edge Reg	By-pass	ENG	[0 to 9 / 0 / 0.1mm]
1-001-003	Leading Edge Reg	Duplex	ENG	[0 to 9 / 0 / 0.1mm]
1-001-004	Leading Edge Reg	Tray2	ENG	[0 to 9 / 0 / 0.1mm]
1-001-005	Leading Edge Reg	Tray3	ENG	[0 to 9 / 0 / 0.1mm]
1-001-006	Leading Edge Reg	Tray4	ENG	[0 to 9 / 0 / 0.1mm]
1-001-013	Leading Edge Reg	Tray1:Std Spd	ENG	[-9 to 9 / 1.4 / 0.1mm]
1-001-014	Leading Edge Reg	Tray1:Mid SpdA	ENG	[-9 to 9 / 2.3 / 0.1mm]
1-001-015	Leading Edge Reg	Tray1:Low Mid SpdB	ENG	[-9 to 9 / 3.2 / 0.1mm]
1-001-016	Leading Edge Reg	By-pass:Std Spd	ENG	[-9 to 9 / 1.9 / 0.1mm]
1-001-017	Leading Edge Reg	By-pass:Mid SpdA	ENG	[-9 to 9 / 3.2 / 0.1mm]
1-001-018	Leading Edge Reg	By-pass:Mid SpdB	ENG	[-9 to 9 / 4.1 / 0.1mm]
1-001-019	Leading Edge Reg	Duplex:Std Spd	ENG	[-9 to 9 / 1.9 / 0.1mm]
1-001-020	Leading Edge Reg	Duplex:Mid SpdA	ENG	[-9 to 9 / 3.4 / 0.1mm]
1-001-021	Leading Edge Reg	Duplex:Mid SpdB	ENG	[-9 to 9 / 0 / 0.1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-001-022	Leading Edge Reg	Tray2/3/4:Std Spd	ENG	[-9 to 9 / 0.9 / 0.1mm]
1-001-023	Leading Edge Reg	Tray2/3/4:Mid SpdA	ENG	[-9 to 9 / 1.9 / 0.1mm]
1-001-024	Leading Edge Reg	Tray2/3/4:Mid SpdB	ENG	[-9 to 9 / 1.9 / 0.1mm]
1-002-001	Side-to-Side Reg	Tray1	ENG	[-5 to 5 / 0 / 0.1mm]
1-002-002	Side-to-Side Reg	By-pass	ENG	[-5 to 5 / 0 / 0.1mm]
1-002-003	Side-to-Side Reg	Duplex	ENG	[-5 to 5 / 0 / 0.1mm]
1-002-004	Side-to-Side Reg	Tray2	ENG	[-5 to 5 / -1.1 / 0.1mm]
1-002-005	Side-to-Side Reg	Tray3	ENG	[-5 to 5 / -1 / 0.1mm]
1-002-006	Side-to-Side Reg	Tray4	ENG	[-5 to 5 / -1 / 0.1mm]
1-003-001	Paper Buckle	Tray1:Std Spd	ENG	[-9 to 9 / -0.5 / 0.1mm]
1-003-002	Paper Buckle	Tray1:Mid SpdA	ENG	[-9 to 9 / -1 / 0.1mm]
1-003-003	Paper Buckle	Tray1:Mid SpdB	ENG	[-9 to 9 / 0 / 0.1mm]
1-003-004	Paper Buckle	By-pass:Std Spd	ENG	[-9 to 9 / 1.5 / 0.1mm]
1-003-005	Paper Buckle	By-pass:Mid SpdA	ENG	[-9 to 9 / -1 / 0.1mm]
1-003-006	Paper Buckle	By-pass:Mid SpdB	ENG	[-9 to 9 / -1 / 0.1mm]
1-003-007	Paper Buckle	Duplex:Std Spd	ENG	[-9 to 9 / -0.5 / 0.1mm]
1-003-008	Paper Buckle	Duplex:Mid SpdA	ENG	[-9 to 9 / -1 / 0.1mm]
1-003-009	Paper Buckle	Duplex::Mid SpdB	ENG	[-9 to 9 / 0 / 0.1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-003-010	Paper Buckle	Tray2/3/4:Std Spd	ENG	[-9 to 9 / -1 / 0.1mm]
1-003-011	Paper Buckle	Tray2/3/4:Mid SpdA	ENG	[-9 to 9 / 0 / 0.1mm]
1-003-012	Paper Buckle	Tray2/3/4:Mid SpdB	ENG	[-9 to 9 / 0 / 0.1mm]
1-004-001	Feed Assist Mode	Execute Pattern	ENG	[0 to 1 / 0 / 1]
1-004-002	Feed Assist Mode	Tray1	ENG	[0 to 3 / 0 / 1]
1-004-003	Feed Assist Mode	By-pass	ENG	[0 to 3 / 0 / 1]
1-004-005	Feed Assist Mode	Affter Jam	ENG	[0 to 1 / 0 / 1]
1-004-006	Feed Assist Mode	Lower ppm	ENG	[60 to 99 / 60 / 1%]
1-101-001	Reload Permit Set	Idling Start Temp	ENG	[50 to 60 / 50 / 1deg]
1-101-002	Reload Permit Set	ReloadTemp:Center	ENG	[120 to 155 / 140 / 1deg]
1-101-003	Reload Permit Set	ReloadTemp:Press	ENG	[50 to 80 / 70 / 1deg]
1-101-004	Reload Permit Set	Delta:Cld:Ctr	ENG	[20 to 50 / 20 / 1deg]
1-101-005	Reload Permit Set	Delta:Cld:End	ENG	[55 to 80 / 80 / 1deg]
1-101-006	Reload Permit Set	Delta:Cld:PrssCtr	ENG	[0 to 30 / 30 / 1deg]
1-101-007	Reload Permit Set	Rotation Time:Cld	ENG	[0 to 10 / 2 / 0.1sec]
1-101-008	Reload Permit Set	Delta:Hot:Ctr	ENG	[20 to 50 / 30 / 1deg]
1-101-009	Reload Permit Set	Delta:Hot:End	ENG	[55 to 70 / 55 / 1deg]
1-101-010	Reload Permit Set	Delta:Hot:PrssCtr	ENG	[0 to 30 / 20 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-101-011	Reload Permit Set	Rotation Time:Hot	ENG	[0 to 10 / 2 / 0.1sec]
1-101-012	Reload Permit Set	Delta:BW1:Ctr	ENG	[20 to 50 / 20 / 1deg]
1-101-013	Reload Permit Set	Delta:BW1:End	ENG	[55 to 80 / 80 / 1deg]
1-101-014	Reload Permit Set	Delta:BW1:PrssCtr	ENG	[0 to 30 / 30 / 1deg]
1-101-015	Reload Permit Set	Rotation Time:BW1	ENG	[0 to 10 / 2 / 0.1sec]
1-101-101	Reload Permit Set	Delta:BW2:Ctr	ENG	[20 to 100 / 20 / 1deg]
1-101-102	Reload Permit Set	Delta:BW2:End	ENG	[55 to 100 / 80 / 1deg]
1-101-103	Reload Permit Set	Delta:BW2:PrssCtr	ENG	[0 to 50 / 40 / 1deg]
1-101-104	Reload Permit Set	Rotation Time:BW2	ENG	[0 to 10 / 1.4 / 0.1sec]
1-101-105	Reload Permit Set	ReloadTemp:C:BW2	ENG	[120 to 155 / 140 / 1deg]
1-101-106	Reload Permit Set	ReloadTemp:P:BW2	ENG	[50 to 80 / 70 / 1deg]
1-101-151	Reload Permit Set	Delta:Low:Ctr	ENG	[20 to 50 / 20 / 1deg]
1-101-152	Reload Permit Set	Delta:Low:End	ENG	[55 to 70 / 65 / 1deg]
1-101-153	Reload Permit Set	Delta:Low:PrssCtr	ENG	[0 to 30 / 10 / 1deg]
1-101-154	Reload Permit Set	Rotation Time:Low	ENG	[0 to 10 / 2 / 0.1sec]
1-101-200	Reload Permit Set	Delta:Cld:PrssEnd	ENG	[0 to 30 / 30 / 1deg]
1-101-201	Reload Permit Set	Delta:Hot:PrssEnd	ENG	[0 to 30 / 20 / 1deg]
1-101-202	Reload Permit Set	Delta:BW1:PrssEnd	ENG	[0 to 30 / 30 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-101-203	Reload Permit Set	Delta:BW2:PrssEnd	ENG	[0 to 50 / 40 / 1deg]
1-101-204	Reload Permit Set	Delta:Low:PrssEnd	ENG	[0 to 30 / 10 / 1deg]
1-102-001	Feed Permit Set	LowDlt:Ctr	ENG	[0 to 30 / 15 / 1deg]
1-102-002	Feed Permit Set	LowDlt:End	ENG	[40 to 80 / 80 / 1deg]
1-102-003	Feed Permit Set	UpDlt:Ctr	ENG	[0 to 20 / 15 / 1deg]
1-102-004	Feed Permit Set	UpDlt:End	ENG	[0 to 20 / 15 / 1deg]
1-102-005	Feed Permit Set	LowDlt:PrssCtr	ENG	[40 to 100 / 85 / 1deg]
1-102-006	Feed Permit Set	Rotation Time	ENG	[0 to 3 / 0 / 0.1sec]
1-102-007	Feed Permit Set	LowDlt:CtrEx	ENG	[0 to 30 / 25 / 1deg]
1-102-008	Feed Permit Set	LowDlt:EndEx	ENG	[40 to 80 / 65 / 1deg]
1-102-009	Feed Permit Set	UpDlt:CtrEx	ENG	[0 to 20 / 15 / 1deg]
1-102-010	Feed Permit Set	UpDlt:EndEx	ENG	[0 to 20 / 15 / 1deg]
1-102-011	Feed Permit Set	LowDlt:PrssCtrEx	ENG	[40 to 100 / 75 / 1deg]
1-102-012	Feed Permit Set	Rotation Time:Ex	ENG	[0 to 3 / 0 / 0.1sec]
1-102-013	Feed Permit Set	LowDlt:CtrEx2	ENG	[0 to 100 / 80 / 1deg]
1-102-014	Feed Permit Set	LowDlt:EndEx2	ENG	[40 to 80 / 80 / 1deg]
1-102-015	Feed Permit Set	UpDlt:CtrEx2	ENG	[0 to 20 / 15 / 1deg]
1-102-016	Feed Permit Set	UpDlt:EndEx2	ENG	[0 to 20 / 15 / 1deg]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-102-017	Feed Permit Set	LowDlt:PrssCtrEx2	ENG	[40 to 100 / 85 / 1deg]
1-102-018	Feed Permit Set	Rotation Time:Ex2	ENG	[0 to 4 / 2.1 / 0.1sec]
1-102-019	Feed Permit Set	Feed Permit Time	ENG	[0 to 200 / 60 / 1sec]
1-102-030	Feed Permit Set	Start:PTmp:Ctr	ENG	[0 to 100 / 10 / 1deg]
1-102-040	Feed Permit Set	Judging Temp:C	ENG	[0 to 150 / 102 / 1deg]
1-102-041	Feed Permit Set	Judging Time	ENG	[0 to 3 / 2 / 0.1sec]
1-102-042	Feed Permit Set	Feed Permit Ex	ENG	[0 to 30 / 0 / 1sec]
1-102-050	Feed Permit Set	LowDlt:PrssEnd	ENG	[40 to 100 / 85 / 1deg]
1-102-051	Feed Permit Set	UpDlt:PrssEnd	ENG	[100 to 200 / 125 / 1deg]
1-102-052	Feed Permit Set	LowDlt:PrssEndEX	ENG	[40 to 100 / 75 / 1deg]
1-102-053	Feed Permit Set	UpDlt:PrssEndEX	ENG	[100 to 200 / 125 / 1deg]
1-102-054	Feed Permit Set	LowDlt:PrssEndEX2	ENG	[40 to 100 / 85 / 1deg]
1-102-055	Feed Permit Set	UpDlt:PrssEndEX2	ENG	[100 to 200 / 125 / 1deg]
1-105-001	Print Target Temp	Plain1:FC:Center	ENG	[130 to 170 / 149 / 1deg]
1-105-002	Print Target Temp	Plain1:BW:Center	ENG	[130 to 170 / 145 / 1deg]
1-105-003	Print Target Temp	Plain2:FC:Center	ENG	[130 to 170 / 153 / 1deg]
1-105-004	Print Target Temp	Plain2:BW:Center	ENG	[130 to 170 / 148 / 1deg]
1-105-005	Print Target Temp	Thin:FC:Center	ENG	[130 to 170 / 146 / 1deg]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-006	Print Target Temp	Thin:BW:Center	ENG	[130 to 170 / 142 / 1deg]
1-105-009	Print Target Temp	M-Thick:FC:Center	ENG	[130 to 170 / 140 / 1deg]
1-105-010	Print Target Temp	M-Thick:BW:Center	ENG	[130 to 170 / 137 / 1deg]
1-105-011	Print Target Temp	Thick1:FC:Center	ENG	[130 to 170 / 147 / 1deg]
1-105-012	Print Target Temp	Thick1:BW:Center	ENG	[130 to 170 / 144 / 1deg]
1-105-015	Print Target Temp	Thick2:FC:Center	ENG	[130 to 170 / 147 / 1deg]
1-105-016	Print Target Temp	Thick2:BW:Center	ENG	[130 to 170 / 144 / 1deg]
1-105-017	Print Target Temp	Spe1:FC:Center	ENG	[130 to 170 / 149 / 1deg]
1-105-018	Print Target Temp	Spe1:BW:Center	ENG	[130 to 170 / 144 / 1deg]
1-105-019	Print Target Temp	Spe2:FC:Center	ENG	[130 to 170 / 154 / 1deg]
1-105-020	Print Target Temp	Spe2:BW:Center	ENG	[130 to 170 / 149 / 1deg]
1-105-021	Print Target Temp	Plain1:Glo:Center	ENG	[120 to 170 / 130 / 1deg]
1-105-025	Print Target Temp	Env:Center	ENG	[130 to 170 / 145 / 1deg]
1-105-027	Print Target Temp	Thick3:FC:Center	ENG	[130 to 170 / 149 / 1deg]
1-105-028	Print Target Temp	Thick3:BW:Center	ENG	[130 to 170 / 144 / 1deg]
1-105-029	Print Target Temp	Thick4:FC:Center	ENG	[0 to 200 / 154 / 1deg]
1-105-030	Print Target Temp	Thick4:BW:Center	ENG	[0 to 200 / 149 / 1deg]
1-105-031	Print Target Temp	Spe3:FC:Center	ENG	[130 to 170 / 154 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-032	Print Target Temp	Spe3:BW:Center	ENG	[130 to 170 / 149 / 1deg]
1-105-033	Print Target Temp	Env:Low:Center	ENG	[120 to 170 / 140 / 1deg]
1-105-035	Print Target Temp	Card:Center	ENG	[120 to 170 / 147 / 1deg]
1-105-041	Print Target Temp	OHP:Center	ENG	[140 to 180 / 160 / 1deg]
1-105-043	Print Target Temp	Label1:FC:Center	ENG	[130 to 170 / 147 / 1deg]
1-105-044	Print Target Temp	Label1:BW:Center	ENG	[130 to 170 / 144 / 1deg]
1-105-045	Print Target Temp	Label2:FC:Center	ENG	[130 to 170 / 140 / 1deg]
1-105-046	Print Target Temp	Label2:BW:Center	ENG	[130 to 170 / 137 / 1deg]
1-105-101	Print Target Temp	Plain1:FC:Press	ENG	[50 to 150 / 120 / 1deg]
1-105-102	Print Target Temp	Plain1:BW:Press	ENG	[50 to 150 / 120 / 1deg]
1-105-103	Print Target Temp	Plain2:FC:Press	ENG	[50 to 150 / 120 / 1deg]
1-105-104	Print Target Temp	Plain2:BW:Press	ENG	[50 to 150 / 120 / 1deg]
1-105-105	Print Target Temp	Thin:FC:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-106	Print Target Temp	Thin:BW:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-109	Print Target Temp	M-Thick:FC:Press	ENG	[50 to 150 / 145 / 1deg]
1-105-110	Print Target Temp	M-Thick:BW:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-111	Print Target Temp	Thick1:FC:Press	ENG	[100 to 150 / 150 / 1deg]
1-105-112	Print Target Temp	Thick1:BW:Press	ENG	[100 to 150 / 150 / 1deg]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-115	Print Target Temp	Thick2:FC:Press	ENG	[100 to 160 / 150 / 1deg]
1-105-116	Print Target Temp	Thick2:BW:Press	ENG	[100 to 160 / 150 / 1deg]
1-105-117	Print Target Temp	Spe1:FC:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-118	Print Target Temp	Spe1:BW:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-119	Print Target Temp	Spe2:FC:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-120	Print Target Temp	Spe2:BW:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-121	Print Target Temp	Plain1:Glo:Press	ENG	[50 to 150 / 105 / 1deg]
1-105-125	Print Target Temp	Env:Press	ENG	[50 to 150 / 135 / 1deg]
1-105-127	Print Target Temp	Thick3:FC:Press	ENG	[100 to 160 / 145 / 1deg]
1-105-128	Print Target Temp	Thick3:BW:Press	ENG	[100 to 160 / 145 / 1deg]
1-105-129	Print Target Temp	Thick4:FC:Press	ENG	[0 to 200 / 120 / 1deg]
1-105-130	Print Target Temp	Thick4:BW:Press	ENG	[0 to 200 / 120 / 1deg]
1-105-131	Print Target Temp	Spe3:FC:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-132	Print Target Temp	Spe3:BW:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-133	Print Target Temp	Env:Low:Press	ENG	[50 to 150 / 140 / 1deg]
1-105-135	Print Target Temp	Card:Press	ENG	[50 to 150 / 150 / 1deg]
1-105-141	Print Target Temp	OHP:Press	ENG	[50 to 150 / 125 / 1deg]
1-105-143	Print Target Temp	Label1:FC:Press	ENG	[100 to 150 / 150 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-105-144	Print Target Temp	Label1:BW::Press	ENG	[100 to 150 / 150 / 1deg]
1-105-145	Print Target Temp	Label2:FC::Press	ENG	[100 to 160 / 145 / 1deg]
1-105-146	Print Target Temp	Label2:BW::Press	ENG	[100 to 160 / 145 / 1deg]
1-107-001	Stdbby Target Temp	PreHeat1:Center	ENG	[100 to 120 / 110 / 1deg]
1-107-002	Stdbby Target Temp	PreHeat1:Press	ENG	[100 to 120 / 110 / 1deg]
1-107-007	Stdbby Target Temp	PrintReady:Center	ENG	[120 to 150 / 130 / 1deg]
1-107-008	Stdbby Target Temp	PrintReady:Press	ENG	[100 to 150 / 110 / 1deg]
1-108-001	AftrRld/PtTrgtTmp	Center	ENG	[100 to 150 / 130 / 1deg]
1-108-002	AftrRld/PtTrgtTmp	Press	ENG	[100 to 150 / 110 / 1deg]
1-108-011	AftrRld/PtTrgtTmp	Center:BW2	ENG	[100 to 150 / 140 / 1deg]
1-108-012	AftrRld/PtTrgtTmp	Press:BW2	ENG	[100 to 150 / 110 / 1deg]
1-109-001	Upper Limit Temp	BootRecovery:Heat	ENG	[160 to 200 / 180 / 1deg]
1-109-002	Upper Limit Temp	BootRecovery:Prss	ENG	[160 to 200 / 180 / 1deg]
1-109-003	Upper Limit Temp	Other:Heat	ENG	[170 to 200 / 190 / 1deg]
1-109-004	Upper Limit Temp	Other:Prss	ENG	[170 to 200 / 190 / 1deg]
1-110-001	Flicker mode	Flicker mode	ENG	[0 to 1 / 0 / 1]
1-111-001	Env.Crrct:Fusing	Temp:Thresh:Low	ENG	[10 to 20 / 17 / 1deg]
1-111-002	Env.Crrct:Fusing	Temp:Thresh:High	ENG	[20 to 40 / 30 / 1deg]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-111-003	Env.Crrct:Fusing	LowCorrection	ENG	[0 to 10 / 0 / 1deg]
1-111-004	Env.Crrct:Fusing	HighCorrection	ENG	[0 to 10 / 0 / 1deg]
1-111-005	Env.Crrct:Fusing	Print:LowCorrect	ENG	[0 to 10 / 5 / 1deg]
1-111-006	Env.Crrct:Fusing	Print:HighCorrect	ENG	[0 to 10 / 0 / 1deg]
1-111-007	Env.Crrct:Fusing	Prnt:LowCrrct:Sp	ENG	[0 to 20 / 8 / 1deg]
1-111-008	Env.Crrct:Fusing	Prnt:HighCrrct:Sp	ENG	[0 to 20 / 0 / 1deg]
1-112-001	ImageTempCorrect	Temp:Level1	ENG	[-10 to 0 / 0 / 1deg]
1-112-002	ImageTempCorrect	Temp:Level2	ENG	[-30 to 0 / -10 / 1deg]
1-113-001	Curl Correction	Execute Pattern	ENG	[0 to 1 / 0 / 1] 0:OFF 1:ON
1-113-004	Curl Correction	TmpDIt:PrssM-Hum	ENG	[0 to 50 / 40 / 1deg]
1-113-005	Curl Correction	TmpDIt:PrssH-Hum	ENG	[0 to 50 / 40 / 1deg]
1-113-006	Curl Correction	TmpDIt:PrssH-HumS	ENG	[0 to 50 / 0 / 1deg]
1-113-008	Curl Correction	CPM:M-humid	ENG	[0 to 100 / 100 / 1%]
1-113-009	Curl Correction	CPM:H-humid	ENG	[0 to 100 / 100 / 1%]
1-113-010	Curl Correction	Paper Width:A	ENG	[0 to 300 / 128.5 / 0.1mm]
1-113-011	Curl Correction	Paper Width:B	ENG	[0 to 300 / 182 / 0.1mm]
1-113-012	Curl Correction	CPM:H-humid:S	ENG	[0 to 100 / 50 / 1%]
1-114-	HeatStorageStatus	Temp:Thresh:Press	ENG	[50 to 100 / 75 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
001				
1-115-001	Target Temp Crrct	Temp:Delta:End	ENG*	[-10 to 10 / 10 / 1deg]
1-115-002	Target Temp Crrct	Pri:Delta:End	ENG*	[-10 to 10 / 0 / 1deg]
1-115-003	Target Temp Crrct	Stdby:Delta:End	ENG*	[-10 to 10 / 0 / 1deg]
1-115-010	Target Temp Crrct	Pri:Del:Ple1:FC	ENG*	[-10 to 10 / 10 / 1deg]
1-115-011	Target Temp Crrct	Pri:Del:Ple1:BW	ENG*	[-10 to 10 / 10 / 1deg]
1-115-012	Target Temp Crrct	Pri:Del:Ple2:FC	ENG*	[-10 to 10 / 10 / 1deg]
1-115-013	Target Temp Crrct	Pri:Del:Ple2:BW	ENG*	[-10 to 10 / 10 / 1deg]
1-115-014	Target Temp Crrct	Pri:Del:Thin:FC	ENG*	[-10 to 10 / 10 / 1deg]
1-115-015	Target Temp Crrct	Pri:Del:Thin:BW	ENG*	[-10 to 10 / 10 / 1deg]
1-115-016	Target Temp Crrct	Pri:Del:Ple1:BW2	ENG*	[-10 to 10 / 5 / 1deg]
1-115-017	Target Temp Crrct	Pri:Del:Ple2:BW2	ENG*	[-10 to 10 / 5 / 1deg]
1-115-020	Target Temp Crrct	Pri:Del:End:Ssize	ENG*	[-10 to 10 / 0 / 1deg]
1-116-001	StorageFBCrrct	ONOFF Switch Temp	ENG	[0 to 2 / 2 / 1] 0:OFF 1:ON(BW) 2:ON(BW/FC)
1-116-011	StorageFBCrrct	Time Out	ENG	[0 to 500 / 0 / 1sec]
1-116-021	StorageFBCrrct	Delay:Std:FC1	ENG	[0 to 20000 / 0 / 1msec]
1-116-022	StorageFBCrrct	Delay:Std:BW1	ENG	[0 to 20000 / 0 / 1msec]
1-116-	StorageFBCrrct	Delay:Std:FC2	ENG	[0 to 20000 / 0 / 1msec]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
031				
1-116-032	StorageFBCrrct	Delay:Std:BW2	ENG	[0 to 20000 / 0 / 1msec]
1-116-041	StorageFBCrrct	PressStandardTemp	ENG	[0 to 200 / 99 / 1deg]
1-116-042	StorageFBCrrct	TmpCrrctLowLimit	ENG	[-30 to 0 / -3 / 1deg]
1-116-043	StorageFBCrrct	TmpCrrctHighLimit	ENG	[0 to 30 / 0 / 1deg]
1-116-051	StorageFBCrrct	PprThickCoef:Nm1	ENG	[0 to 100 / 17 / 1]
1-116-052	StorageFBCrrct	PprThickCoef:Nm2	ENG	[0 to 100 / 17 / 1]
1-116-141	StorageFBCrrct	PressStandardTemp	ENG	[0 to 200 / 0 / 1deg]
1-116-142	StorageFBCrrct	CrrctLowLimitBW2	ENG	[-30 to 0 / 0 / 1deg]
1-116-143	StorageFBCrrct	CrrctHighLimitBW2	ENG	[0 to 200 / 0 / 1deg]
1-116-151	StorageFBCrrct	PprThickCoef1:BW2	ENG	[0 to 200 / 0 / 1]
1-116-152	StorageFBCrrct	PprThickCoef2:BW2	ENG	[0 to 200 / 0 / 1]
1-117-001	Repeat Temp Crrct	Control Time 1:A	ENG*	[0 to 300 / 0 / 1sec]
1-117-002	Repeat Temp Crrct	Control Time 2:A	ENG*	[0 to 300 / 64 / 1sec]
1-117-003	Repeat Temp Crrct	Temp:Center:1:A	ENG*	[-20 to 20 / 0 / 1deg]
1-117-004	Repeat Temp Crrct	Temp:End:1:A	ENG*	[-20 to 20 / 0 / 1deg]
1-117-005	Repeat Temp Crrct	Temp:Center:2:A	ENG*	[-20 to 20 / -4 / 1deg]
1-117-006	Repeat Temp Crrct	Temp:End:2:A	ENG*	[-20 to 20 / 0 / 1deg]
1-117-	Repeat Temp Crrct	Control Time 1:B	ENG*	[0 to 300 / 0 / 1sec]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
011				
1-117-012	Repeat Temp Crrct	Control Time 2:B	ENG*	[0 to 300 / 0 / 1sec]
1-117-013	Repeat Temp Crrct	Temp:Center:1:B	ENG*	[-20 to 20 / 0 / 1deg]
1-117-014	Repeat Temp Crrct	Temp:End:1:B	ENG*	[-20 to 20 / 0 / 1deg]
1-117-015	Repeat Temp Crrct	Temp:Center:2:B	ENG*	[-20 to 20 / 0 / 1deg]
1-117-016	Repeat Temp Crrct	Temp:End:2:B	ENG*	[-20 to 20 / 0 / 1deg]
1-117-021	Repeat Temp Crrct	Control Time 1:C	ENG	[0 to 300 / 0 / 1sec]
1-117-022	Repeat Temp Crrct	Control Time 2:C	ENG	[0 to 300 / 0 / 1sec]
1-117-023	Repeat Temp Crrct	Temp:Center:1:C	ENG	[-20 to 20 / 0 / 1deg]
1-117-024	Repeat Temp Crrct	Temp:End:1:C	ENG	[-20 to 20 / 0 / 1deg]
1-117-025	Repeat Temp Crrct	Temp:Center:2:C	ENG	[-20 to 20 / 0 / 1deg]
1-117-026	Repeat Temp Crrct	Temp:End:2:C	ENG	[-20 to 20 / 0 / 1deg]
1-117-027	Repeat Temp Crrct	Control Time 1:D	ENG	[0 to 300 / 0 / 1sec]
1-117-028	Repeat Temp Crrct	Control Time 2:D	ENG	[0 to 300 / 0 / 1sec]
1-117-029	Repeat Temp Crrct	Temp:Center:1:D	ENG	[-20 to 20 / 0 / 1deg]
1-117-030	Repeat Temp Crrct	Temp:End:1:D	ENG	[-20 to 20 / 0 / 1deg]
1-117-031	Repeat Temp Crrct	Temp:Center:2:D	ENG	[-20 to 20 / 0 / 1deg]
1-117-032	Repeat Temp Crrct	Temp:End:2:D	ENG	[-20 to 20 / 0 / 1deg]
1-117-	Repeat Temp Crrct	Control Time 1:E	ENG*	[0 to 300 / 0 / 1sec]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
033				
1-117-034	Repeat Temp Crrct	Control Time 2:E	ENG*	[0 to 300 / 0 / 1sec]
1-117-035	Repeat Temp Crrct	Temp:Center:1:E	ENG*	[-20 to 20 / 0 / 1deg]
1-117-036	Repeat Temp Crrct	Temp:End:1:E	ENG*	[-20 to 20 / 0 / 1deg]
1-117-037	Repeat Temp Crrct	Temp:Center:2:E	ENG*	[-20 to 20 / 0 / 1deg]
1-117-038	Repeat Temp Crrct	Temp:End:2:E	ENG*	[-20 to 20 / 0 / 1deg]
1-118-001	Water Drop Reduce	Execute Pattern	ENG	[0 to 1 / 0 / 1] 0:OFF 1:ON
1-118-002	Water Drop Reduce	RotationTime:1	ENG	[0 to 99 / 99 / 1sec]
1-118-003	Water Drop Reduce	RotationTime:0	ENG	[0 to 30 / 10 / 1sec]
1-119-001	Pre Temp Crrct	Temp:Center:A4Y	ENG	[-10 to 20 / 0 / 1deg]
1-119-002	Pre Temp Crrct	Temp:End:A4Y	ENG	[-10 to 20 / 0 / 1deg]
1-119-003	Pre Temp Crrct	Temp:Center:B5Y	ENG	[-10 to 20 / 0 / 1deg]
1-119-004	Pre Temp Crrct	Temp:End:B5Y	ENG*	[-10 to 20 / 0 / 1deg]
1-121-001	SwRotate Strt/Stp	Time:After Reload	ENG	[0 to 200 / 100 / 1sec]
1-121-002	SwRotate Strt/Stp	Time:After Recov	ENG	[0 to 20 / 10 / 1sec]
1-121-003	SwRotate Strt/Stp	Time:After Job	ENG	[0 to 30 / 30 / 1sec]
1-121-004	SwRotate Strt/Stp	Press:AfterReload	ENG	[0 to 160 / 160 / 1deg]
1-121-005	SwRotate Strt/Stp	End:AfterPrint:A3	ENG*	[150 to 200 / 190 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-121-006	SwRotate Strt/Stp	End:AfterPrt:LTL	ENG	[150 to 200 / 190 / 1deg]
1-121-008	SwRotate Strt/Stp	StrtTp:OverTpPrev	ENG	[150 to 200 / 190 / 1deg]
1-121-009	SwRotate Strt/Stp	RotatTm:OvrTpPrev	ENG	[10 to 30 / 17 / 1sec]
1-121-010	SwRotate Strt/Stp	End:AfterPrt:B5T	ENG	[50 to 150 / 100 / 1deg]
1-121-011	SwRotate Strt/Stp	End:AfterPrt:A6T	ENG	[50 to 150 / 100 / 1deg]
1-121-012	SwRotate Strt/Stp	End:AfterPrt:B6T	ENG	[60 to 160 / 110 / 1deg]
1-121-023	SwRotate Strt/Stp	HeatOFF:Sto:AfRld	ENG	[0 to 50000 / 3000 / 1msec]
1-121-024	SwRotate Strt/Stp	HeatOFF:AfterPrt	ENG	[0 to 50000 / 3000 / 1msec]
1-121-025	SwRotate Strt/Stp	HeatOFF:BW2	ENG	[0 to 50000 / 0 / 1msec]
1-121-026	SwRotate Strt/Stp	HeatOFF:Over:Stp	ENG	[0 to 50000 / 3000 / 1msec]
1-121-030	SwRotate Strt/Stp	MotorOFF::Stp	ENG	[500 to 50000 / 1500 / 1msec]
1-121-031	SwRotate Strt/Stp	MotorOFF::Stp:BW2	ENG	[500 to 50000 / 3000 / 1msec]
1-122-001	StdbyRotationSet	Rotation Interval	ENG	[0 to 240 / 60 / 1min]
1-122-002	StdbyRotationSet	Rotation Time	ENG	[0 to 10000 / 600 / 1msec]
1-124-001	CPM Down Setting	Low:Down Temp.	ENG	[-30 to 0 / -15 / 1deg]
1-124-002	CPM Down Setting	Low:Up Temp.	ENG	[-20 to 0 / -10 / 1deg]
1-124-003	CPM Down Setting	Low:1CPM	ENG	[10 to 100 / 50 / 1%]
1-124-004	CPM Down Setting	Low:2CPM	ENG	[10 to 100 / 25 / 1%]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-124-006	CPM Down Setting	High:1CPM	ENG	[10 to 100 / 50 / 1%]
1-124-007	CPM Down Setting	High:2CPM	ENG	[10 to 100 / 25 / 1%]
1-124-009	CPM Down Setting	High:1CPMDown:A3	ENG*	[0 to 225 / 180 / 1deg]
1-124-010	CPM Down Setting	High:2CPMDown:A3	ENG*	[0 to 225 / 190 / 1deg]
1-124-012	CPM Down Setting	H:1CPMD:A4	ENG	[0 to 225 / 198 / 1deg]
1-124-013	CPM Down Setting	H:2CPMD:A4	ENG	[0 to 225 / 208 / 1deg]
1-124-014	CPM Down Setting	High:1CPMDown:A6	ENG	[0 to 225 / 180 / 1deg]
1-124-015	CPM Down Setting	High:2CPMDown:A6	ENG	[0 to 225 / 190 / 1deg]
1-124-020	CPM Down Setting	High:1CPMDown:crd	ENG	[0 to 225 / 180 / 1deg]
1-124-021	CPM Down Setting	High:2CPMDwn:crd	ENG	[0 to 225 / 190 / 1deg]
1-124-022	CPM Down Setting	High:1CPMDown:env	ENG	[0 to 225 / 180 / 1deg]
1-124-023	CPM Down Setting	High:2CPMDown:env	ENG	[0 to 225 / 190 / 1deg]
1-124-024	CPM Down Setting	Judging Interval	ENG	[1 to 250 / 10 / 1sec]
1-124-100	CPM Down Setting	H:1CPMD:A4:P	ENG*	[0 to 225 / 170 / 1deg]
1-124-101	CPM Down Setting	H:2CPMD:A4:P	ENG*	[0 to 225 / 180 / 1deg]
1-124-103	CPM Down Setting	H:1CPMD:B5:P	ENG	[0 to 225 / 110 / 1deg]
1-124-104	CPM Down Setting	H:2CPMD:B5:P	ENG	[0 to 225 / 155 / 1deg]
1-124-106	CPM Down Setting	H:1CPMD:A6:P	ENG	[0 to 225 / 115 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
1-124-107	CPM Down Setting	H:2CPMD:A6:P	ENG	[0 to 225 / 160 / 1deg]
1-124-120	CPM Down Setting	H:1CPMD:post:P	ENG	[0 to 225 / 105 / 1deg]
1-124-121	CPM Down Setting	H:2CPMD:post:P	ENG	[0 to 225 / 180 / 1deg]
1-124-122	CPM Down Setting	H:1CPMD:env:P	ENG	[0 to 225 / 105 / 1deg]
1-124-123	CPM Down Setting	H:2CPMD:env:P	ENG	[0 to 225 / 160 / 1deg]
1-124-200	CPM Down Setting	Start:DownTime	ENG	[0 to 100 / 20 / 1sec]
1-125-004	PressTmpFBCorrect	Delay:Std:FC	ENG	[0 to 20000 / 3978 / 1msec]
1-125-005	PressTmpFBCorrect	Delay:Std:BW	ENG	[0 to 20000 / 2779 / 1msec]
1-125-006	PressTmpFBCorrect	Delay:Middle:FC	ENG	[0 to 20000 / 8113 / 1msec]
1-125-007	PressTmpFBCorrect	Delay:Middle:BW	ENG	[0 to 20000 / 5781 / 1msec]
1-125-008	PressTmpFBCorrect	Delay:Low:FC	ENG	[0 to 20000 / 12369 / 1msec]
1-125-009	PressTmpFBCorrect	Delay:Low:BW	ENG	[0 to 20000 / 8872 / 1msec]
1-125-020	PressTmpFBCorrect	ONOFFSw:Rotations	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
1-125-051	PressTmpFBCorrect	GainA:Low	ENG	[0 to 100 / 3.45 / 0.01]
1-125-052	PressTmpFBCorrect	GainB:Low	ENG	[-5000 to 5000 / -305 / 1]
1-125-053	PressTmpFBCorrect	GainA:Normal	ENG	[0 to 100 / 3.45 / 0.01]
1-125-054	PressTmpFBCorrect	GainB:Normal	ENG	[-5000 to 5000 / -305 / 1]
1-125-	PressTmpFBCorrect	Moter:LowLimit	ENG	[-5 to 0 / -1.2 / 0.1%]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
061				
1-125-062	PressTmpFBCorrect	Moter:HighLimit	ENG	[0 to 5 / 0.3 / 0.1%]
1-131-001	ContPrtModeSwitch	ContPrtModeSwitch	ENG	[0 to 2 / 0 / 1] 0:Product 1:Quality1 2:Quality2
1-132-001	MaxDutySwitch	ControlSwitch	ENG	[0 to 1 / 0 / 1]
1-133-001	LstPprHeatOffCtrl	OffTime:Std:FC	ENG	[0 to 20000 / 538 / 1msec]
1-133-002	LstPprHeatOffCtrl	OffTime:Std:BW	ENG	[0 to 20000 / 538 / 1msec]
1-133-003	LstPprHeatOffCtrl	OffTime:Middle:FC	ENG	[0 to 20000 / 1047 / 1msec]
1-133-004	LstPprHeatOffCtrl	OffTime:Middle:BW	ENG	[0 to 20000 / 1047 / 1msec]
1-133-005	LstPprHeatOffCtrl	OffTime:Low:FC	ENG	[0 to 20000 / 1570 / 1msec]
1-133-006	LstPprHeatOffCtrl	OffTime:Low:BW	ENG	[0 to 20000 / 1570 / 1msec]
1-133-007	LstPprHeatOffCtrl	OffTime:Std:BW2	ENG	[0 to 20000 / 538 / 1msec]
1-135-001	Inrush Control	Inrush Control	ENG	[0 to 1 / 0 / 1]
1-141-001	FusingSCErrorInfo	SC Number	ENG	[0 to 999 / 0 / 1]
1-141-002	FusingSCErrorInfo	SC Number Detail	ENG	[0 to 255 / 0 / 1]
1-141-101	FusingSCErrorInfo	SC Temp:Sens1	ENG	[0 to 255 / 0 / 1deg]
1-141-102	FusingSCErrorInfo	SC Temp:Sens2	ENG	[0 to 255 / 0 / 1deg]
1-141-103	FusingSCErrorInfo	SC Temp:Sens3	ENG	[0 to 255 / 0 / 1deg]
1-141-	FusingSCErrorInfo	SC Temp:Sens4	ENG	[0 to 255 / 0 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
104				
1-141-151	FusingSCErrorInfo	SC Pre1Temp:Sens1	ENG	[0 to 255 / 0 / 1deg]
1-141-152	FusingSCErrorInfo	SC Pre1Temp:Sens2	ENG	[0 to 255 / 0 / 1deg]
1-141-153	FusingSCErrorInfo	SC Pre1Temp:Sens3	ENG	[0 to 255 / 0 / 1deg]
1-141-154	FusingSCErrorInfo	SC Pre1Temp:Sens4	ENG	[0 to 255 / 0 / 1deg]
1-141-201	FusingSCErrorInfo	SC Pre2Temp:Sens1	ENG	[0 to 255 / 0 / 1deg]
1-141-202	FusingSCErrorInfo	SC Pre2Temp:Sens2	ENG	[0 to 255 / 0 / 1deg]
1-141-203	FusingSCErrorInfo	SC Pre2Temp:Sens3	ENG	[0 to 255 / 0 / 1deg]
1-141-204	FusingSCErrorInfo	SC Pre2Temp:Sens4	ENG	[0 to 255 / 0 / 1deg]
1-148-001	Full Detected	OFF / ON	ENG	[0 to 1 / 1 / 1]
1-149-001	Wait Time	Duplex	ENG	[0 to 120 / 20 / 5sec]
1-152-001	Nip Band Check	Execute	ENG*	[0 to 1 / 0 / 1]
1-152-002	Nip Band Check	Pre-idling Time	ENG	[0 to 999 / 600 / 1sec]
1-152-003	Nip Band Check	Stop Time	ENG	[0 to 100 / 20 / 1sec]
1-152-004	Nip Band Check	Feed Time	ENG	[1937 to 2250 / 1970 / 1msec]
1-153-001	LowTemp:StartUp	Temp:Thresh1	ENG	[0 to 30 / 5 / 1deg]
1-153-002	LowTemp:StartUp	Temp:Thresh2	ENG	[0 to 30 / 17 / 1deg]
1-153-003	LowTemp:StartUp	Temp:Target	ENG	[50 to 100 / 100 / 1deg]
1-153-	LowTemp:StartUp	Temp:RotateThresh	ENG	[0 to 50 / 30 / 1deg]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
1-153-006	LowTemp:StartUp	Judging Temp	ENG	[0 to 100 / 60 / 1deg]
1-153-010	LowTemp:StartUp	Time:HeatStorage1	ENG	[0 to 60 / 60 / 1sec]
1-153-011	LowTemp:StartUp	Time:HeatStorage2	ENG	[0 to 60 / 15 / 1sec]
1-153-020	LowTemp:StartUp	ETemp:Thresh1	ENG	[0 to 30 / 5 / 1deg]
1-153-021	LowTemp:StartUp	ETemp:Thresh2	ENG	[0 to 30 / 17 / 1deg]
1-159-001	Fusing Jam	SC Detection	ENG	[0 to 1 / 0 / 1]
1-801-001	MoterSpeedAdjust	FeedMot Plain	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-002	MoterSpeedAdjust	FeedMot Middle 1	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-003	MoterSpeedAdjust	FeedMot Middle 2	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-004	MoterSpeedAdjust	FeedMot Thick	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-005	MoterSpeedAdjust	BkOpcMot Plain	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-006	MoterSpeedAdjust	BkOpcMot Middle	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-007	MoterSpeedAdjust	BkOpcMot Thick	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-008	MoterSpeedAdjust	FcOpcMot Plain	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-009	MoterSpeedAdjust	FcOpcMot Middle	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-010	MoterSpeedAdjust	FcOpcMot Thick	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-011	MoterSpeedAdjust	TransMot Plain	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-	MoterSpeedAdjust	TransMot Middle	ENG*	[-10 to 10 / 0 / 0.05%]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012				
1-801-013	MoterSpeedAdjust	TransMot Thick	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-014	MoterSpeedAdjust	FusingMot Plain	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-015	MoterSpeedAdjust	FusingMot Middle1	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-016	MoterSpeedAdjust	FusingMot Middle2	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-017	MoterSpeedAdjust	FusingMot Thick	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-018	MoterSpeedAdjust	BankMot Plain	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-019	MoterSpeedAdjust	BankMot Middle	ENG*	[-10 to 10 / 0 / 0.05%]
1-801-020	MoterSpeedAdjust	BankMot Thick	ENG*	[-10 to 10 / 0 / 0.05%]
1-952-001	PowerON LowPower	Non-use Time	ENG	[1 to 60 / 12 / 1minute]

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SP2-XXX (Drum)

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SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-101-001	System Setting	SSCG On/Off	ENG	[0 to 1 / 1 / 1]
2-101-002	System Setting	SSCG Down/Center	ENG	[0 to 1 / 1 / 1]
2-101-003	System Setting	SSCG Rate	ENG	[0 to 1023 / 246 / 1]
2-101-004	System Setting	SSCG Freq	ENG	[0 to 3 / 0 / 1]
2-102-008	Line speed	Normal	ENG	[0 to 16383 / 3531 / 1clk_w]
2-102-	Line speed	Half	ENG	[0 to 16383 / 6850 / 1clk_w]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
009				
2-102-010	Line speed	Low	ENG	[0 to 16383 / 10258 / 1clk_w]
2-103-011	ColorRegistration	Sub Line: Bk	ENG	[-472 to 472 / 0 / 1line]
2-103-012	ColorRegistration	Sub Line: C	ENG	[-472 to 472 / 0 / 1line]
2-103-013	ColorRegistration	Sub Line: M	ENG	[-472 to 472 / 0 / 1line]
2-103-014	ColorRegistration	Sub Line: Y	ENG	[-472 to 472 / 0 / 1line]
2-103-015	ColorRegistration	Main Dot: Bk	ENG	[-188 to 188 / 0 / 1dot]
2-103-016	ColorRegistration	Main Dot: C	ENG	[-188 to 188 / 0 / 1dot]
2-103-017	ColorRegistration	Main Dot: M	ENG	[-188 to 188 / 0 / 1dot]
2-103-018	ColorRegistration	Main Dot: Y	ENG	[-188 to 188 / 0 / 1dot]
2-104-019	Low power mode	Shift judgment	ENG	[0 to 1 / 1 / 1]
2-105-020	LEDA	CommClockDivRatio	ENG	[0 to 1023 / 64 / 1]
2-106-021	LEDA Setting	Stbwd normal Bk	ENG*	[0 to 65535 / 0 / 1ns]
2-106-022	LEDA Setting	Stbwd normal C	ENG*	[0 to 65535 / 0 / 1ns]
2-106-023	LEDA Setting	Stbwd normal M	ENG*	[0 to 65535 / 0 / 1ns]
2-106-024	LEDA Setting	Stbwd normal Y	ENG*	[0 to 65535 / 0 / 1ns]
2-106-025	LEDA Setting	Stbwd half/low Bk	ENG*	[0 to 65535 / 0 / 1ns]
2-106-026	LEDA Setting	Stbwd half/low C	ENG*	[0 to 65535 / 0 / 1ns]
2-106-027	LEDA Setting	Stbwd half/low M	ENG*	[0 to 65535 / 0 / 1ns]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-106-028	LEDA Setting	Stbwd half/low Y	ENG*	[0 to 65535 / 0 / 1ns]
2-106-029	LEDA Setting	Stbwd Elmt normal	ENG*	[0 to 65535 / 0 / 1ns]
2-106-030	LEDA Setting	Stbwd Elmt half	ENG*	[0 to 65535 / 0 / 1ns]
2-106-031	LEDA Setting	Stbwd Elmt low	ENG*	[0 to 65535 / 0 / 1ns]
2-106-036	LEDA Setting	Stbitv normal	ENG	[0 to 4095 / 439 / 1clk_w]
2-106-037	LEDA Setting	Stbitv half	ENG	[0 to 4095 / 854 / 1clk_w]
2-106-038	LEDA Setting	Stbitv low	ENG	[0 to 4095 / 1280 / 1clk_w]
2-107-039	Check sum err cnt	Bk	ENG	[0 to 65535 / 0 / 1]
2-107-040	Check sum err cnt	C	ENG	[0 to 65535 / 0 / 1]
2-107-041	Check sum err cnt	M	ENG	[0 to 65535 / 0 / 1]
2-107-042	Check sum err cnt	Y	ENG	[0 to 65535 / 0 / 1]
2-108-043	ColorShiftCorrect	Main C	ENG	[-188 to 188 / 0 / 1dot]
2-108-044	ColorShiftCorrect	Main M	ENG	[-188 to 188 / 0 / 1dot]
2-108-045	ColorShiftCorrect	Main Y	ENG	[-188 to 188 / 0 / 1dot]
2-108-046	ColorShiftCorrect	Sub Bk	ENG	[-472 to 472 / 0 / 1line]
2-108-047	ColorShiftCorrect	Sub C	ENG	[-472 to 472 / 0 / 1line]
2-108-048	ColorShiftCorrect	Sub M	ENG	[-472 to 472 / 0 / 1line]
2-108-049	ColorShiftCorrect	Sub Y	ENG	[-472 to 472 / 0 / 1line]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-108-050	ColorShiftCorrect	F-Phase normal Bk	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-051	ColorShiftCorrect	F-Phase normal C	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-052	ColorShiftCorrect	F-Phase normal M	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-053	ColorShiftCorrect	F-Phase normal Y	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-054	ColorShiftCorrect	F-Phase half Bk	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-055	ColorShiftCorrect	F-Phase half C	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-056	ColorShiftCorrect	F-Phase half M	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-057	ColorShiftCorrect	F-Phase half Y	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-058	ColorShiftCorrect	F-Phase low Bk	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-059	ColorShiftCorrect	F-Phase low C	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-060	ColorShiftCorrect	F-Phase low M	ENG	[0 to 16383 / 1 / 1clk_w]
2-108-061	ColorShiftCorrect	F-Phase low Y	ENG	[0 to 16383 / 1 / 1clk_w]
2-109-062	MUSIC Detect	Edge Thresh	ENG	[0 to 65535 / 27235 / 1]
2-110-003	Test Pattern	Pattern Selection	ENG*	[0 to 14 / 0 / 1] 0:None 1:V 1line 2:H 1line 3:V 2line 4:H 2line 5:V Grid 6:H Grid 7:20mm Grid 8:SGrid

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				9:20mm SGrid 10:1by1 11:2by2 12:4by4 13:Full Dot 14:Belt
2-111-001	Line Position Adj	Normal Mode	ENG*	[0 to 1 / 0 / 0]
2-111-002	Line Position Adj	Factory Mode	ENG*	[0 to 1 / 0 / 0]
2-111-003	Line Position Adj	Black Mode	ENG*	[0 to 1 / 0 / 0]
2-116-001	MUSIC Mode	Skew	ENG	[0 to 2 / 2 / 1] 0:Curve Off 1:All Off 2:Curve On
2-116-002	MUSIC Mode	Bow	ENG	[0 to 1 / 0 / 1] 0:On 1:Off
2-181-003	Skew Correction	C	ENG	[-64 to 63 / 0 / 1line]
2-181-021	Skew Correction	M	ENG	[-64 to 63 / 0 / 1line]
2-181-039	Skew Correction	Y	ENG	[-64 to 63 / 0 / 1line]
2-181-061	Skew Correction	Bk	ENG	[-64 to 63 / 0 / 1line]
2-181-100	Skew Correction	Curve Table	ENG	[0 to 9 / 4 / 1]
2-182-040	MUSIC Pattern	Pattern Offset	ENG	[-236 to 236 / 0 / 1dot]
2-182-041	MUSIC Pattern	Width	ENG	[0 to 236 / 118 / 2dot]
2-182-042	MUSIC Pattern	Cycle	ENG	[-236 to 236 / 0 / 1dot]
2-183-001	MUSIC Condition	Posipattern FC R	ENG	[0 to 65535 / 0 / 1]
2-183-002	MUSIC Condition	Posipattern FC L	ENG	[0 to 65535 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-183-003	MUSIC Condition	Posipattern Bk R	ENG	[0 to 65535 / 0 / 1]
2-183-004	MUSIC Condition	Posipattern Bk L	ENG	[0 to 65535 / 0 / 1]
2-185-001	Margin Position	Mode	ENG	[0 to 1 / 0 / 1] 0:On 1:Off
2-185-002	Margin Position	Base Cal Flag	ENG	[0 to 1 / 0 / 1] 0:None 1:Need
2-185-011	Margin Position	Position FC Base	ENG	[0 to 65535 / 0 / 1]
2-185-012	Margin Position	Position Bk Base	ENG	[0 to 65535 / 0 / 1]
2-185-021	Margin Position	Correct FC	ENG	[-32768 to 32767 / 0 / 1]
2-185-022	Margin Position	Correct Bk	ENG	[-32768 to 32767 / 0 / 1]
2-193-017	MUSIC Condition	Judge Mode	ENG	[0 to 1 / 0 / 1] 0:On 1:Off
2-193-018	MUSIC Condition	Power On Mode	ENG	[0 to 1 / 1 / 1] 0:Run 1:None
2-193-019	MUSIC Condition	Run Per Pages	ENG	[0 to 65535 / 400 / 1page]
2-193-020	MUSIC Condition	Forced Per Pages	ENG	[0 to 65535 / 450 / 1page]
2-193-021	MUSIC Condition	Normal Request	ENG	[0 to 1 / 0 / 1] 0:None 1:Need
2-193-022	MUSIC Condition	Black Request	ENG	[0 to 1 / 0 / 1] 0:None 1:Need
2-193-023	MUSIC Condition	Normal Pagecount	ENG	[0 to 65535 / 0 / 1page]
2-193-	MUSIC Condition	Black Pagecount	ENG	[0 to 65535 / 0 / 1page]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
024				
2-193-025	MUSIC Condition	Judge Factor	ENG	[0 to 255 / 0 / 1]
2-193-026	MUSIC Condition	Normal Temp	ENG	[-128 to 127 / 0 / 1deg]
2-193-027	MUSIC Condition	Black Temp	ENG	[-128 to 127 / 0 / 1deg]
2-194-007	MUSIC Result	Run Result	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-194-013	MUSIC Result	Normal Run Num	ENG	[0 to 65535 / 0 / 1time]
2-194-014	MUSIC Result	Normal Fail Num	ENG	[0 to 65535 / 0 / 1time]
2-194-015	MUSIC Result	Factory Run Num	ENG	[0 to 65535 / 0 / 1time]
2-194-016	MUSIC Result	Factory Fail Num	ENG	[0 to 65535 / 0 / 1time]
2-194-017	MUSIC Result	Margin Run Num	ENG	[0 to 65535 / 0 / 1time]
2-194-018	MUSIC Result	Margin Fail Num	ENG	[0 to 65535 / 0 / 1time]
2-196-001	MUSIC Pattern	Pattern Num	ENG	[1 to 16 / 8 / 1set]
2-221-001	LEDA Disp	Average volume Bk	ENG*	[0 to 65535 / 0 / 1]
2-221-002	LEDA Disp	Averagevolume C	ENG*	[0 to 65535 / 0 / 1]
2-221-003	LEDA Disp	Averagevolume M	ENG*	[0 to 65535 / 0 / 1]
2-221-004	LEDA Disp	Averagevolume Y	ENG*	[0 to 65535 / 0 / 1]
2-221-005	LEDA Disp	Serial num Bk	ENG*	[0 to 255 / 0 / 1]
2-221-006	LEDA Disp	Serial num C	ENG*	[0 to 255 / 0 / 1]
2-221-	LEDA Disp	Serial num M	ENG*	[0 to 255 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
007				
2-221-008	LEDA Disp	Serial num Y	ENG*	[0 to 255 / 0 / 1]
2-221-009	LEDA Disp	LEDA Pow Err Bk	ENG*	[0 to 1 / 0 / 1]
2-221-010	LEDA Disp	LEDA Pow Err C	ENG*	[0 to 1 / 0 / 1]
2-221-011	LEDA Disp	LEDA Pow Err M	ENG*	[0 to 1 / 0 / 1]
2-221-012	LEDA Disp	LEDA Pow Err Y	ENG*	[0 to 1 / 0 / 1]
2-222-001	LEDA Energy	Normal Bk	ENG	[0 to 1605 / 500 / 1nJ/cm2]
2-222-002	LEDA Energy	Normal C	ENG	[0 to 1605 / 707 / 1nJ/cm2]
2-222-003	LEDA Energy	Normal M	ENG	[0 to 1605 / 707 / 1nJ/cm2]
2-222-004	LEDA Energy	Normal Y	ENG	[0 to 1605 / 707 / 1nJ/cm2]
2-222-005	LEDA Energy	half/low Bk	ENG	[0 to 1605 / 500 / 1nJ/cm2]
2-222-006	LEDA Energy	half/low C	ENG	[0 to 1605 / 707 / 1nJ/cm2]
2-222-007	LEDA Energy	half/low M	ENG	[0 to 1605 / 707 / 1nJ/cm2]
2-222-008	LEDA Energy	half/low Y	ENG	[0 to 1605 / 707 / 1nJ/cm2]
2-302-001	Env Correct	Crrnt Env Display	ENG*	[0 to 7 / 0 / 1]
2-302-002	Env Correct	Temp Thresh	ENG	[-5 to 50 / 5 / 1deg]
2-302-003	Env Correct	Abs Hum:thresh 1	ENG	[0 to 100 / 4 / 0.01g/m3]
2-302-004	Env Correct	Abs Hum:thresh 2	ENG	[0 to 100 / 8 / 0.01g/m3]
2-302-005	Env Correct	Abs Hum:thresh 3	ENG	[0 to 100 / 13.5 / 0.01g/m3]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-302-006	Env Correct	Abs Hum:thresh 4	ENG	[0 to 100 / 17.5 / 0.01g/m3]
2-302-007	Env Correct	Abs Hum:thresh 5	ENG	[0 to 100 / 24 / 0.01g/m3]
2-302-008	Env Correct	Abs Hum:thresh 6	ENG	[0 to 100 / 30 / 0.01g/m3]
2-311-001	Paper Intvl Cur	Trans2 Current	ENG	[0 to 255 / 0 / 1uA]
2-326-001	Trans2 CL Bias	PLUS:Spd 1:MM	ENG	[0 to 255 / 0 / 1uA]
2-326-002	Trans2 CL Bias	PLUS:Spd 2:MM	ENG	[0 to 255 / 0 / 1uA]
2-326-003	Trans2 CL Bias	PLUS:Spd 3:MM	ENG	[0 to 255 / 0 / 1uA]
2-326-004	Trans2 CL Bias	PLUS:Spd 1:HH	ENG	[0 to 255 / 0 / 1uA]
2-326-005	Trans2 CL Bias	PLUS:Spd 2:HH	ENG	[0 to 255 / 0 / 1uA]
2-326-006	Trans2 CL Bias	PLUS:Spd 3:HH	ENG	[0 to 255 / 0 / 1uA]
2-326-007	Trans2 CL Bias	PLUS:Spd 1:LL	ENG	[0 to 255 / 0 / 1uA]
2-326-008	Trans2 CL Bias	PLUS:Spd 2:LL	ENG	[0 to 255 / 0 / 1uA]
2-326-009	Trans2 CL Bias	PLUS:Spd 3:LL	ENG	[0 to 255 / 0 / 1uA]
2-326-010	Trans2 CL Bias	MINUS:Spd 1:MM	ENG	[0 to 255 / 0 / 1x10V]
2-326-011	Trans2 CL Bias	MINUS:Spd 2:MM	ENG	[0 to 255 / 0 / 1x10V]
2-326-012	Trans2 CL Bias	MINUS:Spd 3:MM	ENG	[0 to 255 / 0 / 1x10V]
2-326-013	Trans2 CL Bias	MINUS:Spd 1:HH	ENG	[0 to 255 / 0 / 1x10V]
2-326-014	Trans2 CL Bias	MINUS:Spd 2:HH	ENG	[0 to 255 / 0 / 1x10V]
2-326-015	Trans2 CL Bias	MINUS:Spd 3:HH	ENG	[0 to 255 / 0 / 1x10V]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-326-016	Trans2 CL Bias	MINUS:Spd 1:LL	ENG	[0 to 255 / 0 / 1x10V]
2-326-017	Trans2 CL Bias	MINUS:Spd 2:LL	ENG	[0 to 255 / 0 / 1x10V]
2-326-018	Trans2 CL Bias	MINUS:Spd 3:LL	ENG	[0 to 255 / 0 / 1x10V]
2-326-019	Trans2 CL Bias	MODE4:Spd 1:MM	ENG	[0 to 255 / 0 / 1uA]
2-326-020	Trans2 CL Bias	MODE4:Spd 2:MM	ENG	[0 to 255 / 0 / 1uA]
2-326-021	Trans2 CL Bias	MODE4:Spd 3:MM	ENG	[0 to 255 / 0 / 1uA]
2-326-022	Trans2 CL Bias	MODE4:Spd 1:HH	ENG	[0 to 255 / 0 / 1uA]
2-326-023	Trans2 CL Bias	MODE4:Spd 2:HH	ENG	[0 to 255 / 0 / 1uA]
2-326-024	Trans2 CL Bias	MODE4:Spd 3:HH	ENG	[0 to 255 / 0 / 1uA]
2-326-025	Trans2 CL Bias	MODE4:Spd 1:LL	ENG	[0 to 255 / 0 / 1uA]
2-326-026	Trans2 CL Bias	MODE4:Spd 2:LL	ENG	[0 to 255 / 0 / 1uA]
2-326-027	Trans2 CL Bias	MODE4:Spd 3:LL	ENG	[0 to 255 / 0 / 1uA]
2-351-003	Trans1 Bias	OPC low Bias	ENG	[20 to 200 / 20 / 1x10V]
2-351-008	Trans1 Bias	Bk Fixed	ENG*	[0 to 255 / 0 / 1x10V]
2-351-009	Trans1 Bias	Y Fixed	ENG*	[0 to 255 / 0 / 1x10V]
2-351-010	Trans1 Bias	M Fixed	ENG*	[0 to 255 / 0 / 1x10V]
2-351-011	Trans1 Bias	C Fixed	ENG*	[0 to 255 / 0 / 1x10V]
2-351-012	Trans1 Bias	adj:Spd1:MM:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-	Trans1 Bias	adj:Spd1:HH1:FC	ENG	[-127 to 127 / 0 / 1x10V]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
2-351-014	Trans1 Bias	adj:Spd1:LL:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-015	Trans1 Bias	adj:Spd2:MM:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-016	Trans1 Bias	adj:Spd3:MM:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-017	Trans1 Bias	adj:Spd2:HH1:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-018	Trans1 Bias	adj:Spd3:HH1:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-019	Trans1 Bias	adj:Spd2:LL:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-020	Trans1 Bias	adj:Spd3:LL:FC	ENG	[-127 to 127 / 0 / 1x10V]
2-351-021	Trans1 Bias	adj:Spd1:MM:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-022	Trans1 Bias	adj:Spd1:HH1:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-023	Trans1 Bias	adj:Spd1:LL:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-024	Trans1 Bias	adj:Spd2:MM:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-025	Trans1 Bias	adj:Spd3:MM:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-026	Trans1 Bias	adj:Spd2:HH1:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-027	Trans1 Bias	adj:Spd3:HH1:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-028	Trans1 Bias	adj:Spd2:LL:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-351-029	Trans1 Bias	adj:Spd3:LL:Bk	ENG	[-127 to 127 / 0 / 1x10V]
2-401-001	Separate Bias	Spd1:1st:THIN	ENG	[0 to 255 / 0 / 1x100V]
2-401-	Separate Bias	Spd1:2nd:THIN	ENG	[0 to 255 / 0 / 1x100V]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
2-401-003	Separate Bias	Spd1:1st:NORMAL1	ENG	[0 to 255 / 0 / 1x100V]
2-401-004	Separate Bias	Spd1:2nd:NORMAL1	ENG	[0 to 255 / 0 / 1x100V]
2-401-005	Separate Bias	Spd1:1st:NORMAL2	ENG	[0 to 255 / 0 / 1x100V]
2-401-006	Separate Bias	Spd1:2nd:NORMAL2	ENG	[0 to 255 / 0 / 1x100V]
2-401-007	Separate Bias	Spd2:1st:THICK2	ENG	[0 to 255 / 0 / 1x100V]
2-401-008	Separate Bias	Spd2:2nd:THICK2	ENG	[0 to 255 / 0 / 1x100V]
2-401-009	Separate Bias	Spd3:1st:THICK3	ENG	[0 to 255 / 0 / 1x100V]
2-401-010	Separate Bias	Spd3:2nd:THICK3	ENG	[0 to 255 / 0 / 1x100V]
2-402-001	Separate Env Adj	LL	ENG	[0 to 255 / 0 / 1%]
2-402-002	Separate Env Adj	MM	ENG	[0 to 255 / 0 / 1%]
2-402-003	Separate Env Adj	HH1	ENG	[0 to 255 / 0 / 1%]
2-403-001	Separate Sub Adj	HEAD_L1	ENG	[0 to 255 / 0 / 1%]
2-403-002	Separate Sub Adj	L1_TAIL	ENG	[0 to 255 / 0 / 1%]
2-403-003	Separate Sub Adj	L1	ENG	[-40 to 471 / 0 / 0.1mm]
2-404-001	Separate Timing	Start Adj	ENG	[-127 to 127 / 0 / 1mm]
2-404-002	Separate Timing	Stop Adj	ENG	[-127 to 127 / 0 / 1mm]
2-405-001	Separate:Head Adj	Spd1:1st:THIN	ENG	[-127 to 127 / 0 / 1mm]
2-405-	Separate:Head Adj	Spd1:2nd:THIN	ENG	[-127 to 127 / 0 / 1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
2-405-003	Separate:Head Adj	Spd1:1st:NORMAL1	ENG	[-127 to 127 / 0 / 1mm]
2-405-004	Separate:Head Adj	Spd1:2nd:NORMAL1	ENG	[-127 to 127 / 0 / 1mm]
2-405-005	Separate:Head Adj	Spd1:1st:NORMAL2	ENG	[-127 to 127 / 0 / 1mm]
2-405-006	Separate:Head Adj	Spd1:2nd:NORMAL2	ENG	[-127 to 127 / 0 / 1mm]
2-405-007	Separate:Head Adj	Spd2:1st:THICK1	ENG	[-127 to 127 / 0 / 1mm]
2-405-008	Separate:Head Adj	Spd2:2nd:THICK1	ENG	[-127 to 127 / 0 / 1mm]
2-405-009	Separate:Head Adj	Spd3:1st:THICK3	ENG	[-127 to 127 / 0 / 1mm]
2-405-010	Separate:Head Adj	Spd3:2nd:THICK3	ENG	[-127 to 127 / 0 / 1mm]
2-406-001	Separate:Tail Adj	Spd1:1st:THIN	ENG	[-127 to 127 / 0 / 1mm]
2-406-002	Separate:Tail Adj	Spd1:2nd:THIN	ENG	[-127 to 127 / 0 / 1mm]
2-406-003	Separate:Tail Adj	Spd1:1st:NORMAL1	ENG	[-127 to 127 / 0 / 1mm]
2-406-004	Separate:Tail Adj	Spd1:2nd:NORMAL1	ENG	[-127 to 127 / 0 / 1mm]
2-406-005	Separate:Tail Adj	Spd1:1st:NORMAL2	ENG	[-127 to 127 / 0 / 1mm]
2-406-006	Separate:Tail Adj	Spd1:2nd:NORMAL2	ENG	[-127 to 127 / 0 / 1mm]
2-406-007	Separate:Tail Adj	Spd2:1st:THICK1	ENG	[-127 to 127 / 0 / 1mm]
2-406-008	Separate:Tail Adj	Spd2:2nd:THICK1	ENG	[-127 to 127 / 0 / 1mm]
2-406-009	Separate:Tail Adj	Spd3:1st:THICK3	ENG	[-127 to 127 / 0 / 1mm]
2-406-	Separate:Tail Adj	Spd3:2nd:THICK3	ENG	[-127 to 127 / 0 / 1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
010				
2-408-001	Trans2:MM	Spd1:1st:S1:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-002	Trans2:MM	Spd1:2nd:S1:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-003	Trans2:MM	Spd1:1st:S1:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-004	Trans2:MM	Spd1:2nd:S1:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-005	Trans2:MM	Spd1:1st:S2:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-006	Trans2:MM	Spd1:2nd:S2:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-007	Trans2:MM	Spd1:1st:S2:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-008	Trans2:MM	Spd1:2nd:S2:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-009	Trans2:MM	Spd1:1st:S3:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-010	Trans2:MM	Spd1:2nd:S3:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-011	Trans2:MM	Spd1:1st:S3:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-012	Trans2:MM	Spd1:2nd:S3:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-013	Trans2:MM	Spd1:1st:S4:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-014	Trans2:MM	Spd1:2nd:S4:K:N	ENG	[0 to 200 / 0 / 1uA]
2-408-015	Trans2:MM	Spd1:1st:S4:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-016	Trans2:MM	Spd1:2nd:S4:C:N	ENG	[0 to 200 / 0 / 1uA]
2-408-017	Trans2:MM	Spd1:1st:S1:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-018	Trans2:MM	Spd1:2nd:S1:K:PC	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-408-019	Trans2:MM	Spd1:1st:S1:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-020	Trans2:MM	Spd1:2nd:S1:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-021	Trans2:MM	Spd1:1st:S2:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-022	Trans2:MM	Spd1:2nd:S2:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-023	Trans2:MM	Spd1:1st:S2:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-024	Trans2:MM	Spd1:2nd:S2:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-025	Trans2:MM	Spd1:1st:S3:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-026	Trans2:MM	Spd1:2nd:S3:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-027	Trans2:MM	Spd1:1st:S3:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-028	Trans2:MM	Spd1:2nd:S3:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-029	Trans2:MM	Spd1:1st:S4:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-030	Trans2:MM	Spd1:2nd:S4:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-031	Trans2:MM	Spd1:1st:S4:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-032	Trans2:MM	Spd1:2nd:S4:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-408-033	Trans2:MM	Spd2:1st:S1:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-034	Trans2:MM	Spd2:2nd:S1:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-035	Trans2:MM	Spd2:1st:S1:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-036	Trans2:MM	Spd2:2nd:S1:C:T1	ENG	[0 to 200 / 0 / 1uA]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-408-037	Trans2:MM	Spd2:1st:S2:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-038	Trans2:MM	Spd2:2nd:S2:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-039	Trans2:MM	Spd2:1st:S2:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-040	Trans2:MM	Spd2:2nd:S2:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-041	Trans2:MM	Spd2:1st:S3:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-042	Trans2:MM	Spd2:2nd:S3:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-043	Trans2:MM	Spd2:1st:S3:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-044	Trans2:MM	Spd2:2nd:S3:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-045	Trans2:MM	Spd2:1st:S4:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-046	Trans2:MM	Spd2:2nd:S4:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-047	Trans2:MM	Spd2:1st:S4:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-048	Trans2:MM	Spd2:2nd:S4:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-408-049	Trans2:MM	Spd3:1st:S1:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-050	Trans2:MM	Spd3:2nd:S1:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-051	Trans2:MM	Spd3:1st:S1:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-052	Trans2:MM	Spd3:2nd:S1:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-053	Trans2:MM	Spd3:1st:S2:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-054	Trans2:MM	Spd3:2nd:S2:K:T3	ENG	[0 to 200 / 0 / 1uA]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-408-055	Trans2:MM	Spd3:1st:S2:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-056	Trans2:MM	Spd3:2nd:S2:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-057	Trans2:MM	Spd3:1st:S3:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-058	Trans2:MM	Spd3:2nd:S3:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-059	Trans2:MM	Spd3:1st:S3:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-060	Trans2:MM	Spd3:2nd:S3:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-061	Trans2:MM	Spd3:1st:S4:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-062	Trans2:MM	Spd3:2nd:S4:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-063	Trans2:MM	Spd3:1st:S4:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-408-064	Trans2:MM	Spd3:2nd:S4:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-001	Trans2:HH	Spd1:1st:S1:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-002	Trans2:HH	Spd1:2nd:S1:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-003	Trans2:HH	Spd1:1st:S1:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-004	Trans2:HH	Spd1:2nd:S1:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-005	Trans2:HH	Spd1:1st:S2:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-006	Trans2:HH	Spd1:2nd:S2:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-007	Trans2:HH	Spd1:1st:S2:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-008	Trans2:HH	Spd1:2nd:S2:C:N	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-409-009	Trans2:HH	Spd1:1st:S3:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-010	Trans2:HH	Spd1:2nd:S3:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-011	Trans2:HH	Spd1:1st:S3:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-012	Trans2:HH	Spd1:2nd:S3:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-013	Trans2:HH	Spd1:1st:S4:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-014	Trans2:HH	Spd1:2nd:S4:K:N	ENG	[0 to 200 / 0 / 1uA]
2-409-015	Trans2:HH	Spd1:1st:S4:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-016	Trans2:HH	Spd1:2nd:S4:C:N	ENG	[0 to 200 / 0 / 1uA]
2-409-017	Trans2:HH	Spd1:1st:S1:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-018	Trans2:HH	Spd1:2nd:S1:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-019	Trans2:HH	Spd1:1st:S1:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-020	Trans2:HH	Spd1:2nd:S1:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-021	Trans2:HH	Spd1:1st:S2:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-022	Trans2:HH	Spd1:2nd:S2:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-023	Trans2:HH	Spd1:1st:S2:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-024	Trans2:HH	Spd1:2nd:S2:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-025	Trans2:HH	Spd1:1st:S3:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-026	Trans2:HH	Spd1:2nd:S3:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-	Trans2:HH	Spd1:1st:S3:C:PC	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
027				
2-409-028	Trans2:HH	Spd1:2nd:S3:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-029	Trans2:HH	Spd1:1st:S4:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-030	Trans2:HH	Spd1:2nd:S4:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-031	Trans2:HH	Spd1:1st:S4:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-032	Trans2:HH	Spd1:2nd:S4:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-409-033	Trans2:HH	Spd2:1st:S1:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-034	Trans2:HH	Spd2:2nd:S1:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-035	Trans2:HH	Spd2:1st:S1:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-036	Trans2:HH	Spd2:2nd:S1:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-037	Trans2:HH	Spd2:1st:S2:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-038	Trans2:HH	Spd2:2nd:S2:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-039	Trans2:HH	Spd2:1st:S2:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-040	Trans2:HH	Spd2:2nd:S2:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-041	Trans2:HH	Spd2:1st:S3:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-042	Trans2:HH	Spd2:2nd:S3:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-043	Trans2:HH	Spd2:1st:S3:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-044	Trans2:HH	Spd2:2nd:S3:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-	Trans2:HH	Spd2:1st:S4:K:T1	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
045				
2-409-046	Trans2:HH	Spd2:2nd:S4:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-047	Trans2:HH	Spd2:1st:S4:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-048	Trans2:HH	Spd2:2nd:S4:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-409-049	Trans2:HH	Spd3:1st:S1:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-050	Trans2:HH	Spd3:2nd:S1:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-051	Trans2:HH	Spd3:1st:S1:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-052	Trans2:HH	Spd3:2nd:S1:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-053	Trans2:HH	Spd3:1st:S2:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-054	Trans2:HH	Spd3:2nd:S2:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-055	Trans2:HH	Spd3:1st:S2:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-056	Trans2:HH	Spd3:2nd:S2:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-057	Trans2:HH	Spd3:1st:S3:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-058	Trans2:HH	Spd3:2nd:S3:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-059	Trans2:HH	Spd3:1st:S3:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-060	Trans2:HH	Spd3:2nd:S3:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-061	Trans2:HH	Spd3:1st:S4:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-062	Trans2:HH	Spd3:2nd:S4:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-409-	Trans2:HH	Spd3:1st:S4:C:T3	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
063				
2-409-064	Trans2:HH	Spd3:2nd:S4:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-001	Trans2:LL	Spd1:1st:S1:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-002	Trans2:LL	Spd1:2nd:S1:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-003	Trans2:LL	Spd1:1st:S1:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-004	Trans2:LL	Spd1:2nd:S1:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-005	Trans2:LL	Spd1:1st:S2:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-006	Trans2:LL	Spd1:2nd:S2:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-007	Trans2:LL	Spd1:1st:S2:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-008	Trans2:LL	Spd1:2nd:S2:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-009	Trans2:LL	Spd1:1st:S3:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-010	Trans2:LL	Spd1:2nd:S3:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-011	Trans2:LL	Spd1:1st:S3:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-012	Trans2:LL	Spd1:2nd:S3:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-013	Trans2:LL	Spd1:1st:S4:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-014	Trans2:LL	Spd1:2nd:S4:K:N	ENG	[0 to 200 / 0 / 1uA]
2-410-015	Trans2:LL	Spd1:1st:S4:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-016	Trans2:LL	Spd1:2nd:S4:C:N	ENG	[0 to 200 / 0 / 1uA]
2-410-017	Trans2:LL	Spd1:1st:S1:K:PC	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-410-018	Trans2:LL	Spd1:2nd:S1:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-019	Trans2:LL	Spd1:1st:S1:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-020	Trans2:LL	Spd1:2nd:S1:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-021	Trans2:LL	Spd1:1st:S2:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-022	Trans2:LL	Spd1:2nd:S2:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-023	Trans2:LL	Spd1:1st:S2:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-024	Trans2:LL	Spd1:2nd:S2:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-025	Trans2:LL	Spd1:1st:S3:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-026	Trans2:LL	Spd1:2nd:S3:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-027	Trans2:LL	Spd1:1st:S3:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-028	Trans2:LL	Spd1:2nd:S3:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-029	Trans2:LL	Spd1:1st:S4:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-030	Trans2:LL	Spd1:2nd:S4:K:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-031	Trans2:LL	Spd1:1st:S4:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-032	Trans2:LL	Spd1:2nd:S4:C:PC	ENG	[0 to 200 / 0 / 1uA]
2-410-033	Trans2:LL	Spd2:1st:S1:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-034	Trans2:LL	Spd2:2nd:S1:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-035	Trans2:LL	Spd2:1st:S1:C:T1	ENG	[0 to 200 / 0 / 1uA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-410-036	Trans2:LL	Spd2:2nd:S1:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-037	Trans2:LL	Spd2:1st:S2:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-038	Trans2:LL	Spd2:2nd:S2:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-039	Trans2:LL	Spd2:1st:S2:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-040	Trans2:LL	Spd2:2nd:S2:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-041	Trans2:LL	Spd2:1st:S3:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-042	Trans2:LL	Spd2:2nd:S3:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-043	Trans2:LL	Spd2:1st:S3:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-044	Trans2:LL	Spd2:2nd:S3:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-045	Trans2:LL	Spd2:1st:S4:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-046	Trans2:LL	Spd2:2nd:S4:K:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-047	Trans2:LL	Spd2:1st:S4:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-048	Trans2:LL	Spd2:2nd:S4:C:T1	ENG	[0 to 200 / 0 / 1uA]
2-410-049	Trans2:LL	Spd3:1st:S1:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-050	Trans2:LL	Spd3:2nd:S1:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-051	Trans2:LL	Spd3:1st:S1:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-052	Trans2:LL	Spd3:2nd:S1:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-053	Trans2:LL	Spd3:1st:S2:K:T3	ENG	[0 to 200 / 0 / 1uA]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-410-054	Trans2:LL	Spd3:2nd:S2:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-055	Trans2:LL	Spd3:1st:S2:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-056	Trans2:LL	Spd3:2nd:S2:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-057	Trans2:LL	Spd3:1st:S3:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-058	Trans2:LL	Spd3:2nd:S3:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-059	Trans2:LL	Spd3:1st:S3:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-060	Trans2:LL	Spd3:2nd:S3:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-061	Trans2:LL	Spd3:1st:S4:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-062	Trans2:LL	Spd3:2nd:S4:K:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-063	Trans2:LL	Spd3:1st:S4:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-410-064	Trans2:LL	Spd3:2nd:S4:C:T3	ENG	[0 to 200 / 0 / 1uA]
2-412-001	Trans2 Correct	PrintRatio:Txt:C1	ENG	[0 to 100 / 80 / 1%]
2-412-002	Trans2 Correct	Time Adj:T1	ENG	[0 to 100 / 100 / 1%]
2-412-003	Trans2 Correct	Time Adj:T2	ENG	[0 to 100 / 90 / 1%]
2-412-004	Trans2 Correct	Time Adj:T3	ENG	[0 to 100 / 90 / 1%]
2-412-005	Trans2 Correct	Time Adj:T4	ENG	[0 to 100 / 85 / 1%]
2-412-006	Trans2 Correct	Time Adj:T5	ENG	[0 to 100 / 85 / 1%]
2-412-007	Trans2 Correct	Timing:1st	ENG	[-127 to 127 / 0 / 1mm]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-412-008	Trans2 Correct	Timing:Other	ENG	[-127 to 127 / 0 / 1mm]
2-412-009	Trans2 Correct	Head	ENG	[-127 to 127 / 0 / 1mm]
2-412-010	Trans2 Correct	Tail	ENG	[-127 to 127 / 0 / 1mm]
2-412-011	Trans2 Correct	High Humid paper	ENG	[0 to 1 / 0 / 1] 0:Normal 1:High Humid
2-412-021	Trans2 Correct	Special1:FC:1st	ENG	[-127 to 127 / 0 / 1uA]
2-412-022	Trans2 Correct	Special1:FC:2nd	ENG	[-127 to 127 / 0 / 1uA]
2-412-023	Trans2 Correct	Special1:Bk:1st	ENG	[-127 to 127 / 0 / 1uA]
2-412-024	Trans2 Correct	Special1:Bk:2nd	ENG	[-127 to 127 / 0 / 1uA]
2-412-025	Trans2 Correct	Special2:FC:1st	ENG	[-127 to 127 / 0 / 1uA]
2-412-026	Trans2 Correct	Special2:FC:2nd	ENG	[-127 to 127 / 0 / 1uA]
2-412-027	Trans2 Correct	Special2:Bk:1st	ENG	[-127 to 127 / 0 / 1uA]
2-412-028	Trans2 Correct	Special2:Bk:2nd	ENG	[-127 to 127 / 0 / 1uA]
2-412-029	Trans2 Correct	Special3:FC:1st	ENG	[-127 to 127 / 0 / 1uA]
2-412-030	Trans2 Correct	Special3:Bk:1st	ENG	[-127 to 127 / 0 / 1uA]
2-500-001	Engine Setting	Mode1	ENG*	[0 to 1 / 0 / 1]
2-500-002	Engine Setting	Mode2	ENG*	[0 to 1 / 0 / 1]
2-500-003	Engine Setting	Mode3	ENG*	[0 to 1 / 0 / 1]
2-500-	Engine Setting	Mode4	ENG*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004				
2-500-005	Engine Setting	Mode5	ENG*	[0 to 1 / 0 / 1]
2-500-006	Engine Setting	Mode6	ENG*	[0 to 1 / 0 / 1]
2-500-007	Engine Setting	Mode7	ENG*	[0 to 1 / 0 / 1]
2-500-008	Engine Setting	Mode8	ENG*	[0 to 1 / 0 / 1]
2-500-009	Engine Setting	Mode9	ENG*	[0 to 1 / 0 / 1]
2-500-010	Engine Setting	Mode10	ENG*	[0 to 1 / 0 / 1]
2-500-011	Engine Setting	Data UC1	ENG	[0 to 255 / 0 / 1]
2-500-012	Engine Setting	Data UC2	ENG	[0 to 255 / 0 / 1]
2-500-013	Engine Setting	Data UC3	ENG	[0 to 255 / 0 / 1]
2-500-014	Engine Setting	Data UC4	ENG	[0 to 255 / 0 / 1]
2-500-015	Engine Setting	Data UC5	ENG	[0 to 255 / 0 / 1]
2-500-016	Engine Setting	Data SC1	ENG	[-128 to 127 / 0 / 1]
2-500-017	Engine Setting	Data SC2	ENG	[-128 to 127 / 0 / 1]
2-500-018	Engine Setting	Data SC3	ENG	[-128 to 127 / 0 / 1]
2-500-019	Engine Setting	Data SC4	ENG	[-128 to 127 / 0 / 1]
2-500-020	Engine Setting	Data SC5	ENG	[-128 to 127 / 0 / 1]
2-500-021	Engine Setting	Data UW1	ENG	[0 to 65535 / 0 / 1]
2-500-022	Engine Setting	Data UW2	ENG	[0 to 65535 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-500-023	Engine Setting	Data UW3	ENG	[0 to 65535 / 0 / 1]
2-500-024	Engine Setting	Data UW4	ENG	[0 to 65535 / 0 / 1]
2-500-025	Engine Setting	Data UW5	ENG	[0 to 65535 / 0 / 1]
2-500-026	Engine Setting	Data SW1	ENG	[-32768 to 32767 / 0 / 1]
2-500-027	Engine Setting	Data SW2	ENG	[-32768 to 32767 / 0 / 1]
2-500-028	Engine Setting	Data SW3	ENG	[-32768 to 32767 / 0 / 1]
2-500-029	Engine Setting	Data SW4	ENG	[-32768 to 32767 / 0 / 1]
2-500-030	Engine Setting	Data SW5	ENG	[-32768 to 32767 / 0 / 1]
2-500-031	Engine Setting	Data UL1	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-032	Engine Setting	Data UL2	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-033	Engine Setting	Data UL3	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-034	Engine Setting	Data UL4	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-035	Engine Setting	Data UL5	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-036	Engine Setting	Data UL6	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-037	Engine Setting	Data UL7	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-038	Engine Setting	Data UL8	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-039	Engine Setting	Data UL9	ENG	[0 to 0xFFFFFFFF / 0 / 1]
2-500-040	Engine Setting	Data UL10	ENG	[0 to 0xFFFFFFFF / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
2-904-001	Auto revolutions	On	ENG*	[0 to 1 / 0 / 1]
2-907-001	ACS SW: FC Mode	Cont.Mono Sheet	ENG*	[0 to 10 / 0 / 1sheet]
2-997-001	Life Setting	Life Page<Bk>	ENG	[1 to 255 / 15 / 1kpage]
2-997-002	Life Setting	Life Page<C>	ENG	[1 to 255 / 12 / 1kpage]
2-997-003	Life Setting	Life Page<M>	ENG	[1 to 255 / 12 / 1kpage]
2-997-004	Life Setting	Life Page<Y>	ENG	[1 to 255 / 12 / 1kpage]
2-997-005	Life Setting	Stop Page<Bk>	ENG	[1 to 255 / 26 / 1kpage]
2-997-006	Life Setting	Stop Page<C>	ENG	[1 to 255 / 20 / 1kpage]
2-997-007	Life Setting	Stop Page<M>	ENG	[1 to 255 / 20 / 1kpage]
2-997-008	Life Setting	Stop Page<Y>	ENG	[1 to 255 / 20 / 1kpage]

SP3-XXX (Process)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-011-001	AdjustManualExe	Normal ProCon	ENG*	[0 to 1 / 0 / 1]
3-011-004	AdjustManualExe	FullMusic/ProCon	ENG*	[0 to 1 / 0 / 1]
3-011-005	AdjustManualExe	Nor.Music/ProCon	ENG*	[0 to 1 / 0 / 1]
3-012-001	ProCon OK?	History:Last	ENG	[0 to 255 / 0 / 1]
3-015-001	ManualSply:Exe	TnrSplyFc	ENG*	[0 to 1 / 0 / 1]
3-015-003	ManualSply:Exe	TnrSplyK	ENG*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-015-004	ManualSply:Exe	TnrSplyY	ENG*	[0 to 1 / 0 / 1]
3-015-005	ManualSply:Exe	TnrSplyM	ENG*	[0 to 1 / 0 / 1]
3-015-006	ManualSply:Exe	TnrSplyC	ENG*	[0 to 1 / 0 / 1]
3-016-001	ManualSply:Set	SplyTimeK	ENG	[0 to 255 / 30 / 1sec]
3-016-002	ManualSply:Set	SplyTimeY	ENG	[0 to 255 / 30 / 1sec]
3-016-003	ManualSply:Set	SplyTimeM	ENG	[0 to 255 / 30 / 1sec]
3-016-004	ManualSply:Set	SplyTimeC	ENG	[0 to 255 / 30 / 1sec]
3-017-001	ManualRmn:Exe	TnrRmnSnsFc	ENG*	[0 to 1 / 0 / 1]
3-017-002	ManualRmn:Exe	TnrRmnSnsBk	ENG*	[0 to 1 / 0 / 1]
3-018-001	ManualMix:Exe	TnrMixFc	ENG*	[0 to 1 / 0 / 1]
3-018-002	ManualMix:Exe	TnrMixBk	ENG*	[0 to 1 / 0 / 1]
3-019-001	ManualMix:Set	MixTime	ENG	[0 to 255 / 3 / 1x10sec]
3-022-001	TonerFillMode	FillPhaseID:K	ENG	[0 to 3 / 2 / 1] 0:Factory 1:Initial Fill 2:Normal Fill 3:Arrival Fill
3-022-002	TonerFillMode	FillPhaseID:Y	ENG	[0 to 3 / 2 / 1] 0:Factory 1:Init Fill 2:Normal Fill 3:Arrival Fill
3-022-003	TonerFillMode	FillPhaseID:M	ENG	[0 to 3 / 2 / 1] 0:Factory

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				1:Init Fill 2:Normal Fill 3:Arrival Fill
3-022-004	TonerFillMode	FillPhaseID:C	ENG	[0 to 3 / 2 / 1] 0:Factory 1:Init Fill 2:Normal Fill 3:Arrival Fill
3-098-001	TonerNearEnd	DaysBeforeTE	ENG	[0 to 2 / 1 / 1]
3-101-005	TE/NE	Total Usage: Bk	ENG	[0 to 999999999 / 0 / 1ug]
3-101-006	TE/NE	Total Usage: C	ENG	[0 to 999999999 / 0 / 1ug]
3-101-007	TE/NE	Total Usage: M	ENG	[0 to 999999999 / 0 / 1ug]
3-101-008	TE/NE	Total Usage: Y	ENG	[0 to 999999999 / 0 / 1ug]
3-101-009	TE/NE	TonerRemainBk	ENG	[0 to 300 / 300 / 0.1g]
3-101-010	TE/NE	TonerRemainC	ENG	[0 to 300 / 300 / 0.1g]
3-101-011	TE/NE	TonerRemainM	ENG	[0 to 300 / 300 / 0.1g]
3-101-012	TE/NE	TonerRemainY	ENG	[0 to 300 / 300 / 0.1g]
3-101-120	TE/NE	EndDelayUpper	ENG	[0 to 99 / 50 / 1times]
3-102-011	RcvrySply:Set	RcvrySplyK	ENG	[0 to 20 / 7 / 1g]
3-102-012	RcvrySply:Set	RcvrySplyY	ENG	[0 to 20 / 7 / 1g]
3-102-013	RcvrySply:Set	RcvrySplyM	ENG	[0 to 20 / 7 / 1g]
3-102-014	RcvrySply:Set	RcvrySplyC	ENG	[0 to 20 / 7 / 1g]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-102-015	RcvrySply:Set	MixTime:RcvryK	ENG	[0 to 60 / 10 / 1sec]
3-102-016	RcvrySply:Set	MixTime:RcvryY	ENG	[0 to 60 / 10 / 1sec]
3-102-017	RcvrySply:Set	MixTime:RcvryM	ENG	[0 to 60 / 10 / 1sec]
3-102-018	RcvrySply:Set	MixTime:RcvryC	ENG	[0 to 60 / 10 / 1sec]
3-102-021	RcvrySply:Set	RcvrySply:Mid:K	ENG	[0 to 20 / 5 / 1g]
3-102-022	RcvrySply:Set	RcvrySply:Mid:Y	ENG	[0 to 20 / 5 / 1g]
3-102-023	RcvrySply:Set	RcvrySply:Mid:M	ENG	[0 to 20 / 5 / 1g]
3-102-024	RcvrySply:Set	RcvrySply:Mid:C	ENG	[0 to 20 / 5 / 1g]
3-103-001	RcvrySply	RcvrySplyCntK	ENG	[0 to 10000 / 0 / 1times]
3-103-002	RcvrySply	RcvrySplyCntY	ENG	[0 to 10000 / 0 / 1times]
3-103-003	RcvrySply	RcvrySplyCntM	ENG	[0 to 10000 / 0 / 1times]
3-103-004	RcvrySply	RcvrySplyCntC	ENG	[0 to 10000 / 0 / 1times]
3-103-011	RcvrySply	RcvrySplyCntK	ENG	[0 to 10000 / 0 / 1times]
3-103-012	RcvrySply	RcvrySplyCntY	ENG	[0 to 10000 / 0 / 1times]
3-103-013	RcvrySply	RcvrySplyCntM	ENG	[0 to 10000 / 0 / 1times]
3-103-014	RcvrySply	RcvrySplyCntC	ENG	[0 to 10000 / 0 / 1times]
3-103-015	RcvrySply	RcvryFailThresh	ENG	[0 to 3 / 3 / 1times]
3-131-011	TnrSplyErr:Disp	RcvryFailCntK	ENG	[0 to 20 / 0 / 1times]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-131-012	TnrSplyErr:Disp	RcvryFailCntY	ENG	[0 to 20 / 0 / 1times]
3-131-013	TnrSplyErr:Disp	RcvryFailCntM	ENG	[0 to 20 / 0 / 1times]
3-131-014	TnrSplyErr:Disp	RcvryFailCntC	ENG	[0 to 20 / 0 / 1times]
3-131-015	TnrSplyErr:Disp	RcvryFailThresh	ENG	[0 to 20 / 3 / 1times]
3-244-005	TonerRmn	HHThresh:Up:K	ENG	[0 to 400 / 22 / 1times]
3-244-006	TonerRmn	HHThresh:Up:Y	ENG	[0 to 400 / 24 / 1times]
3-244-007	TonerRmn	HHThresh:Up:M	ENG	[0 to 400 / 22 / 1times]
3-244-008	TonerRmn	HHThresh:Up:C	ENG	[0 to 400 / 22 / 1times]
3-244-009	TonerRmn	HHThresh:Low:K	ENG	[0 to 400 / 31 / 1times]
3-244-010	TonerRmn	HHThresh:Low:Y	ENG	[0 to 400 / 30 / 1times]
3-244-011	TonerRmn	HHThresh:Low:M	ENG	[0 to 400 / 31 / 1times]
3-244-012	TonerRmn	HHThresh:Low:C	ENG	[0 to 400 / 30 / 1times]
3-244-013	TonerRmn	NNThresh:Up:K	ENG	[0 to 400 / 12 / 1times]
3-244-014	TonerRmn	NNThresh:Up:Y	ENG	[0 to 400 / 20 / 1times]
3-244-015	TonerRmn	NNThresh:Up:M	ENG	[0 to 400 / 16 / 1times]
3-244-016	TonerRmn	NNThresh:Up:C	ENG	[0 to 400 / 5 / 1times]
3-244-017	TonerRmn	NNThresh:Low:K	ENG	[0 to 400 / 27 / 1times]
3-244-018	TonerRmn	NNThresh:Low:Y	ENG	[0 to 400 / 37 / 1times]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-244-019	TonerRmn	NNThresh:Low:M	ENG	[0 to 400 / 25 / 1times]
3-244-020	TonerRmn	NNThresh:Low:C	ENG	[0 to 400 / 30 / 1times]
3-244-021	TonerRmn	LLThresh:Up:K	ENG	[0 to 400 / 15 / 1times]
3-244-022	TonerRmn	LLThresh:Up:Y	ENG	[0 to 400 / 22 / 1times]
3-244-023	TonerRmn	LLThresh:Up:M	ENG	[0 to 400 / 21 / 1times]
3-244-024	TonerRmn	LLThresh:Up:C	ENG	[0 to 400 / 21 / 1times]
3-244-025	TonerRmn	LLThresh:Low:K	ENG	[0 to 400 / 29 / 1times]
3-244-026	TonerRmn	LLThresh:Low:Y	ENG	[0 to 400 / 30 / 1times]
3-244-027	TonerRmn	LLThresh:Low:M	ENG	[0 to 400 / 29 / 1times]
3-244-028	TonerRmn	LLThresh:Low:C	ENG	[0 to 400 / 28 / 1times]
3-310-001	ID.Sens :Voffset	Voffset reg (R)	ENG	[0 to 5.5 / 0 / 0.01V]
3-310-002	ID.Sens :Voffset	Voffset reg (L)	ENG	[0 to 5.5 / 0 / 0.01V]
3-310-011	ID.Sens :Voffset	Voffset dif (R)	ENG	[0 to 5.5 / 0 / 0.01V]
3-310-012	ID.Sens :Voffset	Voffset dif (L)	ENG	[0 to 5.5 / 0 / 0.01V]
3-311-001	ID.Sens :Vmin	Vmin_K(R)	ENG	[0 to 5 / 0 / 0.001V]
3-311-002	ID.Sens :Vmin	Vmin_K(L)	ENG	[0 to 5 / 0 / 0.001V]
3-312-001	ID.Sens :Vct	Vct_reg(R)	ENG	[0 to 5 / 0 / 0.001V]
3-312-002	ID.Sens :Vct	Vct_reg(L)	ENG	[0 to 5 / 0 / 0.001V]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-312-011	ID.Sens :Vct	Vct_dif(R)	ENG	[0 to 5 / 0 / 0.001V]
3-312-012	ID.Sens :Vct	Vct_dif(L)	ENG	[0 to 5 / 0 / 0.001V]
3-320-001	Vsg Adj: Execute	P Sensor	ENG*	[0 to 1 / 0 / 1]
3-320-031	Vsg Adj: Execute	Vsg Err Count (R)	ENG	[0 to 99 / 0 / 1times]
3-320-032	Vsg Adj: Execute	Vsg Err Count (L)	ENG	[0 to 99 / 0 / 1times]
3-320-033	Vsg Adj: Execute	Vsg Err Stop Th	ENG	[0 to 99 / 4 / 1times]
3-320-034	Vsg Adj: Execute	Vsg Err Alert Th	ENG	[0 to 99 / 3 / 1times]
3-321-001	Adjusted Vsg	Vsg reg (R)	ENG	[0 to 5.5 / 0 / 0.01V]
3-321-002	Adjusted Vsg	Vsg reg (L)	ENG	[0 to 5.5 / 0 / 0.01V]
3-321-011	Adjusted Vsg	Vsg dif (R)	ENG	[0 to 5.5 / 0 / 0.01V]
3-321-012	Adjusted Vsg	Vsg dif (L)	ENG	[0 to 5.5 / 0 / 0.01V]
3-322-001	Adjusted Ifsg	Ifsg (R)	ENG	[0 to 3317 / 544 / 1]
3-322-002	Adjusted Ifsg	Ifsg (L)	ENG	[0 to 3317 / 544 / 1]
3-322-011	Adjusted Ifsg	Ifsg LowThresh(R)	ENG	[0 to 50 / 10 / 0.1mA]
3-322-012	Adjusted Ifsg	Ifsg LowThresh(L)	ENG	[0 to 50 / 10 / 0.1mA]
3-322-013	Vsg Adj: Execute	Ifsg Upper Count (R)	ENG	[0 to 99 / 0 / 1times]
3-322-014	Vsg Adj: Execute	Ifsg Upper Count (L)	ENG	[0 to 99 / 0 / 1times]
3-323-001	Vsg Adj OK?	Latest	ENG	[0 to 99 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-323-002	Vsg Adj OK?	Latest 2	ENG	[0 to 99 / 0 / 1]
3-323-003	Vsg Adj OK?	Latest 3	ENG	[0 to 99 / 0 / 1]
3-323-004	Vsg Adj OK?	Latest 4	ENG	[0 to 99 / 0 / 1]
3-323-005	Vsg Adj OK?	Latest 5	ENG	[0 to 99 / 0 / 1]
3-323-006	Vsg Adj OK?	Latest 6	ENG	[0 to 99 / 0 / 1]
3-323-007	Vsg Adj OK?	Latest 7	ENG	[0 to 99 / 0 / 1]
3-323-008	Vsg Adj OK?	Latest 8	ENG	[0 to 99 / 0 / 1]
3-323-009	Vsg Adj OK?	Latest 9	ENG	[0 to 99 / 0 / 1]
3-323-010	Vsg Adj OK?	Latest 10	ENG	[0 to 99 / 0 / 1]
3-330-001	ID.Sens Coef	K2(Latest) (C)	ENG	[0 to 5 / 0 / 0.0001]
3-330-002	ID.Sens Coef	K2(Latest) (M)	ENG	[0 to 5 / 0 / 0.0001]
3-330-003	ID.Sens Coef	K2(Latest) (Y)	ENG	[0 to 5 / 0 / 0.0001]
3-330-011	ID.Sens Coef	K5(Latest) (C)	ENG	[0 to 5 / 1.2 / 0.0001]
3-330-012	ID.Sens Coef	K5(Latest) (M)	ENG	[0 to 5 / 1.2 / 0.0001]
3-330-013	ID.Sens Coef	K5(Latest) (Y)	ENG	[0 to 5 / 1.2 / 0.0001]
3-333-001	ID.Sens TestVal:F	K2: Check	ENG	[0 to 1 / 0.5 / 0.001]
3-333-002	ID.Sens TestVal:F	Diffuse Corr	ENG	[0.75 to 1.35 / 1 / 0.01]
3-333-003	ID.Sens TestVal:F	Vct_reg Chk:Slope	ENG	[0 to 99 / 0 / 0.1mV/mA]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-333-004	ID.Sens TestVal:F	Vct_reg Chk:Xint	ENG	[0 to 25.5 / 0 / 0.1mA]
3-333-005	ID.Sens TestVal:F	Vct_dif Chk:Slope	ENG	[0 to 99 / 0 / 0.1mV/mA]
3-333-006	ID.Sens TestVal:F	Vct_dif Chk:Xint	ENG	[0 to 25.5 / 0 / 0.1mA]
3-334-001	ID.Sens TestVal:F	K2: Check	ENG	[0 to 1 / 0.5 / 0.001]
3-334-002	ID.Sens TestVal:F	Diffuse Corr	ENG	[0.75 to 1.35 / 1 / 0.01]
3-334-003	ID.Sens TestVal:F	Vct_reg Chk:Slope	ENG	[0 to 99 / 0 / 0.1mV/mA]
3-334-004	ID.Sens TestVal:F	Vct_reg Chk:Xint	ENG	[0 to 25.5 / 0 / 0.1mA]
3-334-005	ID.Sens TestVal:F	Vct_dif Chk:Slope	ENG	[0 to 99 / 0 / 0.1mV/mA]
3-334-006	ID.Sens TestVal:F	Vct_dif Chk:Xint	ENG	[0 to 25.5 / 0 / 0.1mA]
3-345-001	Density Range	Up Param:a:K	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-002	Density Range	Up Param:a:C	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-003	Density Range	Up Param:a:M	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-004	Density Range	Up Param:a:Y	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-005	Density Range	Low Param:a:K	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-006	Density Range	Low Param:a:C	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-007	Density Range	Low Param:a:M	ENG	[0 to 2.55 / 0 / 0.01D]
3-345-008	Density Range	Low Param:a:Y	ENG	[0 to 2.55 / 0 / 0.01D]
3-346-001	Reverse Point	Count	ENG	[0 to 16 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-349-001	IBACC Setting	Exec Mode	ENG*	[0 to 1 / 0 / 1]
3-401-011	TonerFixSply:Set	FixedSplyAmntK	ENG	[0 to 20 / 10 / 1g]
3-401-012	TonerFixSply:Set	FixedSplyAmntY	ENG	[0 to 20 / 10 / 1g]
3-401-013	TonerFixSply:Set	FixedSplyAmntM	ENG	[0 to 20 / 10 / 1g]
3-401-014	TonerFixSply:Set	FixedSplyAmntC	ENG	[0 to 20 / 10 / 1g]
3-401-015	TonerFixSply:Set	MixTime:FixSplyK	ENG	[0 to 60 / 60 / 1sec]
3-401-016	TonerFixSply:Set	MixTime:FixSplyY	ENG	[0 to 60 / 60 / 1sec]
3-401-017	TonerFixSply:Set	MixTime:FixSplyM	ENG	[0 to 60 / 60 / 1sec]
3-401-018	TonerFixSply:Set	MixTime:FixSplyC	ENG	[0 to 60 / 60 / 1sec]
3-411-001	TonerSply:Disp	TonerRmnK	ENG	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-002	TonerSply:Disp	TonerRmnY	ENG	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-003	TonerSply:Disp	TonerRmnM	ENG	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-004	TonerSply:Disp	TonerRmnC	ENG	[0 to 2 / 0 / 1] 0:Upper Lv. 1:Middle Lv. 2:Lower Lv.
3-411-005	TonerSply:Disp	SnsOutCntAvK	ENG	[0 to 255 / 0 / 1times]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-411-006	TonerSply:Disp	SnsOutCntAvY	ENG	[0 to 255 / 0 / 1times]
3-411-007	TonerSply:Disp	SnsOutCntAvM	ENG	[0 to 255 / 0 / 1times]
3-411-008	TonerSply:Disp	SnsOutCntAvC	ENG	[0 to 255 / 0 / 1times]
3-453-011	TonerSply:Set	Thresh:CnsmK	ENG	[0 to 100000 / 600 / 0.1mg]
3-453-012	TonerSply:Set	Thresh:CnsmY	ENG	[0 to 100000 / 600 / 0.1mg]
3-453-013	TonerSply:Set	Thresh:CnsmM	ENG	[0 to 100000 / 600 / 0.1mg]
3-453-014	TonerSply:Set	Thresh:CnsmC	ENG	[0 to 100000 / 600 / 0.1mg]
3-500-001	ImgQtyAdj:ON/OFF	ALL	ENG	[0 to 1 / 1 / 1]
3-500-002	ImgQtyAdj:ON/OFF	ProCon	ENG	[0 to 1 / 1 / 1]
3-510-021	ImgQtyAdj:ExeFlag	Process Control	ENG	[0 to 3 / 0 / 1]
3-510-025	ImgQtyAdj:ExeFlag	Vsg Adj.	ENG	[0 to 1 / 0 / 1]
3-516-001	Toner Refresh	Print Area K	ENG	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-002	Toner Refresh	Print Area C	ENG	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-003	Toner Refresh	Print Area M	ENG	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-004	Toner Refresh	Print Area Y	ENG	[0 to 0xFFFFFFFF / 0 / 1mm <sup>2</sup> ]
3-516-005	Toner Refresh	Run Distance K	ENG	[0 to 999999999 / 0 / 1mm]
3-516-006	Toner Refresh	Run Distance C	ENG	[0 to 999999999 / 0 / 1mm]
3-516-007	Toner Refresh	Paper Dist	ENG	[0 to 999999999 / 0 / 1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-516-008	Toner Refresh	Paper Dist FC	ENG	[0 to 999999999 / 0 / 1mm]
3-516-021	Toner Refresh	Enable Flag BW	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-516-022	Toner Refresh	Enable Flag FC	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-516-024	Toner Refresh	Abs Hum Thresh 1L	ENG	[0 to 99.99 / 0 / 0.01g/m3]
3-516-025	Toner Refresh	Low Limit Dist K	ENG	[0 to 255 / 36 / 1mm]
3-516-026	Toner Refresh	Low Limit Dist C	ENG	[0 to 255 / 36 / 1mm]
3-516-027	Toner Refresh	Low Limit Dist M	ENG	[0 to 255 / 36 / 1mm]
3-516-028	Toner Refresh	Low Limit Dist Y	ENG	[0 to 255 / 36 / 1mm]
3-517-001	Toner Input	Enable Flag K	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-002	Toner Input	Enable Flag C	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-003	Toner Input	Enable Flag M	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-004	Toner Input	Enable Flag Y	ENG	[0 to 1 / 1 / 1] 0:OFF 1:ON
3-517-005	Toner Input	Run Distance Khf	ENG	[0 to 999999999 / 0 / 1mm]
3-517-006	Toner Input	Run Distance Chf	ENG	[0 to 999999999 / 0 / 1mm]
3-517-007	Toner Input	Run Distance M	ENG	[0 to 999999999 / 0 / 1mm]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-517-008	Toner Input	Run Distance Y	ENG	[0 to 999999999 / 0 / 1mm]
3-520-001	ImgQtyAdj:Inlval	During Job	ENG	[0 to 100 / 1 / 1pages]
3-520-002	ImgQtyAdj:Inlval	During Stand-by	ENG	[0 to 100 / 5 / 1min]
3-521-001	Drum Stop Time	Year	ENG	[0 to 99 / 0 / 1year]
3-521-002	Drum Stop Time	Month	ENG	[1 to 12 / 1 / 1month]
3-521-003	Drum Stop Time	Day	ENG	[1 to 31 / 1 / 1day]
3-521-004	Drum Stop Time	Hour	ENG	[0 to 23 / 0 / 1hour]
3-521-005	Drum Stop Time	Minute	ENG	[0 to 59 / 0 / 1minute]
3-522-001	ProCon Environ	Temperature	ENG	[-1280 to 1270 / 0 / 0.1deg]
3-522-002	ProCon Environ	Rel Humidity	ENG	[0 to 1000 / 0 / 0.1%RH]
3-522-003	ProCon Environ	Abs Humidity	ENG	[0 to 1000 / 0 / 0.1g/m3]
3-523-001	ProCon Time	Year	ENG	[0 to 99 / 0 / 1year]
3-523-002	ProCon Time	Month	ENG	[1 to 12 / 1 / 1month]
3-523-003	ProCon Time	Day	ENG	[1 to 31 / 1 / 1day]
3-523-004	ProCon Time	Hour	ENG	[0 to 23 / 0 / 1hour]
3-523-005	ProCon Time	Minute	ENG	[0 to 59 / 0 / 1minute]
3-524-001	Unit Change	Trans Belt	ENG	[0 to 1 / 0 / 1]
3-524-002	Unit Change	PCDU:K	ENG	[0 to 1 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-524-003	Unit Change	PCDU:YMC	ENG	[0 to 1 / 0 / 1]
3-529-006	ProCon Interval	Page Cnt:BW	ENG	[0 to 5000 / 0 / 1sheets]
3-529-007	ProCon Interval	Page Cnt:FC	ENG	[0 to 5000 / 0 / 1sheets]
3-529-011	ProCon Interval	CnsmRate_Upper	ENG	[0 to 100 / 100 / 1%]
3-529-012	ProCon Interval	CnsmRate_Lower	ENG	[0 to 100 / 0 / 1%]
3-530-001	PowerON ProCon	Non-use Time	ENG	[0 to 5000 / 2880 / 1minute]
3-530-002	PowerON ProCon	Temperature Range	ENG	[0 to 99 / 8 / 1deg]
3-530-003	PowerON ProCon	Relat Hum Range	ENG	[0 to 99 / 50 / 1%RH]
3-530-004	PowerON ProCon	Absol Hum Range	ENG	[0 to 99 / 6 / 1g/m3]
3-530-005	PowerON ProCon	Interval:BW	ENG	[0 to 5000 / 0 / 1sheets]
3-530-006	PowerON ProCon	Interval:FC	ENG	[0 to 5000 / 0 / 1sheets]
3-540-001	BkThickLowSpdMode		ENG	[0 to 1 / 0 / 1]
3-560-001	TonerBondRemoval	Bond Removal Mode	ENG	[0 to 4 / 4 / 1] Bond Removal Mode 0 Bond Removal Mode 1 Bond Removal Mode 2 Bond Removal Mode 3 Bond Removal Mode 4
3-560-002	TonerBondRemoval	Rel Hum Threshold	ENG	[0 to 100 / 0 / 1%RH]
3-560-003	TonerBondRemoval	Temp Threshold	ENG	[0 to 60 / 0 / 1deg]
3-600-005	Select ProCon	IBACC	ENG	[0 to 1 / 1 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-600-006	Select ProCon	Density Control	ENG	[0 to 2 / 2 / 1]
3-600-010	Select ProCon	TMG Correct	ENG	[0 to 1 / 1 / 1]
3-600-011	Select Procon	Vs_off	ENG	[0 to 1 / 1 / 1]
3-611-001	Chrg DC Control	Std Speed: K	ENG	[300 to 1350 / 1038 / 1-V]
3-611-002	Chrg DC Control	Std Speed: C	ENG	[300 to 1350 / 1038 / 1-V]
3-611-003	Chrg DC Control	Std Speed: M	ENG	[300 to 1350 / 1038 / 1-V]
3-611-004	Chrg DC Control	Std Speed: Y	ENG	[300 to 1350 / 1038 / 1-V]
3-611-021	Chrg DC Control	Low Speed: K	ENG	[300 to 1350 / 1038 / 1-V]
3-611-022	Chrg DC Control	Low Speed: C	ENG	[300 to 1350 / 1038 / 1-V]
3-611-023	Chrg DC Control	Low Speed: M	ENG	[300 to 1350 / 1038 / 1-V]
3-611-024	Chrg DC Control	Low Speed: Y	ENG	[300 to 1350 / 1038 / 1-V]
3-611-031	Chrg DC Control	UpperLimit	ENG	[900 to 1300 / 1300 / 1-V]
3-611-032	Chrg DC Control	LowerLimit	ENG	[900 to 1300 / 900 / 1-V]
3-612-001	Dev DC Control	Std Speed: K	ENG	[50 to 350 / 120 / 1-V]
3-612-002	Dev DC Control	Std Speed: C	ENG	[50 to 350 / 120 / 1-V]
3-612-003	Dev DC Control	Std Speed: M	ENG	[50 to 350 / 120 / 1-V]
3-612-004	Dev DC Control	Std Speed: Y	ENG	[50 to 350 / 120 / 1-V]
3-612-021	Dev DC Control	Low Speed: K	ENG	[50 to 350 / 120 / 1-V]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-612-022	Dev DC Control	Low Speed: C	ENG	[50 to 350 / 120 / 1-V]
3-612-023	Dev DC Control	Low Speed: M	ENG	[50 to 350 / 120 / 1-V]
3-612-024	Dev DC Control	Low Speed: Y	ENG	[50 to 350 / 120 / 1-V]
3-612-031	Dev DC Control	MUSIC Std: K	ENG	[70 to 350 / 200 / 1-V]
3-612-032	Dev DC Control	MUSIC Std: C	ENG	[70 to 350 / 200 / 1-V]
3-612-033	Dev DC Control	MUSIC Std: M	ENG	[70 to 350 / 200 / 1-V]
3-612-034	Dev DC Control	MUSIC Std: Y	ENG	[70 to 350 / 200 / 1-V]
3-612-120	Dev DC Control	Vb Limit	ENG	[0 to 500 / 30 / 1V]
3-612-201	Dev DC Control	Plus DC LL Dist1	ENG*	[0 to 250 / 175 / 1V]
3-612-202	Dev DC Control	Plus DC ML Dist1	ENG*	[0 to 250 / 175 / 1V]
3-612-203	Dev DC Control	Plus DC MM Dist1	ENG*	[0 to 250 / 175 / 1V]
3-612-204	Dev DC Control	Plus DC MH Dist1	ENG*	[0 to 250 / 175 / 1V]
3-612-205	Dev DC Control	Plus DC HH Dist1	ENG*	[0 to 250 / 175 / 1V]
3-612-206	Dev DC Control	Plus DC LL Dist2	ENG*	[0 to 250 / 175 / 1V]
3-612-207	Dev DC Control	Plus DC ML Dist2	ENG*	[0 to 250 / 175 / 1V]
3-612-208	Dev DC Control	Plus DC MM Dist2	ENG*	[0 to 250 / 175 / 1V]
3-612-209	Dev DC Control	Plus DC MH Dist2	ENG*	[0 to 250 / 175 / 1V]
3-612-210	Dev DC Control	Plus DC HH Dist2	ENG*	[0 to 250 / 175 / 1V]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-612-211	Dev DC Control	Plus DC LL Dist3	ENG*	[0 to 250 / 175 / 1V]
3-612-212	Dev DC Control	Plus DC ML Dist3	ENG*	[0 to 250 / 175 / 1V]
3-612-213	Dev DC Control	Plus DC MM Dist3	ENG*	[0 to 250 / 175 / 1V]
3-612-214	Dev DC Control	Plus DC MH Dist3	ENG*	[0 to 250 / 175 / 1V]
3-612-215	Dev DC Control	Plus DC HH Dist3	ENG*	[0 to 250 / 175 / 1V]
3-612-216	Dev DC Control	Plus DC LL Dist4	ENG*	[0 to 250 / 150 / 1V]
3-612-217	Dev DC Control	Plus DC ML Dist4	ENG*	[0 to 250 / 150 / 1V]
3-612-218	Dev DC Control	Plus DC MM Dist4	ENG*	[0 to 250 / 150 / 1V]
3-612-219	Dev DC Control	Plus DC MH Dist4	ENG*	[0 to 250 / 150 / 1V]
3-612-220	Dev DC Control	Plus DC HH Dist4	ENG*	[0 to 250 / 150 / 1V]
3-612-221	Dev DC Control	Distance1	ENG*	[0 to 250 / 3 / 1x100m]
3-612-222	Dev DC Control	Distance2	ENG*	[0 to 250 / 5 / 1x100m]
3-612-223	Dev DC Control	Distance3	ENG*	[0 to 250 / 10 / 1x100m]
3-613-001	LED Strob Time Op	Std Speed: K	ENG	[0 to 200 / 100 / 1%]
3-613-002	LED Strob Time Op	Std Speed: C	ENG	[0 to 200 / 100 / 1%]
3-613-003	LED Strob Time Op	Std Speed: M	ENG	[0 to 200 / 100 / 1%]
3-613-004	LED Strob Time Op	Std Speed: Y	ENG	[0 to 200 / 100 / 1%]
3-613-021	LED Strob Time Op	Low Speed: K	ENG	[0 to 200 / 100 / 1%]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-613-022	LED Strob Time Op	Low Speed: C	ENG	[0 to 200 / 100 / 1%]
3-613-023	LED Strob Time Op	Low Speed: M	ENG	[0 to 200 / 100 / 1%]
3-613-024	LED Strob Time Op	Low Speed: Y	ENG	[0 to 200 / 100 / 1%]
3-613-031	LED Strob Time Op	Ppattern: K	ENG	[0 to 200 / 100 / 1%]
3-613-032	LED Strob Time Op	Ppattern: C	ENG	[0 to 200 / 100 / 1%]
3-613-033	LED Strob Time Op	Ppattern: M	ENG	[0 to 200 / 100 / 1%]
3-613-034	LED Strob Time Op	Ppattern: Y	ENG	[0 to 200 / 100 / 1%]
3-613-051	LED Strob Time Op	Music	ENG	[0 to 200 / 100 / 1%]
3-614-001	LED Energy	Upper Limit	ENG	[0 to 1605 / 802 / 1nJ/cm2]
3-614-002	LED Energy	Lower Limit	ENG	[0 to 1605 / 363 / 1nJ/cm2]
3-615-001	Supply DC :set	Latest value_Bk	ENG	[0 to 350 / 50 / 1V]
3-615-002	Supply DC :set	Latest value C	ENG	[0 to 350 / 20 / 1V]
3-615-003	Supply DC :set	Latest value M	ENG	[0 to 350 / 20 / 1V]
3-615-004	Supply DC :set	Latest value Y	ENG	[0 to 350 / 20 / 1V]
3-616-001	Supply DC :set	OffSet Bk	ENG*	[0 to 350 / 50 / 1V]
3-616-002	Supply DC :set	OffSet C	ENG*	[0 to 350 / 20 / 1V]
3-616-003	Supply DC :set	OffSet M	ENG*	[0 to 350 / 20 / 1V]
3-616-004	Supply DC :set	OffSet Y	ENG*	[0 to 350 / 20 / 1V]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-620-001	TrgtAdhnsnAmt:Set	Maximum:K	ENG	[0.1 to 7.5 / 4.65 / 0.01g/m2]
3-620-002	TrgtAdhnsnAmt:Set	Maximum:C	ENG	[0.1 to 7.5 / 4.63 / 0.01g/m2]
3-620-003	TrgtAdhnsnAmt:Set	Maximum:M	ENG	[0.1 to 7.5 / 5.06 / 0.01g/m2]
3-620-004	TrgtAdhnsnAmt:Set	Maximum:Y	ENG	[0.1 to 7.5 / 4.58 / 0.01g/m2]
3-620-011	TrgtAdhnsnAmt:Set	Halftone:K	ENG	[0.1 to 5 / 1.7 / 0.01g/m2]
3-620-012	TrgtAdhnsnAmt:Set	Halftone:C	ENG	[0.1 to 5 / 1.7 / 0.01g/m2]
3-620-013	TrgtAdhnsnAmt:Set	Halftone:M	ENG	[0.1 to 5 / 1.9 / 0.01g/m2]
3-620-014	TrgtAdhnsnAmt:Set	Halftone:Y	ENG	[0.1 to 5 / 1.7 / 0.01g/m2]
3-622-001	Dev Pot :Set	K	ENG	[0 to 800 / 0 / 1V]
3-622-002	Dev Pot :Set	C	ENG	[0 to 800 / 0 / 1V]
3-622-003	Dev Pot :Set	M	ENG	[0 to 800 / 0 / 1V]
3-622-004	Dev Pot :Set	Y	ENG	[0 to 800 / 0 / 1V]
3-628-001	Ppattern:Set	OffsetTime:K	ENG	[-100 to 100 / 0 / 1ms]
3-628-002	Ppattern:Set	OffsetTime:C	ENG	[-100 to 100 / 0 / 1ms]
3-628-003	Ppattern:Set	OffsetTime:M	ENG	[-100 to 100 / 0 / 1ms]
3-628-004	Ppattern:Set	OffsetTime:Y	ENG	[-100 to 100 / 0 / 1ms]
3-628-005	Ppattern:Set	OffsetTime:BW	ENG	[-100 to 100 / 0 / 1ms]
3-630-001	Dev gamma :Disp	Current:K	ENG	[0.1 to 6 / 1 / 0.01g/m2/hV]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-630-002	Dev gamma :Disp	Current:C	ENG	[0.1 to 6 / 1 / 0.01g/m2/hV]
3-630-003	Dev gamma :Disp	Current:M	ENG	[0.1 to 6 / 1 / 0.01g/m2/hV]
3-630-004	Dev gamma :Disp	Current:Y	ENG	[0.1 to 6 / 1 / 0.01g/m2/hV]
3-631-001	Dev Start Vol Vk	K	ENG	[-900 to 300 / 0 / 1-V]
3-631-002	Dev Start Vol Vk	C	ENG	[-900 to 300 / 0 / 1-V]
3-631-003	Dev Start Vol Vk	M	ENG	[-900 to 300 / 0 / 1-V]
3-631-004	Dev Start Vol Vk	Y	ENG	[-900 to 300 / 0 / 1-V]
3-631-011	Dev Start Vol Vk	Upper:K	ENG	[0 to 900 / 400 / 1V]
3-631-012	Dev Start Vol Vk	Upper:C	ENG	[0 to 900 / 400 / 1V]
3-631-013	Dev Start Vol Vk	Upper:M	ENG	[0 to 900 / 400 / 1V]
3-631-014	Dev Start Vol Vk	Upper:Y	ENG	[0 to 900 / 400 / 1V]
3-632-001	Hlftn:Slope alpha	Current:K	ENG	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-002	Hlftn:Slope alpha	Current:C	ENG	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-003	Hlftn:Slope alpha	Current:M	ENG	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-004	Hlftn:Slope alpha	Current:Y	ENG	[-6 to 0 / 0 / 0.01g/m2/hV]
3-632-011	Hlftn:Slope alpha	LED Current:K	ENG	[-6 to 0 / 0 / 0.01g/m2/-650ns]
3-632-012	Hlftn:Slope alpha	LED Current:C	ENG	[-6 to 0 / 0 / 0.01g/m2/-650ns]
3-632-013	Hlftn:Slope alpha	LED Current:M	ENG	[-6 to 0 / 0 / 0.01g/m2/-650ns]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-632-014	Hlftn:Slope alpha	LED Current:Y	ENG	[-6 to 0 / 0 / 0.01g/m2/-650ns]
3-633-001	Hlftn:Intcpt beta	Current:K	ENG	[0 to 50 / 0 / 0.01g/m2]
3-633-002	Hlftn:Intcpt beta	Current:C	ENG	[0 to 50 / 0 / 0.01g/m2]
3-633-003	Hlftn:Intcpt beta	Current:M	ENG	[0 to 50 / 0 / 0.01g/m2]
3-633-004	Hlftn:Intcpt beta	Current:Y	ENG	[0 to 50 / 0 / 0.01g/m2]
3-633-011	Hlftn:Intcpt beta	LED Current:K	ENG	[-100 to 100 / 0 / 0.01g/m2]
3-633-012	Hlftn:Intcpt beta	LED Current:C	ENG	[-100 to 100 / 0 / 0.01g/m2]
3-633-013	Hlftn:Intcpt beta	LED Current:M	ENG	[-100 to 100 / 0 / 0.01g/m2]
3-633-014	Hlftn:Intcpt beta	LED Current:Y	ENG	[-100 to 100 / 0 / 0.01g/m2]
3-700-001	New Unit Detect	ON/OFF Setting	ENG	[0 to 1 / 1 / 1]
3-800-001	TN Collec. Bottle	Full Record	ENG	[0 to 2 / 0 / 1] 0:Empty 1:Near Full 2:Full
3-800-002	TN Collec. Bottle	After NF:M/A	ENG	[0 to 1000000000 / 0 / 1ug]
3-800-004	TN Collec. Bottle	Mt_full	ENG	[0 to 1000000 / 26950 / 1mg]
3-800-005	TN Collec. Bottle	Mt_near_full	ENG	[0 to 1000000 / 10914 / 1mg]
3-800-009	TN Collec. Bottle	MC	ENG	[0 to 1000000000 / 0 / 1ug]
3-800-010	TN Collec. Bottle	T2	ENG	[0 to 100 / 92 / 1%]
3-800-011	TN Collec. Bottle	T3	ENG	[0 to 100 / 15 / 1%]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
3-800-012	TN Collec. Bottle	T4	ENG	[0 to 100 / 15 / 1%]
3-800-013	TN Collec. Bottle	Change Chk:M/A	ENG	[0 to 1000000000 / 0 / 1ug]
3-800-014	TN Collec. Bottle	M_rap_full	ENG	[0 to 100 / 0 / 1times]
3-800-015	TN Collec. Bottle	Mt_new	ENG	[0 to 1000000 / 70000 / 1mg]
3-800-016	TN Collec. Bottle	Rapid Full Thresh	ENG	[0 to 100 / 0 / 1times]
3-800-017	TN Collec. Bottle	Days bfr End	ENG	[0 to 2 / 1 / 1]

SP4-XXX (Scanner)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-008-001	Sub Scan Mag		ENG*	[-1 to 1 / 0 / 0.1%]
4-010-001	Sub Scan Regist		ENG*	[-1 to 1 / 0 / 0.1mm]
4-011-001	Main Scan Regist		ENG*	[-2 to 2 / 0 / 0.1mm] This can be specified within the range of -2.0 to +2.0, but make sure to set it within the range of -1.5 to +1.5. Exceeding this range may cause black banding to appear.
4-012-001	Scan Erase Scale	Leading Edge	ENG*	[0 to 3 / 1 / 0.1mm]
4-012-002	Scan Erase Scale	Trailing Edge	ENG*	[0 to 3 / 1 / 0.1mm]
4-	Scan Erase Scale	Main Scan: Rear	ENG*	[0 to 3 / 1 / 0.1mm]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
012-003				
4-012-004	Scan Erase Scale	Main Scan: Front	ENG*	[0 to 3 / 1 / 0.1mm]
4-013-001	Scanner Free Run	Lamp OFF	ENG	[0 to 1 / 0 / 1]
4-020-001	Dust Check	Dust Detect:On/Off	ENG*	[0 to 1 / 0 / 1]
4-020-002	Dust Check	Dust Detect:Lvl	ENG*	[0 to 8 / 4 / 1]
4-020-011	Dust Check	Dust Detect:On/Off:Back	ENG*	[0 to 1 / 0 / 1]
4-020-012	Dust Check	Dust Detect:Lvl:Back	ENG*	[0 to 8 / 4 / 1]
4-400-001	Scan Erase Margin	Leading Edge	ENG*	[0 to 3 / 1 / 0.1mm]
4-400-002	Scan Erase Margin	Trailing Edge	ENG*	[0 to 3 / 1 / 0.1mm]
4-400-003	Scan Erase Margin	Main Scan: Rear	ENG*	[0 to 3 / 1 / 0.1mm]
4-400-004	Scan Erase Margin	Main Scan: Front	ENG*	[0 to 3 / 1 / 0.1mm]
4-400-005	Scan Erase Margin	ADF:Sub:L-Edge	ENG*	[0 to 3 / 1.6 / 0.1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-400-007	Scan Erase Margin	ADF:Main:Edge	ENG*	[0 to 3 / 1.6 / 0.1mm]
4-400-008	Scan Erase Margin	ADF:Main:T-Edge	ENG*	[0 to 3 / 1.6 / 0.1mm]
4-602-001	AGC Check:Back	Finish State Flag	ENG	[0 to 3 / 0 / 1]
4-609-001	GrayBalance Set:R	Book Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-609-002	GrayBalance Set:R	DF Front Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-609-003	GrayBalance Set:R	DF Back Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-610-001	GrayBalance Set:G	Book Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-610-002	GrayBalance Set:G	DF Front Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-610-003	GrayBalance Set:G	DF Back Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-611-001	GrayBalance Set:B	Book Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-611-002	GrayBalance Set:B	DF Front Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-611-003	GrayBalance Set:B	DF Back Scan	ENG*	[-384 to 255 / -80 / 1digit]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
4-612-001	GrayBalanceSet:BW	Book Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-612-002	GrayBalanceSet:BW	DF Front Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-612-003	GrayBalanceSet:BW	DF Back Scan	ENG*	[-384 to 255 / -80 / 1digit]
4-645-001	Scan Adjust Error	Front	ENG	[0 to 65535 / 0 / 1]
4-645-002	Scan Adjust Error	Back	ENG	[0 to 65535 / 0 / 1]
4-688-002	DF Density Adjustment	1-Pass	ENG*	[80 to 120 / 103 / 1%]
4-691-003	WhiteLevel Peak:G	Last: Back	ENG*	[0 to 255 / 0 / 1digit]
4-802-001	DF SH FreeRun	Lamp OFF	ENG	[0 to 1 / 0 / 1]
4-803-001	HP Adjustment		ENG*	[-2 to 1.5 / 0 / 0.1mm]
4-804-001	Home Position Act		ENG	[0 to 1 / 0 / 1]

SP5-XXX (Mode)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-131-001	Paper Size Type		ENG	[0 to 2 / * / 1] NA:1

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				EU/AP/CHN/TWN/KOR:0 0:JP 1:NA 2:EU
5-801-002	Memory Clear	Engine	ENG*	[0 to 1 / 0 / 1]
5-801-031	Memory Clear	SIMH Clear	ENG	[0 to 1 / 0 / 1]
5-806-100	ID Chip	Error Log	ENG	[0 to 0xFFFFFFFF / 0 / 1]
5-806-101	ID Chip	Error Log 2	ENG	[0 to 0xFFFFFFFF / 0 / 1]
5-810-001	Fusing SC Clear	Clear	ENG*	[0 to 1 / 0 / 1]
5-811-002	MachineSerial	Display:Serial	ENG	[0 to 255 / 0 / 1]
5-811-004	MachineSerial	Set:BICU	ENG	[0 to 255 / 0 / 1]
5-811-021	MachineSerial	Latest Update	ENG	[0 to 1 / 0 / 1]
5-811-022	MachineSerial	Previous Update	ENG	[0 to 1 / 0 / 1]
5-811-023	MachineSerial	Previous	ENG	[0 to 255 / 0 / 1]
5-811-024	MachineSerial	Latest Update:BCU	ENG	[0 to 1 / 0 / 1]
5-811-025	MachineSerial	Prev. Update:BCU	ENG	[0 to 1 / 0 / 1]
5-811-026	MachineSerial	Previous: BCU	ENG	[0 to 255 / 0 / 1]
5-900-001	Engine Log Upload	Pattern	ENG	[0 to 4 / 0 / 1]
5-900-002	Engine Log Upload	Trigger	ENG	[0 to 3 / 0 / 1]
5-902-001	AdjustControl	B/W Priority Mode	ENG	[0 to 1 / 0 / 1]
5-903-001	Test Print	Feed Tray	ENG*	[0 to 4 / 0 / 1] 0:Bypass 1:Tray1 2:Tray2 3:Tray3 4:Tray4
5-903-002	Test Print	Duplex Setting	ENG*	[0 to 1 / 0 / 1] 0:Single 1:Duplex
5-903-003	Test Print	Paper Size	ENG*	[0 to 3 / 1 / 1] 0:LGT 1:A4T 2:B5T 3:A5T
5-903-004	Test Print	Color Mode	ENG*	[0 to 6 / 0 / 1] 0:BK 1:Cyan

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				2:Magenta 3:Yellow 4:Red 5:Blue 6:Green
5-903-005	Test Print	Test Patten	ENG*	[0 to 14 / 0 / 1] 0:None 1:V 1line 2:H 1line 3:V 2line 4:H 2line 5:V Grid 6:H Grid 7:20mm Grid 8:SGrid 9:20mm SGrid 10:1by1 11:2by2 12:4by4 13:Full Dot 14:Belt
5-903-006	Test Print	Paper Kind	ENG*	[0 to 2 / 0 / 1] 0:Plain Paper 1:Thick1 2:Thick2
5-903-007	Test Print	Print Page	ENG*	[0 to 255 / 1 / 1]
5-903-008	Test Print	Freerun Setting	ENG*	[0 to 1 / 0 / 1] 0:Normal 1:FreeRun
5-903-009	Test Print	Print Start	ENG*	[0 to 1 / 0 / 1]
5-930-001	MeterClick Ch.	MeterClick Ch.	ENG	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-930-010	MeterClick Ch.	PCDU	ENG	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-930-014	MeterClick Ch.	Trans Unit	ENG	[0 to 1 / 0 / 1] 0:OFF

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				1:ON
5-930-016	MeterClick Ch.	Fusing Unit	ENG	[0 to 1 / 0 / 1] 0:OFF 1:ON
5-931-001	Life System	Life Page System	ENG	[0 to 1 / 0 / 1]
5-931-002	Life System	Print Stop System	ENG	[0 to 1 / 1 / 1]
5-997-001	PSC	COMMAND	ENG*	[0 to 3 / 2 / 1]
5-997-002	PSC	DOMAIN_IF	ENG*	[0 to 3 / 0 / 1]
5-997-003	PSC	RAPI	ENG*	[0 to 3 / 0 / 1]
5-997-004	PSC	PRINT	ENG*	[0 to 3 / 0 / 1]
5-997-005	PSC	ENGINE	ENG*	[0 to 3 / 0 / 1]
5-997-006	PSC	THREAD	ENG*	[0 to 3 / 0 / 1]
5-997-007	PSC	THREAD_OBJ	ENG*	[0 to 3 / 0 / 1]
5-997-008	PSC	STS_TREE	ENG*	[0 to 3 / 0 / 1]
5-997-009	PSC	TREE_INIT	ENG*	[0 to 3 / 0 / 1]
5-997-010	PSC	EVENT	ENG*	[0 to 3 / 0 / 1]
5-997-011	PSC	SP	ENG*	[0 to 3 / 0 / 1]
5-997-012	PSC	OTHER	ENG*	[0 to 3 / 0 / 1]
5-997-013	PSC	MEMORY	ENG*	[0 to 3 / 0 / 1]
5-998-001	Fusing Cont mode	fast/silent	ENG	[0 to 1 / 0 / 1] 0:Silent 1:Fast

SP6-XXX (Peripherals)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
6-006-001	ADF Adjustment	Main Regist:Front	ENG*	[-3 to 3 / 0 / 0.1mm]
6-006-002	ADF Adjustment	Main Regist:Back	ENG*	[-2 to 2 / 0 / 0.1mm]
6-006-003	ADF Adjustment	Manual Feed Main Regist:Front	ENG*	[-2 to 2 / 0 / 0.1mm]
6-006-004	ADF Adjustment	Manual Feed Main Regist:Back	ENG*	[-2 to 2 / 0 / 0.1mm]
001 to 004: This can be specified within the range of -3.0 to +3.0, but make sure to set it within the range of -1.5 to +1.5. Exceeding this range may cause black banding to appear.				
6-006-	ADF Adjustment	L-EdgeRegist:Front	ENG*	[-5 to 5 / 0 / 0.1mm]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
010				
6-006-011	ADF Adjustment	L-EdgeRegist:Back	ENG*	[-5 to 5 / 0 / 0.1mm]
6-006-012	ADF Adjustment	Manual Feed L-EdgeRegist:Front	ENG*	[-5 to 5 / 0 / 0.1mm]
6-006-013	ADF Adjustment	Manual Feed L-EdgeRegist:Back	ENG*	[-5 to 5 / 0 / 0.1mm]
6-006-014	ADF Adjustment	T-EdgeErase:Front	ENG*	[-5 to 0 / -1.6 / 0.1mm]
6-006-015	ADF Adjustment	T-EdgeErase:Back	ENG*	[-5 to 0 / -1.6 / 0.1mm]
6-006-016	ADF Adjustment	T-EdgeRegist:185.6mm/s	ENG*	[-10 to 10 / 0 / 0.1mm]
6-006-017	ADF Adjustment	T-EdgeRegist:123.73mm/s	ENG*	[-10 to 10 / 0 / 0.1mm]
6-006-018	ADF Adjustment	T-EdgeRegist:92.8mm/s	ENG*	[-10 to 10 / 0 / 0.1mm]
6-006-019	ADF Adjustment	T-EdgeRegist:61.87mm/s	ENG*	[-10 to 10 / 0 / 0.1mm]
6-006-020	ADF Adjustment	T-EdgeRegist:30.93mm/s	ENG*	[-10 to 10 / 0 / 0.1mm]
6-009-001	ADF Free Run	Simplex Mode	ENG	[0 to 1 / 0 / 1STEP]
6-009-002	ADF Free Run	Duplex Mode	ENG	[0 to 1 / 0 / 1STEP]
6-017-001	DF Magnification Adj.		ENG*	[-5 to 5 / 0 / 0.1%]
6-020-001	Manual PreFeed	Start Timing	ENG*	[0.5 to 2 / 1 / 0.1sec]
6-021-001	ADF Manual feed Counter	Sheets ADF Manual Feed	ENG*	[0 to 9999999 / 0 / 1sheet]
6-030-001	DF Hinge	Hinge Counter	ENG*	[0 to 999999 / 0 / 1]
6-030-002	DF Hinge	Hinge State	ENG*	[0 to 1 / 0 / 1]
6-030-	DF Hinge	Hinge Count Clear	ENG	[0 to 0 / 0 / 0]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
003				

SP7-XXX (Data Log)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-801-002	ROM Info	ROM No.	ENG*	[0 to 0 / 0 / 0]
7-801-102	ROM Info	Firmware Version	ENG*	[0 to 0 / 0 / 0]
7-803-002	PM Counter	Page: PCDU: Bk	ENG	[0 to 999999 / 0 / 1page]
7-803-003	PM Counter	Page: PCDU: C	ENG	[0 to 999999 / 0 / 1page]
7-803-004	PM Counter	Page: PCDU: M	ENG	[0 to 999999 / 0 / 1page]
7-803-005	PM Counter	Page: PCDU: Y	ENG	[0 to 999999 / 0 / 1page]
7-803-007	Disp. PM Counter	Sheets ADF Pad	ENG*	[0 to 9999999 / 0 / 1sheet]
7-803-008	Disp. PM Counter	Sheets ADF Pickup	ENG*	[0 to 9999999 / 0 / 1sheet]
7-803-009	Disp. PM Counter	Sheets ADF Feed	ENG*	[0 to 9999999 / 0 / 1sheet]
7-803-014	PM Counter	Page: ITB Unit	ENG	[0 to 999999 / 0 / 1page]
7-803-016	PM Counter	Page: Fusing Uint	ENG	[0 to 999999 / 0 / 1page]
7-803-019	PM Counter	Page: PTR Unit	ENG	[0 to 999999 / 0 / 1page]
7-803-027	Disp. PM Counter	Usage ADF Pad	ENG*	[0 to 255 / 0 / 1%]
7-803-028	Disp. PM Counter	Usage ADF Pickup	ENG*	[0 to 255 / 0 / 1%]
7-803-029	Disp. PM Counter	Usage ADF Feed	ENG*	[0 to 255 / 0 / 1%]
7-803-	PM Counter	Dist: PCDU: Bk	ENG	[0 to 999999999 / 0 / 1mm]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
031				
7-803-032	PM Counter	Dist: PCDU: C	ENG	[0 to 999999999 / 0 / 1mm]
7-803-033	PM Counter	Dist: PCDU: M	ENG	[0 to 999999999 / 0 / 1mm]
7-803-034	PM Counter	Dist: PCDU: Y	ENG	[0 to 999999999 / 0 / 1mm]
7-803-043	PM Counter	Dist: ITB Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-803-044	PM Counter	Dist: ITBUnit: FC	ENG	[0 to 999999999 / 0 / 1mm]
7-803-045	PM Counter	Dist: Fusing Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-803-048	PM Counter	Dist: PTR	ENG	[0 to 999999999 / 0 / 1mm]
7-803-110	PM Counter	Pass Dist: PTR	ENG	[0 to 999999999 / 0 / 1mm]
7-803-112	PM Counter	Pass Dist: Fusing	ENG	[0 to 999999999 / 0 / 1mm]
7-804-002	PM Counter Clear	PCU: Bk	ENG*	[0 to 1 / 0 / 1]
7-804-003	PM Counter Clear	PCU: C	ENG*	[0 to 1 / 0 / 1]
7-804-004	PM Counter Clear	PCU: M	ENG*	[0 to 1 / 0 / 1]
7-804-005	PM Counter Clear	PCU: Y	ENG*	[0 to 1 / 0 / 1]
7-804-007	Reset PM Counter	ADF Pad	ENG	[0 to 1 / 0 / 0]
7-804-008	Reset PM Counter	ADF Pickup	ENG	[0 to 1 / 0 / 0]
7-804-009	Reset PM Counter	ADF Feed	ENG	[0 to 1 / 0 / 0]
7-804-017	PM Counter Clear	ITB Unit	ENG*	[0 to 1 / 0 / 1]
7-804-019	PM Counter Clear	Fusing Unit	ENG*	[0 to 1 / 0 / 1]
7-804-	PM Counter Clear	PTR Unit	ENG*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
022				
7-804-030	PM Counter Clear	Consump	ENG*	[0 to 1 / 0 / 1]
7-804-050	PM Counter Clear	Life:PCU: Bk	ENG*	[0 to 1 / 0 / 1]
7-804-051	PM Counter Clear	Life:PCU: C	ENG*	[0 to 1 / 0 / 1]
7-804-052	PM Counter Clear	Life:PCU: M	ENG*	[0 to 1 / 0 / 1]
7-804-053	PM Counter Clear	Life:PCU: Y	ENG*	[0 to 1 / 0 / 1]
7-804-060	PM Counter Clear	Life:ITB Unit	ENG*	[0 to 1 / 0 / 1]
7-804-061	PM Counter Clear	Life:PTR Unit	ENG*	[0 to 1 / 0 / 1]
7-804-070	PM Counter Clear	Life:Fusing Unit	ENG*	[0 to 1 / 0 / 1]
7-804-100	PM Counter Clear	All	ENG*	[0 to 1 / 0 / 1]
7-850-001	MachineCounter	TotalCounter	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-002	MachineCounter	TotalCounterFC	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-003	MachineCounter	Duplex	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-004	MachineCounter	Size:DL/A3	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-005	MachineCounter	Size:LT/A4	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-006	MachineCounter	Pkind:Normal	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-007	MachineCounter	Pkind:Recycle	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-008	MachineCounter	Pkind:MidThick	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-	MachineCounter	Pkind:Glossy	ENG	[0 to 0xFFFFFFFF / 0 /

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
009				1page]
7-850-010	MachineCounter	Pkind:Post	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-011	MachineCounter	Feed:Tray1	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-012	MachineCounter	Feed:Tray2	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-013	MachineCounter	Feed:Tray3	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-014	MachineCounter	Feed:Tray4	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-015	MachineCounter	Env:HH	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-016	MachineCounter	Env:HL	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-017	MachineCounter	Env:LH	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-018	MachineCounter	Env:LL	ENG	[0 to 0xFFFFFFFF / 0 / 1page]
7-850-019	MachineCounter	Coverage:Bk	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-850-020	MachineCounter	Coverage:C	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-850-021	MachineCounter	Coverage:M	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-850-022	MachineCounter	Coverage:Y	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-852-001	DF Dust Check	Counter	ENG*	[0 to 65535 / 0 / 1]
7-852-002	DF Dust Check	Clear Counter	ENG*	[0 to 65535 / 0 / 1]
7-852-003	DF Dust Check	Dust Counter:Back	ENG*	[0 to 65535 / 0 / 1]
7-853-001	Replacement Cnt	PCDU: Bk	ENG	[0 to 999 / 0 / 1time]
7-853-	Replacement Cnt	PCDU: C	ENG	[0 to 999 / 0 / 1time]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
7-853-003	Replacement Cnt	PCDU: M	ENG	[0 to 999 / 0 / 1time]
7-853-004	Replacement Cnt	PCDU: Y	ENG	[0 to 999 / 0 / 1time]
7-853-009	Replacement Cnt	Cartridge: Bk	ENG	[0 to 999 / 0 / 1time]
7-853-010	Replacement Cnt	Cartridge: C	ENG	[0 to 999 / 0 / 1time]
7-853-011	Replacement Cnt	Cartridge: M	ENG	[0 to 999 / 0 / 1time]
7-853-012	Replacement Cnt	Cartridge: Y	ENG	[0 to 999 / 0 / 1time]
7-853-013	Replacement Cnt	ITB Unit	ENG	[0 to 999 / 0 / 1time]
7-853-015	Replacement Cnt	Fusing Unit	ENG	[0 to 999 / 0 / 1time]
7-853-018	Replacement Cnt	PTR Unit	ENG	[0 to 999 / 0 / 1time]
7-854-001	CCW Rotate Cnt	ITB Unit	ENG	[0 to 9999 / 0 / 1time]
7-905-001	Life Counter	Page: PCDU: Bk	ENG	[0 to 999999 / 0 / 1page]
7-905-002	Life Counter	Page: PCDU: C	ENG	[0 to 999999 / 0 / 1page]
7-905-003	Life Counter	Page: PCDU: M	ENG	[0 to 999999 / 0 / 1page]
7-905-004	Life Counter	Page: PCDU: Y	ENG	[0 to 999999 / 0 / 1page]
7-905-013	Life Counter	Page: ITB Unit	ENG	[0 to 999999 / 0 / 1page]
7-905-015	Life Counter	Page: Fusing Uint	ENG	[0 to 999999 / 0 / 1page]
7-905-018	Life Counter	Page: PTR Unit	ENG	[0 to 999999 / 0 / 1page]
7-905-031	Life Counter	Dist: PCDU: Bk	ENG	[0 to 999999999 / 0 / 1mm]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-905-032	Life Counter	Dist: PCDU: C	ENG	[0 to 999999999 / 0 / 1mm]
7-905-033	Life Counter	Dist: PCDU: M	ENG	[0 to 999999999 / 0 / 1mm]
7-905-034	Life Counter	Dist: PCDU: Y	ENG	[0 to 999999999 / 0 / 1mm]
7-905-043	Life Counter	Dist: ITB Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-905-045	Life Counter	Dist: Fusing Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-905-048	Life Counter	Dist: PTR	ENG	[0 to 999999999 / 0 / 1mm]
7-905-061	Life Counter	Dist(%): PCDU: Bk	ENG*	[0 to 250 / 0 / 0.1%]
7-905-062	Life Counter	Dist(%): PCDU: C	ENG*	[0 to 250 / 0 / 0.1%]
7-905-063	Life Counter	Dist(%): PCDU: M	ENG*	[0 to 250 / 0 / 0.1%]
7-905-064	Life Counter	Dist(%): PCDU: Y	ENG*	[0 to 250 / 0 / 0.1%]
7-905-073	Life Counter	Dist(%): ITB Unit	ENG*	[0 to 250 / 0 / 0.1%]
7-905-075	Life Counter	Dist(%): Fusing	ENG*	[0 to 250 / 0 / 0.1%]
7-905-078	Life Counter	Dist(%): PTR	ENG*	[0 to 250 / 0 / 0.1%]
7-905-091	Life Counter	Page(%): PCDU: Bk	ENG*	[0 to 250 / 0 / 0.1%]
7-905-092	Life Counter	Page(%): PCDU: C	ENG*	[0 to 250 / 0 / 0.1%]
7-905-093	Life Counter	Page(%): PCDU: M	ENG*	[0 to 250 / 0 / 0.1%]
7-905-094	Life Counter	Page(%): PCDU: Y	ENG*	[0 to 250 / 0 / 0.1%]
7-905-103	Life Counter	Page(%): ITB Unit	ENG*	[0 to 250 / 0 / 0.1%]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-905-105	Life Counter	Page(%): Fuser	ENG*	[0 to 250 / 0 / 0.1%]
7-905-108	Life Counter	Page(%): PTR Unit	ENG*	[0 to 250 / 0 / 0.1%]
7-906-001	Prev. Counter	Page: PCDU: Bk	ENG	[0 to 999999 / 0 / 1page]
7-906-002	Prev. Counter	Page: PCDU: C	ENG	[0 to 999999 / 0 / 1page]
7-906-003	Prev. Counter	Page: PCDU: M	ENG	[0 to 999999 / 0 / 1page]
7-906-004	Prev. Counter	Page: PCDU: Y	ENG	[0 to 999999 / 0 / 1page]
7-906-013	Prev. Counter	Page: ITB Unit	ENG	[0 to 999999 / 0 / 1page]
7-906-015	Prev. Counter	Page: Fusing Uint	ENG	[0 to 999999 / 0 / 1page]
7-906-018	Prev. Counter	Page: PTR Unit	ENG	[0 to 999999 / 0 / 1page]
7-906-031	Prev. Counter	Dist: PCDU: Bk	ENG	[0 to 999999999 / 0 / 1mm]
7-906-032	Prev. Counter	Dist: PCDU: C	ENG	[0 to 999999999 / 0 / 1mm]
7-906-033	Prev. Counter	Dist: PCDU: M	ENG	[0 to 999999999 / 0 / 1mm]
7-906-034	Prev. Counter	Dist: PCDU: Y	ENG	[0 to 999999999 / 0 / 1mm]
7-906-043	Prev. Counter	Dist: ITB Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-906-045	Prev. Counter	Dist: Fusing Unit	ENG	[0 to 999999999 / 0 / 1mm]
7-906-048	Prev. Counter	Dist: PTR	ENG	[0 to 999999999 / 0 / 1mm]
7-907-001	Life(%) Counter	PCDU: Bk	ENG*	[0 to 250 / 0 / 1%]
7-907-002	Life(%) Counter	PCDU: C	ENG*	[0 to 250 / 0 / 1%]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-907-003	Life(%) Counter	PCDU: M	ENG*	[0 to 250 / 0 / 1%]
7-907-004	Life(%) Counter	PCDU: Y	ENG*	[0 to 250 / 0 / 1%]
7-907-005	Life(%) Counter	PCDU: FC	ENG*	[0 to 250 / 0 / 1%]
7-907-013	Life(%) Counter	ITB Unit	ENG*	[0 to 250 / 0 / 1%]
7-907-014	Life(%) Counter	ITB&PTR Unit	ENG*	[0 to 250 / 0 / 1%]
7-907-015	Life(%) Counter	Fusing Uint	ENG*	[0 to 250 / 0 / 1%]
7-907-018	Life(%) Counter	PTR Unit	ENG*	[0 to 250 / 0 / 1%]
7-907-101	Life Counter	P Stop Dist(%): Bk	ENG*	[0 to 250 / 0 / 0.1%]
7-907-102	Life Counter	P Stop Dist(%): C	ENG*	[0 to 250 / 0 / 0.1%]
7-907-103	Life Counter	P Stop Dist(%): M	ENG*	[0 to 250 / 0 / 0.1%]
7-907-104	Life Counter	P Stop Dist(%): Y	ENG*	[0 to 250 / 0 / 0.1%]
7-931-001	Toner Bottle Bk	Machine Serial ID	ENG	[0 to 255 / 0 / 1]
7-931-002	Toner Bottle Bk	Cartridge Ver	ENG	[0 to 255 / 0 / 1]
7-931-003	Toner Bottle Bk	Brand ID	ENG	[0 to 255 / 0 / 1]
7-931-004	Toner Bottle Bk	Area ID	ENG	[0 to 255 / 0 / 1]
7-931-005	Toner Bottle Bk	Product ID	ENG	[0 to 255 / 0 / 1]
7-931-006	Toner Bottle Bk	Color ID	ENG	[0 to 255 / 0 / 1]
7-931-007	Toner Bottle Bk	Maintenance ID	ENG	[0 to 255 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-931-008	Toner Bottle Bk	New Info	ENG	[0 to 255 / 0 / 1]
7-931-009	Toner Bottle Bk	Recycle Counter	ENG	[0 to 255 / 0 / 1]
7-931-010	Toner Bottle Bk	Date	ENG	[0 to 255 / 0 / 1]
7-931-011	Toner Bottle Bk	SerialNo.	ENG	[0 to 255 / 0 / 1]
7-931-012	Toner Bottle Bk	Toner Remaining	ENG	[0 to 100 / 100 / 1%]
7-931-013	Toner Bottle Bk	EDP Code	ENG	[0 to 255 / 0 / 1]
7-931-014	Toner Bottle Bk	End History	ENG	[0 to 1 / 0 / 1]
7-931-015	Toner Bottle Bk	Refill Info	ENG	[0 to 99 / 0 / 1]
7-931-016	Toner Bottle Bk	Set: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-931-017	Toner Bottle Bk	Set: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-931-018	Toner Bottle Bk	End: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-931-019	Toner Bottle Bk	End: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-931-020	Toner Bottle Bk	Set Date	ENG	[0 to 255 / 0 / 1]
7-931-021	Toner Bottle Bk	End Date	ENG	[0 to 255 / 0 / 1]
7-932-001	Toner Bottle C	Machine Serial ID	ENG	[0 to 255 / 0 / 1]
7-932-002	Toner Bottle C	Cartridge Ver	ENG	[0 to 255 / 0 / 1]
7-932-003	Toner Bottle C	Brand ID	ENG	[0 to 255 / 0 / 1]
7-932-004	Toner Bottle C	Area ID	ENG	[0 to 255 / 0 / 1]
7-932-	Toner Bottle C	Product ID	ENG	[0 to 255 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
005				
7-932-006	Toner Bottle C	Color ID	ENG	[0 to 255 / 0 / 1]
7-932-007	Toner Bottle C	Maintenance ID	ENG	[0 to 255 / 0 / 1]
7-932-008	Toner Bottle C	New Info	ENG	[0 to 255 / 0 / 1]
7-932-009	Toner Bottle C	Recycle Counter	ENG	[0 to 255 / 0 / 1]
7-932-010	Toner Bottle C	Date	ENG	[0 to 255 / 0 / 1]
7-932-011	Toner Bottle C	SerialNo.	ENG	[0 to 255 / 0 / 1]
7-932-012	Toner Bottle C	Toner Remaining	ENG	[0 to 100 / 100 / 1%]
7-932-013	Toner Bottle C	EDP Code	ENG	[0 to 255 / 0 / 1]
7-932-014	Toner Bottle C	End History	ENG	[0 to 1 / 0 / 1]
7-932-015	Toner Bottle C	Refill Info	ENG	[0 to 99 / 0 / 1]
7-932-016	Toner Bottle C	Set: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-932-017	Toner Bottle C	Set: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-932-018	Toner Bottle C	End: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-932-019	Toner Bottle C	End: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-932-020	Toner Bottle C	Set Date	ENG	[0 to 255 / 0 / 1]
7-932-021	Toner Bottle C	End Date	ENG	[0 to 255 / 0 / 1]
7-933-001	Toner Bottle M	MachineSerialID	ENG	[0 to 255 / 0 / 1]
7-933-002	Toner Bottle M	Cartridge Ver	ENG	[0 to 255 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-933-003	Toner Bottle M	Brand ID	ENG	[0 to 255 / 0 / 1]
7-933-004	Toner Bottle M	Area ID	ENG	[0 to 255 / 0 / 1]
7-933-005	Toner Bottle M	Product ID	ENG	[0 to 255 / 0 / 1]
7-933-006	Toner Bottle M	Color ID	ENG	[0 to 255 / 0 / 1]
7-933-007	Toner Bottle M	Maintenance ID	ENG	[0 to 255 / 0 / 1]
7-933-008	Toner Bottle M	New Info	ENG	[0 to 255 / 0 / 1]
7-933-009	Toner Bottle M	Recycle Counter	ENG	[0 to 255 / 0 / 1]
7-933-010	Toner Bottle M	Date	ENG	[0 to 255 / 0 / 1]
7-933-011	Toner Bottle M	SerialNo.	ENG	[0 to 255 / 0 / 1]
7-933-012	Toner Bottle M	Toner Remaining	ENG	[0 to 100 / 100 / 1%]
7-933-013	Toner Bottle M	EDP Code	ENG	[0 to 255 / 0 / 1]
7-933-014	Toner Bottle M	End History	ENG	[0 to 1 / 0 / 1]
7-933-015	Toner Bottle M	Refill Info	ENG	[0 to 99 / 0 / 1]
7-933-016	Toner Bottle M	Set: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-933-017	Toner Bottle M	Set: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-933-018	Toner Bottle M	End: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-933-019	Toner Bottle M	End: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-933-020	Toner Bottle M	Set Date	ENG	[0 to 255 / 0 / 1]
7-933-	Toner Bottle M	End Date	ENG	[0 to 255 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
021				
7-934-001	Toner Bottle Y	MachineSerialID	ENG	[0 to 255 / 0 / 1]
7-934-002	Toner Bottle Y	Cartridge Ver	ENG	[0 to 255 / 0 / 1]
7-934-003	Toner Bottle Y	Brand ID	ENG	[0 to 255 / 0 / 1]
7-934-004	Toner Bottle Y	Area ID	ENG	[0 to 255 / 0 / 1]
7-934-005	Toner Bottle Y	Product ID	ENG	[0 to 255 / 0 / 1]
7-934-006	Toner Bottle Y	Color ID	ENG	[0 to 255 / 0 / 1]
7-934-007	Toner Bottle Y	Maintenance ID	ENG	[0 to 255 / 0 / 1]
7-934-008	Toner Bottle Y	New Info	ENG	[0 to 255 / 0 / 1]
7-934-009	Toner Bottle Y	Recycle Counter	ENG	[0 to 255 / 0 / 1]
7-934-010	Toner Bottle Y	Date	ENG	[0 to 255 / 0 / 1]
7-934-011	Toner Bottle Y	SerialNo.	ENG	[0 to 255 / 0 / 1]
7-934-012	Toner Bottle Y	Toner Remaining	ENG	[0 to 100 / 100 / 1%]
7-934-013	Toner Bottle Y	EDP Code	ENG	[0 to 255 / 0 / 1]
7-934-014	Toner Bottle Y	End History	ENG	[0 to 1 / 0 / 1]
7-934-015	Toner Bottle Y	Refill Info	ENG	[0 to 99 / 0 / 1]
7-934-016	Toner Bottle Y	Set: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-934-017	Toner Bottle Y	Set: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-934-018	Toner Bottle Y	End: Total Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-934-019	Toner Bottle Y	End: Color Cnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-934-020	Toner Bottle Y	Set Date	ENG	[0 to 1 / 0 / 1]
7-934-021	Toner Bottle Y	End Date	ENG	[0 to 1 / 0 / 1]
7-935-001	Toner Log : Bk	Log1:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-935-002	Toner Log : Bk	Log1:Set Date	ENG	[0 to 255 / 0 / 1]
7-935-003	Toner Log : Bk	Log1:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-935-004	Toner Log : Bk	Log1:Refill Info	ENG	[0 to 99 / 0 / 1]
7-935-005	Toner Log : Bk	Log2:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-935-006	Toner Log : Bk	Log2:Set Date	ENG	[0 to 255 / 0 / 1]
7-935-007	Toner Log : Bk	Log2:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-935-008	Toner Log : Bk	Log2:Refill Info	ENG	[0 to 1 / 0 / 1]
7-935-009	Toner Log : Bk	Log3:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-935-010	Toner Log : Bk	Log3:Set Date	ENG	[0 to 255 / 0 / 1]
7-935-011	Toner Log : Bk	Log3:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-935-012	Toner Log : Bk	Log3:Refill Info	ENG	[0 to 99 / 0 / 1]
7-935-013	Toner Log : Bk	Log4:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-935-014	Toner Log : Bk	Log4:Set Date	ENG	[0 to 255 / 0 / 1]
7-935-015	Toner Log : Bk	Log4:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-935-	Toner Log : Bk	Log4:Refill Info	ENG	[0 to 99 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
016				
7-935-017	Toner Log : Bk	Log5:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-935-018	Toner Log : Bk	Log5:Set Date	ENG	[0 to 255 / 0 / 1]
7-935-019	Toner Log : Bk	Log5:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-935-020	Toner Log : Bk	Log5:Refill Info	ENG	[0 to 99 / 0 / 1]
7-936-001	Toner Log : C	Log1:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-936-002	Toner Log : C	Log1:Set Date	ENG	[0 to 255 / 0 / 1]
7-936-003	Toner Log : C	Log1:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-936-004	Toner Log : C	Log1:Refill Info	ENG	[0 to 99 / 0 / 1]
7-936-005	Toner Log : C	Log2:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-936-006	Toner Log : C	Log2:Set Date	ENG	[0 to 255 / 0 / 1]
7-936-007	Toner Log : C	Log2:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-936-008	Toner Log : C	Log2:Refill Info	ENG	[0 to 99 / 0 / 1]
7-936-009	Toner Log : C	Log3:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-936-010	Toner Log : C	Log3:Set Date	ENG	[0 to 255 / 0 / 1]
7-936-011	Toner Log : C	Log3:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-936-012	Toner Log : C	Log3:Refill Info	ENG	[0 to 99 / 0 / 1]
7-936-013	Toner Log : C	Log4:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-936-014	Toner Log : C	Log4:Set Date	ENG	[0 to 255 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-936-015	Toner Log : C	Log4:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-936-016	Toner Log : C	Log4:Refill Info	ENG	[0 to 99 / 0 / 1]
7-936-017	Toner Log : C	Log5:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-936-018	Toner Log : C	Log5:Set Date	ENG	[0 to 255 / 0 / 1]
7-936-019	Toner Log : C	Log5:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-936-020	Toner Log : C	Log5:Refill Info	ENG	[0 to 99 / 0 / 1]
7-937-001	Toner Log : M	Log1:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-937-002	Toner Log : M	Log1:Set Date	ENG	[0 to 255 / 0 / 1]
7-937-003	Toner Log : M	Log1:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-937-004	Toner Log : M	Log1:Refill Info	ENG	[0 to 99 / 0 / 1]
7-937-005	Toner Log : M	Log2:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-937-006	Toner Log : M	Log2:Set Date	ENG	[0 to 255 / 0 / 1]
7-937-007	Toner Log : M	Log2:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-937-008	Toner Log : M	Log2:Refill Info	ENG	[0 to 99 / 0 / 1]
7-937-009	Toner Log : M	Log3:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-937-010	Toner Log : M	Log3:Set Date	ENG	[0 to 255 / 0 / 1]
7-937-011	Toner Log : M	Log3:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-937-012	Toner Log : M	Log3:Refill Info	ENG	[0 to 99 / 0 / 1]
7-937-	Toner Log : M	Log4:SerialNo.	ENG	[0 to 255 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
013				
7-937-014	Toner Log : M	Log4:Set Date	ENG	[0 to 255 / 0 / 1]
7-937-015	Toner Log : M	Log4:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-937-016	Toner Log : M	Log4:Refill Info	ENG	[0 to 99 / 0 / 1]
7-937-017	Toner Log : M	Log5:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-937-018	Toner Log : M	Log5:Set Date	ENG	[0 to 255 / 0 / 1]
7-937-019	Toner Log : M	Log5:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-937-020	Toner Log : M	Log5:Refill Info	ENG	[0 to 99 / 0 / 1]
7-938-001	Toner Log : Y	Log1:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-938-002	Toner Log : Y	Log1:Set Date	ENG	[0 to 255 / 0 / 1]
7-938-003	Toner Log : Y	Log1:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-938-004	Toner Log : Y	Log1:Refill Info	ENG	[0 to 99 / 0 / 1]
7-938-005	Toner Log : Y	Log2:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-938-006	Toner Log : Y	Log2:Set Date	ENG	[0 to 255 / 0 / 1]
7-938-007	Toner Log : Y	Log2:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-938-008	Toner Log : Y	Log2:Refill Info	ENG	[0 to 99 / 0 / 1]
7-938-009	Toner Log : Y	Log3:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-938-010	Toner Log : Y	Log3:Set Date	ENG	[0 to 255 / 0 / 1]
7-938-011	Toner Log : Y	Log3:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-938-012	Toner Log : Y	Log3:Refill Info	ENG	[0 to 99 / 0 / 1]
7-938-013	Toner Log : Y	Log4:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-938-014	Toner Log : Y	Log4:Set Date	ENG	[0 to 255 / 0 / 1]
7-938-015	Toner Log : Y	Log4:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-938-016	Toner Log : Y	Log4:Refill Info	ENG	[0 to 99 / 0 / 1]
7-938-017	Toner Log : Y	Log5:SerialNo.	ENG	[0 to 255 / 0 / 1]
7-938-018	Toner Log : Y	Log5:Set Date	ENG	[0 to 255 / 0 / 1]
7-938-019	Toner Log : Y	Log5:Set:TotalCnt	ENG	[0 to 0xFFFFFFFF / 0 / 1]
7-938-020	Toner Log : Y	Log5:Refill Info	ENG	[0 to 99 / 0 / 1]
7-952-021	PM Yield Setting	Day Thres:PCDU: K	ENG	[0 to 2 / 1 / 1]
7-952-022	PM Yield Setting	Day Thres:PCDU:FC	ENG	[0 to 2 / 1 / 1]
7-952-033	PM Yield Setting	Day Thres:Trans	ENG	[0 to 2 / 1 / 1]
7-952-035	PM Yield Setting	Day Thres:Fuser	ENG	[0 to 2 / 1 / 1]
7-952-071	PM Yield Setting	Day Rate:Trans	ENG	[0.1 to 25.5 / 0.1 / 0.1%]
7-952-073	PM Yield Setting	Day Rate:Fuser	ENG	[0.1 to 25.5 / 0.1 / 0.1%]
7-952-076	PM Yield Setting	Day Rate:PTR	ENG	[0.1 to 25.5 / 0.1 / 0.1%]
7-961-001	Scan Unit Counter	HP Sensor	ENG*	[0 to 9999999 / 0 / 1]
7-961-002	Scan Unit Counter	DFP Sensor	ENG*	[0 to 9999999 / 0 / 1]

## Controller SP Tables

### SP5-XXX (Mode)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-009-201	Add display language	1-8	CTL*	[0 to 255 / 0 / 1]
5-009-202	Add display language	9-16	CTL*	[0 to 255 / 0 / 1]
5-009-203	Add display language	17-24	CTL*	[0 to 255 / 0 / 1]
5-009-204	Add display language	25-32	CTL*	[0 to 255 / 0 / 1]
5-009-205	Add display language	33-40	CTL*	[0 to 255 / 0 / 1]
5-009-206	Add display language	41-48	CTL*	[0 to 255 / 0 / 1]
5-009-207	Add display language	49-56	CTL*	[0 to 255 / 0 / 1]
5-024-001	mm/inch Display Selection	0:mm 1:inch	CTL*	[0 to 1 / * / 1] NA:1 EU/AP/CHN/TWN/KOR: 0
5-045-001	Accounting counter	Counter Method	CTL*	[0 to 7 / 0 / 1]
5-047-001	Paper Display	Backing Paper	CTL*	[0 to 1 / 0 / 1]
5-	TonerRefillDetectionDisplay		CTL*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
051-001				
5-055-001	Display IP address		CTL*	[0 to 1 / 0 / 1]
5-071-001	Set Bypass Paper Size Display		CTL*	[0 to 1 / 0 / 1]
5-074-002	Home Key Customization	Login Setting	CTL*	[0 to 255 / 0 / 1]
5-074-050	Home Key Customization	Show Home Edit Menu	CTL	[0 to 2 / 0 / 1]
5-074-091	Home Key Customization	Function Setting	CTL*	[0 to 2 / 0 / 1]
5-074-092	Home Key Customization	Product ID	CTL*	[0 to 0xffffffff / 0 / 1]
5-074-093	Home Key Customization	Application Screen ID	CTL*	[0 to 255 / 0 / 1]
5-081-001	ServiceSP Entry Code Setting		CTL*	[0 to 0 / 0 / 0]
5-083-001	LED Light Switch Setting	Toner Near End	CTL*	[0 to 1 / 0 / 1]
5-083-002	LED Light Switch Setting	Waste Toner Near End	CTL*	[0 to 1 / 0 / 1]
5-101-202	Copy Auto Clear Setting	Auto Clear Timer Setting (0:ON 1:OFF)	CTL*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-118-001	Disable Copying		CTL*	[0 to 1 / 0 / 1]
5-121-001	Counter Up Timing	0:Feed 1:Exit	CTL*	[0 to 1 / 0 / 1]
5-127-001	APS Mode		CTL*	[0 to 1 / 0 / 1]
5-169-001	CE Login		CTL*	[0 to 1 / 0 / 1]
5-188-001	Copy Nv Version		CTL*	[0 to 0 / 0 / 0]
5-191-002	Mode Set	Power Low Clock Mode	CTL*	[0 to 1 / 1 / 1]
5-195-001	Limitless SW		CTL*	[0 to 1 / 0 / 1]
5-302-002	Set Time	Time Difference	CTL*	[-1440 to 1440 / * / 1] NA: -300 EU/AP:60 CHN/TWN:480 KOR:540
5-305-101	Auto Off Set	Auto Off Limit Set	CTL*	[0 to 1 / 0 / 1]
5-307-001	Daylight Saving Time	Setting	CTL*	[0 to 1 / * / 1] NA/EU:1 AP/CHN/TWN:0
5-307-003	Daylight Saving Time	Rule Set(Start)	CTL*	[0 to 0xffffffff / * / 1] NA:0x03200210 EU:0x03500010 AP:0x10500010

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
				CHN/TWN/KOR:0
5-307-004	Daylight Saving Time	Rule Set(End)	CTL*	[0 to 0xffffffff / * / 1] NA:0x11100200 EU:0x10500100 AP:0x03100000 CHN/TWN/KOR:0
5-401-103	Access Control	Default Document ACL	CTL*	[0 to 3 / 0 / 1]
5-401-104	Access Control	Authentication Time	CTL*	[0 to 255 / 0 / 1sec]
5-401-162	Access Control	Extend Certification Detail	CTL*	[0 to 0xff / 0 / 1]
5-401-200	Access Control	SDK1 UniqueID	CTL*	[0 to 0xFFFFFFFF / 0 / 1]
5-401-201	Access Control	SDK1 Certification Method	CTL*	[0 to 0xFF / 0 / 1]
5-401-210	Access Control	SDK2 UniqueID	CTL*	[0 to 0xFFFFFFFF / 0 / 1]
5-401-211	Access Control	SDK2 Certification Method	CTL*	[0 to 0xFF / 0 / 1]
5-401-220	Access Control	SDK3 UniqueID	CTL*	[0 to 0xFFFFFFFF / 0 / 1]
5-401-221	Access Control	SDK3 Certification Method	CTL*	[0 to 0xFF / 0 / 1]
5-401-230	Access Control	SDK Certification Device	CTL*	[0 to 0xff / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-401-240	Access Control	Detail Option	CTL*	[0 to 0xff / 0 / 1]
5-404-001	User Code Count Clear	User Code Count Clear	CTL	[0 to 0 / 0 / 0]
5-404-101	User Code Count Clear	User Code Count Clear Permit Setting	CTL*	[0 to 1 / 0 / 1]
5-411-004	LDAP-Certification	Simplified Authentication	CTL*	[0 to 1 / 1 / 1]
5-411-005	LDAP-Certification	Password Null Not Permit	CTL*	[0 to 1 / 1 / 1]
5-411-006	LDAP-Certification	Detail Option	CTL*	[0 to 0xff / 0 / 1]
5-412-100	Krb-Certification	Encrypt Mode	CTL*	[0 to 0xFF / 0x1F / 1]
5-413-001	Lockout Setting	Lockout On/Off	CTL*	[0 to 1 / 0 / 1]
5-413-002	Lockout Setting	Lockout Threshold	CTL*	[1 to 10 / 5 / 1]
5-413-003	Lockout Setting	Cancelation On/Off	CTL*	[0 to 1 / 0 / 1]
5-413-004	Lockout Setting	Cancelation Time	CTL*	[1 to 9999 / 60 / 1min]
5-414-001	Access Mitigation	Mitigation On/Off	CTL*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-414-002	Access Mitigation	Mitigation Time	CTL*	[0 to 60 / 15 / 1min]
5-415-001	Password Attack	Permissible Number	CTL*	[0 to 100 / 30 / 1]
5-415-002	Password Attack	Detect Time	CTL*	[1 to 10 / 5 / 1]
5-416-001	Access Information	Access User Max Num	CTL*	[50 to 200 / 200 / 1]
5-416-002	Access Information	Access Password Max Num	CTL*	[50 to 200 / 200 / 1]
5-416-003	Access Information	Monitor Interval	CTL*	[1 to 10 / 3 / 1]
5-417-001	Access Attack	Access Permissible Number	CTL*	[0 to 500 / 100 / 1]
5-417-002	Access Attack	Attack Detect Time	CTL*	[10 to 30 / 10 / 1sec]
5-417-003	Access Attack	Productivity Fall Waite	CTL*	[0 to 9 / 3 / 1sec]
5-417-004	Access Attack	Attack Max Num	CTL*	[50 to 200 / 200 / 1]
5-420-001	User Authentication	Copy	CTL*	[0 to 1 / 0 / 1]
5-420-002	User Authentication	Color Security Setting	CTL	[0 to 255 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-420-011	User Authentication	DocumentServer	CTL*	[0 to 1 / 0 / 1]
5-420-021	User Authentication	Fax	CTL*	[0 to 1 / 0 / 1]
5-420-031	User Authentication	Scanner	CTL*	[0 to 1 / 0 / 1]
5-420-041	User Authentication	Printer	CTL*	[0 to 1 / 0 / 1]
5-420-051	User Authentication	SDK1	CTL*	[0 to 1 / 0 / 1]
5-420-061	User Authentication	SDK2	CTL*	[0 to 1 / 0 / 1]
5-420-071	User Authentication	SDK3	CTL*	[0 to 1 / 0 / 1]
5-420-081	User Authentication	Browser	CTL*	[0 to 1 / 0 / 1]
5-430-001	Auth Dialog Message Change	Message Change On/Off	CTL*	[0 to 1 / 0 / 1]
5-430-002	Auth Dialog Message Change	Message Text Download	CTL*	[0 to 0 / 0 / 0]
5-430-003	Auth Dialog Message Change	Message Text ID	CTL*	[0 to 0 / 0 / 0]
5-431-010	External Auth User Preset	Tag	CTL*	[0 to 1 / 1 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-431-011	External Auth User Preset	Entry	CTL*	[0 to 1 / 1 / 1]
5-431-012	External Auth User Preset	Group	CTL*	[0 to 1 / 1 / 1]
5-431-020	External Auth User Preset	Mail	CTL*	[0 to 1 / 1 / 1]
5-431-030	External Auth User Preset	Fax	CTL*	[0 to 1 / 1 / 1]
5-431-031	External Auth User Preset	FaxSub	CTL*	[0 to 1 / 1 / 1]
5-431-032	External Auth User Preset	Folder	CTL*	[0 to 1 / 1 / 1]
5-431-033	External Auth User Preset	ProtectCode	CTL*	[0 to 1 / 1 / 1]
5-431-034	External Auth User Preset	SmtphAuth	CTL*	[0 to 1 / 1 / 1]
5-431-035	External Auth User Preset	LdapAuth	CTL*	[0 to 1 / 1 / 1]
5-431-036	External Auth User Preset	Smb Ftp Fldr Auth	CTL*	[0 to 1 / 1 / 1]
5-431-037	External Auth User Preset	AcntAcl	CTL*	[0 to 1 / 1 / 1]
5-431-038	External Auth User Preset	DocumentAcl	CTL*	[0 to 1 / 1 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-431-040	External Auth User Preset	CertCrypt	CTL*	[0 to 1 / 0 / 1]
5-481-001	Authentication Error Code	System Log Disp	CTL*	[0 to 1 / 0 / 1]
5-481-002	Authentication Error Code	Panel Disp	CTL*	[0 to 1 / 1 / 1]
5-490-001	MF KeyCard	Job Permit Setting	CTL*	[0 to 1 / 0 / 1]
5-490-002	MF KeyCard	Count Mode Setting	CTL*	[0 to 1 / 0 / 1]
5-501-001	PM Alarm	PM Alarm Level	CTL*	[0 to 9999 / 0 / 1]
5-501-002	PM Alarm	Original Count Alarm	CTL*	[0 to 1 / 0 / 1]
5-504-001	Jam Alarm		CTL*	[0 to 3 / 3 / 1]
5-504-002	Jam Alarm	Threshold	CTL*	[1 to 99 / 10 / 1]
5-505-001	Error Alarm		CTL*	[0 to 255 / 19 / 1]
5-505-002	Error Alarm	Threshold	CTL*	[1 to 99 / 5 / 1]
5-507-001	Supply/CC Alarm	Paper Supply Alarm	CTL*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-507-003	Supply/CC Alarm	Toner Supply Alarm	CTL*	[0 to 1 / 1 / 1]
5-507-005	Supply/CC Alarm	DrumLifeRemain Supply Alarm	CTL*	[0 to 1 / 1 / 1]
5-507-006	Supply/CC Alarm	WasteTonerBottle Supply Alarm	CTL*	[0 to 1 / 1 / 1]
5-507-007	Supply/CC Alarm	Tensya Supply Alarm	CTL*	[0 to 1 / 1 / 1]
5-507-008	Supply/CC Alarm	Fuser Supply Alarm	CTL*	[0 to 1 / 1 / 1]
5-507-080	Supply/CC Alarm	Toner Call Timing	CTL*	[0 to 1 / 0 / 1]
5-507-081	Supply/CC Alarm	Toner Call Threshold	CTL*	[10 to 90 / 10 / 10%]
5-507-128	Supply/CC Alarm	Interval: Others	CTL*	[250 to 10000 / 1000 / 1]
5-507-133	Supply/CC Alarm	Interval: A4	CTL*	[250 to 10000 / 1000 / 1]
5-507-134	Supply/CC Alarm	Interval: A5	CTL*	[250 to 10000 / 1000 / 1]
5-507-142	Supply/CC Alarm	Interval: B5	CTL*	[250 to 10000 / 1000 / 1]
5-507-164	Supply/CC Alarm	Interval: LG	CTL*	[250 to 10000 / 1000 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-507-166	Supply/CC Alarm	Interval: LT	CTL*	[250 to 10000 / 1000 / 1]
5-507-172	Supply/CC Alarm	Interval: HLT	CTL*	[250 to 10000 / 1000 / 1]
5-508-001	CC Call	Jam Remains	CTL*	[0 to 1 / 1 / 1]
5-508-002	CC Call	Continuous Jams	CTL*	[0 to 1 / 1 / 1]
5-508-003	CC Call	Continuous Door Open	CTL*	[0 to 1 / 1 / 1]
5-508-011	CC Call	Jam Detection: Time Length	CTL*	[3 to 30 / 10 / 1]
5-508-012	CC Call	Jam Detection: Continuous Count	CTL*	[2 to 10 / 5 / 1]
5-508-013	CC Call	Door Open: Time Length	CTL*	[3 to 30 / 10 / 1]
5-515-001	SC/Alarm Setting	SC Call	CTL*	[0 to 1 / 1 / 1]
5-515-002	SC/Alarm Setting	Service Parts Near End Call	CTL*	[0 to 1 / 1 / 1]
5-515-003	SC/Alarm Setting	Service Parts End Call	CTL*	[0 to 1 / 1 / 1]
5-515-004	SC/Alarm Setting	User Call	CTL*	[0 to 1 / 1 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-515-006	SC/Alarm Setting	Communication Test Call	CTL*	[0 to 1 / 1 / 1]
5-515-007	SC/Alarm Setting	Machine Information Notice	CTL*	[0 to 1 / 1 / 1]
5-515-008	SC/Alarm Setting	Alarm Notice	CTL*	[0 to 1 / 1 / 1]
5-515-009	SC/Alarm Setting	Non Genuine Tonner Ararm	CTL*	[0 to 1 / 1 / 1]
5-515-010	SC/Alarm Setting	Supply Automatic Ordering Call	CTL*	[0 to 1 / 1 / 1]
5-515-011	SC/Alarm Setting	Supply Management Report Call	CTL*	[0 to 1 / 1 / 1]
5-515-012	SC/Alarm Setting	Jam/Door Open Call	CTL*	[0 to 1 / 1 / 1]
5-515-050	SC/Alarm Setting	Timeout:Manual Call	CTL*	[1 to 255 / 5 / 1min]
5-515-051	SC/Alarm Setting	Timeout:Other Call	CTL*	[1 to 255 / 10 / 1min]
5-517-061	Get Machine Information	AutoDiscovery Execution Setting	CTL	[0 to 1 / 0 / 1]
5-517-062	Get Machine Information	AutoDiscovery Execution Interval	CTL	[0 to 1 / 0 / 1]
5-517-063	Get Machine Information	AutoDiscovery Execution Weekday	CTL	[0 to 6 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-517-064	Get Machine Information	AutoDiscovery Execution Hour	CTL	[0 to 23 / 0 / 1]
5-517-065	Get Machine Information	AutoDiscovery Execution Minute	CTL	[0 to 59 / 0 / 1]
5-517-066	Get Machine Information	AutoDiscovery SNMP Community Name	CTL*	[0 to 0 / 0 / 0]
5-728-001	Network Setting	NAT Machine Port1	CTL*	[1 to 65535 / 49101 / 1]
5-728-002	Network Setting	NAT UI Port1	CTL*	[1 to 65535 / 55101 / 1]
5-728-003	Network Setting	NAT Machine Port2	CTL*	[1 to 65535 / 49102 / 1]
5-728-004	Network Setting	NAT UI Port2	CTL*	[1 to 65535 / 55102 / 1]
5-728-005	Network Setting	NAT Machine Port3	CTL*	[1 to 65535 / 49103 / 1]
5-728-006	Network Setting	NAT UI Port3	CTL*	[1 to 65535 / 55103 / 1]
5-728-007	Network Setting	NAT Machine Port4	CTL*	[1 to 65535 / 49104 / 1]
5-728-008	Network Setting	NAT UI Port4	CTL*	[1 to 65535 / 55104 / 1]
5-728-009	Network Setting	NAT Machine Port5	CTL*	[1 to 65535 / 49105 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-728-010	Network Setting	NAT UI Port5	CTL*	[1 to 65535 / 55105 / 1]
5-728-011	Network Setting	NAT Machine Port6	CTL*	[1 to 65535 / 49106 / 1]
5-728-012	Network Setting	NAT UI Port6	CTL*	[1 to 65535 / 55106 / 1]
5-728-013	Network Setting	NAT Machine Port7	CTL*	[1 to 65535 / 49107 / 1]
5-728-014	Network Setting	NAT UI Port7	CTL*	[1 to 65535 / 55107 / 1]
5-728-015	Network Setting	NAT Machine Port8	CTL*	[1 to 65535 / 49108 / 1]
5-728-016	Network Setting	NAT UI Port8	CTL*	[1 to 65535 / 55108 / 1]
5-728-017	Network Setting	NAT Machine Port9	CTL*	[1 to 65535 / 49109 / 1]
5-728-018	Network Setting	NAT UI Port9	CTL*	[1 to 65535 / 55109 / 1]
5-728-019	Network Setting	NAT Machine Port10	CTL*	[1 to 65535 / 49110 / 1]
5-728-020	Network Setting	NAT UI Port10	CTL*	[1 to 65535 / 55110 / 1]
5-731-001	Counter Effect	Change Mk1 Cnt(Paper->Combine)	CTL*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-748-101	OpePanel Setting	Op Type Action Setting	CTL	[0 to 255 / 0 / 1]
5-749-001	Import/Export	Export	CTL	[0 to 0 / 0 / 0]
5-749-101	Import/Export	Import	CTL	[0 to 0 / 0 / 0]
5-752-001	Copy:WebAPI Setting	Copy:FlairAPI Setting	CTL*	[0 to 255 / 0 / 1]
5-755-001	Display Setting	Disp Administrator Password Change Scrn	CTL	[0 to 0 / 0 / 0]
5-755-002	Display Setting	Hide Administrator Password Change Scrn	CTL	[0 to 0 / 0 / 0]
5-758-001	RemoteUI Setting	Authentication	CTL*	[0 to 1 / 0 / 1]
5-759-001	Machine Limit Count	Machine Limit Count Setting	CTL*	[0 to 1 / 0 / 1]
5-759-061	Machine Limit Count	Full Color Limit Count	CTL*	[0 to 99999999 / 0 / 1]
5-759-062	Machine Limit Count	Mono Color Limit Count	CTL*	[0 to 99999999 / 0 / 1]
5-761-001	SmartOperationPanel Setting	Restore the default Home screen	CTL	[0 to 255 / 0 / 1]
5-761-007	SmartOperationPanel Setting	Introduction Setting Boot Mode	CTL	[0 to 255 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-764-001	NFC Setting	GuestNetwork	CTL*	[0 to 1 / 0 / 1]
5-764-002	NFC Setting	Encrypted Communication Permission	CTL*	[0 to 1 / 0 / 1]
5-764-003	NFC Setting	Access Port1	CTL*	[0 to 65535 / 8081 / 1]
5-764-004	NFC Setting	Access Port2	CTL*	[0 to 65535 / 8080 / 1]
5-764-005	NFC Setting	Access Port3	CTL*	[0 to 65535 / 80 / 1]
5-801-001	Memory Clear	All Clear	CTL	[0 to 0 / 0 / 0]
5-801-003	Memory Clear	SCS	CTL	[0 to 0 / 0 / 0]
5-801-004	Memory Clear	IMH Memory Clr	CTL	[0 to 0 / 0 / 0]
5-801-005	Memory Clear	MCS	CTL	[0 to 0 / 0 / 0]
5-801-006	Memory Clear	Copier application	CTL	[0 to 0 / 0 / 0]
5-801-007	Memory Clear	Fax Application	CTL	[0 to 0 / 0 / 0]
5-801-008	Memory Clear	Printer Application	CTL	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-801-009	Memory Clear	Scanner Application	CTL	[0 to 0 / 0 / 0]
5-801-010	Memory Clear	Web Service	CTL	[0 to 0 / 0 / 0]
5-801-011	Memory Clear	NCS	CTL	[0 to 0 / 0 / 0]
5-801-012	Memory Clear	R-FAX	CTL	[0 to 0 / 0 / 0]
5-801-014	Memory Clear	Clear DCS Setting	CTL	[0 to 0 / 0 / 0]
5-801-015	Memory Clear	Clear UCS Setting	CTL	[0 to 0 / 0 / 0]
5-801-016	Memory Clear	MIRS Setting	CTL	[0 to 0 / 0 / 0]
5-801-017	Memory Clear	CCS	CTL	[0 to 0 / 0 / 0]
5-801-018	Memory Clear	SRM Memory Clr	CTL	[0 to 0 / 0 / 0]
5-801-019	Memory Clear	LCS	CTL	[0 to 0 / 0 / 0]
5-801-021	Memory Clear	ECS	CTL	[0 to 0 / 0 / 0]
5-801-025	Cleaer Memory	websys	CTL	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-801-027	Memory Clear	SAS	CTL	[0 to 0 / 0 / 0]
5-801-028	Memory Clear	Rest Webservice	CTL	[0 to 0 / 0 / 0]
5-812-001	Service Tel. No. Setting	Service	CTL*	[0 to 0 / 0 / 0]
5-812-002	Service Tel. No. Setting	Facsimile	CTL*	[0 to 0 / 0 / 0]
5-812-003	Service Tel. No. Setting	Supply	CTL*	[0 to 0 / 0 / 0]
5-812-004	Service Tel. No. Setting	Operation	CTL*	[0 to 0 / 0 / 0]
5-812-101	Service Tel. No. Setting	Disp Inquiry	CTL*	[0 to 1 / 0 / 1]
5-816-001	Remote Service	I/F Setting	CTL*	[0 to 2 / 2 / 1]
5-816-002	Remote Service	CE Call	CTL*	[0 to 1 / 0 / 1]
5-816-003	Remote Service	Function Flag	CTL*	[0 to 1 / 0 / 1]
5-816-007	Remote Service	SSL Disable	CTL*	[0 to 1 / 0 / 1]
5-816-008	Remote Service	RCG Connect Timeout	CTL*	[1 to 90 / 30 / 1sec]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-009	Remote Service	RCG Write Timeout	CTL*	[0 to 100 / 60 / 1sec]
5-816-010	Remote Service	RCG Read Timeout	CTL*	[0 to 100 / 60 / 1sec]
5-816-011	Remote Service	Port 80 Enable	CTL*	[0 to 1 / 0 / 1]
5-816-013	Remote Service	RFU Timing	CTL*	[0 to 1 / 1 / 1]
5-816-014	Remote Service	RCG Error Cause	CTL	[0 to 2 / 0 / 1]
5-816-021	Remote Service	RCG-C Registered	CTL*	[0 to 1 / 0 / 1]
5-816-023	Remote Service	Connect Type(N/M/3G)	CTL*	[0 to 2 / 0 / 1]
5-816-061	Remote Service	Cert Expire Timing	CTL*	[0 to 0 / 0 / 1]
5-816-062	Remote Service	Use Proxy	CTL*	[0 to 1 / 0 / 1]
5-816-063	Remote Service	Proxy Host	CTL*	[0 to 0 / 0 / 0]
5-816-064	Remote Service	Proxy PortNumber	CTL*	[0 to 0xffff / 0 / 1]
5-816-065	Remote Service	Proxy User Name	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-066	Remote Service	Proxy Password	CTL*	[0 to 0 / 0 / 0]
5-816-067	Remote Service	CERT:Up State	CTL*	[0 to 255 / 0 / 1]
5-816-068	Remote Service	CERT:Error	CTL*	[0 to 255 / 0 / 1]
5-816-069	Remote Service	CERT:Up ID	CTL*	[0 to 0 / 0 / 0]
5-816-083	Remote Service	Firm Up Status	CTL*	[0 to 1 / 0 / 1]
5-816-085	Remote Service	Firm Up User Check	CTL*	[0 to 1 / 0 / 1]
5-816-086	Remote Service	Firmware Size	CTL*	[0 to 0xffffffff / 0 / 1]
5-816-087	Remote Service	CERT:Macro Ver.	CTL	[0 to 0 / 0 / 0]
5-816-088	Remote Service	CERT:PAC Ver.	CTL	[0 to 0 / 0 / 0]
5-816-089	Remote Service	CERT:ID2Code	CTL	[0 to 0 / 0 / 0]
5-816-090	Remote Service	CERT:Subject	CTL	[0 to 0 / 0 / 0]
5-816-091	Remote Service	CERT:SerialNo.	CTL	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-092	Remote Service	CERT:Issuer	CTL	[0 to 0 / 0 / 0]
5-816-093	Remote Service	CERT:Valid Start	CTL	[0 to 0 / 0 / 0]
5-816-094	Remote Service	CERT:Valid End	CTL	[0 to 0 / 0 / 0]
5-816-102	Remote Service	CERT:Encrypt Level	CTL*	[1 to 2 / 1 / 1]
5-816-103	Remote Service	Client Communication Method	CTL*	[0 to 3 / 0 / 1]
5-816-104	Remote Service	Client Communication Limit	CTL*	[1 to 7 / 7 / 1]
5-816-115	Remote Service	Network Information Waiting timer	CTL*	[5 to 255 / 5 / 1sec]
5-816-190	Remote Service	3G DongleID	CTL*	[0 to 0 / 0 / 0]
5-816-200	Remote Service	Manual Polling	CTL	[0 to 1 / 0 / 1]
5-816-201	Remote Service	Regist Status	CTL	[0 to 255 / 0 / 1]
5-816-202	Remote Service	Letter Number	CTL	[0 to 0 / 0 / 0]
5-816-203	Remote Service	Confirm Execute	CTL	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-204	Remote Service	Confirm Result	CTL	[0 to 255 / 0 / 1]
5-816-205	Remote Service	Confirm Place	CTL	[0 to 1 / 0 / 1]
5-816-206	Remote Service	Register Execute	CTL	[0 to 1 / 0 / 1]
5-816-207	Remote Service	Register Result	CTL	[0 to 255 / 0 / 1]
5-816-208	Remote Service	Error Code	CTL	[-2147483647 to 2147483647 / 0 / 0]
5-816-209	Remote Service	Instl Clear	CTL	[0 to 1 / 0 / 1]
5-816-240	Remote Service	CommErrorTime	CTL	[0 to 0 / 0 / 1]
5-816-241	Remote Service	CommErrorCode 1	CTL*	[0 to 0xffffffff / 0x00000000 / 1]
5-816-242	Remote Service	CommErrorCode 2	CTL*	[0 to 0xffffffff / 0x00000000 / 1]
5-816-243	Remote Service	CommErrorCode 3	CTL*	[0 to 0xffffffff / 0x00000000 / 1]
5-816-244	Remote Service	CommErrorState 1	CTL*	[0 to 0xffff / 0x0000 / 1]
5-816-245	Remote Service	CommErrorState 2	CTL*	[0 to 0xffff / 0x0000 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-816-246	Remote Service	CommErrorState 3	CTL*	[0 to 0xffff / 0x0000 / 1]
5-816-247	Remote Service	SSL Error Count	CTL*	[0 to 255 / 0 / 1]
5-816-248	Remote Service	Other Err Count	CTL*	[0 to 255 / 0 / 1]
5-816-250	Remote Service	CommLog Print	CTL	[0 to 255 / 0 / 0]
5-821-002	Remote Service RCG Setting	RCG IPv4 Address	CTL*	[0 to 0xffffffff / 0 / 1]
5-821-003	Remote Service RCG Setting	RCG Port	CTL*	[0 to 65535 / 443 / 1]
5-821-004	Remote Service RCG Setting	RCG IPv4 URL Path	CTL*	[0 to 0 / 0 / 0]
5-821-005	Remote Service RCG Setting	RCG IPv6 Address	CTL*	[0 to 0 / 0 / 0]
5-821-006	Remote Service RCG Setting	RCG IPv6 URL Path	CTL*	[0 to 0 / 0 / 0]
5-821-007	Remote Service RCG Setting	RCG Host Name	CTL*	[0 to 0 / 0 / 0]
5-821-008	Remote Service RCG Setting	RCG Host URL Path	CTL*	[0 to 0 / 0 / 0]
5-824-001	NV-RAM Data Upload		CTL	[0 to 0 / 0 / 0]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-825-001	NV-RAM Data Download		CTL	[0 to 0 / 0 / 0]
5-828-065	Network Setting	Job Spooling	CTL*	[0 to 1 / 0 / 1]
5-828-066	Network Setting	Job Spooling Clear: Start Time	CTL*	[0 to 1 / 1 / 1]
5-828-069	Network Setting	Job Spooling (Protocol)	CTL*	[0x00 to 0xff / 0x7f / 0]
5-828-087	Network Setting	Protocol usage	CTL*	[0x00000000 to 0xffffffff / 0x00000000 / 1]
5-828-090	Network Setting	TELNET(0:OFF 1:ON)	CTL*	[0 to 1 / 1 / 1]
5-828-091	Network Setting	Web(0:OFF 1:ON)	CTL*	[0 to 1 / 1 / 1]
5-828-145	Network Setting	Active IPv6 Link Local Address	CTL	[0 to 0 / 0 / 0]
5-828-147	Network Setting	Active IPv6 Stateless Address 1	CTL	[0 to 0 / 0 / 0]
5-828-149	Network Setting	Active IPv6 Stateless Address 2	CTL	[0 to 0 / 0 / 0]
5-828-151	Network Setting	Active IPv6 Stateless Address 3	CTL	[0 to 0 / 0 / 0]
5-828-153	Network Setting	Active IPv6 Stateless Address 4	CTL	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-828-155	Network Setting	Active IPv6 Stateless Address 5	CTL	[0 to 0 / 0 / 0]
5-828-156	Network Setting	IPv6 Manual Address	CTL*	[0 to 0 / 0 / 0]
5-828-158	Network Setting	IPv6 Gateway Address	CTL*	[0 to 0 / 0 / 0]
5-828-161	Network Setting	IPv6 Stateless Auto Setting	CTL*	[0 to 1 / 1 / 1]
5-828-236	Network Setting	Web Item visible	CTL*	[0x0000 to 0xffff / 0xffff / 1]
5-828-237	Network Setting	Web shopping link visible	CTL*	[0 to 1 / 1 / 1]
5-828-238	Network Setting	Web Supplies Link visible	CTL*	[0 to 1 / 1 / 1]
5-828-239	Network Setting	Web Link1 Name	CTL*	[0 to 0 / 0 / 0]
5-828-240	Network Setting	Web Link1 URL	CTL*	[0 to 0 / 0 / 0]
5-828-241	Network Setting	Web Link1 visible	CTL*	[0 to 1 / 1 / 1]
5-828-242	Network Setting	Web Link2 Name	CTL*	[0 to 0 / 0 / 0]
5-828-243	Network Setting	Web Link2 URL	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-828-244	Network Setting	Web Link2 visible	CTL*	[0 to 1 / 1 / 1]
5-828-249	Network Setting	DHCPv6 DUID	CTL	[0 to 0 / 0 / 0]
5-832-002	HDD	HDD Formatting (IMH)	CTL*	[0 to 0 / 0 / 0]
5-840-006	IEEE 802.11	Channel MAX	CTL*	[1 to 14 / 14 / 1]
5-840-007	IEEE 802.11	Channel MIN	CTL*	[1 to 14 / 1 / 1]
5-840-011	IEEE 802.11	WEP Key Select	CTL*	[0x00 to 0x11 / 0x00 / 0]
5-840-045	IEEE 802.11	WPA Debug Lvl	CTL*	[1 to 3 / 3 / 1]
5-840-046	IEEE 802.11	11w	CTL*	[0 to 2 / 0 / 1]
5-840-047	IEEE 802.11	PSK Set Type	CTL*	[0 to 1 / 0 / 1]
5-841-001	Supply Name Setting	Toner Name Setting: Black	CTL*	[0 to 0 / 0 / 0]
5-841-002	Supply Name Setting	Toner Name Setting: Cyan	CTL*	[0 to 0 / 0 / 0]
5-841-003	Supply Name Setting	Toner Name Setting: Yellow	CTL*	[0 to 0 / 0 / 0]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-841-004	Supply Name Setting	Toner Name Setting: Magenta	CTL*	[0 to 0 / 0 / 0]
5-841-009	Supply Name Setting	WasteTonerBottle	CTL*	[0 to 0 / 0 / 0]
5-841-101	Supply Name Setting	DrumUnit: Black	CTL*	[0 to 0 / 0 / 0]
5-841-102	Supply Name Setting	DrumUnit: Color	CTL*	[0 to 0 / 0 / 0]
5-842-001	GWWS Analysis	Setting 1	CTL*	[0x00 to 0xFF / 0 / 1]
5-842-002	GWWS Analysis	Setting 2	CTL*	[0x00 to 0xFF / 0 / 1]
5-844-001	USB	Transfer Rate	CTL*	[1 to 4 / 4 / 0]
5-844-002	USB	Vendor ID	CTL*	[0x0000 to 0xffff / 0x05ca / 0]
5-844-003	USB	Product ID	CTL*	[0x0000 to 0xffff / 0x0403 / 0]
5-844-004	USB	Device Release Number	CTL*	[0 to 9999 / 100 / 1]
5-844-005	USB	Fixed USB Port	CTL*	[0 to 2 / 0 / 1]
5-844-006	USB	PnP Model Name	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-844-007	USB	PnP Serial Number	CTL*	[0 to 0 / 0 / 0]
5-844-008	USB	Mac Supply Level	CTL*	[0 to 1 / 1 / 1]
5-844-009	USB	USB Toggle Clear Mode	CTL*	[0 to 1 / 0 / 1]
5-844-100	USB	Notify Unsupport	CTL*	[0 to 1 / 1 / 1]
5-845-001	Delivery Server Setting	FTP Port No.	CTL*	[1 to 65535 / 3670 / 1]
5-845-006	Delivery Server Setting	Delivery Error Display Time	CTL*	[0 to 999 / 300 / 1sec]
5-845-022	Delivery Server Setting	Rapid Sending Control	CTL*	[0 to 1 / 1 / 1]
5-846-010	UCS Setting	LDAP Search Timeout	CTL*	[1 to 255 / 60 / 1]
5-846-021	UCS Setting	Folder Auth Change	CTL*	[0 to 1 / 0 / 1]
5-846-043	UCS Setting	Addr Book Media	CTL*	[0 to 30 / 0 / 1]
5-846-047	UCS Setting	Initialize Local Addr Book	CTL	[0 to 0 / 0 / 0]
5-846-049	UCS Setting	Initialize LDAP Addr Book	CTL	[0 to 0 / 0 / 0]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-846-050	UCS Setting	Initialize All Addr Book	CTL	[0 to 0 / 0 / 0]
5-846-053	UCS Setting	Clear Backup Info	CTL*	[0 to 0 / 0 / 0]
5-846-060	UCS Setting	Search option	CTL*	[0x00 to 0xff / 0x0f / 1]
5-846-062	UCS Setting	Complexity option 1	CTL*	[0 to 32 / 0 / 1]
5-846-063	UCS Setting	Complexity option 2	CTL*	[0 to 32 / 0 / 1]
5-846-064	UCS Setting	Complexity option 3	CTL*	[0 to 32 / 0 / 1]
5-846-065	UCS Setting	Complexity option 4	CTL*	[0 to 32 / 0 / 1]
5-846-094	UCS Setting	Encryption Stat	CTL*	[0 to 255 / 0 / 0]
5-848-004	Web Service	Access Ctrl: udirectory (Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-007	Web Service	Access Ctrl: Comm. Log Fax(Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-009	Web Service	Access Ctrl: Job Ctrl (Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-011	Web Service	Access Ctrl: Devicemanagement(Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-848-022	Web Service	Access Ctrl: uadministration (Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-024	Web Service	Access Ctrl: Log Service (Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-025	Web Service	Access Ctrl: Rest WebService (Lower 4bits)	CTL*	[0x00 to 0xFF / 0x00 / 0]
5-848-150	Web Service	Log Operation Mode	CTL*	[0 to 9 / 0 / 1]
5-848-217	LogTrans	Setting: Timing	CTL*	[0 to 2 / 0 / 1]
5-849-001	Installation Date	Display	CTL*	[0 to 0 / 0 / 0]
5-849-002	Installation Date	Switch to Print	CTL*	[0 to 1 / 0 / 1]
5-849-003	Installation Date	Total Counter	CTL*	[0 to 99999999 / 0 / 1]
5-856-002	Remote ROM Update	Local Port	CTL	[0 to 1 / 0 / 1]
5-858-001	Collect Machine Info	0:OFF 1:ON	CTL	[0 to 1 / 1 / 1]
5-858-002	Collect Machine Info	Save To (0:HDD 1:SD)	CTL	[0 to 2 / 0 / 1]
5-858-003	Collect Machine Info	Make Log Trace Dir	CTL	[0 to 1 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-858-101	Collect Machine Info	Failure Occuring Date	CTL	[0 to 20371212 / 0 / 1]
5-858-102	Collect Machine Info	Tracing Days	CTL	[1 to 180 / 2 / 1day]
5-858-103	Collect Machine Info	Acquire Fax Address(0:OFF 1:ON)	CTL	[0 to 1 / 0 / 1]
5-858-111	Collect Machine Info	Acquire All Info & Logs	CTL	[0 to 1 / 0 / 0]
5-858-121	Collect Machine Info	Acquire Configuration Page	CTL	[0 to 1 / 0 / 0]
5-858-122	Collect Machine Info	Acquire Font Page	CTL	[0 to 1 / 0 / 0]
5-858-123	Collect Machine Info	Acquire Print Setting List	CTL	[0 to 1 / 0 / 0]
5-858-124	Collect Machine Info	Acquire Error Log	CTL	[0 to 1 / 0 / 0]
5-858-131	Collect Machine Info	Acquire Fax Info	CTL	[0 to 1 / 0 / 0]
5-858-141	Collect Machine Info	Acquire All Debug Logs	CTL	[0 to 1 / 0 / 0]
5-858-142	Collect Machine Info	Acquire Controller Debug Logs Only	CTL	[0 to 1 / 0 / 0]
5-858-143	Collect Machine Info	Acquire Engine Debug Logs Only	CTL	[0 to 1 / 0 / 0]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-858-144	Collect Machine Info	Acquire Opepanel Debug Logs Only	CTL	[0 to 1 / 0 / 0]
5-858-145	Collect Machine Info	Acquire FCU Debug Logs Only	CTL	[0 to 1 / 0 / 0]
5-860-021	SMTP/POP3/IMAP4	MDN Response RFC2298 Compliance	CTL*	[0 to 1 / 1 / 1]
5-860-022	SMTP/POP3/IMAP4	SMTP Auth. From Field Replacement	CTL*	[0 to 1 / 0 / 1]
5-860-025	SMTP/POP3/IMAP4	SMTP Auth. Direct Setting	CTL*	[0 to 0xff / 0x0 / 1]
5-860-026	SMTP/POP3/IMAP4	S/MIME:MIME Header Setting	CTL*	[0 to 2 / 0 / 1]
5-860-028	SMTP/POP3/IMAP4	S/MIME: Authentication Check	CTL*	[0 to 1 / 0 / 1]
5-866-001	E-Mail Report	Report Validity	CTL*	[0 to 1 / 0 / 1]
5-866-005	E-Mail Report	Add Date Field	CTL*	[0 to 1 / 0 / 1]
5-869-001	RAM Disk Setting	Mail Function	CTL*	[0 to 1 / 0 / 1]
5-870-001	Common KeyInfo Writing	Writing	CTL	[0 to 1 / 0 / 1]
5-870-003	Common KeyInfo Writing	Initialize	CTL	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-870-004	Common Key Info Writing	Writing: 2048bit	CTL	[0 to 1 / 0 / 1]
5-875-001	SC Auto Reboot	Reboot Setting	CTL*	[0 to 1 / 0 / 1]
5-875-002	SC Auto Reboot	Reboot Type	CTL*	[0 to 1 / 1 / 1]
5-881-001	Fixed Phrase Block Erasing		CTL*	[0 to 0 / 0 / 0]
5-885-205	Set WIM Function	MonitorDisable	CTL*	[0 to 1 / 0 / 1]
5-886-100	Farm Update Setting	Skip Version Check	CTL	[0 to 1 / 0 / 1]
5-886-101	Farm Update Setting	Skip LR Check	CTL	[0 to 1 / 0 / 1]
5-886-111	Farm Update Setting	Auto Update Setting	CTL*	[0 to 1 / 0 / 1]
5-886-112	Farm Update Setting	Auto Update Prohibit Term Setting	CTL*	[0 to 1 / 1 / 1]
5-886-113	Farm Update Setting	Auto Update Prohibit Start hour	CTL*	[0 to 23 / 9 / 1hour]
5-886-114	Farm Update Setting	Auto Update Prohibit End hour	CTL*	[0 to 23 / 17 / 1hour]
5-886-115	Farm Update Setting	SFU Auto Download Setting	CTL*	[0 to 1 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-886-116	Farm Update Setting	Auto Update Next Date	CTL*	[0 to 0 / 0 / 0]
5-886-117	Farm Update Setting	Auto Update Retry Interval Hour	CTL*	[1 to 24 / 1 / 1hour]
5-886-119	Farm Update Setting	Auto Update @Remote Using Setting	CTL*	[0 to 1 / 0 / 1]
5-886-120	Farm Update Setting	Auto Update Prohibit Day of Week Setting	CTL*	[0 to 255 / 0 / 1]
5-886-201	Farm Update Setting	Restore Date	CTL*	[0 to 0 / 0 / 0]
5-886-202	Farm Update Setting	Save Old Version List	CTL	[0 to 0 / 0 / 0]
5-887-001	SD GetCounter		CTL	[0 to 0 / 0 / 0]
5-888-001	Personal Information Protect		CTL*	[0 to 1 / 0 / 1]
5-907-001	Plug & Play Maker/Model Name		CTL*	[0 to 255 / 0 / 1]
5-913-002	Switchover Permission Time	Print Application Timer	CTL*	[0 to 30 / 3 / 1]
5-990-001	SP Print Mode	All (Data List)	CTL	[0 to 255 / 0 / 0]
5-990-002	SP Print Mode	SP (Mode Data List)	CTL	[0 to 255 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-990-003	SP Print Mode	User Program	CTL	[0 to 255 / 0 / 0]
5-990-004	SP Print Mode	Logging Data	CTL	[0 to 255 / 0 / 0]
5-990-005	SP Print Mode	Diagnostic Report	CTL	[0 to 255 / 0 / 0]
5-990-006	SP Print Mode	Non-Default	CTL	[0 to 255 / 0 / 0]
5-990-007	SP Print Mode	NIB Summary	CTL	[0 to 0 / 0 / 0]
5-990-021	SMC Print	Copier User Program	CTL	[0 to 0 / 0 / 0]
5-990-022	SP Print Mode	Scanner SP	CTL	[0 to 255 / 0 / 0]
5-990-023	SP Print Mode	Scanner User Program	CTL	[0 to 255 / 0 / 0]
5-990-026	SP Print Mode	Printer SP	CTL	[0 to 255 / 0 / 0]
5-990-027	SP Print Mode	SmartOperationPanel SP	CTL	[0 to 255 / 0 / 0]
5-990-028	SP Print Mode	SmartOperationPanel UP	CTL	[0 to 255 / 0 / 0]
5-992-001	SP Text Mode	All (Data List)	CTL	[0 to 255 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-992-002	SP Text Mode	SP (Mode Data List)	CTL	[0 to 255 / 0 / 0]
5-992-003	SP Text Mode	User Program	CTL	[0 to 255 / 0 / 0]
5-992-004	SP Text Mode	Logging Data	CTL	[0 to 255 / 0 / 0]
5-992-005	SP Text Mode	Diagnostic Report	CTL	[0 to 255 / 0 / 0]
5-992-006	SP Text Mode	Non-Default	CTL	[0 to 255 / 0 / 0]
5-992-007	SP Text Mode	NIB Summary	CTL	[0 to 0 / 0 / 0]
5-992-021	SP Text Mode	Copier User Program	CTL	[0 to 0 / 0 / 0]
5-992-022	SP Text Mode	Scanner SP	CTL	[0 to 255 / 0 / 0]
5-992-023	SP Text Mode	Scanner User Program	CTL	[0 to 255 / 0 / 0]
5-992-026	SP Text Mode	Printer SP	CTL	[0 to 255 / 0 / 0]
5-992-027	SP Text Mode	SmartOperationPanel SP	CTL	[0 to 255 / 0 / 0]
5-992-028	SP Text Mode	SmartOperationPanel UP	CTL	[0 to 255 / 0 / 0]

## SP7-XXX (Data Log 1)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
7-401-001	Total SC	SC Counter	CTL*	[0 to 65535 / 0 / 0]
7-401-002	Total SC	Total SC Counter	CTL*	[0 to 65535 / 0 / 0]
7-403-001	SC History	Latest	CTL*	[0 to 0 / 0 / 0]
7-403-002	SC History	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-403-003	SC History	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-403-004	SC History	Latest 3	CTL*	[0 to 0 / 0 / 0]
7-403-005	SC History	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-403-006	SC History	Latest 5	CTL*	[0 to 0 / 0 / 0]
7-403-007	SC History	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-403-008	SC History	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-403-009	SC History	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-403-010	SC History	Latest 9	CTL*	[0 to 0 / 0 / 0]
7-404-001	Software Error History	Latest	CTL*	[0 to 0 / 0 / 0]
7-404-002	Software Error History	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-404-003	Software Error History	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-404-004	Software Error History	Latest 3	CTL*	[0 to 0 / 0 / 0]
7-404-005	Software Error History	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-404-	Software Error History	Latest 5	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
006				
7-404-007	Software Error History	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-404-008	Software Error History	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-404-009	Software Error History	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-404-010	Software Error History	Latest 9	CTL*	[0 to 0 / 0 / 0]
7-502-001	Total Paper Jam	Jam Counter	CTL*	[0 to 65535 / 0 / 0]
7-502-002	Total Paper Jam	Total Jam Counter	CTL*	[0 to 65535 / 0 / 0]
7-503-001	Total Original Jam	Original Jam Counter	CTL*	[0 to 65535 / 0 / 0]
7-503-002	Total Original Jam	Total Original Jam Counter	CTL*	[0 to 65535 / 0 / 0]
7-504-001	Paper Jam Location	Initial Jam	CTL*	[0 to 65535 / 0 / 0]
7-504-003	Paper Jam Location	Tray 1 No Feed	CTL*	[0 to 65535 / 0 / 0]
7-504-004	Paper Jam Location	Tray 2 No Feed	CTL*	[0 to 65535 / 0 / 0]
7-504-008	Paper Jam Location	Bypass Tray No Feed	CTL*	[0 to 65535 / 0 / 0]
7-504-009	Paper Jam Location	Duplex No Feed	CTL*	[0 to 65535 / 0 / 0]
7-504-023	Paper Jam Location	Registration Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-504-024	Paper Jam Location	Fus. Entrance Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-504-032	Paper Jam Location	Paper Exit Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-504-038	Paper Jam Location	Duplex Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-504-	Paper Jam Location	Registration Sensor Lag	CTL*	[0 to 65535 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
087		Jam		
7-504-096	Paper Jam Location	Paper Exit Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-504-102	Paper Jam Location	Duplex Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-001	Original Jam Detection	Initial Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-004	Original Jam Detection	Registration Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-013	Original Jam Detection	Sensor Late Jam After Feed	CTL*	[0 to 65535 / 0 / 0]
7-505-054	Original Jam Detection	Registration Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-063	Original Jam Detection	Sensor Lag Jam After Feed	CTL*	[0 to 65535 / 0 / 0]
7-505-081	Original Jam Detection	Bypass Set Sensor Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-082	Original Jam Detection	Bypass Regist. Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-098	Original Jam Detection	Paper Interval Shortage Jam	CTL*	[0 to 65535 / 0 / 0]
7-505-100	Original Jam Detection	Motor Error	CTL*	[0 to 65535 / 0 / 0]
7-506-006	Jam Count by Paper Size	A5 LEF	CTL*	[0 to 65535 / 0 / 0]
7-506-044	Jam Count by Paper Size	HLT LEF	CTL*	[0 to 65535 / 0 / 0]
7-506-133	Jam Count by Paper Size	A4 SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-134	Jam Count by Paper Size	A5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-142	Jam Count by Paper Size	B5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-164	Jam Count by Paper Size	LG SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-	Jam Count by Paper	LT SEF	CTL*	[0 to 65535 / 0 / 0]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
166	Size			
7-506-172	Jam Count by Paper Size	HLT SEF	CTL*	[0 to 65535 / 0 / 0]
7-506-255	Jam Count by Paper Size	Others	CTL*	[0 to 65535 / 0 / 0]
7-507-001	Plotter Jam History	Latest	CTL*	[0 to 0 / 0 / 0]
7-507-002	Plotter Jam History	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-507-003	Plotter Jam History	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-507-004	Plotter Jam History	Latest 3	CTL*	[0 to 0 / 0 / 0]
7-507-005	Plotter Jam History	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-507-006	Plotter Jam History	Latest 5	CTL*	[0 to 0 / 0 / 0]
7-507-007	Plotter Jam History	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-507-008	Plotter Jam History	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-507-009	Plotter Jam History	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-507-010	Plotter Jam History	Latest 9	CTL*	[0 to 0 / 0 / 0]
7-508-001	Original Jam History	Latest	CTL*	[0 to 0 / 0 / 0]
7-508-002	Original Jam History	Latest 1	CTL*	[0 to 0 / 0 / 0]
7-508-003	Original Jam History	Latest 2	CTL*	[0 to 0 / 0 / 0]
7-508-004	Original Jam History	Latest 3	CTL*	[0 to 0 / 0 / 0]
7-508-005	Original Jam History	Latest 4	CTL*	[0 to 0 / 0 / 0]
7-508-	Original Jam History	Latest 5	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
006				
7-508-007	Original Jam History	Latest 6	CTL*	[0 to 0 / 0 / 0]
7-508-008	Original Jam History	Latest 7	CTL*	[0 to 0 / 0 / 0]
7-508-009	Original Jam History	Latest 8	CTL*	[0 to 0 / 0 / 0]
7-508-010	Original Jam History	Latest 9	CTL*	[0 to 0 / 0 / 0]
7-514-001	Paper Jam Count by Location	Initial Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-003	Paper Jam Count by Location	Tray 1 No Feed	CTL*	[0 to 65535 / 0 / 0]
7-514-004	Paper Jam Count by Location	Tray 2 No Feed	CTL*	[0 to 65535 / 0 / 0]
7-514-008	Paper Jam Count by Location	Bypass Tray No Feed	CTL*	[0 to 65535 / 0 / 0]
7-514-009	Paper Jam Count by Location	Duplex No Feed	CTL*	[0 to 65535 / 0 / 0]
7-514-023	Paper Jam Count by Location	Registration Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-024	Paper Jam Count by Location	Fus. Entrance Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-032	Paper Jam Count by Location	Paper Exit Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-038	Paper Jam Count by Location	Duplex Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-087	Paper Jam Count by Location	Registration Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-096	Paper Jam Count by Location	Paper Exit Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-514-102	Paper Jam Count by Location	Duplex Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-515-001	Original Jam Count by Detection	Initial Jam	CTL*	[0 to 65535 / 0 / 0]
7-515-	Original Jam Count by	Registration Sensor Late	CTL*	[0 to 65535 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
004	Detection	Jam		
7-515-013	Original Jam Count by Detection	Sensor Late Jam After Feed	CTL*	[0 to 65535 / 0 / 0]
7-515-054	Original Jam Count by Detection	Registration Sensor Lag Jam	CTL*	[0 to 65535 / 0 / 0]
7-515-063	Original Jam Count by Detection	Sensor Lag Jam After Feed	CTL*	[0 to 65535 / 0 / 0]
7-515-081	Original Jam Count by Detection	Bypass Set Sensor Jam	CTL*	[0 to 65535 / 0 / 0]
7-515-082	Original Jam Count by Detection	Bypass Regist. Sensor Late Jam	CTL*	[0 to 65535 / 0 / 0]
7-515-098	Original Jam Count by Detection	Paper Interval Shortage Jam	CTL*	[0 to 65535 / 0 / 0]
7-515-100	Original Jam Count by Detection	Motor Error	CTL*	[0 to 65535 / 0 / 0]
7-516-006	Paper Size Jam Count	A5 LEF	CTL*	[0 to 65535 / 0 / 0]
7-516-044	Paper Size Jam Count	HLT LEF	CTL*	[0 to 65535 / 0 / 0]
7-516-133	Paper Size Jam Count	A4 SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-134	Paper Size Jam Count	A5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-142	Paper Size Jam Count	B5 SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-164	Paper Size Jam Count	LG SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-166	Paper Size Jam Count	LT SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-172	Paper Size Jam Count	HLT SEF	CTL*	[0 to 65535 / 0 / 0]
7-516-255	Paper Size Jam Count	Others	CTL*	[0 to 65535 / 0 / 0]
7-520-001	Update Log	ErrorRecord1	CTL*	[0 to 255 / 0 / 1]
7-520-	Update Log	ErrorRecord2	CTL*	[0 to 255 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
002				
7-520-003	Update Log	ErrorRecord3	CTL*	[0 to 255 / 0 / 1]
7-520-004	Update Log	ErrorRecord4	CTL*	[0 to 255 / 0 / 1]
7-520-005	Update Log	ErrorRecord5	CTL*	[0 to 255 / 0 / 1]
7-520-006	Update Log	ErrorRecord6	CTL*	[0 to 255 / 0 / 1]
7-520-007	Update Log	ErrorRecord7	CTL*	[0 to 255 / 0 / 1]
7-520-008	Update Log	ErrorRecord8	CTL*	[0 to 255 / 0 / 1]
7-520-009	Update Log	ErrorRecord9	CTL*	[0 to 255 / 0 / 1]
7-520-010	Update Log	ErrorRecord10	CTL*	[0 to 255 / 0 / 1]
7-520-011	Update Log	Auto:StartDate1	CTL*	[0 to 0 / 0 / 0]
7-520-012	Update Log	Auto:StartDate2	CTL*	[0 to 0 / 0 / 0]
7-520-013	Update Log	Auto:StartDate3	CTL*	[0 to 0 / 0 / 0]
7-520-014	Update Log	Auto:StartDate4	CTL*	[0 to 0 / 0 / 0]
7-520-015	Update Log	Auto:StartDate5	CTL*	[0 to 0 / 0 / 0]
7-520-021	Update Log	Auto:EndDate1	CTL*	[0 to 0 / 0 / 0]
7-520-022	Update Log	Auto:EndDate2	CTL*	[0 to 0 / 0 / 0]
7-520-023	Update Log	Auto:EndDate3	CTL*	[0 to 0 / 0 / 0]
7-520-024	Update Log	Auto:EndDate4	CTL*	[0 to 0 / 0 / 0]
7-520-	Update Log	Auto:EndDate5	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
025				
7-520-031	Update Log	Auto:Piecemark1	CTL*	[0 to 0 / 0 / 0]
7-520-032	Update Log	Auto:Piecemark2	CTL*	[0 to 0 / 0 / 0]
7-520-033	Update Log	Auto:Piecemark3	CTL*	[0 to 0 / 0 / 0]
7-520-034	Update Log	Auto:Piecemark4	CTL*	[0 to 0 / 0 / 0]
7-520-035	Update Log	Auto:Piecemark5	CTL*	[0 to 0 / 0 / 0]
7-520-041	Update Log	Auto:Version1	CTL*	[0 to 0 / 0 / 0]
7-520-042	Update Log	Auto:Version2	CTL*	[0 to 0 / 0 / 0]
7-520-043	Update Log	Auto:Version3	CTL*	[0 to 0 / 0 / 0]
7-520-044	Update Log	Auto:Version4	CTL*	[0 to 0 / 0 / 0]
7-520-045	Update Log	Auto:Version5	CTL*	[0 to 0 / 0 / 0]
7-520-051	Update Log	Auto:Result1	CTL*	[0 to 255 / 0 / 1]
7-520-052	Update Log	Auto:Result2	CTL*	[0 to 255 / 0 / 1]
7-520-053	Update Log	Auto:Result3	CTL*	[0 to 255 / 0 / 1]
7-520-054	Update Log	Auto:Result4	CTL*	[0 to 255 / 0 / 1]
7-520-055	Update Log	Auto:Result5	CTL*	[0 to 255 / 0 / 1]
7-520-056	Update Log	Auto:Result6	CTL*	[0 to 255 / 0 / 1]
7-520-057	Update Log	Auto:Result7	CTL*	[0 to 255 / 0 / 1]
7-520-	Update Log	Auto:Result8	CTL*	[0 to 255 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
058				
7-520-059	Update Log	Auto:Result9	CTL*	[0 to 255 / 0 / 1]
7-520-060	Update Log	Auto:Result10	CTL*	[0 to 255 / 0 / 1]
7-617-001	PM Parts Counter Display	Normal	CTL*	[0 to 9999999 / 0 / 0]
7-617-002	PM Parts Counter Display	Df	CTL*	[0 to 9999999 / 0 / 0]
7-618-001	PM Parts Counter Reset	Normal	CTL*	[0 to 0 / 0 / 0]
7-618-002	PM Parts Counter Reset	Df	CTL*	[0 to 0 / 0 / 0]
7-801-255	ROM No./ Firmware Version		CTL	[0 to 0 / 0 / 0]
7-803-001	PM Counter Display	Paper	CTL*	[0 to 9999999 / 0 / 0]
7-804-001	PM Counter Reset	Paper	CTL	[0 to 0 / 0 / 0]
7-807-001	SC/Jam Counter Reset		CTL	[0 to 0 / 0 / 0]
7-832-001	Self-Diagnose Result Display		CTL	[0 to 0 / 0 / 0]
7-835-001	ACC Counter	Copy ACC	CTL*	[0 to 9999999 / 0 / 0]
7-835-002	ACC Counter	Printer ACC	CTL*	[0 to 9999999 / 0 / 0]
7-836-001	Total Memory Size		CTL	[0 to 0xffffffff / 0 / 0MB]
7-840-001	ServiceSP Entry Code Chg Hist	Change Time :Latest	CTL*	[0 to 0 / 0 / 0]
7-840-002	ServiceSP Entry Code Chg Hist	Change Time :Last1	CTL*	[0 to 0 / 0 / 0]
7-840-101	ServiceSP Entry Code Chg Hist	Initialize Time :Latest	CTL*	[0 to 0 / 0 / 0]
7-840-	ServiceSP Entry Code	Initialize Time :Last1	CTL*	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
102	Chg Hist			
7-855-001	Coverage Range	Coverage Range 1	CTL*	[1 to 200 / 5 / 1%]
7-855-002	Coverage Range	Coverage Range 2	CTL*	[1 to 200 / 20 / 1%]
7-901-001	Assert Info.	File Name	CTL*	[0 to 0 / 0 / 0]
7-901-002	Assert Info.	Number of Lines	CTL*	[0 to 0 / 0 / 0]
7-901-003	Assert Info.	Location	CTL*	[0 to 0 / 0 / 0]
7-910-001	ROM No	System/Copy	CTL	[0 to 0 / 0 / 0]
7-910-002	ROM No	Engine	CTL	[0 to 0 / 0 / 0]
7-910-003	ROM No	Lcdc	CTL	[0 to 0 / 0 / 0]
7-910-012	ROM No	FCU	CTL	[0 to 0 / 0 / 0]
7-910-018	ROM No	NetworkSupport	CTL	[0 to 0 / 0 / 0]
7-910-023	ROM No	HDD Format Option	CTL	[0 to 0 / 0 / 0]
7-910-151	ROM No	PS	CTL	[0 to 0 / 0 / 0]
7-910-158	ROM No	PCL	CTL	[0 to 0 / 0 / 0]
7-910-159	ROM No	PCLXL	CTL	[0 to 0 / 0 / 0]
7-910-162	ROM No	PDF	CTL	[0 to 0 / 0 / 0]
7-910-165	ROM No	PJL	CTL	[0 to 0 / 0 / 0]
7-910-168	ROM No	MediaPrint:TIFF	CTL	[0 to 0 / 0 / 0]
7-910-	ROM No	FONT	CTL	[0 to 0 / 0 / 0]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
180				
7-910-181	ROM No	FONT1	CTL	[0 to 0 / 0 / 0]
7-910-182	ROM No	FONT2	CTL	[0 to 0 / 0 / 0]
7-910-183	ROM No	FONT3	CTL	[0 to 0 / 0 / 0]
7-910-184	ROM No	FONT4	CTL	[0 to 0 / 0 / 0]
7-910-185	ROM No	FONT5	CTL	[0 to 0 / 0 / 0]
7-910-186	ROM No	FONT6	CTL	[0 to 0 / 0 / 0]
7-910-187	ROM No	FONT7	CTL	[0 to 0 / 0 / 0]
7-910-200	ROM No	Factory	CTL	[0 to 0 / 0 / 0]
7-910-201	ROM No	Copy	CTL	[0 to 0 / 0 / 0]
7-910-202	ROM No	NetworkDocBox	CTL	[0 to 0 / 0 / 0]
7-910-203	ROM No	Fax	CTL	[0 to 0 / 0 / 0]
7-910-204	ROM No	Printer	CTL	[0 to 0 / 0 / 0]
7-910-205	ROM No	Scanner	CTL	[0 to 0 / 0 / 0]
7-910-206	ROM No	RFax	CTL	[0 to 0 / 0 / 0]
7-910-210	ROM No	MIB	CTL	[0 to 0 / 0 / 0]
7-910-211	ROM No	Websupport	CTL	[0 to 0 / 0 / 0]
7-910-212	ROM No	WebUapl	CTL	[0 to 0 / 0 / 0]
7-910-	ROM No	SDK1	CTL	[0 to 0 / 0 / 0]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
213				
7-910-214	ROM No	SDK2	CTL	[0 to 0 / 0 / 0]
7-910-215	ROM No	SDK3	CTL	[0 to 0 / 0 / 0]
7-910-250	ROM No	Package	CTL	[0 to 0 / 0 / 0]
7-911-001	Firmware Version	System/Copy	CTL	[0 to 0 / 0 / 0]
7-911-002	Firmware Version	Engine	CTL	[0 to 0 / 0 / 0]
7-911-003	Firmware Version	Lcdc	CTL	[0 to 0 / 0 / 0]
7-911-012	Firmware Version	FCU	CTL	[0 to 0 / 0 / 0]
7-911-018	Firmware Version	NetworkSupport	CTL	[0 to 0 / 0 / 0]
7-911-023	Firmware Version	HDD Format Option	CTL	[0 to 0 / 0 / 0]
7-911-151	Firmware Version	PS	CTL	[0 to 0 / 0 / 0]
7-911-158	Firmware Version	PCL	CTL	[0 to 0 / 0 / 0]
7-911-159	Firmware Version	PCLXL	CTL	[0 to 0 / 0 / 0]
7-911-162	Firmware Version	PDF	CTL	[0 to 0 / 0 / 0]
7-911-165	Firmware Version	PJL	CTL	[0 to 0 / 0 / 0]
7-911-168	Firmware Version	MediaPrint:TIFF	CTL	[0 to 0 / 0 / 0]
7-911-180	Firmware Version	FONT	CTL	[0 to 0 / 0 / 0]
7-911-181	Firmware Version	FONT1	CTL	[0 to 0 / 0 / 0]
7-911-	Firmware Version	FONT2	CTL	[0 to 0 / 0 / 0]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
182				
7-911-183	Firmware Version	FONT3	CTL	[0 to 0 / 0 / 0]
7-911-184	Firmware Version	FONT4	CTL	[0 to 0 / 0 / 0]
7-911-185	Firmware Version	FONT5	CTL	[0 to 0 / 0 / 0]
7-911-186	Firmware Version	FONT6	CTL	[0 to 0 / 0 / 0]
7-911-187	Firmware Version	FONT7	CTL	[0 to 0 / 0 / 0]
7-911-200	Firmware Version	Factory	CTL	[0 to 0 / 0 / 0]
7-911-201	Firmware Version	Copy	CTL	[0 to 0 / 0 / 0]
7-911-202	Firmware Version	NetworkDocBox	CTL	[0 to 0 / 0 / 0]
7-911-203	Firmware Version	Fax	CTL	[0 to 0 / 0 / 0]
7-911-204	Firmware Version	Printer	CTL	[0 to 0 / 0 / 0]
7-911-205	Firmware Version	Scanner	CTL	[0 to 0 / 0 / 0]
7-911-206	Firmware Version	RFax	CTL	[0 to 0 / 0 / 0]
7-911-210	Firmware Version	MIB	CTL	[0 to 0 / 0 / 0]
7-911-211	Firmware Version	Websupport	CTL	[0 to 0 / 0 / 0]
7-911-212	Firmware Version	WebUapl	CTL	[0 to 0 / 0 / 0]
7-911-213	Firmware Version	SDK1	CTL	[0 to 0 / 0 / 0]
7-911-214	Firmware Version	SDK2	CTL	[0 to 0 / 0 / 0]
7-911-	Firmware Version	SDK3	CTL	[0 to 0 / 0 / 0]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
215				
7-911-250	Firmware Version	Package	CTL	[0 to 0 / 0 / 0]

## SP8-XXX (Data Log 2)

Most of the SPs in this group are prefixed with a letter that indicates the mode of operation (the mode of operation is referred to as an "application"). Before reading the Group 8 Service Table, make sure that you understand what these prefixes mean.

Prefixes	What it means	
T:	Total: (Grand Total).	Grand total of the items counted for all applications.
P:	Print application.	Totals (pages, jobs, etc.) executed for each application.
O:	Other applications (external network applications, for example)	Refers to network applications such as Web Image Monitor. Utilities developed with the SDK (Software Development Kit) will also be counted with this group in the future.

## Keys and abbreviations in Data Log 2

Abbreviation	What it means
/	"By", e.g. "T:Jobs/Apl" = Total Jobs "by" Application
>	More (2> "2 or more", 4> "4 or more")
AddBook	Address Book
Apl	Application
B/W	Black & White
Bk	Black
C	Cyan
ColCr	Color Create
ColMode	Color Mode
Comb	Combine
Comp	Compression
Deliv	Delivery
DesApl	Designated Application. The application (Copy, Fax, Scan, Print) used to store the job on the document server, for example.
Dev Counter	Development Count, no. of pages developed.
Dup, Duplex	Duplex, printing on both sides
Emul	Emulation
FC	Full Color
FIN	Post-print processing, i.e. finishing (punching, stapling, etc.)

## 5.SP Mode Tables (for MF Models)

Abbreviation	What it means
Full Bleed	No Margins
GenCopy	Generation Copy Mode
GPC	Get Print Counter. For jobs 10 pages or less, this counter does not count up. For jobs larger than 10 pages, this counter counts up by the number that is in excess of 10 (e.g., for an 11-page job, the counter counts up 11-10 =1)
IFax	Internet Fax
ImgEdt	Image Edit performed on the original with the copier GUI, e.g. border removal, adding stamps, page numbers, etc.
K	Black (YMCK)
LS	Local Storage. Refers to the document server.
LSize	Large (paper) Size
Mag	Magnification
MC	One color (monochrome)
NRS	New Remote Service, which allows a service center to monitor machines remotely. "NRS" is used overseas, and "CSS" is used in Japan.
Org	Original for scanning
OrgJam	Original Jam
Palm 2	Print Job Manager/Desk Top Editor: A pair of utilities that allows print jobs to be distributed evenly among the printers on the network, and allows files to move around, combined, and converted to different formats.
PC	Personal Computer
PGS	Pages. A page is the total scanned surface of the original. Duplex pages count as two pages, and A3 simplex count as two pages if the A3/DLT counter SP is switched ON.
PJob	Print Jobs
Ppr	Paper
PrtJam	Printer (plotter) Jam
PrtPGS	Print Pages
R	Red (Toner Remaining). Applies to the wide format model A2 only. This machine is under development and currently not available.
Rez	Resolution
SC	Service Code (Error SC code displayed)
Scn	Scan
Sim, Simplex	Simplex, printing on 1 side.
S-to-Email	Scan-to-E-mail
SMC	SMC report printed with SP5990. All of the Group 8 counters are recorded in the SMC report.

5.SP Mode Tables (for MF Models)

Abbreviation	What it means
Svr	Server
TonEnd	Toner End
TonSave	Toner Save
TXJob	Send, Transmission
YMC	Yellow, Magenta, Cyan

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-001-001	T:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-002-001	C:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-003-001	F:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-004-001	P:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-005-001	S:Total Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-011-001	T:Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-012-001	C:Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-013-001	F:Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-014-001	P:Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-015-001	S:Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-017-001	O:Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-021-001	T:Pjob/LS		CTL*	[0 to 99999999 / 0 / 1]
8-022-001	C:Pjob/LS		CTL*	[0 to 99999999 / 0 / 1]
8-023-001	F:Pjob/LS		CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-024-001	P:Pjob/LS		CTL*	[0 to 99999999 / 0 / 1]
8-025-001	S:Pjob/LS		CTL*	[0 to 99999999 / 0 / 1]
8-027-001	O:Pjob/LS		CTL*	[0 to 99999999 / 0 / 1]
8-031-001	T:Pjob/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-032-001	C:Pjob/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-033-001	F:Pjob/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-034-001	P:Pjob/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-035-001	S:Pjob/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-037-001	O:Pjob/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-041-001	T:TX Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-042-001	C:TX Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-043-001	F:TX Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-044-001	P:TX Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-045-001	S:TX Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-047-001	O:TX Jobs/LS		CTL*	[0 to 99999999 / 0 / 1]
8-051-001	T:TX Jobs/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-052-001	C:TX Jobs/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-053-001	F:TX Jobs/DesApl		CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-054-001	P:TX Jobs/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-055-001	S:TX Jobs/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-057-001	O:TX Jobs/DesApl		CTL*	[0 to 99999999 / 0 / 1]
8-061-001	T:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-061-002	T:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-061-003	T:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-061-004	T:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-061-005	T:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-006	T:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-061-007	T:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-061-008	T:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-009	T:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-010	T:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-011	T:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-012	T:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-061-013	T:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-061-014	T:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-061-015	T:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-061-016	T:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-062-001	C:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-062-002	C:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-062-003	C:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-062-004	C:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-062-005	C:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-062-006	C:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-062-007	C:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-062-008	C:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-062-009	C:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-062-010	C:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-062-011	C:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-062-012	C:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-062-013	C:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-062-014	C:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-062-015	C:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-062-016	C:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-063-001	F:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-063-002	F:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-063-003	F:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-063-004	F:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-063-005	F:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-063-006	F:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-063-007	F:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-063-008	F:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-063-009	F:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-063-010	F:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-063-011	F:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-063-012	F:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-063-013	F:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-063-014	F:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-063-015	F:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-063-016	F:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-064-001	P:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-064-002	P:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-064-003	P:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-064-004	P:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-064-005	P:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-006	P:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-064-007	P:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-064-008	P:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-009	P:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-010	P:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-011	P:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-012	P:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-064-013	P:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-064-014	P:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-064-015	P:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-064-016	P:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-065-001	S:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-065-002	S:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-065-003	S:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-065-004	S:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-065-005	S:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-065-006	S:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-065-007	S:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]
8-065-008	S:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-065-009	S:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-065-010	S:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-065-011	S:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-065-012	S:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-065-013	S:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-065-014	S:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-065-015	S:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-065-016	S:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-067-001	O:FIN Jobs	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-067-002	O:FIN Jobs	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-067-003	O:FIN Jobs	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-067-004	O:FIN Jobs	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-067-005	O:FIN Jobs	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-006	O:FIN Jobs	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-067-007	O:FIN Jobs	Other	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-067-008	O:FIN Jobs	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-009	O:FIN Jobs	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-010	O:FIN Jobs	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-011	O:FIN Jobs	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-012	O:FIN Jobs	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-067-013	O:FIN Jobs	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-067-014	O:FIN Jobs	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-067-015	O:FIN Jobs	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-067-016	O:FIN Jobs	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-071-001	T:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-071-002	T:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-003	T:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-004	T:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-005	T:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-006	T:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-007	T:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-008	T:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-009	T:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-071-010	T:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-011	T:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-012	T:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-013	T:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-071-014	T:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-001	C:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-072-002	C:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-003	C:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-004	C:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-005	C:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-006	C:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-007	C:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-008	C:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-009	C:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-010	C:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-011	C:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-012	C:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-072-013	C:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-072-014	C:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-001	F:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-073-002	F:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-003	F:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-004	F:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-005	F:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-006	F:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-007	F:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-008	F:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-009	F:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-010	F:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-011	F:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-012	F:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-013	F:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-073-014	F:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-001	P:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-074-002	P:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-003	P:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-074-004	P:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-005	P:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-006	P:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-007	P:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-008	P:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-009	P:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-010	P:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-011	P:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-012	P:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-013	P:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-074-014	P:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-001	S:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-075-002	S:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-003	S:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-004	S:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-005	S:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-006	S:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-007	S:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-075-008	S:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-009	S:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-010	S:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-011	S:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-012	S:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-013	S:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-075-014	S:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-001	O:Jobs/PGS	1 Page	CTL*	[0 to 99999999 / 0 / 1]
8-077-002	O:Jobs/PGS	2 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-003	O:Jobs/PGS	3 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-004	O:Jobs/PGS	4 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-005	O:Jobs/PGS	5 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-006	O:Jobs/PGS	6~10 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-007	O:Jobs/PGS	11~20 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-008	O:Jobs/PGS	21~50 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-009	O:Jobs/PGS	51~100 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-010	O:Jobs/PGS	101~300 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-011	O:Jobs/PGS	301~500 Pages	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-077-012	O:Jobs/PGS	501~700 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-013	O:Jobs/PGS	701~1000 Pages	CTL*	[0 to 99999999 / 0 / 1]
8-077-014	O:Jobs/PGS	1001~ Pages	CTL*	[0 to 99999999 / 0 / 1]
8-081-001	T:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-082-001	C:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-083-001	F:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-084-001	P:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-085-001	S:Smart Device	Smart Device	CTL*	[0 to 99999999 / 0 / 1]
8-111-001	T:FAX TX Jobs	B/W(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-111-002	T:FAX TX Jobs	Color(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-111-101	T:FAX TX Jobs	B/W(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-111-102	T:FAX TX Jobs	Color(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-113-001	F:FAX TX Jobs	B/W(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-113-002	F:FAX TX Jobs	Color(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-113-101	F:FAX TX Jobs	B/W(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-113-102	F:FAX TX Jobs	Color(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-121-001	T:IFAX TX Jobs	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-121-002	T:IFAX TX Jobs	Color	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-123-001	F:IFAX TX Jobs	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-123-002	F:IFAX TX Jobs	Color	CTL*	[0 to 99999999 / 0 / 1]
8-131-001	T:S-to-Email Jobs	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-131-002	T:S-to-Email Jobs	Color	CTL*	[0 to 99999999 / 0 / 1]
8-131-003	T:S-to-Email Jobs	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-135-001	S:S-to-Email Jobs	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-135-002	S:S-to-Email Jobs	Color	CTL*	[0 to 99999999 / 0 / 1]
8-135-003	S:S-to-Email Jobs	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-141-001	T:Deliv Jobs/Svr	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-141-002	T:Deliv Jobs/Svr	Color	CTL*	[0 to 99999999 / 0 / 1]
8-141-003	T:Deliv Jobs/Svr	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-145-001	S:Deliv Jobs/Svr	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-145-002	S:Deliv Jobs/Svr	Color	CTL*	[0 to 99999999 / 0 / 1]
8-145-003	S:Deliv Jobs/Svr	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-151-001	T:Deliv Jobs/PC	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-151-002	T:Deliv Jobs/PC	Color	CTL*	[0 to 99999999 / 0 / 1]
8-151-003	T:Deliv Jobs/PC	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-155-001	S:Deliv Jobs/PC	B/W	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-155-002	S:Deliv Jobs/PC	Color	CTL*	[0 to 99999999 / 0 / 1]
8-155-003	S:Deliv Jobs/PC	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-161-001	T:PCFAX TX Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-163-001	F:PCFAX TX Jobs		CTL*	[0 to 99999999 / 0 / 1]
8-171-001	T:Deliv Jobs/WSD/DSM	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-171-002	T:Deliv Jobs/WSD/DSM	Color	CTL*	[0 to 99999999 / 0 / 1]
8-171-003	T:Deliv Jobs/WSD/DSM	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-175-001	S:Deliv Jobs/WSD/DSM	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-175-002	S:Deliv Jobs/WSD/DSM	Color	CTL*	[0 to 99999999 / 0 / 1]
8-175-003	S:Deliv Jobs/WSD/DSM	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-181-001	T:Scan to Media Jobs	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-181-002	T:Scan to Media Jobs	Color	CTL*	[0 to 99999999 / 0 / 1]
8-181-003	T:Scan to Media Jobs	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-185-001	S:Scan to Media Jobs	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-185-002	S:Scan to Media Jobs	Color	CTL*	[0 to 99999999 / 0 / 1]
8-185-003	S:Scan to Media Jobs	ACS	CTL*	[0 to 99999999 / 0 / 1]
8-191-001	T:Total Scan PGS		CTL*	[0 to 99999999 / 0 / 1]
8-192-001	C:Total Scan PGS		CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-193-001	F:Total Scan PGS		CTL*	[0 to 99999999 / 0 / 1]
8-195-001	S:Total Scan PGS		CTL*	[0 to 99999999 / 0 / 1]
8-201-001	T:LSize Scan PGS	A3/DLT, Larger	CTL*	[0 to 99999999 / 0 / 1]
8-203-001	F:LSize Scan PGS	A3/DLT, Larger	CTL*	[0 to 99999999 / 0 / 1]
8-205-001	S:LSize Scan PGS	A3/DLT, Larger	CTL*	[0 to 99999999 / 0 / 1]
8-211-001	T:Scan PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-212-001	C:Scan PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-213-001	F:Scan PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-215-001	S:Scan PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-221-001	ADF Org Feeds	Front	CTL*	[0 to 99999999 / 0 / 1]
8-221-002	ADF Org Feeds	Back	CTL*	[0 to 99999999 / 0 / 1]
8-231-001	Scan PGS/Mode	Large Volume	CTL*	[0 to 99999999 / 0 / 1]
8-231-002	Scan PGS/Mode	SADF	CTL*	[0 to 99999999 / 0 / 1]
8-231-003	Scan PGS/Mode	Mixed Size	CTL*	[0 to 99999999 / 0 / 1]
8-231-004	Scan PGS/Mode	Custom Size	CTL*	[0 to 99999999 / 0 / 1]
8-231-005	Scan PGS/Mode	Platen	CTL*	[0 to 99999999 / 0 / 1]
8-231-006	Scan PGS/Mode	Mixed 1side/2side	CTL*	[0 to 99999999 / 0 / 1]
8-231-007	Scan PGS/Mode	ID card Feeder	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-241-001	T:Scan PGS/Org	Text	CTL*	[0 to 99999999 / 0 / 1]
8-241-002	T:Scan PGS/Org	Text/Photo	CTL*	[0 to 99999999 / 0 / 1]
8-241-003	T:Scan PGS/Org	Photo	CTL*	[0 to 99999999 / 0 / 1]
8-241-004	T:Scan PGS/Org	GenCopy, Pale	CTL*	[0 to 99999999 / 0 / 1]
8-241-005	T:Scan PGS/Org	Map	CTL*	[0 to 99999999 / 0 / 1]
8-241-006	T:Scan PGS/Org	Normal/Detail	CTL*	[0 to 99999999 / 0 / 1]
8-241-007	T:Scan PGS/Org	Fine/Super Fine	CTL*	[0 to 99999999 / 0 / 1]
8-241-008	T:Scan PGS/Org	Binary	CTL*	[0 to 99999999 / 0 / 1]
8-241-009	T:Scan PGS/Org	Grayscale	CTL*	[0 to 99999999 / 0 / 1]
8-241-010	T:Scan PGS/Org	Color	CTL*	[0 to 99999999 / 0 / 1]
8-241-011	T:Scan PGS/Org	Other	CTL*	[0 to 99999999 / 0 / 1]
8-242-001	C:Scan PGS/Org	Text	CTL*	[0 to 99999999 / 0 / 1]
8-242-002	C:Scan PGS/Org	Text/Photo	CTL*	[0 to 99999999 / 0 / 1]
8-242-003	C:Scan PGS/Org	Photo	CTL*	[0 to 99999999 / 0 / 1]
8-242-004	C:Scan PGS/Org	GenCopy, Pale	CTL*	[0 to 99999999 / 0 / 1]
8-242-005	C:Scan PGS/Org	Map	CTL*	[0 to 99999999 / 0 / 1]
8-242-011	C:Scan PGS/Org	Other	CTL*	[0 to 99999999 / 0 / 1]
8-243-001	F:Scan PGS/Org	Text	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-243-002	F:Scan PGS/Org	Text/Photo	CTL*	[0 to 99999999 / 0 / 1]
8-243-003	F:Scan PGS/Org	Photo	CTL*	[0 to 99999999 / 0 / 1]
8-243-006	F:Scan PGS/Org	Normal/Detail	CTL*	[0 to 99999999 / 0 / 1]
8-243-007	F:Scan PGS/Org	Fine/Super Fine	CTL*	[0 to 99999999 / 0 / 1]
8-243-011	F:Scan PGS/Org	Other	CTL*	[0 to 99999999 / 0 / 1]
8-245-001	S:Scan PGS/Org	Text	CTL*	[0 to 99999999 / 0 / 1]
8-245-002	S:Scan PGS/Org	Text/Photo	CTL*	[0 to 99999999 / 0 / 1]
8-245-003	S:Scan PGS/Org	Photo	CTL*	[0 to 99999999 / 0 / 1]
8-245-004	S:Scan PGS/Org	GenCopy, Pale	CTL*	[0 to 99999999 / 0 / 1]
8-245-008	S:Scan PGS/Org	Binary	CTL*	[0 to 99999999 / 0 / 1]
8-245-009	S:Scan PGS/Org	Grayscale	CTL*	[0 to 99999999 / 0 / 1]
8-245-010	S:Scan PGS/Org	Color	CTL*	[0 to 99999999 / 0 / 1]
8-245-011	S:Scan PGS/Org	Other	CTL*	[0 to 99999999 / 0 / 1]
8-251-001	T:Scan PGS/ImgEdt		CTL*	[0 to 99999999 / 0 / 1]
8-252-001	C:Scan PGS/ImgEdt		CTL*	[0 to 99999999 / 0 / 1]
8-255-001	S:Scan PGS/ImgEdt		CTL*	[0 to 99999999 / 0 / 1]
8-257-001	O:Scan PGS/ImgEdt		CTL*	[0 to 99999999 / 0 / 1]
8-261-001	T:Scn PGS/ColCr	Color Conversion	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-261-002	T:Scn PGS/ColCr	Color Erase	CTL*	[0 to 99999999 / 0 / 1]
8-261-003	T:Scn PGS/ColCr	Background	CTL*	[0 to 99999999 / 0 / 1]
8-261-004	T:Scn PGS/ColCr	Other	CTL*	[0 to 99999999 / 0 / 1]
8-262-001	C:Scn PGS/ColCr	Color Conversion	CTL*	[0 to 99999999 / 0 / 1]
8-262-002	C:Scn PGS/ColCr	Color Erase	CTL*	[0 to 99999999 / 0 / 1]
8-262-003	C:Scn PGS/ColCr	Background	CTL*	[0 to 99999999 / 0 / 1]
8-262-004	C:Scn PGS/ColCr	Other	CTL*	[0 to 99999999 / 0 / 1]
8-265-001	S:Scn PGS/ColCr	Color Conversion	CTL*	[0 to 99999999 / 0 / 1]
8-265-002	S:Scn PGS/ColCr	Color Erase	CTL*	[0 to 99999999 / 0 / 1]
8-265-003	S:Scn PGS/ColCr	Background	CTL*	[0 to 99999999 / 0 / 1]
8-265-004	S:Scn PGS/ColCr	Other	CTL*	[0 to 99999999 / 0 / 1]
8-281-001	T:Scan PGS/TWAIN		CTL*	[0 to 99999999 / 0 / 1]
8-285-001	S:Scan PGS/TWAIN		CTL*	[0 to 99999999 / 0 / 1]
8-291-001	T:Scan PGS/Stamp		CTL*	[0 to 99999999 / 0 / 1]
8-293-001	F:Scan PGS/Stamp		CTL*	[0 to 99999999 / 0 / 1]
8-295-001	S:Scan PGS/Stamp		CTL*	[0 to 99999999 / 0 / 1]
8-301-001	T:Scan PGS/Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-301-002	T:Scan PGS/Size	A4	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-301-003	T:Scan PGS/Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-301-004	T:Scan PGS/Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-301-005	T:Scan PGS/Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-301-006	T:Scan PGS/Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-301-007	T:Scan PGS/Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-301-008	T:Scan PGS/Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-301-009	T:Scan PGS/Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-301-010	T:Scan PGS/Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-301-254	T:Scan PGS/Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-301-255	T:Scan PGS/Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-302-001	C:Scan PGS/Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-302-002	C:Scan PGS/Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-302-003	C:Scan PGS/Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-302-004	C:Scan PGS/Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-302-005	C:Scan PGS/Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-302-006	C:Scan PGS/Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-302-007	C:Scan PGS/Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-302-008	C:Scan PGS/Size	LT	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-302-009	C:Scan PGS/Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-302-010	C:Scan PGS/Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-302-254	C:Scan PGS/Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-302-255	C:Scan PGS/Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-303-001	F:Scan PGS/Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-303-002	F:Scan PGS/Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-303-003	F:Scan PGS/Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-303-004	F:Scan PGS/Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-303-005	F:Scan PGS/Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-303-006	F:Scan PGS/Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-303-007	F:Scan PGS/Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-303-008	F:Scan PGS/Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-303-009	F:Scan PGS/Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-303-010	F:Scan PGS/Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-303-254	F:Scan PGS/Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-303-255	F:Scan PGS/Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-305-001	S:Scan PGS/Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-305-002	S:Scan PGS/Size	A4	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-305-003	S:Scan PGS/Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-305-004	S:Scan PGS/Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-305-005	S:Scan PGS/Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-305-006	S:Scan PGS/Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-305-007	S:Scan PGS/Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-305-008	S:Scan PGS/Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-305-009	S:Scan PGS/Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-305-010	S:Scan PGS/Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-305-254	S:Scan PGS/Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-305-255	S:Scan PGS/Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-311-001	T:Scan PGS/Rez	1200dpi ~	CTL*	[0 to 99999999 / 0 / 1]
8-311-002	T:Scan PGS/Rez	600dpi~1199dpi	CTL*	[0 to 99999999 / 0 / 1]
8-311-003	T:Scan PGS/Rez	400dpi~599dpi	CTL*	[0 to 99999999 / 0 / 1]
8-311-004	T:Scan PGS/Rez	200dpi~399dpi	CTL*	[0 to 99999999 / 0 / 1]
8-311-005	T:Scan PGS/Rez	~199dpi	CTL*	[0 to 99999999 / 0 / 1]
8-315-001	S:Scan PGS/Rez	1200dpi ~	CTL*	[0 to 99999999 / 0 / 1]
8-315-002	S:Scan PGS/Rez	600dpi~1199dpi	CTL*	[0 to 99999999 / 0 / 1]
8-315-003	S:Scan PGS/Rez	400dpi~599dpi	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-315-004	S:Scan PGS/Rez	200dpi~399dpi	CTL*	[0 to 99999999 / 0 / 1]
8-315-005	S:Scan PGS/Rez	~199dpi	CTL*	[0 to 99999999 / 0 / 1]
8-321-001	T:Sacn Poster	2 Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-321-002	T:Sacn Poster	4 Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-321-003	T:Sacn Poster	9 Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-322-001	C:Sacn Poster	2 Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-322-002	C:Sacn Poster	4 Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-322-003	C:Sacn Poster	9 Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-381-001	T:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-382-001	C:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-383-001	F:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-384-001	P:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-385-001	S:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-387-001	O:Total PrtPGS	Field Number	CTL*	[0 to 99999999 / 0 / 1]
8-391-001	LSize PrtPGS	A3/DLT, Larger	CTL*	[0 to 99999999 / 0 / 1]
8-391-003	LSize PrtPGS	BannerPaper	CTL*	[0 to 99999999 / 0 / 1]
8-401-001	T:PrtPGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-402-001	C:PrtPGS/LS		CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-403-001	F:PrtPGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-404-001	P:PrtPGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-405-001	S:PrtPGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-411-001	Prints/Duplex		CTL*	[0 to 99999999 / 0 / 1]
8-421-001	T:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-421-002	T:PrtPGS/Dup Comb	Duplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-421-003	T:PrtPGS/Dup Comb	Book> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-421-004	T:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-421-005	T:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-421-006	T:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-007	T:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-008	T:PrtPGS/Dup Comb	6in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-009	T:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-010	T:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-011	T:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-421-012	T:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-013	T:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-014	T:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-421-015	T:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-016	T:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-017	T:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-018	T:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-421-019	T:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-020	T:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-021	T:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-022	T:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-023	T:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-421-024	T:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-422-001	C:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-422-002	C:PrtPGS/Dup Comb	Duplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-422-003	C:PrtPGS/Dup Comb	Book> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-422-004	C:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-422-005	C:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-422-006	C:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-422-007	C:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-422-009	C:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-422-012	C:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-422-013	C:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-422-014	C:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-422-015	C:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-422-017	C:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-422-019	C:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-422-020	C:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-422-022	C:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-423-001	F:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-423-004	F:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-423-005	F:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-423-006	F:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-423-007	F:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-423-009	F:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-423-011	F:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-423-012	F:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-423-013	F:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-423-014	F:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-423-015	F:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-423-017	F:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-423-019	F:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-423-020	F:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-423-022	F:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-423-024	F:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-001	P:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-424-004	P:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-424-005	P:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-424-006	P:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-007	P:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-008	P:PrtPGS/Dup Comb	6in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-009	P:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-010	P:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-011	P:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-424-012	P:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-013	P:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-014	P:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-424-015	P:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-016	P:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-017	P:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-018	P:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-424-019	P:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-020	P:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-021	P:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-022	P:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-023	P:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-424-024	P:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-425-001	S:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-425-004	S:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-425-005	S:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-425-006	S:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-425-007	S:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]
8-425-009	S:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-425-010	S:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-425-011	S:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-425-012	S:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-425-013	S:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-425-014	S:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-425-015	S:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-425-017	S:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-425-018	S:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-425-019	S:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-425-020	S:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-425-022	S:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-425-023	S:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-425-024	S:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-001	O:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-427-002	O:PrtPGS/Dup Comb	Duplex> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-427-003	O:PrtPGS/Dup Comb	Book> Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-427-004	O:PrtPGS/Dup Comb	Simplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-427-005	O:PrtPGS/Dup Comb	Duplex Combine	CTL*	[0 to 99999999 / 0 / 1]
8-427-006	O:PrtPGS/Dup Comb	2in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-007	O:PrtPGS/Dup Comb	4in1	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-427-008	O:PrtPGS/Dup Comb	6in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-009	O:PrtPGS/Dup Comb	8in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-010	O:PrtPGS/Dup Comb	9in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-011	O:PrtPGS/Dup Comb	16in1	CTL*	[0 to 99999999 / 0 / 1]
8-427-012	O:PrtPGS/Dup Comb	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-013	O:PrtPGS/Dup Comb	Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-014	O:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-015	O:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-016	O:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-017	O:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-018	O:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-427-019	O:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-020	O:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-021	O:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-022	O:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-023	O:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-427-024	O:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[0 to 99999999 / 0 / 1]
8-431-001	T:PrtPGS/lmgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-431-002	T:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-431-003	T:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-432-001	C:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-432-002	C:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-432-003	C:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-434-001	P:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-434-002	P:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-434-003	P:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-437-001	O:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[0 to 99999999 / 0 / 1]
8-437-002	O:PrtPGS/ImgEdt	Series/Book	CTL*	[0 to 99999999 / 0 / 1]
8-437-003	O:PrtPGS/ImgEdt	User Stamp	CTL*	[0 to 99999999 / 0 / 1]
8-441-001	T:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-441-002	T:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-441-003	T:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-441-004	T:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-441-005	T:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-441-006	T:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-441-007	T:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-441-008	T:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-441-009	T:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-441-010	T:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-441-254	T:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-441-255	T:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-442-001	C:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-442-002	C:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-442-003	C:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-442-004	C:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-442-005	C:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-442-006	C:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-442-007	C:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-442-008	C:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-442-009	C:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-442-010	C:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-442-254	C:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-442-255	C:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-443-001	F:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-443-002	F:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-443-003	F:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-443-004	F:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-443-005	F:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-443-006	F:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-443-007	F:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-443-008	F:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-443-009	F:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-443-010	F:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-443-254	F:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-443-255	F:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-444-001	P:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-444-002	P:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-444-003	P:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-444-004	P:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-444-005	P:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-444-006	P:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-444-007	P:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-444-008	P:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-444-009	P:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-444-010	P:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-444-254	P:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-444-255	P:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-445-001	S:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]
8-445-002	S:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-445-003	S:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-445-004	S:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-445-005	S:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-445-006	S:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-445-007	S:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-445-008	S:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-445-009	S:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-445-010	S:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-445-254	S:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-445-255	S:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-447-001	O:PrtPGS/Ppr Size	A3	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-447-002	O:PrtPGS/Ppr Size	A4	CTL*	[0 to 99999999 / 0 / 1]
8-447-003	O:PrtPGS/Ppr Size	A5	CTL*	[0 to 99999999 / 0 / 1]
8-447-004	O:PrtPGS/Ppr Size	B4	CTL*	[0 to 99999999 / 0 / 1]
8-447-005	O:PrtPGS/Ppr Size	B5	CTL*	[0 to 99999999 / 0 / 1]
8-447-006	O:PrtPGS/Ppr Size	DLT	CTL*	[0 to 99999999 / 0 / 1]
8-447-007	O:PrtPGS/Ppr Size	LG	CTL*	[0 to 99999999 / 0 / 1]
8-447-008	O:PrtPGS/Ppr Size	LT	CTL*	[0 to 99999999 / 0 / 1]
8-447-009	O:PrtPGS/Ppr Size	HLT	CTL*	[0 to 99999999 / 0 / 1]
8-447-010	O:PrtPGS/Ppr Size	Full Bleed	CTL*	[0 to 99999999 / 0 / 1]
8-447-254	O:PrtPGS/Ppr Size	Other (Standard)	CTL*	[0 to 99999999 / 0 / 1]
8-447-255	O:PrtPGS/Ppr Size	Other (Custom)	CTL*	[0 to 99999999 / 0 / 1]
8-451-001	PrtPGS/Ppr Tray	Bypass Tray	CTL*	[0 to 99999999 / 0 / 1]
8-451-002	PrtPGS/Ppr Tray	Tray 1	CTL*	[0 to 99999999 / 0 / 1]
8-451-003	PrtPGS/Ppr Tray	Tray 2	CTL*	[0 to 99999999 / 0 / 1]
8-451-004	PrtPGS/Ppr Tray	Tray 3	CTL*	[0 to 99999999 / 0 / 1]
8-451-005	PrtPGS/Ppr Tray	Tray 4	CTL*	[0 to 99999999 / 0 / 1]
8-451-006	PrtPGS/Ppr Tray	Tray 5	CTL*	[0 to 99999999 / 0 / 1]
8-451-007	PrtPGS/Ppr Tray	Tray 6	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-451-008	PrtPGS/Ppr Tray	Tray 7	CTL*	[0 to 99999999 / 0 / 1]
8-451-009	PrtPGS/Ppr Tray	Tray 8	CTL*	[0 to 99999999 / 0 / 1]
8-451-010	PrtPGS/Ppr Tray	Tray 9	CTL*	[0 to 99999999 / 0 / 1]
8-451-011	PrtPGS/Ppr Tray	Tray 10	CTL*	[0 to 99999999 / 0 / 1]
8-451-012	PrtPGS/Ppr Tray	Tray 11	CTL*	[0 to 99999999 / 0 / 1]
8-451-013	PrtPGS/Ppr Tray	Tray 12	CTL*	[0 to 99999999 / 0 / 1]
8-451-014	PrtPGS/Ppr Tray	Tray 13	CTL*	[0 to 99999999 / 0 / 1]
8-451-015	PrtPGS/Ppr Tray	Tray 14	CTL*	[0 to 99999999 / 0 / 1]
8-451-016	PrtPGS/Ppr Tray	Tray 15	CTL*	[0 to 99999999 / 0 / 1]
8-451-101	PrtPGS/Ppr Tray	LC Inserter	CTL*	[0 to 99999999 / 0 / 1]
8-451-102	PrtPGS/Ppr Tray	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-461-001	T:PrtPGS/Ppr Type	Normal	CTL*	[0 to 99999999 / 0 / 1]
8-461-002	T:PrtPGS/Ppr Type	Recycled	CTL*	[0 to 99999999 / 0 / 1]
8-461-003	T:PrtPGS/Ppr Type	Special	CTL*	[0 to 99999999 / 0 / 1]
8-461-004	T:PrtPGS/Ppr Type	Thick	CTL*	[0 to 99999999 / 0 / 1]
8-461-005	T:PrtPGS/Ppr Type	Normal (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-461-006	T:PrtPGS/Ppr Type	Thick (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-461-007	T:PrtPGS/Ppr Type	OHP	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-461-008	T:PrtPGS/Ppr Type	Other	CTL*	[0 to 99999999 / 0 / 1]
8-462-001	C:PrtPGS/Ppr Type	Normal	CTL*	[0 to 99999999 / 0 / 1]
8-462-002	C:PrtPGS/Ppr Type	Recycled	CTL*	[0 to 99999999 / 0 / 1]
8-462-003	C:PrtPGS/Ppr Type	Special	CTL*	[0 to 99999999 / 0 / 1]
8-462-004	C:PrtPGS/Ppr Type	Thick	CTL*	[0 to 99999999 / 0 / 1]
8-462-005	C:PrtPGS/Ppr Type	Normal (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-462-006	C:PrtPGS/Ppr Type	Thick (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-462-007	C:PrtPGS/Ppr Type	OHP	CTL*	[0 to 99999999 / 0 / 1]
8-462-008	C:PrtPGS/Ppr Type	Other	CTL*	[0 to 99999999 / 0 / 1]
8-463-001	F:PrtPGS/Ppr Type	Normal	CTL*	[0 to 99999999 / 0 / 1]
8-463-002	F:PrtPGS/Ppr Type	Recycled	CTL*	[0 to 99999999 / 0 / 1]
8-463-003	F:PrtPGS/Ppr Type	Special	CTL*	[0 to 99999999 / 0 / 1]
8-463-004	F:PrtPGS/Ppr Type	Thick	CTL*	[0 to 99999999 / 0 / 1]
8-463-005	F:PrtPGS/Ppr Type	Normal (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-463-006	F:PrtPGS/Ppr Type	Thick (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-463-007	F:PrtPGS/Ppr Type	OHP	CTL*	[0 to 99999999 / 0 / 1]
8-463-008	F:PrtPGS/Ppr Type	Other	CTL*	[0 to 99999999 / 0 / 1]
8-464-001	P:PrtPGS/Ppr Type	Normal	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-464-002	P:PrtPGS/Ppr Type	Recycled	CTL*	[0 to 99999999 / 0 / 1]
8-464-003	P:PrtPGS/Ppr Type	Special	CTL*	[0 to 99999999 / 0 / 1]
8-464-004	P:PrtPGS/Ppr Type	Thick	CTL*	[0 to 99999999 / 0 / 1]
8-464-005	P:PrtPGS/Ppr Type	Normal (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-464-006	P:PrtPGS/Ppr Type	Thick (Back)	CTL*	[0 to 99999999 / 0 / 1]
8-464-007	P:PrtPGS/Ppr Type	OHP	CTL*	[0 to 99999999 / 0 / 1]
8-464-008	P:PrtPGS/Ppr Type	Other	CTL*	[0 to 99999999 / 0 / 1]
8-471-001	PrtPGS/Mag	~49%	CTL*	[0 to 99999999 / 0 / 1]
8-471-002	PrtPGS/Mag	50%~99%	CTL*	[0 to 99999999 / 0 / 1]
8-471-003	PrtPGS/Mag	100%	CTL*	[0 to 99999999 / 0 / 1]
8-471-004	PrtPGS/Mag	101%~200%	CTL*	[0 to 99999999 / 0 / 1]
8-471-005	PrtPGS/Mag	201% ~	CTL*	[0 to 99999999 / 0 / 1]
8-481-001	T:PrtPGS/TonSave		CTL*	[0 to 99999999 / 0 / 1]
8-484-001	P:PrtPGS/TonSave		CTL*	[0 to 99999999 / 0 / 1]
8-491-001	T:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-491-002	T:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-491-003	T:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-491-004	T:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-491-051	T:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-491-052	T:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-491-053	T:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-491-054	T:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-492-001	C:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-492-002	C:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-492-003	C:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-492-004	C:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-492-051	C:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-492-052	C:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-492-053	C:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-492-054	C:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-493-001	F:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-493-002	F:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-493-003	F:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-493-004	F:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-493-051	F:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-493-052	F:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-493-053	F:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-493-054	F:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-497-001	O:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-497-002	O:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-497-003	O:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-497-004	O:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-497-051	O:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-497-052	O:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-497-053	O:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-497-054	O:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-501-001	T:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-501-002	T:PrtPGS/Col Mode	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-003	T:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-004	T:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-005	T:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-501-051	T:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-501-052	T:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-501-053	T:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-501-054	T:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-001	P:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-504-002	P:PrtPGS/Col Mode	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-003	P:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-004	P:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-005	P:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-504-051	P:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-052	P:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-053	P:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-504-054	P:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-001	O:PrtPGS/Col Mode	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-507-002	O:PrtPGS/Col Mode	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-003	O:PrtPGS/Col Mode	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-004	O:PrtPGS/Col Mode	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-005	O:PrtPGS/Col Mode	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-507-051	O:PrtPGS/Col Mode	B/W(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-052	O:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-507-053	O:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-507-054	O:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[0 to 99999999 / 0 / 1]
8-511-001	T:PrtPGS/Emul	RPCS	CTL*	[0 to 99999999 / 0 / 1]
8-511-002	T:PrtPGS/Emul	RPDL	CTL*	[0 to 99999999 / 0 / 1]
8-511-003	T:PrtPGS/Emul	PS3	CTL*	[0 to 99999999 / 0 / 1]
8-511-004	T:PrtPGS/Emul	R98	CTL*	[0 to 99999999 / 0 / 1]
8-511-005	T:PrtPGS/Emul	R16	CTL*	[0 to 99999999 / 0 / 1]
8-511-006	T:PrtPGS/Emul	GL/GL2	CTL*	[0 to 99999999 / 0 / 1]
8-511-007	T:PrtPGS/Emul	R55	CTL*	[0 to 99999999 / 0 / 1]
8-511-008	T:PrtPGS/Emul	RTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-511-009	T:PrtPGS/Emul	PDF	CTL*	[0 to 99999999 / 0 / 1]
8-511-010	T:PrtPGS/Emul	PCL5e/5c	CTL*	[0 to 99999999 / 0 / 1]
8-511-011	T:PrtPGS/Emul	PCL XL	CTL*	[0 to 99999999 / 0 / 1]
8-511-012	T:PrtPGS/Emul	IPDL-C	CTL*	[0 to 99999999 / 0 / 1]
8-511-013	T:PrtPGS/Emul	BM-Links	CTL*	[0 to 99999999 / 0 / 1]
8-511-014	T:PrtPGS/Emul	Other	CTL*	[0 to 99999999 / 0 / 1]
8-511-015	T:PrtPGS/Emul	IPDS	CTL*	[0 to 99999999 / 0 / 1]
8-511-016	T:PrtPGS/Emul	XPS	CTL*	[0 to 99999999 / 0 / 1]
8-511-017	T:PrtPGS/Emul	IRIPS PS	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-511-018	T:PrtPGS/Emul	IRIPS PDF	CTL*	[0 to 99999999 / 0 / 1]
8-511-019	T:PrtPGS/Emul	PictBridge	CTL*	[0 to 99999999 / 0 / 1]
8-511-020	T:PrtPGS/Emul	MediaPrintTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-511-021	T:PrtPGS/Emul	MediaPrintJPEG	CTL*	[0 to 99999999 / 0 / 1]
8-514-001	P:PrtPGS/Emul	RPCS	CTL*	[0 to 99999999 / 0 / 1]
8-514-002	P:PrtPGS/Emul	RPDL	CTL*	[0 to 99999999 / 0 / 1]
8-514-003	P:PrtPGS/Emul	PS3	CTL*	[0 to 99999999 / 0 / 1]
8-514-004	P:PrtPGS/Emul	R98	CTL*	[0 to 99999999 / 0 / 1]
8-514-005	P:PrtPGS/Emul	R16	CTL*	[0 to 99999999 / 0 / 1]
8-514-006	P:PrtPGS/Emul	GL/GL2	CTL*	[0 to 99999999 / 0 / 1]
8-514-007	P:PrtPGS/Emul	R55	CTL*	[0 to 99999999 / 0 / 1]
8-514-008	P:PrtPGS/Emul	RTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-514-009	P:PrtPGS/Emul	PDF	CTL*	[0 to 99999999 / 0 / 1]
8-514-010	P:PrtPGS/Emul	PCL5e/5c	CTL*	[0 to 99999999 / 0 / 1]
8-514-011	P:PrtPGS/Emul	PCL XL	CTL*	[0 to 99999999 / 0 / 1]
8-514-012	P:PrtPGS/Emul	IPDL-C	CTL*	[0 to 99999999 / 0 / 1]
8-514-013	P:PrtPGS/Emul	BM-Links	CTL*	[0 to 99999999 / 0 / 1]
8-514-014	P:PrtPGS/Emul	Other	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-514-015	P:PrtPGS/Emul	IPDS	CTL*	[0 to 99999999 / 0 / 1]
8-514-016	P:PrtPGS/Emul	XPS	CTL*	[0 to 99999999 / 0 / 1]
8-514-017	P:PrtPGS/Emul	IRIPS PS	CTL*	[0 to 99999999 / 0 / 1]
8-514-018	P:PrtPGS/Emul	IRIPS PDF	CTL*	[0 to 99999999 / 0 / 1]
8-514-019	P:PrtPGS/Emul	PictBridge	CTL*	[0 to 99999999 / 0 / 1]
8-514-020	P:PrtPGS/Emul	MediaPrintTIFF	CTL*	[0 to 99999999 / 0 / 1]
8-514-021	P:PrtPGS/Emul	MediaPrintJPEG	CTL*	[0 to 99999999 / 0 / 1]
8-521-001	T:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-521-002	T:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-521-003	T:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-521-004	T:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-521-005	T:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-006	T:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-521-007	T:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-521-008	T:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-009	T:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-010	T:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-011	T:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-521-012	T:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-521-013	T:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-521-014	T:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-521-015	T:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-521-016	T:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-522-001	C:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-522-002	C:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-522-003	C:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-522-004	C:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-522-005	C:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-522-006	C:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-522-007	C:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-522-008	C:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-522-009	C:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-522-010	C:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-522-011	C:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-522-012	C:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-522-013	C:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-522-014	C:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-522-015	C:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-522-016	C:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-523-001	F:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-523-002	F:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-523-003	F:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-523-004	F:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-523-005	F:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-523-006	F:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-523-007	F:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-523-008	F:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-523-009	F:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-523-010	F:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-523-011	F:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-523-012	F:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-523-013	F:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-523-014	F:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-523-015	F:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-523-016	F:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-524-001	P:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]
8-524-002	P:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-524-003	P:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-524-004	P:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-524-005	P:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-006	P:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-524-007	P:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-524-008	P:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-009	P:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-010	P:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-011	P:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-012	P:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-524-013	P:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-524-014	P:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-524-015	P:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-524-016	P:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-525-001	S:PrtPGS/FIN	Sort	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-525-002	S:PrtPGS/FIN	Stack	CTL*	[0 to 99999999 / 0 / 1]
8-525-003	S:PrtPGS/FIN	Staple	CTL*	[0 to 99999999 / 0 / 1]
8-525-004	S:PrtPGS/FIN	Booklet	CTL*	[0 to 99999999 / 0 / 1]
8-525-005	S:PrtPGS/FIN	Z-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-525-006	S:PrtPGS/FIN	Punch	CTL*	[0 to 99999999 / 0 / 1]
8-525-007	S:PrtPGS/FIN	Other	CTL*	[0 to 99999999 / 0 / 1]
8-525-008	S:PrtPGS/FIN	Inside-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-525-009	S:PrtPGS/FIN	Three-IN-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-525-010	S:PrtPGS/FIN	Three-OUT-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-525-011	S:PrtPGS/FIN	Four-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-525-012	S:PrtPGS/FIN	KANNON-Fold	CTL*	[0 to 99999999 / 0 / 1]
8-525-013	S:PrtPGS/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-525-014	S:PrtPGS/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-525-015	S:PrtPGS/FIN	3rd Vendor	CTL*	[0 to 99999999 / 0 / 1]
8-525-016	S:PrtPGS/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-531-001	Staple	Staples	CTL*	[0 to 99999999 / 0 / 1]
8-531-002	Staple	Stapless	CTL*	[0 to 99999999 / 0 / 1]
8-551-001	T:PrtBooks/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-551-002	T:PrtBooks/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-551-003	T:PrtBooks/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-552-001	C:PrtBooks/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-552-002	C:PrtBooks/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-552-003	C:PrtBooks/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-554-001	P:PrtBooks/FIN	Perfect-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-554-002	P:PrtBooks/FIN	Ring-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-554-003	P:PrtBooks/FIN	TwinLoop-Bind	CTL*	[0 to 99999999 / 0 / 1]
8-561-001	T:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-561-002	T:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-561-003	T:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-561-004	T:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-562-001	C:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-562-002	C:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-562-003	C:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-562-004	C:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-563-001	F:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-563-002	F:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-563-003	F:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-563-004	F:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-001	P:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-002	P:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-003	P:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-564-004	P:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-001	O:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-002	O:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-003	O:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-567-004	O:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-581-001	T:Counter	Total	CTL*	[0 to 99999999 / 0 / 1]
8-581-002	T:Counter	Total: Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-003	T:Counter	B&W/Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-004	T:Counter	Development: CMY	CTL*	[0 to 99999999 / 0 / 1]
8-581-005	T:Counter	Development: K	CTL*	[0 to 99999999 / 0 / 1]
8-581-006	T:Counter	Copy: Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-007	T:Counter	Copy: B/W	CTL*	[0 to 99999999 / 0 / 1]
8-581-008	T:Counter	Print: Color	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-581-009	T:Counter	Print: B/W	CTL*	[0 to 99999999 / 0 / 1]
8-581-010	T:Counter	Total: Color	CTL*	[0 to 99999999 / 0 / 1]
8-581-011	T:Counter	Total: B/W	CTL*	[0 to 99999999 / 0 / 1]
8-581-012	T:Counter	Full Color: A3	CTL*	[0 to 99999999 / 0 / 1]
8-581-013	T:Counter	Full Color: B4 JIS or Smaller	CTL*	[0 to 99999999 / 0 / 1]
8-581-014	T:Counter	Full Color Print	CTL*	[0 to 99999999 / 0 / 1]
8-581-015	T:Counter	Mono Color Print	CTL*	[0 to 99999999 / 0 / 1]
8-581-016	T:Counter	Full Color GPC	CTL*	[0 to 99999999 / 0 / 1]
8-581-017	T:Counter	Twin Color Mode Print	CTL*	[0 to 99999999 / 0 / 1]
8-581-018	T:Counter	Full Color Print(Twin)	CTL*	[0 to 99999999 / 0 / 1]
8-581-019	T:Counter	Mono Color Print(Twin)	CTL*	[0 to 99999999 / 0 / 1]
8-581-020	T:Counter	Full Color Total(CV)	CTL*	[0 to 99999999 / 0 / 1]
8-581-021	T:Counter	Mono Color Total(CV)	CTL*	[0 to 99999999 / 0 / 1]
8-581-022	T:Counter	Full Color Print(CV)	CTL*	[0 to 99999999 / 0 / 1]
8-581-028	T:Counter	Development: CMY(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-581-029	T:Counter	Development: K(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-581-030	T:Counter	Total: Color(A3)	CTL*	[0 to 99999999 / 0 / 1]
8-581-031	T:Counter	Total: B/W(A3)	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-582-001	C:Counter	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-582-002	C:Counter	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-582-003	C:Counter	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-582-004	C:Counter	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-583-001	F:Counter	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-583-002	F:Counter	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-001	P:Counter	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-584-002	P:Counter	Mono Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-003	P:Counter	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-004	P:Counter	Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-584-005	P:Counter	Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-591-001	O:Counter	A3/DLT	CTL*	[0 to 99999999 / 0 / 1]
8-591-002	O:Counter	Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-591-005	O:Counter	Banner	CTL*	[0 to 99999999 / 0 / 1]
8-601-001	T:Coverage Counter	B/W	CTL*	[0 to 2147483647 / 0 / 1%]
8-601-002	T:Coverage Counter	Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-601-011	T:Coverage Counter	B/W Printing Pages	CTL*	[0 to 99999999 / 0 / 1]
8-601-012	T:Coverage Counter	Color Printing Pages	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-601-021	T:Coverage Counter	Coverage Counter 1	CTL*	[0 to 99999999 / 0 / 1]
8-601-022	T:Coverage Counter	Coverage Counter 2	CTL*	[0 to 99999999 / 0 / 1]
8-601-023	T:Coverage Counter	Coverage Counter 3	CTL*	[0 to 99999999 / 0 / 1]
8-601-031	Coverage Counter	Coverage Counter 1 (YMC)	CTL*	[0 to 99999999 / 0 / 1]
8-601-032	Coverage Counter	Coverage Counter 2 (YMC)	CTL*	[0 to 99999999 / 0 / 1]
8-601-033	Coverage Counter	Coverage Counter 3 (YMC)	CTL*	[0 to 99999999 / 0 / 1]
8-602-001	C:Coverage Counter	B/W	CTL*	[0 to 2147483647 / 0 / 1%]
8-602-002	C:Coverage Counter	Single Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-602-003	C:Coverage Counter	Two Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-602-004	C:Coverage Counter	Full Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-603-001	F:Coverage Counter	B/W	CTL*	[0 to 2147483647 / 0 / 1%]
8-603-002	F:Coverage Counter	Single Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-001	P:Coverage Counter	B/W	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-002	P:Coverage Counter	Single Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-003	P:Coverage Counter	Two Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-604-004	P:Coverage Counter	Full Color	CTL*	[0 to 2147483647 / 0 / 1%]
8-617-001	SDK Apli Counter	SDK-1	CTL*	[0 to 99999999 / 0 / 1]
8-617-002	SDK Apli Counter	SDK-2	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-617-003	SDK Apli Counter	SDK-3	CTL*	[0 to 99999999 / 0 / 1]
8-617-004	SDK Apli Counter	SDK-4	CTL*	[0 to 99999999 / 0 / 1]
8-617-005	SDK Apli Counter	SDK-5	CTL*	[0 to 99999999 / 0 / 1]
8-617-006	SDK Apli Counter	SDK-6	CTL*	[0 to 99999999 / 0 / 1]
8-617-007	SDK Apli Counter	SDK-7	CTL*	[0 to 99999999 / 0 / 1]
8-617-008	SDK Apli Counter	SDK-8	CTL*	[0 to 99999999 / 0 / 1]
8-617-009	SDK Apli Counter	SDK-9	CTL*	[0 to 99999999 / 0 / 1]
8-617-010	SDK Apli Counter	SDK-10	CTL*	[0 to 99999999 / 0 / 1]
8-617-011	SDK Apli Counter	SDK-11	CTL*	[0 to 99999999 / 0 / 1]
8-617-012	SDK Apli Counter	SDK-12	CTL*	[0 to 99999999 / 0 / 1]
8-621-001	Func Use Counter	Function-001	CTL*	[0 to 99999999 / 0 / 1]
8-621-002	Func Use Counter	Function-002	CTL*	[0 to 99999999 / 0 / 1]
8-621-003	Func Use Counter	Function-003	CTL*	[0 to 99999999 / 0 / 1]
8-621-004	Func Use Counter	Function-004	CTL*	[0 to 99999999 / 0 / 1]
8-621-005	Func Use Counter	Function-005	CTL*	[0 to 99999999 / 0 / 1]
8-621-006	Func Use Counter	Function-006	CTL*	[0 to 99999999 / 0 / 1]
8-621-007	Func Use Counter	Function-007	CTL*	[0 to 99999999 / 0 / 1]
8-621-008	Func Use Counter	Function-008	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-009	Func Use Counter	Function-009	CTL*	[0 to 99999999 / 0 / 1]
8-621-010	Func Use Counter	Function-010	CTL*	[0 to 99999999 / 0 / 1]
8-621-011	Func Use Counter	Function-011	CTL*	[0 to 99999999 / 0 / 1]
8-621-012	Func Use Counter	Function-012	CTL*	[0 to 99999999 / 0 / 1]
8-621-013	Func Use Counter	Function-013	CTL*	[0 to 99999999 / 0 / 1]
8-621-014	Func Use Counter	Function-014	CTL*	[0 to 99999999 / 0 / 1]
8-621-015	Func Use Counter	Function-015	CTL*	[0 to 99999999 / 0 / 1]
8-621-016	Func Use Counter	Function-016	CTL*	[0 to 99999999 / 0 / 1]
8-621-017	Func Use Counter	Function-017	CTL*	[0 to 99999999 / 0 / 1]
8-621-018	Func Use Counter	Function-018	CTL*	[0 to 99999999 / 0 / 1]
8-621-019	Func Use Counter	Function-019	CTL*	[0 to 99999999 / 0 / 1]
8-621-020	Func Use Counter	Function-020	CTL*	[0 to 99999999 / 0 / 1]
8-621-021	Func Use Counter	Function-021	CTL*	[0 to 99999999 / 0 / 1]
8-621-022	Func Use Counter	Function-022	CTL*	[0 to 99999999 / 0 / 1]
8-621-023	Func Use Counter	Function-023	CTL*	[0 to 99999999 / 0 / 1]
8-621-024	Func Use Counter	Function-024	CTL*	[0 to 99999999 / 0 / 1]
8-621-025	Func Use Counter	Function-025	CTL*	[0 to 99999999 / 0 / 1]
8-621-026	Func Use Counter	Function-026	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-027	Func Use Counter	Function-027	CTL*	[0 to 99999999 / 0 / 1]
8-621-028	Func Use Counter	Function-028	CTL*	[0 to 99999999 / 0 / 1]
8-621-029	Func Use Counter	Function-029	CTL*	[0 to 99999999 / 0 / 1]
8-621-030	Func Use Counter	Function-030	CTL*	[0 to 99999999 / 0 / 1]
8-621-031	Func Use Counter	Function-031	CTL*	[0 to 99999999 / 0 / 1]
8-621-032	Func Use Counter	Function-032	CTL*	[0 to 99999999 / 0 / 1]
8-621-033	Func Use Counter	Function-033	CTL*	[0 to 99999999 / 0 / 1]
8-621-034	Func Use Counter	Function-034	CTL*	[0 to 99999999 / 0 / 1]
8-621-035	Func Use Counter	Function-035	CTL*	[0 to 99999999 / 0 / 1]
8-621-036	Func Use Counter	Function-036	CTL*	[0 to 99999999 / 0 / 1]
8-621-037	Func Use Counter	Function-037	CTL*	[0 to 99999999 / 0 / 1]
8-621-038	Func Use Counter	Function-038	CTL*	[0 to 99999999 / 0 / 1]
8-621-039	Func Use Counter	Function-039	CTL*	[0 to 99999999 / 0 / 1]
8-621-040	Func Use Counter	Function-040	CTL*	[0 to 99999999 / 0 / 1]
8-621-041	Func Use Counter	Function-041	CTL*	[0 to 99999999 / 0 / 1]
8-621-042	Func Use Counter	Function-042	CTL*	[0 to 99999999 / 0 / 1]
8-621-043	Func Use Counter	Function-043	CTL*	[0 to 99999999 / 0 / 1]
8-621-044	Func Use Counter	Function-044	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-045	Func Use Counter	Function-045	CTL*	[0 to 99999999 / 0 / 1]
8-621-046	Func Use Counter	Function-046	CTL*	[0 to 99999999 / 0 / 1]
8-621-047	Func Use Counter	Function-047	CTL*	[0 to 99999999 / 0 / 1]
8-621-048	Func Use Counter	Function-048	CTL*	[0 to 99999999 / 0 / 1]
8-621-049	Func Use Counter	Function-049	CTL*	[0 to 99999999 / 0 / 1]
8-621-050	Func Use Counter	Function-050	CTL*	[0 to 99999999 / 0 / 1]
8-621-051	Func Use Counter	Function-051	CTL*	[0 to 99999999 / 0 / 1]
8-621-052	Func Use Counter	Function-052	CTL*	[0 to 99999999 / 0 / 1]
8-621-053	Func Use Counter	Function-053	CTL*	[0 to 99999999 / 0 / 1]
8-621-054	Func Use Counter	Function-054	CTL*	[0 to 99999999 / 0 / 1]
8-621-055	Func Use Counter	Function-055	CTL*	[0 to 99999999 / 0 / 1]
8-621-056	Func Use Counter	Function-056	CTL*	[0 to 99999999 / 0 / 1]
8-621-057	Func Use Counter	Function-057	CTL*	[0 to 99999999 / 0 / 1]
8-621-058	Func Use Counter	Function-058	CTL*	[0 to 99999999 / 0 / 1]
8-621-059	Func Use Counter	Function-059	CTL*	[0 to 99999999 / 0 / 1]
8-621-060	Func Use Counter	Function-060	CTL*	[0 to 99999999 / 0 / 1]
8-621-061	Func Use Counter	Function-061	CTL*	[0 to 99999999 / 0 / 1]
8-621-062	Func Use Counter	Function-062	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-621-063	Func Use Counter	Function-063	CTL*	[0 to 99999999 / 0 / 1]
8-621-064	Func Use Counter	Function-064	CTL*	[0 to 99999999 / 0 / 1]
8-631-001	T:FAX TX PGS	B/W(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-631-002	T:FAX TX PGS	Color(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-631-101	T:FAX TX PGS	B/W(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-631-102	T:FAX TX PGS	Color(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-633-001	F:FAX TX PGS	B/W(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-633-002	F:FAX TX PGS	Color(Tel)	CTL*	[0 to 99999999 / 0 / 1]
8-633-101	F:FAX TX PGS	B/W(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-633-102	F:FAX TX PGS	Color(Cloud)	CTL*	[0 to 99999999 / 0 / 1]
8-641-001	T:IFAX TX PGS	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-641-002	T:IFAX TX PGS	Color	CTL*	[0 to 99999999 / 0 / 1]
8-643-001	F:IFAX TX PGS	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-643-002	F:IFAX TX PGS	Color	CTL*	[0 to 99999999 / 0 / 1]
8-651-001	T:S-to-Email PGS	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-651-002	T:S-to-Email PGS	Color	CTL*	[0 to 99999999 / 0 / 1]
8-655-001	S:S-to-Email PGS	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-655-002	S:S-to-Email PGS	Color	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-661-001	T:Deliv PGS/Svr	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-661-002	T:Deliv PGS/Svr	Color	CTL*	[0 to 99999999 / 0 / 1]
8-665-001	S:Deliv PGS/Svr	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-665-002	S:Deliv PGS/Svr	Color	CTL*	[0 to 99999999 / 0 / 1]
8-671-001	T:Deliv PGS/PC	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-671-002	T:Deliv PGS/PC	Color	CTL*	[0 to 99999999 / 0 / 1]
8-675-001	S:Deliv PGS/PC	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-675-002	S:Deliv PGS/PC	Color	CTL*	[0 to 99999999 / 0 / 1]
8-681-001	T:PCFAX TXPGS		CTL*	[0 to 99999999 / 0 / 1]
8-683-001	F:PCFAX TXPGS		CTL*	[0 to 99999999 / 0 / 1]
8-691-001	T:TX PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-692-001	C:TX PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-693-001	F:TX PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-694-001	P:TX PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-695-001	S:TX PGS/LS		CTL*	[0 to 99999999 / 0 / 1]
8-701-001	TX PGS/Port	PSTN-1	CTL*	[0 to 99999999 / 0 / 1]
8-701-002	TX PGS/Port	PSTN-2	CTL*	[0 to 99999999 / 0 / 1]
8-701-003	TX PGS/Port	PSTN-3	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-701-004	TX PGS/Port	ISDN(G3,G4)	CTL*	[0 to 99999999 / 0 / 1]
8-701-005	TX PGS/Port	Network	CTL*	[0 to 99999999 / 0 / 1]
8-711-001	T:Scan PGS/Comp	JPEG/JPEG2000	CTL*	[0 to 99999999 / 0 / 1]
8-711-002	T:Scan PGS/Comp	TIFF(Multi/Single)	CTL*	[0 to 99999999 / 0 / 1]
8-711-003	T:Scan PGS/Comp	PDF	CTL*	[0 to 99999999 / 0 / 1]
8-711-004	T:Scan PGS/Comp	Other	CTL*	[0 to 99999999 / 0 / 1]
8-711-005	T:Scan PGS/Comp	PDF/Comp	CTL*	[0 to 99999999 / 0 / 1]
8-711-006	T:Scan PGS/Comp	PDF/A	CTL*	[0 to 99999999 / 0 / 1]
8-711-007	T:Scan PGS/Comp	PDF(OCR)	CTL*	[0 to 99999999 / 0 / 1]
8-711-008	T:Scan PGS/Comp	PDF/Comp(OCR)	CTL*	[0 to 99999999 / 0 / 1]
8-711-009	T:Scan PGS/Comp	PDF/A(OCR)	CTL*	[0 to 99999999 / 0 / 1]
8-715-001	S:Scan PGS/Comp	JPEG/JPEG2000	CTL*	[0 to 99999999 / 0 / 1]
8-715-002	S:Scan PGS/Comp	TIFF(Multi/Single)	CTL*	[0 to 99999999 / 0 / 1]
8-715-003	S:Scan PGS/Comp	PDF	CTL*	[0 to 99999999 / 0 / 1]
8-715-004	S:Scan PGS/Comp	Other	CTL*	[0 to 99999999 / 0 / 1]
8-715-005	S:Scan PGS/Comp	PDF/Comp	CTL*	[0 to 99999999 / 0 / 1]
8-715-006	S:Scan PGS/Comp	PDF/A	CTL*	[0 to 99999999 / 0 / 1]
8-715-007	S:Scan PGS/Comp	PDF(OCR)	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-715-008	S:Scan PGS/Comp	PDF/Comp(OCR)	CTL*	[0 to 99999999 / 0 / 1]
8-715-009	S:Scan PGS/Comp	PDF/A(OCR)	CTL*	[0 to 99999999 / 0 / 1]
8-721-001	T:Deliv PGS/WSD/DSM	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-721-002	T:Deliv PGS/WSD/DSM	Color	CTL*	[0 to 99999999 / 0 / 1]
8-725-001	S:Deliv PGS/WSD/DSM	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-725-002	S:Deliv PGS/WSD/DSM	Color	CTL*	[0 to 99999999 / 0 / 1]
8-731-001	T:Scan PGS/Media	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-731-002	T:Scan PGS/Media	Color	CTL*	[0 to 99999999 / 0 / 1]
8-735-001	S:Scan PGS/Media	B/W	CTL*	[0 to 99999999 / 0 / 1]
8-735-002	S:Scan PGS/Media	Color	CTL*	[0 to 99999999 / 0 / 1]
8-741-001	RX PGS/Port	PSTN-1	CTL*	[0 to 99999999 / 0 / 1]
8-741-002	RX PGS/Port	PSTN-2	CTL*	[0 to 99999999 / 0 / 1]
8-741-003	RX PGS/Port	PSTN-3	CTL*	[0 to 99999999 / 0 / 1]
8-741-004	RX PGS/Port	ISDN(G3,G4)	CTL*	[0 to 99999999 / 0 / 1]
8-741-005	RX PGS/Port	Network	CTL*	[0 to 99999999 / 0 / 1]
8-771-001	Dev Counter	Total	CTL*	[0 to 99999999 / 0 / 1]
8-771-002	Dev Counter	K	CTL*	[0 to 99999999 / 0 / 1]
8-771-003	Dev Counter	Y	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-771-004	Dev Counter	M	CTL*	[0 to 99999999 / 0 / 1]
8-771-005	Dev Counter	C	CTL*	[0 to 99999999 / 0 / 1]
8-781-001	Toner_Botol_Info.	BK	CTL*	[0 to 99999999 / 0 / 1]
8-781-002	Toner_Botol_Info.	Y	CTL*	[0 to 99999999 / 0 / 1]
8-781-003	Toner_Botol_Info.	M	CTL*	[0 to 99999999 / 0 / 1]
8-781-004	Toner_Botol_Info.	C	CTL*	[0 to 99999999 / 0 / 1]
8-791-001	LS Memory Remain		CTL*	[0 to 100 / 0 / 1%]
8-801-001	Toner Remain	K	CTL*	[0 to 100 / 0 / 1%]
8-801-002	Toner Remain	Y	CTL*	[0 to 100 / 0 / 1%]
8-801-003	Toner Remain	M	CTL*	[0 to 100 / 0 / 1%]
8-801-004	Toner Remain	C	CTL*	[0 to 100 / 0 / 1%]
8-811-001	Eco Counter	Eco Total	CTL*	[0 to 99999999 / 0 / 1]
8-811-002	Eco Counter	Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-003	Eco Counter	Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-004	Eco Counter	Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-811-005	Eco Counter	Combine	CTL*	[0 to 99999999 / 0 / 1]
8-811-006	Eco Counter	Color(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-007	Eco Counter	Full Color(%)	CTL*	[0 to 100 / 0 / 1%]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-811-008	Eco Counter	Duplex(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-009	Eco Counter	Combine(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-010	Eco Counter	Paper Cut(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-051	Eco Counter	Sync Eco Total	CTL*	[0 to 99999999 / 0 / 1]
8-811-052	Eco Counter	Sync Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-053	Eco Counter	Sync Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-811-054	Eco Counter	Sync Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-811-055	Eco Counter	Sync Combine	CTL*	[0 to 99999999 / 0 / 1]
8-811-056	Eco Counter	Sync Color(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-057	Eco Counter	Sync Full Color(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-058	Eco Counter	Sync Duplex(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-059	Eco Counter	Sync Combine(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-060	Eco Counter	Sync Paper Cut(%)	CTL*	[0 to 100 / 0 / 1%]
8-811-101	Eco Counter	Eco Total>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-102	Eco Counter	Color>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-103	Eco Counter	Full Color>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-104	Eco Counter	Duplex>Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-105	Eco Counter	Combine>Last	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-811-106	Eco Counter	Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-107	Eco Counter	Full Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-108	Eco Counter	Duplex(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-109	Eco Counter	Combine(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-110	Eco Counter	Paper Cut(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-151	Eco Counter	Sync Eco Totalr:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-152	Eco Counter	Sync Color:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-153	Eco Counter	Sync Full Color:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-154	Eco Counter	Sync Duplex:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-155	Eco Counter	Sync Combine:Last	CTL*	[0 to 99999999 / 0 / 1]
8-811-156	Eco Counter	Sync Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-157	Eco Counter	Sync Full Color(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-158	Eco Counter	Sync Duplex(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-159	Eco Counter	Sync Combine(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-811-160	Eco Counter	Sync Paper Cut(%):Last	CTL*	[0 to 100 / 0 / 1%]
8-851-011	Cvr Cnt:0-10%	0~2%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-012	Cvr Cnt:0-10%	0~2%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-013	Cvr Cnt:0-10%	0~2%:M	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-851-014	Cvr Cnt:0-10%	0~2%:C	CTL*	[0 to 99999999 / 0 / 1]
8-851-021	Cvr Cnt:0-10%	3~4%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-022	Cvr Cnt:0-10%	3~4%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-023	Cvr Cnt:0-10%	3~4%:M	CTL*	[0 to 99999999 / 0 / 1]
8-851-024	Cvr Cnt:0-10%	3~4%:C	CTL*	[0 to 99999999 / 0 / 1]
8-851-031	Cvr Cnt:0-10%	5~7%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-032	Cvr Cnt:0-10%	5~7%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-033	Cvr Cnt:0-10%	5~7%:M	CTL*	[0 to 99999999 / 0 / 1]
8-851-034	Cvr Cnt:0-10%	5~7%:C	CTL*	[0 to 99999999 / 0 / 1]
8-851-041	Cvr Cnt:0-10%	8~10%:BK	CTL*	[0 to 99999999 / 0 / 1]
8-851-042	Cvr Cnt:0-10%	8~10%:Y	CTL*	[0 to 99999999 / 0 / 1]
8-851-043	Cvr Cnt:0-10%	8~10%:M	CTL*	[0 to 99999999 / 0 / 1]
8-851-044	Cvr Cnt:0-10%	8~10%:C	CTL*	[0 to 99999999 / 0 / 1]
8-861-001	Cvr Cnt:11-20%	BK	CTL*	[0 to 99999999 / 0 / 1]
8-861-002	Cvr Cnt:11-20%	Y	CTL*	[0 to 99999999 / 0 / 1]
8-861-003	Cvr Cnt:11-20%	M	CTL*	[0 to 99999999 / 0 / 1]
8-861-004	Cvr Cnt:11-20%	C	CTL*	[0 to 99999999 / 0 / 1]
8-871-001	Cvr Cnt:21-30%	BK	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-871-002	Cvr Cnt:21-30%	Y	CTL*	[0 to 99999999 / 0 / 1]
8-871-003	Cvr Cnt:21-30%	M	CTL*	[0 to 99999999 / 0 / 1]
8-871-004	Cvr Cnt:21-30%	C	CTL*	[0 to 99999999 / 0 / 1]
8-881-001	Cvr Cnt:31%-	BK	CTL*	[0 to 99999999 / 0 / 1]
8-881-002	Cvr Cnt:31%-	Y	CTL*	[0 to 99999999 / 0 / 1]
8-881-003	Cvr Cnt:31%-	M	CTL*	[0 to 99999999 / 0 / 1]
8-881-004	Cvr Cnt:31%-	C	CTL*	[0 to 99999999 / 0 / 1]
8-891-001	Page/Toner Bottle	BK	CTL*	[0 to 99999999 / 0 / 1]
8-891-002	Page/Toner Bottle	Y	CTL*	[0 to 99999999 / 0 / 1]
8-891-003	Page/Toner Bottle	M	CTL*	[0 to 99999999 / 0 / 1]
8-891-004	Page/Toner Bottle	C	CTL*	[0 to 99999999 / 0 / 1]
8-901-001	Page/Toner_Prev1	BK	CTL*	[0 to 99999999 / 0 / 1]
8-901-002	Page/Toner_Prev1	Y	CTL*	[0 to 99999999 / 0 / 1]
8-901-003	Page/Toner_Prev1	M	CTL*	[0 to 99999999 / 0 / 1]
8-901-004	Page/Toner_Prev1	C	CTL*	[0 to 99999999 / 0 / 1]
8-911-001	Page/Toner_Prev2	BK	CTL*	[0 to 99999999 / 0 / 1]
8-911-002	Page/Toner_Prev2	Y	CTL*	[0 to 99999999 / 0 / 1]
8-911-003	Page/Toner_Prev2	M	CTL*	[0 to 99999999 / 0 / 1]

5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-911-004	Page/Toner_Prev2	C	CTL*	[0 to 99999999 / 0 / 1]
8-921-001	Cvr Cnt/Total	Coverage(%):BK	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-002	Cvr Cnt/Total	Coverage(%):Y	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-003	Cvr Cnt/Total	Coverage(%):M	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-004	Cvr Cnt/Total	Coverage(%):C	CTL*	[0 to 2147483647 / 0 / 1%]
8-921-011	Cvr Cnt/Total	Coverage/P:BK	CTL*	[0 to 99999999 / 0 / 1]
8-921-012	Cvr Cnt/Total	Coverage/P:Y	CTL*	[0 to 99999999 / 0 / 1]
8-921-013	Cvr Cnt/Total	Coverage/P:M	CTL*	[0 to 99999999 / 0 / 1]
8-921-014	Cvr Cnt/Total	Coverage/P:C	CTL*	[0 to 99999999 / 0 / 1]
8-941-001	Machine Status	Operation Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-002	Machine Status	Standby Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-003	Machine Status	Energy Save Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-004	Machine Status	Low Power Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-005	Machine Status	Off Mode Time	CTL*	[0 to 99999999 / 0 / 1]
8-941-006	Machine Status	SC	CTL*	[0 to 99999999 / 0 / 1]
8-941-007	Machine Status	PrtJam	CTL*	[0 to 99999999 / 0 / 1]
8-941-008	Machine Status	OrgJam	CTL*	[0 to 99999999 / 0 / 1]
8-941-009	Machine Status	Supply PM Unit End	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-951-001	AddBook Register	User Code /User ID	CTL*	[0 to 99999 / 0 / 1]
8-951-002	AddBook Register	Mail Address	CTL*	[0 to 99999 / 0 / 1]
8-951-003	AddBook Register	Fax Destination	CTL*	[0 to 99999 / 0 / 1]
8-951-004	AddBook Register	Group	CTL*	[0 to 99999 / 0 / 1]
8-951-005	AddBook Register	Transfer Request	CTL*	[0 to 99999 / 0 / 1]
8-951-006	AddBook Register	F-Code	CTL*	[0 to 99999 / 0 / 1]
8-951-007	AddBook Register	Copy Program	CTL*	[0 to 255 / 0 / 1]
8-951-008	AddBook Register	Fax Program	CTL*	[0 to 255 / 0 / 1]
8-951-009	AddBook Register	Printer Program	CTL*	[0 to 255 / 0 / 1]
8-951-010	AddBook Register	Scanner Program	CTL*	[0 to 255 / 0 / 1]
8-961-001	Electricity Status	Ctrl Standby Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-002	Electricity Status	STR Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-003	Electricity Status	Main Power Off Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-004	Electricity Status	Reading and Printing Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-005	Electricity Status	Printing Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-006	Electricity Status	Reading Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-007	Electricity Status	Eng Waiting Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-008	Electricity Status	Low Power State Time	CTL*	[0 to 99999999 / 0 / 1]



5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-961-009	Electricity Status	Silent State Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-010	Electricity Status	Heater Off State Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-011	Electricity Status	LCD on Time	CTL*	[0 to 99999999 / 0 / 1]
8-961-101	Electricity Status	Silent Print	CTL*	[0 to 99999999 / 0 / 1]
8-971-001	Unit Control	Engine Off Recovery Count	CTL*	[0 to 99999999 / 0 / 1]
8-971-002	Unit Control	Power Off Count	CTL*	[0 to 99999999 / 0 / 1]
8-971-003	Unit Control	Force Power Off Count	CTL*	[0 to 99999999 / 0 / 1]
8-999-001	Admin. Counter List	Total	CTL*	[0 to 99999999 / 0 / 1]
8-999-002	Admin. Counter List	Copy: Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-003	Admin. Counter List	Copy: BW	CTL*	[0 to 99999999 / 0 / 1]
8-999-004	Admin. Counter List	Copy: Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-005	Admin. Counter List	Copy: Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-006	Admin. Counter List	Printer: Full Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-007	Admin. Counter List	Printer: BW	CTL*	[0 to 99999999 / 0 / 1]
8-999-008	Admin. Counter List	Printer: Single Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-009	Admin. Counter List	Printer: Two Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-010	Admin. Counter List	Fax Print: BW	CTL*	[0 to 99999999 / 0 / 1]
8-999-011	Admin. Counter List	Fax Print: Single Color	CTL*	[0 to 99999999 / 0 / 1]

## 5.SP Mode Tables (for MF Models)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-999-013	Admin. Counter List	Duplex	CTL*	[0 to 99999999 / 0 / 1]
8-999-022	Admin. Counter List	Copy: Full Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-023	Admin. Counter List	Copy: BW(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-024	Admin. Counter List	Copy: Single Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-025	Admin. Counter List	Copy: Two Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-026	Admin. Counter List	Printer: Full Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-027	Admin. Counter List	Printer: BW(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-028	Admin. Counter List	Printer: Single Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-029	Admin. Counter List	Printer: Two Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-030	Admin. Counter List	Fax Print: BW(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-031	Admin. Counter List	Fax Print: Single Color(%)	CTL*	[0 to 2147483647 / 0 / 1]
8-999-101	Admin. Counter List	Transmission Total: Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-102	Admin. Counter List	Transmission Total: BW	CTL*	[0 to 99999999 / 0 / 1]
8-999-103	Admin. Counter List	FAX Transmission	CTL*	[0 to 99999999 / 0 / 1]
8-999-104	Admin. Counter List	Scanner Transmission: Color	CTL*	[0 to 99999999 / 0 / 1]
8-999-105	Admin. Counter List	Scanner Transmission: BW	CTL*	[0 to 99999999 / 0 / 1]

## Printer Service Mode

1001	Bit Switch			
1-	Bit Switch 1		0	1
001- 001	bit 0	<b>DFU</b>	-	-
	bit 1	<b>Responding with the hostname as the sysName</b>	Model name (PnP name)	Hostname
	This BitSwitch can change the value of the sysName. 0 (default): Model name (PnP name) such as "MP C401SP" 1: Host name			
	bit 2	<b>DFU</b>	-	-
	bit 3	<b>No I/O Timeout</b>	Disabled	Enabled
	Enables/Disables MFP I/O Timeouts. If enabled, the MFP I/O Timeout setting will have no affect. I/O Timeouts will never occur.			
	bit 4	<b>SD Card Save Mode</b>	Disabled	Enabled
	If this bit switch is enabled, print jobs will be saved to the GW SD slot and not output to paper.			
	bit 5	<b>[PS and PDF] Paper size error margin</b>	±5pt	±10pt
	When a PS job is printed by using a custom paper size, the job might not be printed because of a paper size mismatch caused by a calculation error. By default, the error margin for matching to a paper size is ±5 points. By enabling this BitSwitch, the error margin for matching to a paper size can be extended to ±10 points.			
	bit 6	<b>Color balance switching</b>	Disabled	Enabled
	This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance that is equivalent to Fuji-Xerox printers will be used.			
	bit 7	<b>DFU</b>	-	-

1001	Bit Switch			
1-001- 002	Bit Switch 2		0	1
	bit 0	<b>Color balance switching</b>	Disabled	Enabled
	This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance from 09S and earlier models will be used.			
	bit 1	<b>DFU</b>	-	-

5.SP Mode Tables (for MF Models)

1001		Bit Switch		
bit 2	<b>DFU</b>	-	-	
bit 3	<b>[PCL5e/c.PS]: PDL Auto Switching</b>	Enable	Disable	
	Enables/disable the MFPs ability to change the PDL processor mid-job. Some host systems submit jobs that contain both PS and PCL5e/c. If Auto PDL switching is disabled, these jobs will not be printed properly.			
bit 4	<b>Color balance switching</b>	Disabled	Enabled	
	This BitSwitch can be used to restore the color balance to match that of previous models. If this BitSwitch is set to "1" (Enabled), the color balance from 09A and Extended 09A models will be used.			
bit 5	<b>DFU</b>	-	-	
bit 6	<b>DFU</b>	-	-	
bit 7	<b>DFU</b>	-	-	

1001		Bit Switch		
1-001-003	Bit Switch 3	0	1	
bit 0	<b>DFU</b>	-	-	
bit 1	<b>DFU</b>	-	-	
bit 2	<b>[PCL5e/c]: Legacy HP compatibility</b>	Disabled	Enabled	
	Uses the same left margin as older HP models such as HP4000/HP8000. In other words, the left margin defined in the job (usually "<ESC>*r0A") will be changed to "<ESC>*r1A".			
bit 3 to 7	<b>DFU</b>	-	-	

1001		Bit Switch		
1-001-004	Bit Switch 4	0	1	
	bit 0 to 7	<b>DFU</b>	-	-

1001		Bit Switch		
1-001-005	Bit Switch 5	0	1	
bit 0	<b>Show "Collate Type", "Staple Type" and "Punch Type" buttons on the operation panel.</b>	Disabled	Enabled	
	If enabled, users will be able to configure a Collate Type, Staple Type, and Punch Type			

5.SP Mode Tables (for MF Models)

1001		Bit Switch	
	<p>from the operation panel. The available Types will depend on the device and configured options.</p> <p>After enabling this BitSwitch, the settings will appear under: User Tools &gt; Printer Features &gt; System</p>		
bit 1	<b>Multiple copies if a paper size or type mismatch occurs</b>	Disabled (Single copy)	Enabled (Multiple copy)
	<p>If a paper size or type mismatch occurs during the printing of multiple copies, only a single copy is output by default. Using this bit switch, the device can be configured to print all copies even if a paper mismatch occurs.</p>		
bit 2	<b>Prevent SDK applications from altering the contents of a job.</b>	Disabled	Enabled
	<p>Enable: SDK applications will not be able to alter print data. This is achieved by preventing SDK applications from accessing a module called the "GPS Filter".</p> <p><b>Note:</b> The main purpose of this bit switch is for troubleshooting the effects of SDK applications on data.</p>		
bit 3	<b>[PS] PS Criteria</b>	Pattern3	Pattern1
	<p>Change the number of PS criterion used by the PS interpreter to determine whether a job is PS data or not.</p> <p>Pattern3: The larger the pattern number, the greater the number of criterion used.</p> <p>Pattern1: A small number of PS tags and headers</p>		
bit 4	<b>Increase max. number of stored jobs.</b>	Disabled (100)	Enabled (750)
	<p>Changes the maximum number of jobs that can be stored on the HDD. The default (disabled) is 100. If this is enabled, the max. will be raised to 750 or 1000 depending on the model.</p>		
bit 5	<b>DFU</b>	-	-
bit 6	<b>Method for determining the image rotation for the edge to bind on.</b>	Disabled	Enabled
	<p>Enable: The image rotation will be performed as they were in the specifications of older models for the binding of pages of mixed orientation jobs.</p> <p>The old models are below:</p> <ul style="list-style-type: none"> <li>- PCL: Pre-04A models</li> <li>- PS/PDF/RPCS: Pre-05S models</li> </ul>		
bit 7	<b>Letterhead mode printing</b>	Disabled	Enabled (Duplex)
	<p>Routes all pages through the duplex unit.</p> <p>If this is disabled, simplex pages or the last page of an odd-paged duplex job are not</p>		

5.SP Mode Tables (for MF Models)

1001	Bit Switch	
		routed through the duplex unit. This could result in problems with letterhead/pre-printed pages. Only affects pages specified as Letterhead paper.

1001	Bit Switch			
1-001-006	Bit Switch 6		0	1
	bit 0	<b>Forced printing</b>	Disabled	Enabled
	If enabled, the image will be printed regardless of whether the specified roller is of the correct size paper or not. This is similar to "Form Feed" on a standard printer. The default is disabled.			
	bit 1 to 7	<b>DFU</b>	-	-

1001	Bit Switch			
1-001-007	Bit Switch 7		0	1
	bit 0 to 7		<b>DFU</b>	-

1001	Bit Switch			
1-001-008	Bit Switch 8		0	1
	bit 0 to 2	<b>DFU</b>	-	-
	bit 3	<b>[PCL.PS]: Allow BW jobs to print without requiring User Code</b>	Disabled	Enabled (allow BW jobs to print without a user code)
		BW jobs submitted without a user code will be printed even if usercode authentication is enabled. <b>Note:</b> Color jobs will not be printed without a valid user code.		
	bit 4 to 5	<b>DFU</b>	-	-
	bit 6	<b>PCL, RPCS, PS: Forced BW print</b>	Enabled	Disabled
		Switches whether to ignore PDL color command.		
	bit 7	<b>[PDF]: Orientation Auto Detect Function</b>	Enabled	Disabled
Automatically chooses page orientations of PDF jobs (Landscape or Portrait) based on the content.				

5.SP Mode Tables (for MF Models)

1001		Bit Switch		
1-001-009	Bit Switch 9		0	1
	bit 0	<b>PDL Auto Detection timeout of jobs submitted via USB or Parallel Port (IEEE 1284).</b>	Disabled (Immediately)	Enabled (10 seconds)
	To be used if PDL auto-detection fails. A failure of PDL autodetection does not necessarily mean that the job can not be printed. This bit switch tells the device whether to time-out immediately (default) upon failure or to wait 10 seconds.			
	bit 1	<b>DFU</b>	-	-
	bit 2	<b>Job Cancel</b>	Disabled (Not cancelled)	Enabled (Cancelled)
	Enable: All jobs will be cancelled after a jam occurs. <b>Note:</b> If this bit switch is enabled, printing under the following conditions might result in problems: - Job submission via USB or parallel port - Spool printing (WIM > Configuration > Device Settings > System)			
bit 3	<b>DFU</b>	-	-	
bit 4	<b>Timing of the PjL Status ReadBack (JOB END) when printing multiple collated copies.</b>	Disabled	Enabled	
This bit switch determines the timing of the PjL USTATUS JOB END sent when multiple collated copies are being printed. Disable (=0 (default)): JOB END is sent by the device to the client after the first copy has completed printing. This causes the page counter to be incremented after the first copy and then again at the end of the job. Enable (=1): JOB END is sent by the device to the client after the last copy has finished printing. This causes the page counter to be incremented at the end of each job.				

1001		Bit Switch		
1-001-009	Bit Switch 9		0	1
	bit 5	<b>Display UTF-8 text in the operation panel</b>	Enabled	Disabled
Enable (=0): Text composed of UTF-8 characters can be displayed in the operation panel. Disable (=1):				

5.SP Mode Tables (for MF Models)

1001		Bit Switch		
		<p>UTF-8 characters cannot be displayed in the operation panel. For example, job names are sometimes stored in the MIB using UTF-8 encoded characters. When these are displayed on the operation panel, they will be garbled unless this bit switch is enabled (=0).</p>		
bit	<b>Disable super option</b>	Disabled	Enabled	
6	Switches super option disable on / off. If this is On, multiple jobs are grouped at LPR port. P.JL settings are enabled even jobs that are specified queue names are sent.			
bit	<b>Enable/Disable Print from USB/SD's Preview function</b>	Enabled	Disabled	
7	<p>Determines whether print from USB/SD will have the Preview function. Enabled (=0): Print from USB/SD will have the Preview function. Disabled (=1): Print from USB/SD will not have the Preview function.</p>			

1001		Bit Switch		
1-001-010	Bit Switch A	0	1	
bit 0 to 3	<b>DFU</b>	-	-	
bit 4	<b>Not Used</b>	-	-	
bit 5	<b>Store and Skip Errored Job locks the queue</b>	Queue is not locked after SSEJ	Queue locked after SSEJ	
	If this is 1, then after a job is stored using Store and Skip Errored Job (SSEJ), new jobs cannot be added to the queue until the stored job has been completely printed.			
bit 6	<b>Allow use of Store and Skip Errored Job if connected to an external charge device.</b>	Does not allow SSEJ with ECD	Allows SSEJ with ECD	
	If this is 0, Store and Skip Errored Job (SSEJ) will be automatically disabled if an external charge device is connected. <b>Note:</b> We do not officially support enabling this bit switch (1). Use it at your own risk.			
bit 7	<b>Job cancels remaining pages when the paid-for pages have been printed on an external charge device</b>	Job does not cancel	Job cancels	
	<p>When setting 1 is enabled, after printing the paid-for pages on an external charge device, the job that includes any remaining pages will be canceled. This setting will prevent the next user from printing the unnecessary pages from the previous user's print job.</p>			



5.SP Mode Tables (for MF Models)

1001		Bit Switch	
1-	Bit Switch B	0	1
001-011	bit 0	<b>Show Menu List</b>	Hide Menu List Show Menu List
	If this is 0, the Menu List button will be removed from Printer Features.		
	bit 1	<b>Print job interruption</b>	Does not allow interruption Allow interruption
	0 (Default): Print jobs are not interrupted. If a job is promoted to the top of the print queue, it will wait for the currently printing job to finish. 1: If a job is promoted to the top of the queue, it will interrupt the currently printing job and start printing immediately.		
	bit 2	<b>Switch for enabling or disabling Limitless Paper Feeding for the Bypass Tray</b>	Enable Disable
	<p>When the Bypass Tray is the target of the Auto Tray Select and Any Size/Type is configured for the Tray Setting Priority setting of the Bypass Tray, this BitSwitch can switch the behavior whether or not Limitless Paper Feeding is applied to the Bypass Tray.* The default is Enabled (=0).</p> <p>*Limitless Paper Feeding will try a matching tray of the next highest priority if a job specified to Auto Tray Select as the tray setting is submitted and the tray runs out of paper.</p> <p>Enabled (=0: Default): Limitless Paper Feeding is applied to the Bypass Tray. If a tray other than the Bypass Tray matches the job's paper size and type but has run out of paper, printing will occur from the Bypass Tray.</p> <p>Disabled (=1): Limitless Paper Feeding is not applied to the Bypass Tray. If a tray other than the Bypass Tray matches the job's paper size and type but has run out of paper, printing will stop and an alert will appear on the LCD screen, stating that the tray has run out of paper. This prevents unexpected use of the Bypass Tray.</p> <p>Limitations when this BitSwitch is set to "1": - The "Paper Tray Priority: Printer" setting must be configured to a tray other than the Bypass Tray. - Jobs that contain more than one paper size cannot be printed.</p>		
	bit 3	<b>DFU</b>	- -
	bit 4	<b>Add "Apply Auto Paper Select" is the condition that decides if the device's paper size or paper type should be overwritten.</b>	Enabled Enabled
If this BitSwitch is set to "1" (enabled), the "Apply Auto Paper Select" setting will decide			

5.SP Mode Tables (for MF Models)

1001		Bit Switch	
		if the paper size or paper type that is specified in the device settings should be overwritten by the job's commands when "Tray Setting Priority" is set to "Driver/Command" or "Any Type". - Apply Auto Paper Select = OFF: Overwritten (priority is given to the job's commands) - Apply Auto Paper Select = ON: Not overwritten (priority is given to the device settings)	
	bit 5 to 7	<b>Not Used</b>	-

1001		Bit Switch	
1-001-012	Bit Switch C	0	1
	bit 0	<b>DFU</b>	-
	bit 1 to 4	<b>Not Used</b>	-
	bit 5	<b>Change the user ID type displayed on the operation panel</b>	Disabled    Enabled
	As of 15S models, the Login User Name can be displayed on the operation panel. The user ID type displayed on the operation panel can be changed by configuring BitSwitch #12-5 as follows: - 0 (Default): Login User Name - 1: User ID. If this is enabled, User ID will be displayed, which is equivalent to the behavior exhibited in 14A and earlier models.		
	bit 6	<b>AirPrint</b>	Enabled    Disabled
	For 15S and later models that support AirPrint, AirPrint can be disabled by changing this Bit Switch from 0 (default) to 1.		
	bit 7	<b>Not Used</b>	

1003		[Clear Setting]
1-003-001	Initialize System	Initializes settings in the System menu of the user mode.
1-003-003	Delete Program	<b>DFU</b>

1004		[Print Summary]
1-004-001	Service Summary1	Prints the service summary sheet (a summary of all the controller settings).
1-004-	Service	

5.SP Mode Tables (for MF Models)

002	Summary2	
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<b>1101</b>	<b>[Data Recall]</b>	
	Recalls a set of gamma settings. This can be either a) the factory setting, b) the previous setting, or c) the current setting.	
1-101-001	Factory	-
1-101-002	Previous	-
1-101-002	Current	-

<b>1102</b>	<b>[Resolution Settings]</b>	
	Sets the printing mode (resolution) for the printer gamma adjustment. The asterisk (*) shows which mode is set. <ul style="list-style-type: none"> <li>• 00: *1200x1200Photo</li> <li>• 01: 600x600Text</li> <li>• 02: 1200x1200Text</li> <li>• 03: 1200x600Text</li> <li>• 04: 600x600Photo</li> <li>• 05: 1200x600Photo</li> <li>• 06: 600x600Text</li> <li>• 07: 600x600Text</li> </ul>	
1102-001	Tone Control Mode Selection	[0 to 99 / <b>0</b> / 1/step]

<b>1103</b>	<b>[PrnColorSheet]</b>	
1103-001	ToneCtlSheet	Prints the test page to check the color balance before and after the gamma adjustment.
1103-002	ColorChart	

<b>1104</b>	<b>[ToneCtlValue]</b>	
	Adjusts the printer gamma for the mode selected in the Mode Selection menu.	
1104-001	Black: Highlight	[0 to 30 / <b>0</b> / 1/step]
1104-021	Cyan: Highlight	
1104-041	Magenta: Highlight	
1104-061	Yellow: Highlight	
1104-002	Black: Shadow	[0 to 30 / <b>0</b> / 1/step]
1104-022	Cyan: Shadow	

5.SP Mode Tables (for MF Models)

1104-042	Magenta: Shadow	
1104-062	Yellow: Shadow	
1104-003	Black: Middle	[0 to 30 / 0 / 1/step]
1104-023	Cyan: Middle	
1104-043	Magenta: Middle	
1104-063	Yellow: Middle	
1104-004	Black: IDmax	
1104-024	Cyan: IDmax	[0 to 30 / 0 / 1/step]
1104-044	Magenta: IDmax	
1104-064	Yellow: IDmax	

<b>1105</b>	<b>[Save Tone Control Value]</b>	
	Saves the print gamma (adjusted with the Gamma Adj.) as the new Current Setting. Before the machine stores the new "current settingR", it moves the data stored as the "current setting" to the "previous setting" memory-storage location.	
1105-001	Save Tone Control Value	[EXECUTE]

<b>1106</b>	<b>[Toner Limit]</b>	
	Adjusts the maximum toner amount for image development.	
1106-001	Toner Limit Value	[100 to 400 / 0 / 1/step]

<b>1110</b>	<b>[Media Print Device Setting]</b>	
	Enable or disable the media print support function. 0: Disable, 1:Enable	
1110-002	0: Disable 1:Enable	[0 to 1 / 1 / 1/step]

<b>1111</b>	<b>[All Job Delete Mode]</b>	
	- 0: Exclusive New Job, 1:Including New Job	
1110-002	0: Exclusive New Job 1: Including New Job	[0 or 1 / 1 / 1/step]

<b>1112</b>	<b>[Operation when detecting that the supply has run out]</b>	
	Selects whether or not to stop at once or continue printing even on detecting that the supply has run out.	
1-112-001	-	[0 or 1 / 0 / 1/step]

5.SP Mode Tables (for MF Models)

<b>1113</b>	<b>[IBACC Exec]</b>	
	Sets IBACC correction execution (calculation IBACC gamma) on / off. 0: Not calculate IBACC gamma. (Sets IBACC gamma linear) 1: Calculate IBACC gamma	
1-113-001	0:Off 1:On	[0 or 1 / 1 / 1/step]

<b>1114</b>	<b>[IBACC ToneCtlSet]</b>	
	Sets back to the previous value of IBACC gamma correction for all resolutions. If there is no previous value, sets to the factory default values.	
1-114-001	Tone (Prev.)	-
1-114-002	Tone (Factory)	

<b>1115</b>	<b>[IBACC Exec Time]</b>	
	Displays the time when IBACC is executed or sets back to the previous / initial value.	
1-115-001	Time	-

<b>1115</b>	<b>[IBACC Data Copy]</b>	
	Copies the IBACC data file (ibacc.dat) stored in the flash memory to the microSD card.	
1-115-002	-	[0 or 1 / 1 / 1/step]

<b>1115</b>	<b>[Displaying the setup settings]</b>	
	Selects whether or not to display in the UP mode the setup settings (such as the language, time zone, and daylight saving time settings) when the power is turned on for the very first time.	
1-115-002	-	[0 or 1 / 1 / 1/step] 0: No 1: Yes

## Scanner Service Mode

### SP1-XXX (System and Others)

<b>1001</b>	<b>[Scan Nv Version]</b>		
1-001-005	-	*CTL	-
	<p>Operates automatic initialization to ensure that scanner NV is initialized if necessary. To do this SP, specify the version of scanner NV within 9 characters.</p> <p>“Function name”_”Machine code”_”Serial number”</p> <ul style="list-style-type: none"> <li>- Function name: Enter “3”.</li> <li>- Machine code: Enter the machine code with three characters.</li> <li>- Serial number: Enter the number (default: 001).</li> </ul>		

<b>1005</b>	<b>[Erase margin(Remote scan)]</b>		
1-005-001	Range from 0 to 5 mm	*CTL	[0 to 5 / 0 / 1 mm/step]
	<p>Creates an erase margin for all edges of the scanned image.</p> <p>If the machine has scanned the edge of the original, create a margin. This SP is activated only when the machine uses TWAIN scanning.</p>		

<b>1009</b>	<b>[Remote scan disable]</b>		
1-009-001	0:enable 1:desable	*CTL	[0 or 1 / 0 / - /step]
	Enable or disable remote scan.		

<b>1010</b>	<b>[Non Display ClearLight PDF]</b>		
1-010-001	0:Display 1:Nondisplay	*CTL	[0 or 1 / 0 / - /step]
	Display or nondisplay ClearLight PDF function.		

<b>1011</b>	<b>[Org Count Disp]</b>		
1-011-001	0:ON 1:OFF	*CTL	[0 or 1 / 0 / - /step]
	<p>Display or nondisplay original counter.</p> <p>0: Displays remaining memory.</p> <p>1: Displays original counter.</p>		

<b>1012</b>	<b>[UserInfo Release]</b>		
1-012-001	0:No 1:Yes	*CTL	[0 or 1 / 1 / - /step]
	<p>Set if the following user information is released or not.</p> <ul style="list-style-type: none"> <li>- Destination of the mail, folder, CS</li> <li>- Sender</li> <li>- Message</li> </ul>		

5.SP Mode Tables (for MF Models)

	- Subject - Fail name
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<b>1013</b>	<b>[Scan to Media Device Setting]</b>		
1-013-002	0:OFF 1:ON	*CTL	[0 or 1 / 1 / - /step]
	Enable or disable ScanTo media device.		

<b>1014</b>	<b>[Scan to Folder Pass Input Set]</b>		
1-014-001	0:OFF 1:ON	*CTL	[ 0 or 1 / 0 / - /step]
	Sets enable or disable the password setting when make a Scan to Folder job.		

<b>1016</b>	<b>[Scan To Email Sender Address]</b>		
1-016-001	0:Login User Address 1:POP before SMTP Address		
	Sets the sender of Scan to e-mail function.		

<b>1041</b>	<b>[Scan:FlairAPI Setting]</b>			
1-	0x00 – 0xff	*CTL	* see BitSwitch below:	
041-001	Sets Scanner FlairAPI Function enable / disable. This SP is set by BitSwitch and needs to reboot the machine after making changes.			
bit	Setting	meanings		Description
		0	1	
bit 0	Start of FlairAPI Server	<b>Off (Do not Start)</b>	On (Start)	Sets whether to start exclusive FlairAPI http server. If it is 0, scanning FlairAPI function and simple UI function will be disabled.
bit 1	Access permission of FlairAPI from outside of the machine	<b>Disabled</b>	Enabled	If it is “0”, accessing is limited from the machine only, such as operating panel, SDK/J, MFP browsers etc... If it is “1”, accessing is allowed from outside of FlairAPI such as PC, Remote UI, IT-Box etc...
bit 2	IPv6 (Exclusive) / IPv4 (Priority) Switching	<b>IPv6 (Exclusive)</b>	IPv4 (Priority)	If this bit is “0”, only IPv6 accessing is permitted. If this bit is “1” and IPv4 is enabled, the machine uses IPv4 accessing. If this bit is “1” and IPv4 is disabled, the machine uses IPv6 accessing. In this case, it is unable to access through Smart Operation Panel if IPv4 address is enabled.
bit 3	Remote UI	<b>Not Used</b>	Use	Sets use of Remote UI for scanner function.

5.SP Mode Tables (for MF Models)

	Function			
bit 4	Reserved	-	-	-
bit 5	Reserved	-	-	-
bit 6	Reserved	-	-	-
bit 7	Reserved	-	-	-

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SP2-XXX (Scanning-image Quality)

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<b>2021</b>	<b>[Compression Level(Grayscale)]</b>		
	Selects the compression ratio for grayscale processing mode (JPEG) for the five settings that can be selected at the operation panel.		
2-021-001	Comp1:5-95	*CTL	[5 to 95 / <b>20</b> / 1 /step ]
2-021-002	Comp2:5-95	*CTL	[5 to 95 / <b>40</b> / 1 /step ]
2-021-003	Comp3:5-95	*CTL	[5 to 95 / <b>65</b> / 1 /step ]
2-021-004	Comp4:5-95	*CTL	[5 to 95 / <b>80</b> / 1 /step ]
2-021-005	Comp5:5-95	*CTL	[5 to 95 / <b>95</b> / 1 /step ]



# 6. Device Software Configuration

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## Printing Features

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### Auto PDL Detection Function

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#### Overview

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The Auto PDL Detection function gives the MFP the ability to determine the PDL of a job or of specific parts of a job. This can be especially useful in cases where the PDL is not specified or if the job contains multiple PDLs.

#### Conditions for Detection of the PDL

---

The MFP will only attempt to detect a job's PDL if all of the following conditions are met.

- No @PJL ENTER LANGUAGE command is contained in the job
- No submission protocol options (lpr, ftp, rcp, or rsh options) have been used to specify the PDL
- User Tools > Printer > System > Printer Language = Auto

#### PDL Detection by the Printer System, PCL Interpreter and PS Interpreter

---

There are 3 components in the printer which can perform Auto PDL Detection:

1. **Printer system:**

Uses a set of triggers unique to PCL5, PS or PDF. Up to 2KB from the start of the job can be searched for triggers.

2. **PCL interpreter:**

It can detect PS triggers in PCL data. If a PS trigger is detected, the PCL interpreter will abort processing and return the unprocessed part of the job back to the printer system. Up to 256 bytes from the start of each page can be searched for triggers.

3. **PS interpreter:**

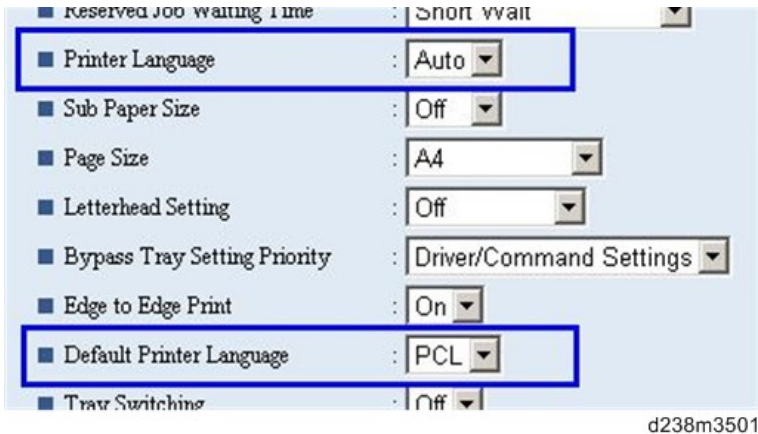
It can detect PCL5 triggers in PS data. If a PCL trigger is detected, the PS interpreter will abort processing and return the unprocessed part of the job back to the printer system. The entire page (regardless of the number of bytes) is searched for triggers.

 **Note**

- 2. and 3. can be disabled using Printer Bit Switch 2-3=1.
- If the "Printer Language" is configured to anything other than Auto, all detection will be disabled.
- An interpreter submits a job page by page to the rasterizer. Therefore, when an interpreter detects a trigger mid-job, the previous pages will have already been submitted and will be output using the previously detected PDL.
- If the PDL cannot be detected by the printer system, then the PDL defaults to the one

configured in "Configuration > Printer Basic Settings > Default Printer Language".

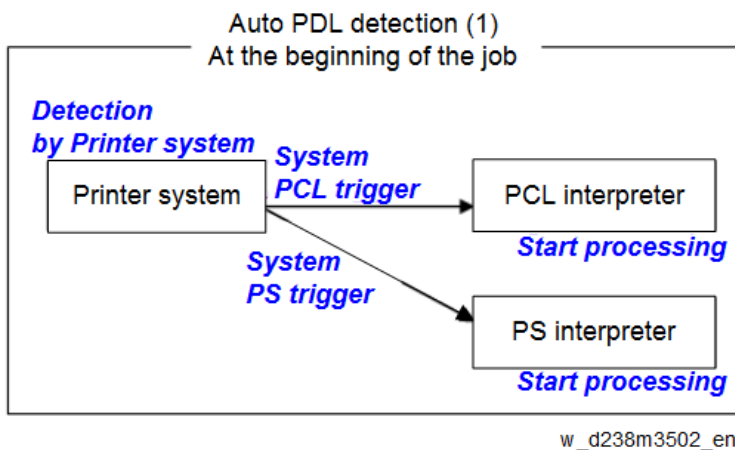
**The Printer Language setting and Default Printer Language setting in WIM:**



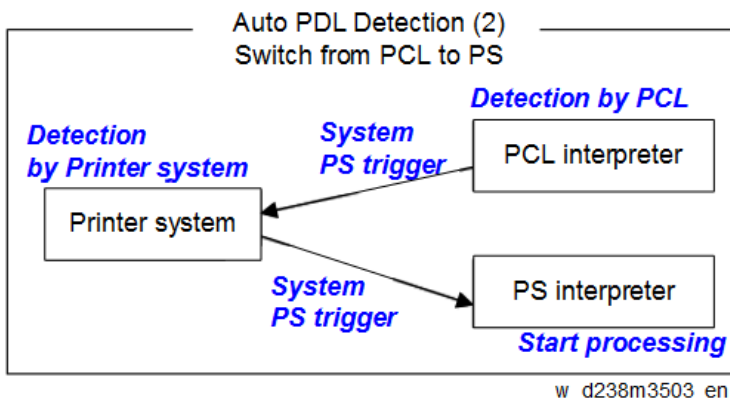
**PDL Selection and Switching**

3 types of PDL selection/switching are performed:

1. PDL selection (PCL5 or PS (including PDF)) at the beginning of the job: performed by the printer system

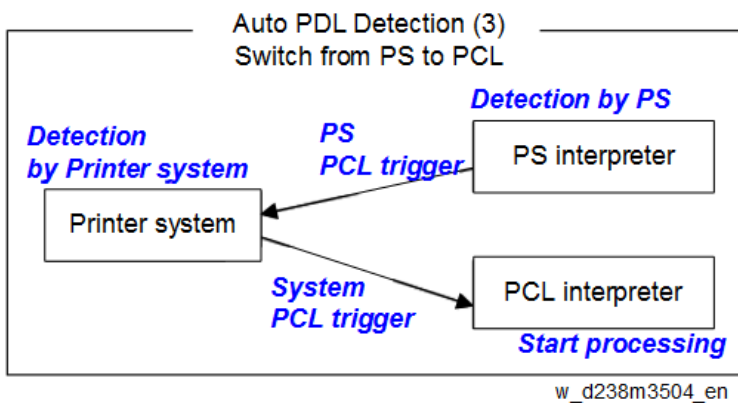


2. PDL switching from PCL5 to PS: performed by the PCL interpreter and the printer system



## 6. Device Software Configuration

3. PDL switching from PS to PCL5: performed by the PS interpreter and the printer system



## Triggers

### Printer system

PCL5 triggers	[ESC]E [FF]
PS triggers	%!PS-Adobe-3.1 %! dict begin bind def findfont showpage /statusdict 0 startjob [EOT] 0x04 } + space character + "def" userdict 0x14
PDF triggers	%PDF- %!PS-Adobe-M.nPDF- (*M, n=numeric)

\* "userdict" is excluded by configuring Printer Bit Switch 5-3=1.

#### ↓ Note

- Up to 2KB from the start of the job can be searched for triggers.
- By setting Printer Bit Switch 5-3 to 1:
  - "%%" can be added to the PS triggers
  - "userdict" is excluded
- If a job is identified as PDF, it will be sent to the PS interpreter to be processed as a regular PS job.

**PS interpreter**

PCL5 trigger	[ESC]E and 2 or more continuous PCL commands
--------------	--

**Note**

- Up to 256 bytes from the start of each page can be searched for triggers.

## Some Possible Problems

**Garbled output:**

If a string of characters (or binary data) is mistaken as a trigger and an incorrect PDL is applied, the output will be garbled.

**Incorrect printer settings:**

Printer settings, for example the paper size, is incorrectly applied. This can happen when the printer settings at the beginning of the job are initialized before a PDL switch occurred and no settings were configured for the rest of the job.

## Printer Bit Switch Description

**Bit Switch 2-3**

This controls Auto PDL Detection by the PCL interpreter and PS interpreter.

BitSW 2-3=0 (default):

If PDL switching is applied to the job, all of the printer system, PCL interpreter and PS interpreter will search for switching criteria (triggers).

BitSW 2-3=1:

Only the printer system will search for switching criteria (triggers). PCL/PS interpreters will not.

**Bit Switch 5-3**

This affects the PDL switching criteria (triggers) used by the printer system.

BitSW 5-3=0 (default):

"%%%" is not used as a printer system PS trigger. "%%%" will not call the PS interpreter.

BitSW 5-3=1:

"%%%" is used as a printer system PS trigger.

The reason that "%%%" is not included as a trigger by default, is that a string of text in the body of the job such as the below, could result in a false positive. This would trigger a switch and result garbled output.

%%%%%%%%%

However some customers prefer that "%%%" be included as a switching criteria. BitSW5-3=1 should be used in such a case.

**Note**

- A side effect of BitSW5-3=1 is that "userdict" will no longer be used as a PS trigger.

**Bit Switch 9-0**

These determine whether Auto PDL Detection for print jobs transmitted via USB/parallel will wait 10 seconds to make sure the first 2KB of the job has been sent.

## 6. Device Software Configuration

The Printer system portion of the Auto PDL Detection function is only performed on the first 2KB of a job and can wait up to 10 seconds for that first 2KB to arrive. As the printer is unable to detect the end of jobs submitted over a USB/Parallel connection, it might be preferable to not wait 10 seconds if jobs of less than 2KB are going to be printed. Enabling/disabling this waiting time is the purpose of BitSw 9-0.

BitSw 9-0=0 (default):

The printer system will not wait 10 seconds for the first 2KB of data to arrive.

BitSw 9-0=1:

The printer system will wait up to 10 seconds for the first 2KB of data to arrive.

---

## Print Image Rotation

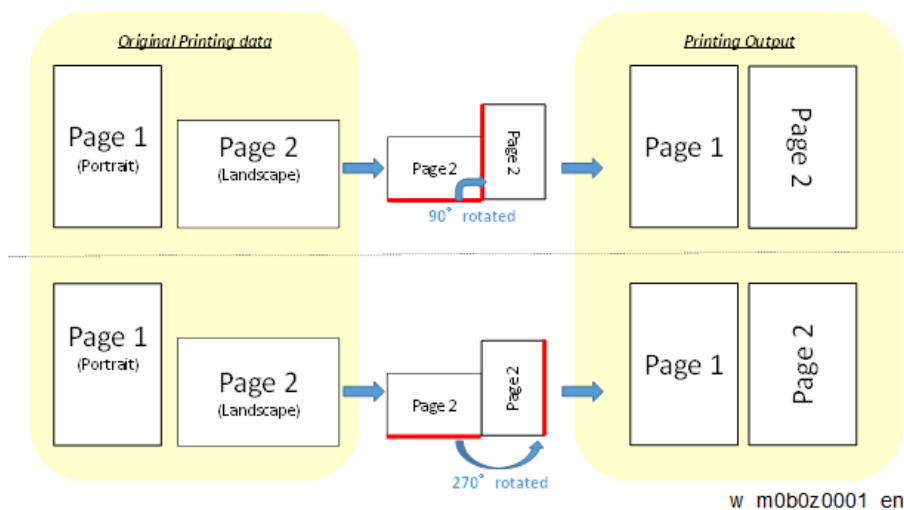
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### Printer Bit Switch Description

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When printing a Landscape/Portrait mixed job, to print an image in a different orientation from the previous page, the image needs to be rotated.

The angle of rotation is fixed at either 90 degrees or 270 degrees according to the rules established by the setting of bit switch 5-6.



Depending on the PDL, there are various conditions related to determining the angle of rotation.

In summary, the angle is determined depending on:

- The image orientation of the previous page.
- The binding orientation of the printed data.

The following table shows the conditions for different angles of rotation for each PDL.

### Bit switch 5-6 = 1 (Default)

PS3	
The previous page is Landscape	270°
The previous page is Portrait	90°

PCL	
Long Edge Binding	90°
Short Edge Binding	270°

**Bit switch 5-6 = 0 (New)**

PS3 (If Orientation auto detection is enabled)	
Long Edge Binding and the previous page is Landscape	90°
Long Edge Binding and the previous page is Portrait	270°
Short Edge Binding and the previous page is Landscape	270°
Short Edge Binding and the previous page is Portrait	90°

PCL	
The previous page is Landscape	90°
The previous page is Portrait	270°

**Output Sample**

Bit switch 5-6 = 1														
PS3	<table border="1"> <thead> <tr> <th>Binding Orientation</th> <th>Orientation of Document</th> <th>IRIPS PS Output Result</th> </tr> </thead> <tbody> <tr> <td rowspan="2">LongEdgeBind</td> <td>Top</td> <td>← L L L P P P P L </td> </tr> <tr> <td>Left</td> <td>← P P P L L L L P </td> </tr> <tr> <td rowspan="2">ShortEdgeBind</td> <td>Left</td> <td>← L L L P P P P L </td> </tr> <tr> <td>Top</td> <td>← P P P L L L L P </td> </tr> </tbody> </table> <p style="text-align: right; font-size: small;">w_m0b0z0003_en</p>	Binding Orientation	Orientation of Document	IRIPS PS Output Result	LongEdgeBind	Top	← L L L P P P P L	Left	← P P P L L L L P	ShortEdgeBind	Left	← L L L P P P P L	Top	← P P P L L L L P
Binding Orientation	Orientation of Document	IRIPS PS Output Result												
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	Left	← P P P L L L L P												
ShortEdgeBind	Left	← L L L P P P P L												
	Top	← P P P L L L L P												
PCL	<table border="1"> <thead> <tr> <th>Binding Orientation</th> <th>Orientation of Document</th> <th>Output Result</th> </tr> </thead> <tbody> <tr> <td rowspan="2">LongE dgeBind</td> <td>Top</td> <td>← </td> </tr> <tr> <td>Left</td> <td>← </td> </tr> <tr> <td rowspan="2">ShortE dgeBind</td> <td>Left</td> <td>← </td> </tr> <tr> <td>Top</td> <td>← </td> </tr> </tbody> </table> <p style="text-align: right; font-size: small;">w_m0b0z0004_en</p>	Binding Orientation	Orientation of Document	Output Result	LongE dgeBind	Top	←	Left	←	ShortE dgeBind	Left	←	Top	←
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	Top	←												

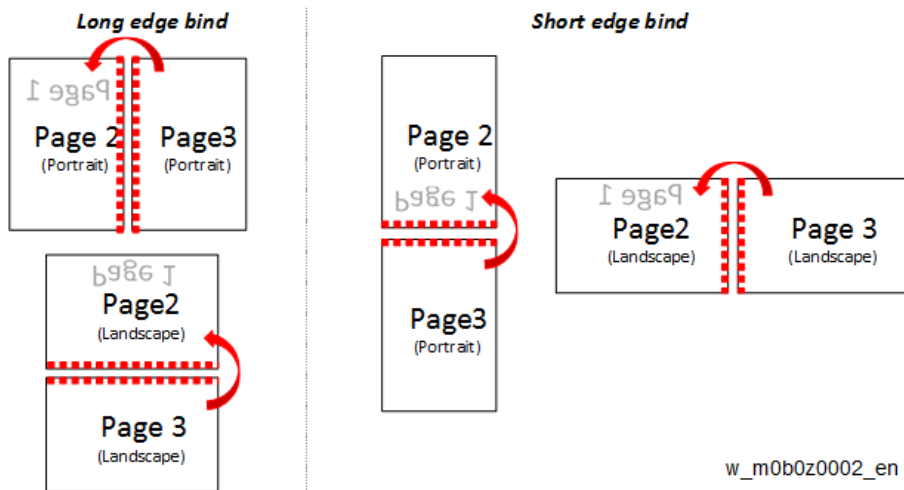
## 6. Device Software Configuration

Bit switch 5-6 =0																																														
<b>PS3</b> (If Orientation Auto Detection is enabled)	<table border="1"> <thead> <tr> <th>Binding Orientation</th> <th>Orientation of Document</th> <th>IRIPS PS Output Result</th> </tr> </thead> <tbody> <tr> <td rowspan="2">LongEdgeBind</td> <td>Top</td> <td>LLLPPPL ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table></td> </tr> <tr> <td>Left</td> <td>PPLLLLP ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table></td> </tr> <tr> <td rowspan="2">ShortEdgeBind</td> <td>Left</td> <td>LLLPPPL ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table></td> </tr> <tr> <td>Top</td> <td>PPLLLLP ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table></td> </tr> </tbody> </table>	Binding Orientation	Orientation of Document	IRIPS PS Output Result	LongEdgeBind	Top	LLLPPPL ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table>	R	R	R	R	R	R	R	R	Left	PPLLLLP ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table>	R	R	R	R	R	R	R	R	ShortEdgeBind	Left	LLLPPPL ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table>	R	R	R	R	R	R	R	R	Top	PPLLLLP ← <table border="1"><tr><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td></tr></table>	R	R	R	R	R	R	R	R
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**Note**

Long edge binding: Print the job by turning the paper on the long edge side

Short edge binding: Print the job by turning the paper on the short edge side



## PJL USTATUS

### Printer Bit Switch Description

#### Bit Switch 9-4

These control the way PJL USTATUS returns page count totals in cases where multiple copies of a job are being printed.

BitSw 9-4=0 (default):

This change the way an MFP/LP counts PCL, PS, PDF, or RPCS copy pages.

1. The page count for a single copy is returned after the first copy is printed.
2. The page count for the rest of the copies, excluding the first copy, is returned after all copies have been printed.
3. This emulates an older HP PCL firmware spec. It is only needed for compatibility with legacy software.

BitSw 9-4=1:

The page count for all copies is output after all copies have been printed.

This emulates more recent HP PCL firmware specs.

For example, consider 3 copies of a 3 page job:

**9-4 = 0**

@PJL USTATUS JOB

START

NAME="TEST\_page1-3"

@PJL USTATUS PAGE

1

@PJL USTATUS PAGE

2

@PJL USTATUS PAGE

3

@PJL USTATUS JOB

END

NAME="TEST\_page1-3"

PAGES=3

<comment> The page count of the first copy is returned.</comment>

@PJL USTATUS PAGE

1

@PJL USTATUS PAGE

2

@PJL USTATUS PAGE

3

@PJL USTATUS PAGE

4

@PJL USTATUS PAGE

5

@PJL USTATUS PAGE

6

<comment> The page count of the remaining two copies is returned.</comment>

**9-4 = 1**

@PJL USTATUS JOB



## 6.Device Software Configuration

START

NAME="Microsoft Word - TEST\_page1-3"

@PJM USTATUS PAGE

1

@PJM USTATUS PAGE

2

@PJM USTATUS PAGE

3

@PJM USTATUS PAGE

4

@PJM USTATUS PAGE

5

@PJM USTATUS PAGE

6@PJM USTATUS PAGE

7

@PJM USTATUS PAGE

8

@PJM USTATUS PAGE

9

@PJM USTATUS JOB

END

NAME="Microsoft Word - TEST\_page1-3"

PAGES=9

<comment> The page count of all three copies is returned.</comment>

---

## Adjustment

---

### User Code Authentication to Restrict Color Printing

---

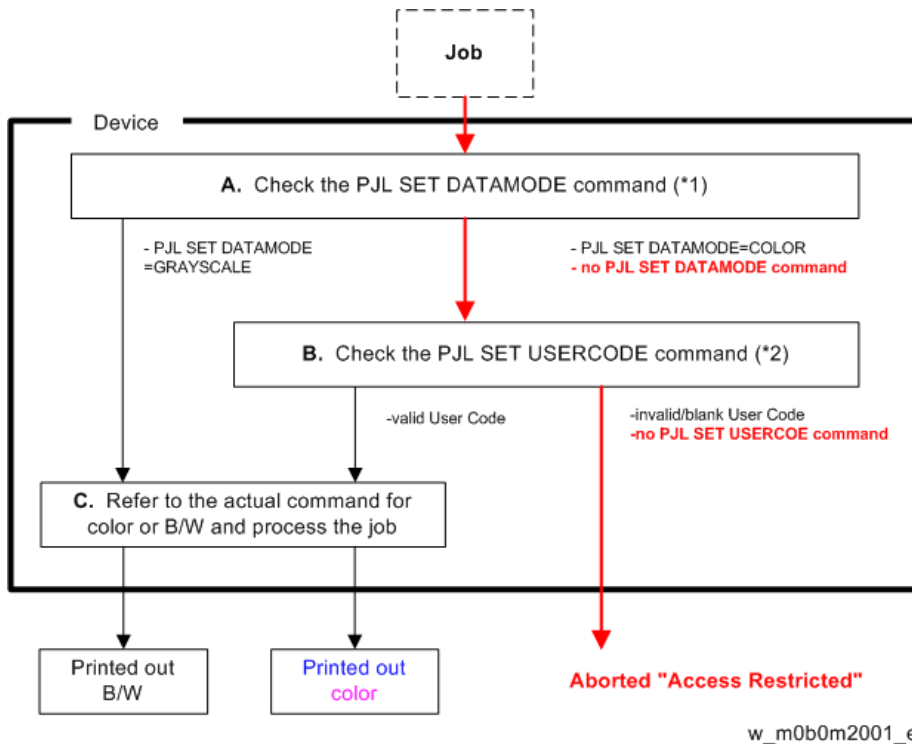
#### **The Effect of Bit Switch 8-3 on Host Printing with User Code Authentication**

This page explains the difference between the default configuration of the device and the effect of enabling Bit Switch 8-3.

If a GW device is running User Code Authentication to restrict color printing and the host system does not add the necessary commands to the print job, the default configuration is for a job that does not include the PJL SET DATAMODE command to be aborted. However, if Bit Switch 8-3 is enabled, a job that does not include the PJL SET DATAMODE command is forced to print in black and white instead. Flow charts illustrating the process of the Bit Switch 8-3 settings in more detail are included in the sections below.

**Default Configuration: Bit Switch 8-3 not enabled (Set to 0)**

In the following flow chart, the lines and comments in **Red** represent the processing path of a host system's print job in a default case:



(\*1) In a PS job, the command is RCsetdevicecolor, and divided by its value, (gray) or (cmyk).

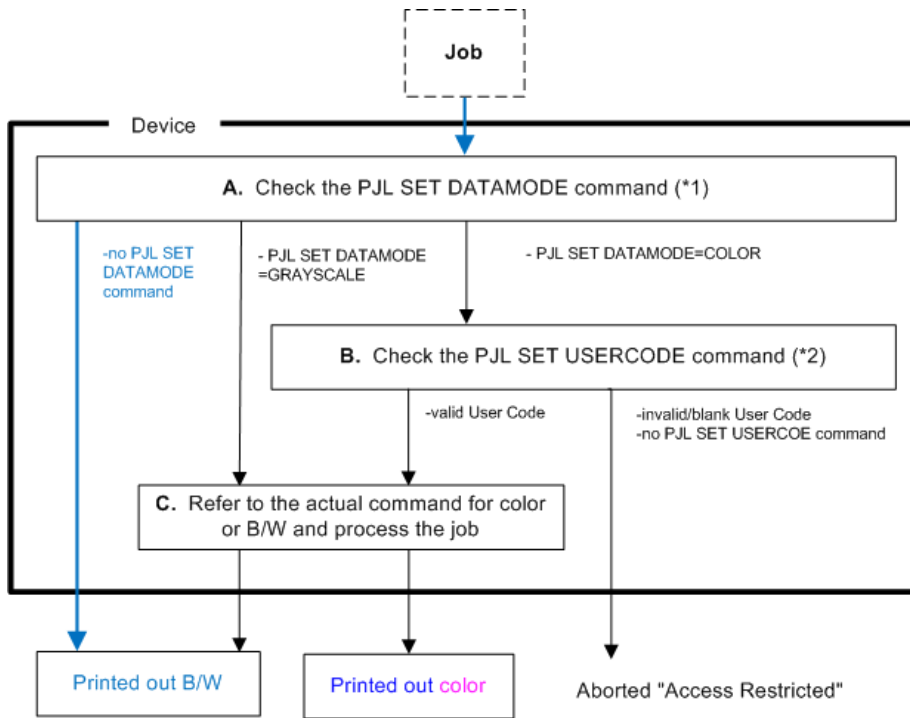
(\*2) In a PS job, the command is {setuserinfo}.

**Bit Switch 8-3 Enabled (Set to 1)**

Bit Switch 8-3 changes the way a GW device handles the PJI SET DATAMODE (or RCsetdevicecolor) command. With Bit Switch 8-3 enabled, **any job which does not include such a command is forced to print out in B/W.**

In the following flow chart, the lines and comments in **Blue** represent the processing path of a host system job:

## 6. Device Software Configuration



w\_m0b0m2002\_en

(\*1) In a PS job, the command is RCsetdevicecolor, and decided by its value, (gray) or (cmyk).

(\*2) In a PS job, the command is {setuserinfo}.

## Security Features

### How to Restrict Access to the WIM Job Menu

1. Enter 'Printer' SP mode.
2. Set SP5-888-001  
0: (default): The "Job" menu is enabled.  
1: The "Job" menu is disabled.

#### Note

- This setting takes effect only if user authentication (other than User Code authentication) is disabled.

