# MP 2555/3055/3555/4055/5055/6055 Machine Code: D284/D285/D286/D287/D288/D289 Field Service Manual <br> Ver 1.02 

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## Revision Lists

| Ver. | Revision Date |
| :--- | :--- |
| 1.01 | 21.11 .2016 |
| 1.02 | 30.11 .2016 |

## Installation

| Ver. | Section | Item | Note |
| :---: | :--- | :--- | :--- |
| 1.02 | Main Machine <br> Installation | Accessory Check | Contents in the table are revised. |
| 1.02 | Main Machine <br> Installation | Attaching the Decals | The image is revised. |
| 1.02 | 1 Bin Tray BN3110 | Installation Procedure | The procedures are revised. |

## System Maintenance

| Ver. | Section | Item | Note |
| :---: | :--- | :---: | :---: |
| 1.01 | Firmware Update (SD <br> Card) | Firmware Types | Contents in the table are revised. |

## Important Safety Notices

## Warnings, Cautions, Notes

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

## 

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


## 

- 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.


## F1

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


## 

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


## General Safety Instructions

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.

## Safety

## Prevention of Physical Injury

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 $\mathrm{ADF} / \mathrm{ARDF}$ :

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 $100 \mathrm{~V}-400 \mathrm{~V}$ 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

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 $50 \mathrm{~m}^{3} / \mathrm{hr} /$ 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

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

1. Do not incinerate toner bottles or used toner. Toner dust may ignite suddenly when exposed to an open flame.
2. Dispose of used toner, developer, organic photoconductors, and AIO unit in accordance with local regulations. (These are non-toxic supplies.)
3. Dispose of replaced parts in accordance with local regulations.
4. 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 buildup.
5. 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

- 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

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



## 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.

## 

- 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.


## Safety Instructions for the Color Controller

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

## Batteries

1. 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.
2. Never discard used batteries by mixing them with other batteries or other refuse.
3. 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 |
| :--- | :--- |
|  | Clip ring |
|  | Screw |
|  | Connector |
|  | Clamp |
|  | E-ring |
| SEF | Flat Flexible Cable |
| LEF | Timing Belt |
| K | Short Edge Feed |
| C | Long Edge Feed |
| M | Black |
| Y | Cyan |
| B/W, BW | Magenta |
| FC | Yellow |
|  | Black and White |
|  | Full color |



EI $\qquad$
[A] Short Edge Feed (SEF)
[B] Long Edge Feed (LEF)

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The proper names of Internet Explorer 7 and 8 are as follows:

- Windows ${ }^{\circledR}$ Internet Explorer® ${ }^{\circledR} 7$
- Windows ${ }^{\circledR}$ Internet Explorer® ${ }^{\circledR} 8$

The proper names of the Windows operating systems are as follows:

- The product names of Windows Vista are as follows:

Microsoft ${ }^{\circledR}$ Windows Vista ${ }^{\circledR}$ Ultimate
Microsoft ${ }^{\circledR}$ Windows Vista ${ }^{\circledR}$ Business
Microsoft ${ }^{\circledR}$ Windows Vista ${ }^{\circledR}$ Home Premium

Microsoft ${ }^{\circledR}$ Windows Vista ${ }^{\circledR}$ Home Basic
Microsoft ${ }^{\circledR}$ Windows Vista ${ }^{\circledR}$ Enterprise

- The product names of Windows 7 are as follows:

Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 7$ Home Premium
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 7$ Professional
Microsoft ${ }^{\circledR}$ Windows® 7 Ultimate
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 7$ Enterprise

- The product names of Windows 8 are as follows:

Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 8$
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 8$ Pro
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 8$ Enterprise

- The product names of Windows 8.1 are as follows:

Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 8.1$
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR}$ 8.1 Pro
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR}$ 8.1 Enterprise

- The product names of Windows 10 are as follows:

Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 10$ Home Premium
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 10$ Pro
Microsoft® Windows ${ }^{\circledR} 10$ Enterprise
Microsoft ${ }^{\circledR}$ Windows ${ }^{\circledR} 10$ Education

- The product names of Windows Server 2008 are as follows:

Microsofte Windows Server® 2008 Standard
Microsoft ${ }^{\circledR}$ Windows Server ${ }^{\circledR} 2008$ Enterprise

- The product names of Windows Server 2008 R2 are as follows:

Microsoft ${ }^{\circledR}$ Windows Server ${ }^{\circledR} 2008$ R2 Standard
Microsoft ${ }^{\circledR}$ Windows Server® 2008 R2 Enterprise

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

Microsoft® Windows Server® 2012 Foundation
Microsoft ${ }^{\circledR}$ Windows Server ${ }^{\circledR} 2012$ Essentials
Microsoft ${ }^{\circledR}$ Windows Server ${ }^{\circledR} 2012$ Standard

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

Microsoft ${ }^{\circledR}$ Windows Server ${ }^{\circledR} 2012$ R2 Foundation
Microsoft® Windows Server® ${ }^{\circledR} 2012$ R2 Essentials
Microsoft ${ }^{\circledR}$ Windows Server ${ }^{\circledR} 2012$ R2 Standard
Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights to those marks.
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## 1. Product Information

## Product Overview

## Component Layout



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Scanner Unit | 7 | Bypass Tray Unit |
| 2 | Reverse Unit | 8 | Vertical Transport |
| 3 | Paper Exit Unit | 9 | Paper Feed Unit |
| 4 | Fusing Unit | 10 | Laser Unit |
| 5 | OPC Drum | 11 | Toner Supply Unit |
| 6 | Duplex Unit |  |  |




| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | ARDF | 3 | Paper Feed Unit |
| 2 | LCIT | 4 | Internal Finisher |



| No. | Description | No. | Description |
| :---: | :--- | :--- | :--- |
| 1 | Platen Cover | 3 | Side Tray Unit |


| No. | Description | No. | Description |
| :---: | :--- | :--- | :--- |
| 2 | Paper Feed Unit | 4 | 1 Bin Tray Unit |

## Drive Layout



## Machine Codes and Peripherals Configuration

System Configuration and Options

External Options for MP2555/MP3055/MP3555 (mainly Europe)


| No. | Item | Machine Code |
| :--- | :--- | :--- |
| 1 | Paper Feed Unit PB3150 | D694 |
| 2 | Caster Table Type M3 | D178 |
| 3 | LCIT PB3170 | D695 |
| 4 | LCIT RT3030 | D696 |
| 5 | Paper Feed Unit PB3210 | D787 |
| 6 | 1 Bin Tray BN3110 | D3CQ |
| 7 | Bridge Unit BU3070 | D685 |
| 8 | Internal Shift Tray SH3070 | D691 |
| 9 | Side Tray Type M3 | D725 |
| 10 | Internal Finisher SR3130 | D690 |
| 11 | Internal Finisher SR3180 | D766 |
| 12 | Finisher SR3210 | D3B8 |
| 13 | Booklet Finisher SR3220 | D3B9 |
| 18 |  |  |

External Options for MP2555/MP3055/MP3555 (mainly Asia)


4*4

| No. | Item |  |
| :--- | :--- | :--- |
| 1 | SPDF DF3100 | D3B4 |
| 2 | ARDF DF3090 | D779 |
| 3 | Platen Cover PN2000 | D700 |
| 4 | Paper Feed Unit PB3150 | D694 |
| 5 | Caster Table Type M3 | D178 |
| 6 | LCIT PB3230 | D695 |
| 7 | LCIT RT3030 | D696 |
| 8 | Paper Feed Unit PB3220 | D787 |
| 9 | 1 Bin Tray BN3110 | D3CQ |
| 10 | Bridge Unit BU3070 | D685 |
| 11 | Internal Shift Tray SH3070 | D691 |
| 12 | Side Tray Type M3 | D725 |
| 13 | Internal Finisher SR3130 | D690 |
| 14 | Internal Finisher SR3180 | D766 |
| 15 | Finisher SR3210 | D3B8 |
| 16 | Booklet Finisher SR3220 | D3B9 |




| No. | Item | Machine Code |
| :--- | :--- | :--- |
| 1 | Paper Feed Unit PB3150 | D694 |
| 2 | Caster Table Type M3 | D178 |
| 3 | LCIT PB3170 | D695 |
| 4 | LCIT RT3030 | D696 |
| 5 | Paper Feed Unit PB3210 | D787 |
| 6 | 1 Bin Tray BN3110 | D3CQ |
| 7 | Internal Multi-Fold Unit FD3000 | M482 |
| 8 | Bridge Unit BU3070 | D685 |
| 9 | Internal Shift Tray SH3070 | D691 |
| 10 | Side Tray Type M3 | D725 |
| 11 | Internal Finisher SR3130 | D690 |
| 12 | Finisher SR3210 | D3B8 |
| 13 | Booklet Finisher SR3220 | D3B9 |
| 14 | Finisher SR3230 | D3BA |
| 15 | Booklet Finisher SR3240 | D3BB |


.:॥"..":!

| No. | Item | Machine Code |
| :--- | :--- | :--- |
| 1 | SPDF DF3100 | D3B0 |
| 2 | ARDF DF3090 | D779 |
| 3 | Platen Cover PN2000 | D700 |
| 4 | Paper Feed Unit PB3150 | D694 |
| 5 | Caster Table Type M3 | D178 |
| 6 | LCIT PB3230 | D695 |
| 7 | LCIT RT3030 | D696 |
| 8 | Paper Feed Unit PB3220 | D787 |
| 9 | 1 Bin Tray BN3110 | D3CQ |
| 10 | Internal Multi-Fold Unit FD3000 | M482 |
| 11 | Bridge Unit BU3070 | D685 |
| 12 | Internal Shift Tray SH3070 | D691 |
| 13 | Side Tray Type M3 | D725 |
| 14 | Internal Finisher SR3130 | D690 |
| 15 | Finisher SR3210 | D3B8 |
| 16 | Booklet Finisher SR3220 | D3B9 |
| 17 | Finisher SR3230 | D3BA |
| 18 | Booklet Finisher SR3240 | D3BB |



표N

| No. | Item | Machine Code |
| :--- | :--- | :--- |
| 1 | Handset HS3020 | D739 |
| 2 | Paper Feed Unit PB3150 | D694 |
| 3 | Caster Table Type M3 | D178 |
| 4 | LCIT PB3230 | D695 |
| 5 | LCIT RT3030 | D696 |
| 6 | Paper Feed Unit PB3220 | D787 |
| 7 | 1 Bin Tray BN3110 | D3CQ |
| 8 | Internal Multi-Fold Unit FD3000 | M482 |
| 9 | Bridge Unit BU3070 | D685 |
| 10 | Internal Shift Tray SH3070 | D691 |
| 11 | Side Tray Type M3 | D725 |
| 12 | Internal Finisher SR3130 | D690 |
| 13 | Finisher SR3210 | D3B8 |
| 14 | Booklet Finisher SR3220 | D3B9 |
| 15 | Finisher SR3230 | D3BA |

## 1.Product Information

| No. | Item | Machine Code |
| :--- | :--- | :--- |
| 16 | Booklet Finisher SR3240 | D3BB |

External Options for MP6055 (mainly Europe and Asia)

+18:

| No. | Item | Machine Code |
| :--- | :--- | :--- |
| 1 | Paper Feed Unit PB3150 | D694 |
| 2 | Caster Table Type M3 | D178 |
| 3 | LCIT PB3170 (Europe) <br> LCIT PB3230 (Asia) | D695 |
| 4 | LCIT RT3030 | Paper Feed Unit PB3210 (Europe) <br> Paper Feed Unit PB3220 (Asia) |
| 5 | 1 Bin Tray BN3110 | D787 |
| 6 | Internal Multi-Fold Unit FD3000 | D3CQ |
| 7 | Bridge Unit BU3070 | M482 |
| 8 | Internal Shift Tray SH3070 | D685 |
| 9 | Side Tray Type M3 | D691 |
| 10 | Finisher SR3210 | D725 |
| 11 | Booklet Finisher SR3220 | D3B8 |
| 12 | Finisher SR3230 | D3B9 |
| 13 | Booklet Finisher SR3240 | D3BA |
| 14 |  | D3BB |



| No. |  | Item |
| :--- | :--- | :--- |
| 1 | Handset HS3020 | Machine Code |
| 2 | Paper Feed Unit PB3150 | D694 |
| 3 | Caster Table Type M3 | D178 |
| 4 | LCIT PB3230 | D695 |
| 5 | LCIT RT3030 | D696 |
| 6 | Paper Feed Unit PB3220 | D787 |
| 7 | 1 Bin Tray BN3110 | D3CQ |
| 8 | Internal Multi-Fold Unit FD3000 | M482 |
| 9 | Bridge Unit BU3070 | D685 |
| 10 | Internal Shift Tray SH3070 | D691 |
| 11 | Side Tray Type M3 | D725 |
| 12 | Finisher SR3210 | D3B8 |
| 13 | Booklet Finisher SR3220 | D3B9 |
| 14 | Finisher SR3230 | D3BA |
| 15 | Booklet Finisher SR3240 | D3BB |

## 1.Product Information

## Specifications

See "Appendices" for the following information:

- Machine Specifications
- Software Accessories
- Supported Paper Sizes
- Optional Specifications


## 2. Installation

## Installation Requirements



1. Temperature Range: $10^{\circ} \mathrm{C}$ to $32{ }^{\circ} \mathrm{C}\left(50^{\circ} \mathrm{F}\right.$ to $\left.89.6^{\circ} \mathrm{F}\right)$
2. Humidity Range: $15 \%$ to $80 \%$ RH
3. Ambient Illumination: Less than 1,500 lux (do not expose to direct sunlight.)
4. Ventilation: Room air should turn over at least 3 times/hr/person
5. Ambient Dust: Less than $0.10 \mathrm{mg} / \mathrm{m}^{3}$
6. Avoid an area which is exposed to sudden temperature changes. This includes:

- Areas directly exposed to cool air from an air conditioner.
- Areas directly exposed to heat from a heater.

7. Do not place the machine in an area where it will be exposed to corrosive gases.
8. Do not install the machine at any location over $2,000 \mathrm{~m}(6,500 \mathrm{ft}$.) above sea level. (In NA, it can be installed only up to $2,500 \mathrm{~m}(8,202 \mathrm{ft})$.
9. Place the copier on a strong and level base. (Inclination on any side should be no more than 5 mm .)
10. Do not place the machine where it may be subjected to strong vibrations.

## Minimum Space Requirements

Machine Level
Front to back: Within $5 \mathrm{~mm}\left(0.2^{\prime \prime}\right)$ of level

## 2.Installation

Right to left: Within $5 \mathrm{~mm}\left(0.2^{\prime \prime}\right)$ of level
Place the copier near the power source, and provide clearance as shown:


1. Rear: Over $101 \mathrm{~mm}(4$ ")
2. Right: Over 432 mm (17")
3. Front: Over 750 mm (15.8")
4. Left: Over $100 \mathrm{~mm}(4$ ")

- The 400 mm recommended for the space at the front is only for pulling out the paper tray. If an operator stands at the front of the copier, more space is required.


## Machine Dimensions


[A]: 587 mm (23.1")
28
[B]: 340mm (with D696)
[C]: 1210 mm (with D3B0), 1160 mm (with D779)
[D]: 657 mm (with D3BA or D3BB)

## Power Requirements

## 

- Make sure that the wall outlet is near the copier and easily accessible.
- Make sure the plug is firmly inserted in the outlet.
- Avoid multi-wiring.
- Be sure to ground the machine.


## Input voltage level

- $\quad 120 \mathrm{~V}$ to $127 \mathrm{~V}, 60 \mathrm{~Hz}$ : More than $12 \mathrm{~A}: \mathrm{NA}$
- 220 V to $240 \mathrm{~V}, 50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ : More than 8A: EU/AP
- $110 \mathrm{~V}, 60 \mathrm{~Hz}:$ More than 13.6 A : Taiwan
- $220 \mathrm{~V}, 60 \mathrm{~Hz}$ More than $8 \mathrm{~A}: \mathrm{KO}$


## Voltage tolerance

- Voltage must not fluctuate by more than $+8.66 \%$ or less than $-10 \% .:$ NA
- Voltage must not fluctuate by more than $10 \%$.: EU/AP


## 2.Installation

## Main Machine Installation

## Important Notice on Security Issues

In order to increase the security of the MFP, and to ensure that the customer sets the administrator password, an administrator set/change prompt display is shown up at the first power-up.

Overview

- The following Program/Change Administrator screen is displayed at the first power-up.

- When the customers set the administrator/supervisor login password, the display disappears and the home display will appear. The customers, however, can erase this screen with the following procedure in the case that they think there is no need to set the password.

1. On the Program/Change Administrator screen, press [Change] next to Supervisor and then touch [OK] without inputting any password.
2. Touch [OK] again when the Confirm password display shows up.
3. For Administrator 1 , do the same procedure as steps 1 and 2 .
4. Press the $[\mathrm{OK}]$ button, and then turn the power OFF/ON.

- SP5-755-002 (Display Setting: Hide Administrator Password Change Scrn) allows you to skip this screen temporarily and continue the installation procedure without setting an administrator password. However, the Program/Change Administrator screen appears every time you turn the power OFF/ON, if the password is not set.

1

- For how to enter SP mode, see the note at the end of the Password Setting Procedure.

Password Setting Procedure


- For more details about this security issue, see "Notes on Using Multi-Function Printers Safely" supplied with the MFP.


## 

- When Supervisor / Administrator 1-4 passwords are configured via network, the "Change Supervisor
login password" window will not display.
- The passwords for Supervisor or Administrator 1 to 4 can be set via "System Settings". But the Program/Change Administrator screen appears every time the power switch is turned ON if the passwords are input this way. So we recommend the customers to set the passwords via network or the Program/Change Administrator screen.

1. Install the machine.
2. Turn ON the main power.

Password change display appears.
3. Press [Change] and change the supervisor login password.

4. Input the password, and then press [OK].
5. Confirm the password, and then press [OK].
6. Change the administrator 1 login password.

7. Input the password, and then press [OK].
8. Confirm the password, and then press [OK].
9. Turn the main power OFF and back ON again.

## 반

- To enter the SP mode, there are two ways to display the number keyboard on screen;


## 2.Installation

1. Press the "Document Server" icon.
2. Press and hold the button [A] located at the left side of the operation panel and "Check Status [B]" at the same time.


Installation Flow Chart

MP 2555SP, MP 3055SP, MP 3555SP


MP 4055SP, MP 5055SP, MP 6055SP


## Accessory Check

Check the quantity and condition of the accessories in the box against the following list:

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Plate: Logo: RIC | 1 |  |
| 2 | Sheet: Logo | 1 |  |
| 3 | Rear Lower Gap Cover | 1 |  |
| 4 | Cap Cover | 2 |  |
| 5 | Stopper: Paper Exit Tray | 1 |  |
| 6 | NFC Tag | 1 |  |
| 7 | Decal: Paper Tray | 1 |  |
| 8 | Decal: Bluetooth | 1 | EU Only |
| 9 | Original Caution Decal: English | 1 | EU Only |
| 10 | Original Caution Decal: Multi-Language |  |  |


| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 11 | Power Supply Cord | 1 |  |
| 12 | Cleaning Cloth | 1 |  |
| 13 | Cleaning Cloth Holder | 1 |  |
| 14 | Sheet: EMC address | 1 | EU Only |
| 15 | Caution: CE | 1 | EU Only |
| 16 | Caution: Smart Operation Panel | 1 | NA/AA Only |
| 17 | Caution: FCC | 1 | NA Only |
| 18 | Caution: FCC (for Canada) | 1 | NA Only |
| 19 | Sheet: Safety Information | EU: 2 |  |
| 20 | Sheet: Notes for Users (AIRPRINT) | 1 |  |
| 21 | Sheet: EULA (21 Languages) | 1 |  |
| 22 | Sheet: Notes for Users (Security) | 1 | NA/AA Only |
| 23 | Sheet: Start Guide | 1 | AA Only |
| 24 | Caution: NFC Tag | 1 | NA/AA Only |
| 25 | Seal: Caution (21 Languages) | 1 | 1 |
| 26 | CD-ROM (Drivers) | 1 |  |
| 27 | CD-ROM (OI) | Only |  |
| 28 | Manual: Read This First |  |  |

Installation Procedure

Removal of Packing Materials and Shipping Retainers

1. Remove the machine from the box, and check the items in the package.

- Remove the retainer [A] at the lower front right before lifting up the machine, because the handle for lifting the machine is hidden by the retainer [A].

- When you lift the machine, hold the correct parts, as shown in the photo below. Do not lift by


## 2.Installation

holding the scanner unit, etc., because this might deform the machine or break the exterior covers.

2. Remove the tapes and retainers on the DF.

3. Remove the tapes on the exterior of the copier.

4. Remove the cushioning material [A] on the exposure glass.

5. Remove the orange tape on the scanner shipping locks.

6. Remove the two scanner shipping locks [A] by rotating them 90 degrees counterclockwise.

SC120 is displayed when the machine is turned ON with the shipping lock attached.

## 2.Installation



- Keep the scanner shipping locks after installing the machine. The scanner shipping locks must be installed before moving the machine to a new location.
- Before moving the machine, make sure to move the scanner carriage to the correct position with SP4-806-001 (Super SP mode) and reattach the shipping locks (page 101 "Moving the Machine").

7. Attach the two caps [A] provided with the machine.

8. Pull out the 1 st and 2 nd paper feed trays and remove the tapes and accessories.
9. Remove the scanner support [A].

10. Open the front cover and store the scanner support $[A]$ in the storage location.


## 1

- The factory setting sheet is kept in the storage location.

11. Close the front cover.

For Machines with Preinstalled SPDF: Removal of Protective Sheet

1. Open the DF.
2. Release the lever [A], open the pressure plate sheet [B], and pull out the protective sheet [C] slowly.
3. Remove the filament tape [D].

4. Close the pressure plate sheet [A].


## 2.Installation

5. Close the DF.


- If the protective sheet remains in the DF, a paper jam will be detected.

Attaching the Paper Exit Tray Parts

1. Attach the stopper [A] to the paper exit tray.


- Before installing the stopper, move the bar inside the stopper in order to avoid damaging the bar.


Pulling out the Feeler for the Paper Exit Full Sensor

## 

This procedure is unnecessary when attaching the Bridge Unit or the Inner Finisher.

1. Pull the sensor feeler [A] out.


Checking the Position of the Paper Exit Feeler
Check the following points for the paper exit feeler [A] installed at the paper exit.

- It can move in line with the ejection of paper.
- It holds contact with the surface of the ejected paper and is still movable.


Paper will get jammed in the following cases.

- The paper exit feeler does not function due to obstacles (such as cables).
- The paper exit feeler does not function when the paper is pulled out and pushed back again.


Attaching the Decals
Attach the following decals provided with the machine accessories.


1: Original Set Decal

## 2.Installation

2: NFC Tag
3: ADF Caution Decal
4: Paper Size Tray Number Decal
5: Brand Logo for Smart Operation Panel
6: Brand Logo for Front cover
7: Bluetooth Decal

## Location for each decal




For Machines with Preinstalled ARDF: Fax Stamp Installation (Option)
This procedure is required for the machine which has the fax function installed as standard.

1. Open the ARDF original cover and stamp holder [A].

2. Install the fax stamp [A] provided with the machine.

3. Close the holder.

Make sure that it is pushed in to the position where the marks on the holder and the exterior cover face each other. If not, jam detection (001) will occur.

## 2.Installation



Toner Bottle Installation and Toner Initialization

## F

- This machine has toner bottle set detection and does not operate without the toner bottle.
- Print Cartridge MP 3554 is compatible with MP 4055SP, MP 5055SP, MP 6055SP. However, Print Cartridge MP 6054 is incompatible with MP 2555SP, MP 3055SP, MP 3555SP.

1. Open the front cover.
2. Make sure that the black cap of the toner bottle is firmly tightened, then shake the toner bottle up and down seven or eight times while the cap faces upward.


- Shaking the bottle while the cap faces downward may cause a toner blockage.

3. Remove the toner bottle protection cap [A].

4. Push the toner bottle [A] into the machine slowly.

5. Connect the power cord to the machine.


## MLPH0\#

Use the power cord that is provided with the machine. Do not use any other power cord. Also, do not use an extension cord.
6. While the front cover is open, turn on the main power switch.


- If the front cover is closed when turning on the main power switch, the machine starts a normal toner supply.

7. Enter the SP mode, and then press [System Sp ].
8. Set SP3-510-031 (ImgQltyAdj :ExeFlag: Init Toner Replenish: K) to " 1 ", and then press "\#" on the operation panel.
9. Press [EXIT] to end the SP mode.
10. Close the front cover.
11. The machine automatically starts the initial toner supply. The initialization message appears.

## MK \#

- It takes about one to two minutes to finish the initial toner supply. If the toner has not been shaken well, it may take up to about 10 minutes.
- If a toner bottle has not been set, the machine does not work because there is a toner bottle set detection mechanism.
- If you turn on the machine without closing the front cover, the initial toner supply is not performed at installation, and the machine goes to the toner end condition even if the machine has plenty of toner in the toner bottle.

12. Enter SP mode again, and then press [System Sp ].
13. Enter SP3-011-001 (Manual ProCon :Exe), and then press [Execute].


- Be sure to do this procedure in the main machine installation. Otherwise, abnormal images may be developed until the next process control.

14. Press [Exit] when completed.
15. Press [EXIT] to end the SP mode.

## 2.Installation

## Note if the initial toner supply has not been performed

If you start printing without executing the initial toner supply at installation, the machine goes to the toner end condition even if the machine has plenty of toner in the toner bottle. Do the following procedure to perform the toner end recovery if the machine has entered the toner end condition.

1. Open the front cover for five seconds or more.
2. Make sure that the toner bottle is set properly.
3. Close the front cover.
4. The toner end recovery automatically starts


- MP $2555 / 3055 / 3555 / 4055 / 5055 / 6055$ series models do not require resetting the counter, because the replacement year/date is updated automatically. (This is different from the MP 2554/3054/3554/4054/5054/6054 series.)


## Check Image Quality / Settings

Loading Paper
When there are other options to be installed, install according to the procedure for each.

1. Connect the power cord to the machine.
2. Turn the main power ON .
3. Pull out the tray slowly until it stops, and then adjust the side fences and end fence to match the paper size.

To move the side fences, first pull out the tray fully, then push down the green lock at the rear of the tray.
4. Check that the operation panel shows the following display.
"Please supply the tray with paper."
5. Square the paper and load it print side up.
6. The paper size is basically detected automatically.

Checking the Copy Image with the Test Chart
Check the copy image with the test chart.
Paper Settings
If necessary, adjust the registration for the paper feed tray. (Registration - Leading Edge/Side-to-Side)

- SP1-002-002 (Side-to-Side Registration Paper Tray 1)
- SP1-002-003 (Side-to-Side Registration Paper Tray 2)


## Security Function Settings

Perform the encryption and overwrite settings to protect the user information in the HDD as necessary.
Follow the instructions in Security Setting.

Change the necessary settings for the following SP modes if the customer has made a service contract.

| SP No. | Function ${ }^{\text {a }}$ Default |
| :---: | :---: |
| SP5-045-001 <br> Counter method | Specifies the counting method used in meter charge mode. ${ }^{\text {a }} 0$ ": 1 count |
| SP5-104-001 (SSP) <br> A3/DLT double <br> count | Specifies whether the counter is doubled for A3/DLT paper. $\quad \begin{aligned} & \text { "1": Double } \\ & \text { counting }\end{aligned}$ |
| SP5-812-001 and - <br> 002 <br> Service Tel: <br> Telephone / <br> Facsimile | -001: shows or sets the telephone number of the service representative. <br> -002 : shows or sets the fax number of the service station. The number is printed on the counter list when the "Meter Click Charge" is enabled. User can send a fax message with the counter list. |

## Installation is now completed.

## Auto Remote Firmware Update (ARFU) Settings

Specify ARFU settings as required.

## Operating Conditions:

- ARFU requires connection to the Internet. Be sure to get permission from the customer before setting ARFU up. Otherwise, it may cause an incident.
- ARFU is available only for machines that contain a HDD. If the machine does not have a HDD, an option HDD must be installed.


## H1

- The connection is one-way, so the user's data cannot be accessed from the firmware server.


## Procedure:

1. ARFU enable setting
2. Server connection check
3. Prohibited date and time setting

## (1) Enable ARFU

1. Set SP5-886-111 (Auto Update Setting) to "1(ON)".

1: ON / 0: OFF (Default)

To download the firmware only using SFU (Smart Firmware Update), and not by ARFU, specify the settings as follows:

- SP5-886-111(Auto Update Setting) to "0 (OFF)"
- SP5-886-115 (SFU Auto Download Setting) to "1 (ON)"


## (2) Server connection check

1. Enter the SP mode.
2. Press [Firmware update] $>$ [Update] $>$ [Execute update].

3. Check if one of the following messages appears: "Will you download the latest package Ver *** and update?" or "The installed package is the latest version.".
If the message appears, it is possible to execute ARFU. Press "No" and close SP mode to complete the configuration.


The update will run immediately if you press "Yes" at the message "Will you download the latest package Ver *** and update?" The update cannot be canceled if it is run by SFU. (The update can be canceled if ARFU is used.)

Hill
SP5-886-116 (Auto Update Prohibit Term Setting) displays the scheduled date and time of the next ARFU.
If error code 71: [Network connection error] appears when you click "Execute update", see troubleshooting below.

## (3) Prohibited date and time setting

Ask the customer for the prohibited times and days of the week for ARFU execution and set the following as needed. The default prohibited time is from 9 a.m. to $5 \mathrm{p} . \mathrm{m}$. and there is no prohibited day.

- SP5-886-112 (Auto Update Prohibit Term Setting) Default: 1 (ON)
- SP5-886-113 (Auto Update Prohibit Start hour) Default: 9
- SP5-886-114 (Auto Update Prohibit End hour) Default: 17
- SP5-886-120 (Auto Update Prohibit Day Of Week Setting) Default: 00000000 [00H]

Set the bits for the days of the week to prohibit updating.
Prohibited (Monday - Sunday): bit 7, Monday: bit 6, Tuesday: bit 5
Wednesday: bit 4, Thursday: bit 3, Friday: bit 2, Saturday: bit 1, Sunday: bit 0
e.g.) Prohibited on Mon., Fri., Sat., and Sun.: 01000111 [47H]

## FH

They can be specified also via Web Image Monitor if logged in as the machine administrator from the device if SP5-886-111(Auto Update Setting) is set to " $1(\mathrm{ON})$ ". For details, see Specifying the Time and Day of the Week to

## Prohibit Updating via Web Image Monitor.

## Troubleshooting: If error code 71: [Network connection error] appears

If error code 71: [Network connection error] appears when you click [Firmware update] $>$ [Update] $>$ [Execute update] in SP mode, check the following.

- 4-1. IPv4 address, Subnet mask of the machine and Gateway IPv4 address
- 4-2. IPv4 address of the DNS server
- 4-3. Proxy server settings
- 4-4. Encryption level setting SP


## 4-1. IPv4 address, Subnet mask of the machine and Gateway IPv4 address

Check the machine's IPv4 address, subnet mask, and gateway IPv4 address.
(In User Tools > Machine Features > System Settings > Interface Settings)


## 4-2. IPv4 address of the DNS server

Check the DNS IPv4 address and check the connection.
(In User Tools $>$ Machine Features $>$ System Settings $>$ Interface Settings $>$ DNS configuration)


How to find the IP address:
Ask the customer to tell you the IP address of the DNS server. If the customer does not know it, ask the customer to check the IP address by one of the following ways:

1. Run "ipconfig / all" at the command prompt on the computer, then check the IP address of the DNS server.
2. Open the IPv4 properties dialog box on the computer, then check whether the IP address setting of the DNS server is manual or automatic.

- If the setting of the DNS IP address is automatic, select [Auto-Obtain (DHCP)] at the MFP machine's DNS settings.
- If the setting of the DNS IP address is manual, select [Specify] and specify the DNS server 1 to 3 .
- Press [Connection Test] to check the connection with the input address. Make sure that it is connected successfully.



## 4-3. Proxy server settings

Check the user's network environment and, as required, specify the proxy server settings in the following SPs:

- SP5-816-062 (Use Proxy)

1: Used / 0: Not used

- SP5-816-063 (Proxy Host)
- SP5-816-064 (Proxy PortNumber)
- SP5-816-065 (Proxy User Name)
- SP5-816-066 (Proxy Password)


## F1

If access to the external server is restricted, request the network administrator (customer) to permit the following FQDN name for communication.- FQDN: p-rfu-ds2.support.ricoh.com

## FH1

They can be specified also via Web Image Monitor if logged in as the machine administrator from the device if SP5-886-111(Auto Update Setting) is set to " $1(\mathrm{ON}$ )". For details, see Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor.

## 4-4. Encryption level setting SP

Check SP5-816-087 (Remote Service: CERT:Macro Ver) and make sure the encryption level is [2]: 2048 bit.

## 5

If SP5-816-087 is [1]: 512 bit, specify the settings as follows:

1. Initialize the encryption level by executing SP5-870-003 (Common Key Info Writing: Initialize)
2. Rewrite as 2048 bit in SP5-870-004 (Common Key Info Writing: Writing 2048 bit).
3. Turn the main switch off and on.


Make sure to check the conditions before changing the encryption level and do the corresponding workaround. ARFU uses the same certificate as @Remote to communicate with the Global Server. This may cause failure in connecting with the Center Server, if the device is to be installed in the following conditions.

## Conditions

## 1) Customer uses RC Gate Type BN1.

RC Gate Type BN1 does not support 2048 bit encryption level communication with Ricoh devices (HTTPS Managed device). Therefore, the device cannot be registered under RC Gate Type BN 1.
2) Ricoh device (HTTPS Managed) that supports only 512 bit encryption level is registered as an external appliance.

Only one encryption level can be set for an external appliance for its communication with imaging devices. If a 512 bit encryption level Ricoh device (HTTPS Managed) is registered, the external appliance as well as other devices must also use 512 bit encryption even if 2048 bit encryption is supported on those devices.

## Workaround

## For Condition 1:

Advise your customer to change to the latest appliance that supports 2048 bit encryption level communication.

## For Condition 2:

1. Manage the device with embedded RC Gate (2048 bit)
2. Exclude non-supported devices (i.e., those devices that cannot be changed from 512-bit to 2048-bit) from the external appliances, then change the encryption level of external appliances and all managed devices (from 512 bit to 2048 bit).

## 2.Installation

Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor

1. Start Web Image Monitor.
2. Log in as the machine administrator.
3. Point to [Device Management], and then click [Configuration].

4. Click "Auto Firmware Update".


Turn the main power OFF and back ON again after setting SP5-886-111 (AutoUpdateSetting) to "1 (ON)". "Auto Firmware Update" will appear in the menu list of Web Image Monitor.
5. Specify the times and days of the week to prohibit updating.

Select the check boxes of the applicable days of the week to prohibit updating on that day


## Moving the Machine

This section shows you how to manually move the machine from one floor to another floor. Before turning off the main power, make sure $100 \%$ is shown as available memory on the screen if the fax option is installed.

- Move the scanner carriage to the correct position [A] with SP4-806-001 (Super SP mode), and reattach the scanner shipping locks at the lock position [B].

- Turn off the main power.
- Disconnect the power plug from the outlet.
- Close all covers and paper trays, including the front cover and bypass tray.
- Remove the optional feed tray when lifting the main machine for moving it to another floor.
- Keep the machine level and carry it carefully, taking care not to shake or tilt it, and protect the machine from strong shocks.


## 2.Installation

- When moving the machine, do not press against the ADF.


## 

- Do not push the center part of the rear cover. Do not hold the covers of the stabilizers.

- Do not put hard pressure on the rear cover [A] when moving or picking up the machine as it is fragile. This also applies to the operation panel [C]. Hold the areas [B] when moving the machine.

- Hold 4 corners on the bottom base when holding the machine with the optional paper feeding tray
joined to the main machine. Do not hold any other parts.



## Transporting the Machine

1. Do SP4-806-001 (Super SP mode) to move the scanner carriage from the home position. This prevents dust from falling into the machine during transportation.
2. Remove the toner cartridges. This prevents toner leaks, which are caused by vibration during transport.
3. Make sure there is no paper left in the paper trays. Then fix down the bottom plates with a sheet of paper and tape.
4. Take out the scanner stay from inside the front cover and install the scanner stay.
5. Do one of the following steps:

- Attach shipping tape to the covers and doors.
- Shrink-wrap the machine tightly.


## Cautions upon Lashing

1. Position the machine so that its left side faces the wall. Make sure to put cushioning in between.
2. Fasten the belt at the ridge line with cushioning.
3. Make sure that the belt is over the front cover (at $45-75 \mathrm{~cm}$ height from the ground).

[^0]
## Paper Feed Unit PB3210/ PB3220

Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | Screws $(\mathrm{M} 4 \times 10)$ | 2 |
| 2 | Screw with Spring Washer $(\mathrm{M} 4 \times 10)$ | 1 |
| 3 | Securing Bracket | 2 |



## Installation Procedure

## Min月苗

- The machine should be held at the correct locations and lifted gently.
- If it is lifted without care, handled carelessly or dropped, it may result in an injury.
- When installing this option, turn the machine power OFF, and unplug the power supply cord from the wall socket.
- If this option is installed with the power on, it may result in an electric shock or a malfunction.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over.
- If they are not connected, they may move and fall over, resulting in injury.

1. Remove the orange tape and retainers.


## 2.Installation

2. Remove the items provided (fixing screws, etc.) from the package.

3. Holding the grips on the machine, align it with the locating pins [A], and place the machine on the paper feed unit.


## FTHIM

- When you lift the machine, hold the correct locations.

- Do not hold any other parts of the machine when lifting it, because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

4. Pull out the 2 nd paper feed tray.
5. Using a securing bracket as a screwdriver, fix the machine to the feed unit (spring washer: screw: M4×10:1).

6. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine (screws: 1 each).


- If the anti-condensation heater for this optional tray is to be installed, connect its heater harness prior to this step (step 6) (Tray Heater for Paper Feed Unit PB3210 / PB3220).
- If "LCIT RT3030" is to be installed, connect its harness prior to this step (step 6) (LCIT RT3030 (D696)).


7. Attach the rear lower gap cover [A] ( $\left.{ }^{-} \mathrm{x} 2\right)$

8. Return the paper feed tray to the machine

## 2.Installation

9. Attach the decals as shown below.

[A]: Tray number decal
[B]: Paper size decal


- The tray number decal and paper size decal are packaged together with the machine.

10. Lock the casters of the paper feed unit.

11. Connect the power cord to the machine.


- Stabilizers are attached to the machine when it is shipped. Do not remove them.


12. Turn the main power ON .
13. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.

- Paper size for the paper feed unit can be changed with following SPs.

SP5-181-009 (0: A4 LEF or 1: LT LEF) for Tray 3
SP5-181-010 (0: A3 or 1: DLT) for Tray 3
SP5-181-011 (0: B4 or 1: LG) for Tray 3
SP5-181-012 (0: B5 LEF or 1: Exe LEF) for Tray 3
SP5-181-014 (0: A4 LEF or 1: LT LEF) for Tray 4
SP5-181-015 (0: A3 or 1: DLT) for Tray 4
SP5-181-016 (0: B4 or 1: LG) for Tray 4
SP5-181-017 (0: B5 LEF or 1: Exe LEF) for Tray 4
14. Adjust the registration for the paper feed unit.

- For Tray 3

SP1-001-0xx (Leading Edge Registration Tray 3)

| -055 | Tray3: Thin | -062 | Tray3: Thin:1200 |
| :--- | :--- | :--- | :--- |
| -056 | Tray3: Plain | -063 | Tray3: Plain:1200 |
| -057 | Tray3: Mid-thick | -064 | Tray3: Mid-thick:1200 |
| -058 | Tray3: Thick 1 | -065 | Tray3: Thick 1:1200 |
| -059 | Tray3: Thick 2 | -066 | Tray3: Thick 2:1200 |
| -060 | Tray3: Thick 3 | -067 | Tray3: Thick 3:1200 |
| -061 | Tray3: Thick 4 | -068 | Tray3: Thick 4:1200 |

SP1-002-004 (Side-to-Side Registration Paper Tray 3)

- For Tray 4

SP1-001-0xx (Leading Edge Registration Tray 4)

| -069 | Tray4: Thin | -076 | Tray4: Thin:1200 |
| :--- | :--- | :--- | :--- |
| -070 | Tray4: Plain | -077 | Tray4: Plain:1200 |
| -071 | Tray4: Mid-thick | -078 | Tray4: Mid-thick:1200 |
| -072 | Tray4: Thick 1 | -079 | Tray4: Thick 1:1200 |
| -073 | Tray4: Thick 2 | -080 | Tray4: Thick 2:1200 |
| -074 | Tray4: Thick 3 | -081 | Tray4: Thick 3:1200 |
| -075 | Tray4: Thick 4 | -082 | Tray4: Thick 4:1200 |

SP1-002-005 (Side-to-Side Registration Paper Tray 4)

## Paper Feed Unit PB3150

Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | Screws $-\mathrm{M} 4 \times 10$ | 2 |
| 2 | Screw with Spring Washer $-\mathrm{M} 4 \times 10$ | 1 |
| 3 | Securing Bracket | 2 |

Installation Procedure

## 

- The machine should be held at the correct locations and lifted gently by two people.
- If it is lifted without care, handled carelessly or dropped, it may result in injury.
- When installing this option, turn the machine power OFF, and unplug the power supply cord from the wall socket.
- If this option is installed with the power on, it may result in an electric shock or a malfunction.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over.
- If they are not connected, they may move and fall over, resulting in injury.
- The Paper Feed Unit PB3150 does not have casters. Attach the "Caster Table Type M3" under the Paper Feed Unit PB3150, if necessary. (Caster Table Type M3 (D178))

1. Remove the orange tape and retainers.

2. Remove the items provided (fixing screws, etc.) from the package.

3. Install this option on the Caster Table (Caster Table Type M3 (D178)).
4. Holding the grips on the machine, align it with the locating pins [A], and place the machine on the paper feed unit.


## 핀

- When you lift the machine, hold the correct locations.

- Do not hold any other parts of the machine when lifting it, because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

5. Pull out the 2 nd paper feed tray of the main machine.
6. Using a securing bracket as a screwdriver, fix the machine to the feed unit (spring washer: screw: $\mathrm{M} 4 \times 10: 1$ ).

7. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine.

8. Attach the rear lower gap cover [A] ( $\quad$ x 2$)$

9. Return the paper feed tray to the machine.
10. Attach the decals as shown below.

[A]: Tray number decal
[B]: Paper size decal


- The tray number decal and paper size decal are packaged together with the machine.

11. Lock the casters.

12. Connect the power cord to the machine.


- Stabilizers are attached to the paper feed unit when it is shipped. Do not remove them.


13. Turn the main power switch ON .
14. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.

## 2.Installation

- Paper size for the paper feed unit can be changed with following SP.

SP5-181-009 (0: A4 LEF or 1: LT LEF)
SP5-181-010 (0: A3 or 1: DLT)
SP5-181-011 (0: B4 or 1: LG)
SP5-181-012 (0: B5 LEF or 1: Exe LEF)
15. Adjust the registration for the paper feed unit.

SP1-001-0xx (Leading Edge Registration Tray 3)

| -055 | Tray3: Thin | -062 | Tray3: Thin:1200 |
| :--- | :--- | :--- | :--- |
| -056 | Tray3: Plain | -063 | Tray3: Plain:1200 |
| -057 | Tray3: Mid-thick | -064 | Tray3: Mid-thick:1200 |
| -058 | Tray3: Thick 1 | -065 | Tray3: Thick $1: 1200$ |
| -059 | Tray3: Thick 2 | -066 | Tray3: Thick 2:1200 |
| -060 | Tray3: Thick 3 | -067 | Tray3: Thick 3:1200 |
| -061 | Tray3: Thick 4 | -068 | Tray3: Thick 4:1200 |

SP1-002-004 (Side-to-Side Registration Paper Tray 3)

## LCIT PB3170/ PB3230

Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | Securing Bracket | 2 |
| 2 | Screw(M4 $\times 10$ ) | 2 |
| 3 | Hexagonal Bolt | 1 |



Installation Procedure

## MTHFTH:

- The machine should be held at the correct locations and lifted gently.
- If it is lifted without care, handled carelessly or dropped, it may result in an injury.
- When installing this option, turn the machine power OFF, and unplug the power supply cord from the wall socket.
- If this option is installed with the power on, it may result in an electric shock or a malfunction.
- Be sure to join the machine to the paper feed unit so as to prevent equipment from falling over.
- If they are not connected, they may move and fall over, resulting in injury.

1. Remove the orange tape and retainers.


## 2.Installation

2. Remove the items provided (fixing screws, etc.) from the package.

3. Holding the grips on the machine, align it with the locating pins [A], and place the machine on the paper feed unit.


## H-

- When you lift the machine, be sure to hold the grips on the machine.
- In particular, do not lift the machine by holding the scanner unit, etc., because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

4. Pull out the 2 nd paper feed tray of the machine.
5. Using a securing bracket as a screwdriver, secure the machine to the LCT unit (hexagonal bolt: M4×8: 1).

6. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine.


- If the anti-condensation heater for this optional tray is to be installed, connect its heater harness prior to this step (step 6) (Tray Heater for LCIT PB3170/ PB3230).
- If "LCIT RT3030" is to be installed, connect its harness prior to this step (step 6) (LCIT RT3030 (D696)).


7. Attach the rear lower gap cover $[\mathrm{A}]\left({ }^{-1} \times 2\right)$

8. Return the paper feed tray to the machine.

## 2.Installation

9. Attach the decals as shown below.

[A]: Tray number decal
[B]: Paper size decal


- The tray number decal and paper size decal are packaged together with the machine.

10. Lock the casters of the paper feed unit.

11. Connect the power cord to the machine.


- Stabilizers are attached to the LCIT when it is shipped. Do not remove any of them.


12. Turn the power switch ON .
13. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.
14. Adjust the registration for the paper feed unit.

SP1-001-0xx (Leading Edge Registration Tray 3)

| -055 | Tray3: Thin | -062 | Tray3: Thin:1200 |
| :--- | :--- | :--- | :--- |
| -056 | Tray3: Plain | -063 | Tray3: Plain:1200 |
| -057 | Tray3: Mid-thick | -064 | Tray3: Mid-thick:1200 |
| -058 | Tray3: Thick 1 | -065 | Tray3: Thick 1:1200 |
| -059 | Tray3: Thick 2 | -066 | Tray3: Thick 2:1200 |
| -060 | Tray3: Thick 3 | -067 | Tray3: Thick 3:1200 |
| -061 | Tray3: Thick 4 | -068 | Tray3: Thick 4:1200 |

SP1-002-004 (Side-to-Side Registration Paper Tray 3)
Changing the Paper Size
Paper size is set as shown below when the machine is shipped from the factory.

## NA: LT LEF

## EU.AA.CHN: A4 LEF

The paper size can be changed to A4 LEF or LT LEF.

1. Pull out the left tray and right tray.
2. Remove the right tray side fence (front) [A], right tray side fence (rear) [B], and right tray end fence [C] $\times 3)$.

3. Attach the fences to the required position (A4 or LT) $(\times 3)$.


- Make sure that the spring [B] of the end fence [A] is attached



## 2.Installation

4. Remove the left tray side fence (front) [A] and the left tray side fence (rear) $[\mathrm{B}](\times 2)$.

5. Attach the fences to the required position (A4 or LT) $(\times 2)$.
6. Set the paper size setting

- SP5-181-009 (0: A4 LEF or 1: LT LEF)


## LCIT RT3030 (D696)

## Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Connector Cover | 1 |  |
| 2 | Front Bracket | 1 |  |
| 3 | Rear Bracket | 1 |  |
| 4 | Harness | 1 |  |
| 5 | Stud screw | 4 |  |
| 6 | Joint Pins | 2 |  |
| 7 | Tapping Screw $-\mathrm{M} 3 \times 6$ | 1 |  |
| 8 | Screw $-\mathrm{M} 3 \times 6$ | 1 |  |



## Installation Procedure

## 

- When installing this option, turn the power of the machine off, and unplug the power plug from the wall socket.
- If this option is installed when the power is on, it will result in an electric shock or a malfunction.


## 

- Before installing this option, first attach the "Paper Feed Unit PB3210/ PB3220" or "LCIT PB3170/ PB3230".


## 2.Installation

1. Remove the orange tape and retainers.


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2. Remove the enclosed items (stud screws, etc.).

3. Remove the eight covers on the right of the paper feed unit.

4. Attach the joint pins $[\mathrm{A}]$ to the front and rear on the right of the paper feed unit.

5. Attach the brackets $[\mathrm{A}]$ and $[\mathrm{B}]$ at the positions of the joint pins $(\times 4)$.

6. Remove the rear lower gap cover $[\mathrm{A}]\left({ }^{-} \mathrm{x} 2\right)$


## 2.Installation

7. Take off the securing brackets [A] from the two positions on the left and right at the rear of the machine.

8. Remove the paper feed unit rear cover $[\mathrm{A}](\times 2)$.

9. Connect the harness [A] ( x 2 ).

For the machine with Paper Feed Unit PB3170/ PB3230


For the machine with Paper Feed Unit PB3210/ PB3220


For the machine with Paper Feed Unit PB3170/ PB3230


For the machine with Paper Feed Unit PB3210/ PB3220

11. Attach the paper feed unit rear cover.

## 2.Installation

12. Attach the rear lower gap cover [A] ( x 2 ).

13. Attach the hook of the side LCT to the bracket.

14. Connect the cable [A] of the side LCT to the machine $(-\times 1)$.

15. Attach the cable cover [A] $(\times 1)$.

16. Push the side LCT towards the machine.

17. Turn the power switch ON.
18. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.
19. Do the registration adjustment for the large capacity tray.

SP1-001-0xx (Leading Edge Registration Tray 5(LCT))

| -083 | Tray5(LCT): Thin | -090 | Tray5(LCT): Thin:1200 |
| :--- | :--- | :--- | :--- |
| -084 | Tray5(LCT): Plain | -091 | Tray5(LCT): Plain:1200 |
| -085 | Tray5(LCT): Mid-thick | -092 | Tray5(LCT): Mid-thick:1200 |
| -086 | Tray5(LCT): Thick 1 | -093 | Tray5(LCT): Thick 1:1200 |
| -087 | Tray5(LCT): Thick 2 | -094 | Tray5(LCT): Thick 2:1200 |
| -088 | Tray5(LCT): Thick 3 | -095 | Tray5(LCT): Thick 3:1200 |
| -089 | Tray5(LCT): Thick 4 | -096 | Tray5(LCT): Thick 4:1200 |

SP1-002-007 (Side-to-Side Registration Large Capacity Tray)
Changing the Paper Size
Paper size is set as shown below when the machine is shipped from the factory.
NA: LT LEF
EU.AA.CHN: A4 LEF

## 2.Installation

The paper size can be changed to A4 LEF, LT LEF, or B5 LEF.

1. Open the tray cover.
2. Remove the upper screw at the front side fence, and after setting the side fence to the position of the paper (outer: A4 LEF, center: LT LEF, inner: B5 LEF), tighten the screw that was removed ( $\times 1$ ).

3. Also change the rear side fence to the same size position $(\times 1)$.

4. Change the paper size according to the new side fence position.

SP5-181-024 (Size Adjust LCT)
0: A4 LEF, 1: LT LEF, 2: B5 LEF

## Caster Table Type M3 (D178)

## Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Right Lower Cover | 1 | Used when not installing the Paper Feed Unit PB3150. |
| 2 | Securing Bracket | 2 |  |
| 3 | Screws $(\mathrm{M} 4 \times 10)$ | 2 |  |
| 4 | Screw with Spring Washer $(\mathrm{M} 4 \times 10)$ | 1 |  |



## Installation Procedure

## 

- The machine must be held at the correct locations, and must be lifted slowly.
- If it is lifted with force, handled carelessly or dropped, it will result in an injury.
- If installing this option, turn the power to the machine off, and unplug the power plug from the wall socket.
- If this option is installed when the power is on, it will result in an electric shock or malfunction.
- Be sure to join the machine and caster table to prevent equipment from falling over.
- If it is not joined, the machine will move or fall over, which will result in an injury.

For Installing Directly under the Main Machine

1. Attach the 3 locating pins.


## 2.Installation

2. Holding the grips on the machine, align it with the locating pins, and place the machine on the caster table.


- When you lift the machine, hold the lifting handles.
- In particular, do not lift it by holding the scanner unit, etc., (as it may deform).
- Do not put the machine down on the caster table as a temporary resting place. This may cause the machine to deform. Always connect the machine and caster unit properly.

3. Attach the right lower cover between the right side of the main machine and the caster table.
4. Pull out the 2 nd paper feed tray of the machine.
5. Using a securing bracket as a screwdriver, fix the machine or paper feed unit to the caster table (spring washer: screw: $\mathrm{M} 4 \times 10: 1$ ).

6. Attach the securing brackets [A] at 2 positions to left and right at the rear of the machine or paper feed unit (screws: 1 each).

7. Attach the right lower cover provided with this option to the right lower side of the main machine.
8. Return the paper feed tray to the machine or the paper feed unit on the caster table.

For Installing under PB3150

1. Place the paper feed unit $[\mathrm{B}]$ on the caster table $[\mathrm{A}]$.

2. Pull out the paper feed tray of the PB3150.
3. Using a securing bracket, fix the caster table to the paper tray unit (spring washer: screw: M4×10:1).
4. Attach the securing brackets at 2 positions to left and right at the rear of the machine (screws: 1 each).
5. Put back the tray of the PB3150 in place.
6. By holding the grips on the main machine, mount the main machine on the PB3 350 while fitting it to the locating pins [A].


## 

- Be sure to use the specified grips on the main machine. Using any other positions may damage the


## 2.Installation

machine.


- Do not put the machine down on the PB3150 as a temporary resting place. This may cause the PB3150 to deform.

7. Pull out the 2 nd paper feed tray of the main machine.
8. Using a securing bracket as a screwdriver, secure the main machine and the PB3150 (M4×10: $\times 1$ ).
9. Attach the securing bracket $[\mathrm{A}]$ to the rear of the main machine.

10. Attach the rear lower gap cover $[A](\times 2)$.

11. Return the 2 nd paper feed tray to the main machine.

## Platen Cover PN2000 (D700)

## Accessory Check

Check that you have the accessories indicated below.

| No. | Descriptions | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Platen Cover | 1 |  |
| 2 | Platen Sheet | 1 |  |
| 3 | Feeler Guide | 1 |  |
| 4 | Stepped Screw | 2 |  |



## Installation Procedure

## 

- Unplug the machine power cord before starting the following procedure.

1. Install the stepped screws $(\times 2)$.


## 2.Installation

2. Install the feeler guide $[\mathrm{A}]$.

3. Install the platen cover $[\mathrm{A}]$.


- 

4. Place the platen sheet [A] on the exposure glass.
5. Line up the rear left corner of the platen sheet flush against corner $[B]$ on the exposure glass.

6. Close the platen cover.
7. Open the platen cover.
8. Press the surface of the platen sheet gently to fix it on the platen cover securely.
9. Connect the power cord and turn on the main power.
10. Place an original on the platen and make a copy to check the installation.

## 2.Installation

## ARDF DF3090

Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | ARDF | 1 |
| 2 | Screw | 2 |
| 3 | Knob Screw | 2 |
| 4 | Stud Screw (Small) | 1 |
| 5 | Stud Screw (Large) | 1 |
| 6 | Attention Decal - Top Cover | 1 |
| - | Decal - Exposure Glass | 1 |

Installation Procedure

## 

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not turn the power on until you perform "adjustment after installation," or it may not start normally.

1. Remove all tapes and shipping retainers.
2. Insert the two stud screws ([A] is the larger stud, $[B]$ is the smaller stud).

3. Mount the ARDF [A] by aligning the screw keyholes [B] of the ARDF support plate over the stud screws.
4. Slide the ARDF toward the front of the machine.
5. Secure the ARDF with the two knob screws [C].

6. Align the rear left corner of the platen sheet $[A]$ with the corner $[B]$ on the exposure glass.
7. Close the ARDF.

8. Open the ARDF and check that the platen sheet is correctly attached.

## 2.Installation

9. Remove the rear cover [A].

10. Connect the ARDF cable as shown and mount the bracket [A] on the machine's rear frame.

Make sure to connect the grounding wire.

11. Connect the scanner cable to the connector at the machine's rear.

12. Reattach the rear cover.
13. Lift the ARDF original tray.
14. Slide the stamp holder [A] out and install the stamp cartridge in it, if necessary.

15. Close the holder.

After the stamp installation, be sure to slide the holder in correctly. Make sure to slide it in thoroughly until the reference marks on the holder and exterior cover are aligned. If it is not mounted correctly, the machine detects a J001 paper jam.

16. Attach the decals $[A]$ and $[B]$ to the top cover as shown. Choose the language that you want.


## 2.Installation

17. Attach the decal $[\mathrm{A}]$ to the scanner front cover.

18. Plug in and turn ON the main power.
19. Set SP4-688-001 (DF Density Adjustment ARDF) to " 106 ".
20. Check the ARDF operation, and make a full size copy. Check that the registrations (side-to-side and leading edge) and image skew are correct. If they are not, adjust the registrations and image skew. (ADF Image Adjustment)

When feeding thin paper
When feeding thin paper, adjust the sliding tray to the point shown below [A].
When feeding normal paper, adjust the sliding tray to the point shown below [B].
If not, it may cause problems as follows:

- Original jam
- Original curl
- Originals cannot be stacked neatly



## SPDF DF3100

Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :---: |
| 1 | Attention Decal - Top Cover | 1 |  |
| 2 | Decal - Exposure Glass | 1 |  |
| 3 | Ferrite Core (L) | 1 |  |
| 4 | Ferrite Core (S) | 1 |  |
| 5 | Face-Up Document Decal | 1 |  |
| 6 | Knob Screw | 2 |  |
| 7 | Stud Screw | 2 |  |
| 8 | Screw (3x6) | 4 |  |



Installation Procedure

## 

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not turn the power on until you perform "adjustment after installation," or it may not start normally.

1. When unpacking, hold both sides of the SPDF and take it out of the box.

2. Place the unit on the machine temporarily, and remove the orange tapes and shipping retainers.

3. Remove the accessories in the package (boards, fixing screws, etc.).
4. Attach the 2 stepped screws to the machine.

5. Align the hinges of the SPDF with the stepped screws, and attach them by sliding them in.
6. Fix the SPDF to the machine (coin screws $\times 2$ )

7. Release the lever [A], then open the pressure plate sheet [B], and gently remove the protective sheet [C].
8. Remove the filament tape, and shut the pressure plate sheet.

9. Remove the platen sheet [A], and set it on the exposure glass.

Align it with the left scale and rear scale of the printer.


## 2.Installation

10. Close the SPDF slowly, and attach the platen sheet and SPDF.

11. Remove the rear cover [A].

12. Remove the controller box cover [A].

Red Circle: Remove, Blue Circle: Loosen

13. Connect the SPDF cable as shown and mount the brackets $[A]$ and $[B]$ on the machine's rear frame.

Make sure to connect the grounding wire.

14. Connect the scanner cable to the connector at the machine's rear.


## 2.Installation

15. Attach the scanner cable with the bracket $[\mathrm{A}]$ to the inside of the controller box.

16. Connect the cable to the IPU (CN531).

17. Attach the supplied ferrite core (L) [A] and ferrite core (S) $[B]$.

Attach [A] close to the connector.
Attach $[B]$ near the end of the tube.

18. Reattach the controller box cover and the rear cover.
19. Attach the decals $[A]$ and $[B]$ to the SPDF.

20. Attach the decal [A] to the scanner front cover.


1. Turn ON the main power.
2. Set SP4-688-002 (Scan Image Density Adjustment 1-pass DF) to "101".
3. Execute SP4-730-002 (FROM Main Factory Setting Execution ON/OFF).
4. Check the vertical registration for the SPDF.
5. Create an original as shown in the following picture.

The large white arrow indicates the direction of feed.

2. Copy the original and make sure that the position of the line $[\mathrm{A}]$ is within $0 \pm 1 \mathrm{~mm}$
3. If not within the standard, adjust with the SP modes.

SP6-006-001 (ADF Adjustment Side-to-Side Regist: Front)
SP6-006-002 (ADF Adjustment Side-to-Side Regist: Rear)


- The above SPs must be executed with the ADF cover closed, because the SPs will not succeed if the ADF cover is opened or lifted up.

5. Check the horizontal registration for the SPDF.
6. Copy the original and make sure that the position of the line $[\mathrm{B}]$ that you wrote on the original (see above) is within $0 \pm 2 \mathrm{~mm}$.
7. If not within the standard, adjust with the SP modes.

SP6-006-010 (ADF Adjustment L-Edge Regist (1-Pass): Front)
SP6-006-011 (ADF Adjustment L-Edge Regist (1-Pass): Rear)
6. Check the skew.

1. Make sure that the difference between both end positions of the line [A] that you wrote on the original (see above) is within $0 \pm 2 \mathrm{~mm}$.
2. If not within the standard, change the position of the fixing screw [A] to the long hole $[B]$ at the right hinge.


## SP descriptions

- SP4-688-002 (Scan Image Density Adjustment: 1-pass DF)

Adjusts density difference between Book and ADF. This SP is only for the SPDF models.

- SP4-730-002 (FROM Main Factory Setting Execution ON/OFF)

Copies the parameters written in FROM in the SPDF to the engine board in the MFP. This SP is only for the SPDF models.

## Anti-Condensation Heaters for Scanner, PCU and Trays

## MTHFTili

- Turn off the main power and disconnect the power supply cord when installing this option.


## Overview

The following diagram shows the heater configuration. When installing the heater, the heater board is required.


## Heater Board

## 

- Turn off the main power and disconnect the power supply cord when installing this option.

Accessory Check

| Description | Q'ty | Shown in the Overview as |
| :--- | :--- | :--- |
| Tapping Screw: M3x6 | 3 | - |
| Clamp: LWSM-0306A | 7 | - |
| Clamp: LWS-1211A | 1 | - |
| Heater Board | 1 | $\# 3$ |
| BCU Harness | 1 | $\# 2$ |
| PSU Harness | 1 | $\# 1$ |
| PFU Harness | 1 | $\# 5$ |

Installation Procedure

1. Open the front cover [A].
2. Remove the paper exit tray [A].

3. Remove the left upper cover $[\mathrm{A}](\times 1)$.


- Slide the cover in the direction of the blue arrow.


4. Remove the controller cover [A].

5. Open the 1 st and 2 nd paper feed trays slightly.
6. Remove the left cover [A].

Remove it while pressing down.

## 2.Installation


7. Remove the rear cover [A].

8. Remove the rear lower gap cover [A] (hook $\times 2$ ).

9. Remove the rear lower cover [A].

10. Attach the heater board $[\mathrm{A}]$ ( x 3 ).

11. Attach the clamps (LWSM-0306A). Connect the PSU harness [A] to CN904 of the PSU and CN920 of the heater board, and clamp the harness [A].


## 2.Installation

12. Connect the BCU harness [A] to CN121 of the BCU and CN930 of the heater board.

13. Clamp the harness.

14. Clamp the harness [A] which was connected in step 12 .

15. Attach the clamp (LWS-1211A).

16. Connect the PFU harness [A] to CN921 of the heater board.

17. Attach the socket on the PFU harness [A] to the rear frame of the main unit.


## 2.Installation

18. Connect the connector.

19. Clamp the PFU harness ( x 3 ).


Anti-Condensation Heater (Scanner)

## MTHFMO:

- Unplug the machine power cord before starting the following procedure.
- Do the following procedure not to damage any harnesses.
- Check that harnesses are not damaged or pinched after installation.

Accessory Check

| Description | Q'ty | Shown in the Overview <br> as | Remarks |
| :--- | :--- | :--- | :--- |
| Scanner/PCU <br> Harness | 1 | $\# 4$ | This part is not needed if the PCU heater has been <br> installed. |
| Clamp: LWSM- <br> 0511A | 6 | - | These parts are not needed if the PCU heater has been <br> installed. |
| Scanner Heater | 1 | $\# 6$ |  |
| Bracket | 1 | - |  |
| Heater Cover | 1 | - |  |
| Tapping Screw: <br> M3x6 | 2 | - |  |

Installation Procedure

1. Install the heater board. (Installation Procedure)
2. Connect the Scanner/PCU Harness [A] to CN922 of the heater board [B] and clamp the harness.

3. Attach the clamps around the controller board in the rear main unit.

4. Route the heater cable to the rear of the main unit.


## 2.Installation

5. Clamp the harness $[\mathrm{A}]$.


## -1

6. Open the DF or platen cover.
7. Remove the guide scale [A].

8. Remove the sheet-through exposure glass [A].

9. Remove the rear scale $[\mathrm{A}]$.

10. Remove the left scale and the exposure glass [A].


- The exposure glass and the left scale are attached with double-sided tape.


11. Move the carriage to the right.
12. Attach the heater $[\mathrm{B}]$ to the bracket $[\mathrm{A}]$ provided with the accessories $(\times 2)$.


## 2.Installation

13. Remove the release paper $[\mathrm{A}]$ on the back side of the bracket, and secure the heater $[\mathrm{B}]$ with the seal, aligning it with the boss on the frame.

14. Pull the harness [A] out of the frame hole.

Route the harness into the harness guide.

15. Set the tabs into the cutout $[A]$, and attach the heater cover $[B]$.

16. Connect the connector, which is shown in step 14, to the Scanner/PCU Harness.

17. Attach the scanner scales and exposure glass, and all covers which have been removed.

## Anti-Condensation Heater (PCU)

## Minnmoi

- Unplug the machine power cord before starting the following procedure.
- Do the following procedure not to damage any harnesses.
- Check that harnesses are not damaged or pinched after installation.


## Accessory Check

| Description | Q'ty | Shown in the <br> Overview as | Remarks |
| :--- | :--- | :--- | :--- |
| Scanner/PCU Harness | 1 | $\# 4$ | This part is not needed if the scanner <br> heater has been installed. |
| Clamp: LWSM-0511A | 6 | - | These parts are not needed if the scanner |

## 2.Installation

| Description | Q'ty | Shown in the <br> Overview as | Remarks |
| :--- | :--- | :--- | :--- |
|  |  |  | heater has been installed. |
| PCU Heater | 1 | $\# 7$ |  |
| THERMOSTAT:ASS'Y | 1 | - |  |
| SCREW:SMALL <br> ROUND/SPRING:M3X6 | 1 | - |  |
| DECAL:WARNING (HIGH <br> TEMPERATURE) | 1 | - |  |

Installation Procedure

1. Install the heater board. (Installation Procedure)
2. Connect the Scanner/PCU Harness cable [A] to CN922 of the heater board [B] and clamp the harness.

3. Attach the clamps around the controller board in the rear main unit.

4. Route the heater cable to the rear of the main unit.

5. Open the front cover.
6. Open the right cover.
7. Open the transfer unit [A].

8. Remove the PCDU [A].


## 2.Installation

9. Pull out the waste toner bottle $[\mathrm{A}](\mathrm{x} 1)$.

10. Take off the heater bracket $[\mathrm{A}]$.

11. Attach the anti-condensation heater (PCU) [A] to the heater bracket [B].


- Fit the anti-condensation heater (PCU) [A] into the tab [C] on the heater bracket [B].


12. Attach the thermostat $[A]$ to the anti-condensation heater (PCU) $[B]$ ( x 1 ).


- Fit the thermostat [A] into the tab [C] on the heater bracket [B].


13. Put back the anti-condensation heater (PCU) [A], and then pass the heater harnesses out through the opening [B] at the inner rear side of the main unit.

14. For MP 4055 SP, MP 5055 SP, and MP 6055 SP only: Remove the development bearing cooling fan [A].

15. Connect the harnesses of the thermostat [A] and of the anti-condensation heater (PCU) $[B]$ to the harnesses [C] which are routed in step 4.


- You can connect the harnesses [C] up to either harness [A] or [B].


## 2.Installation


16. Attach the warning decal on the bracket.

17. Reattach the development bearing cooling fan, PCDU, waste toner bottle and covers which have been removed.

## Tray Heater for Main Unit

## Minminil

- Turn off the main power switch and disconnect the power supply cord when installing this option.

Accessory Check

| Description | Q'ty | Shown in the Overview as |
| :--- | :--- | :--- |
| Tray Heater for Main Unit | 1 | $\# 8$ |
| TAPPING SCREW - M3X8 | 1 | - |

Installation Procedure

In North America, this option has a decal [A] attached that says 110V-130V. Peel off this decal.


1. Install the heater board. (Installation Procedure)
2. Pull out the first and second paper feed trays.
3. Connect the harness of the tray heater [A] for the main unit to the socket in the inner rear frame of the main unit ( ${ }^{-10} \mathrm{x} 1$ ).

4. Insert the tabs of the tray heater for the main unit in the cutouts in the inner rear frame of the main unit, and then attach the heater ( $\square_{\mathrm{x}} \mathrm{x}$ ).

5. Reattach all the paper feed trays, covers, etc. which have been taken off.

## 2.Installation

## Do the following two steps to set the Anti-Condensation Heater to be constantly ON.

1. Set the setting of SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to [1].
2. Manually disconnect the PCU and scanner heaters.

- The PCU and scanner heaters must be disabled because the temperature in the machine could become too high, causing problems with toner clogging, or damage to the scanner lamp stabilizer.


## Tray Heater for Paper Feed Unit PB3210 / PB3220

## MTHFTM:

Turn off the main power switch and disconnect the power supply cord when installing this option.
Accessory Check

| Description | Q'ty | Shown in the Overview as |
| :--- | :--- | :--- |
| Tray Heater | 1 | $\# 9$ |
| SCREW:SPRING WASHER:ROUND POINT:M4X10 | 1 | - |

Installation Procedure


In North America, this option has a decal [A] attached that says 110V-130V. Peel off this decal.


1. Install the heater board. (Installation Procedure)
2. Pull out the 1 st and 2 nd paper feed trays of the paper feed unit.
3. Pass the harness of the heater [A] for the optional paper feed unit through the hole in the inner rear frame of
the optional paper feed unit, and then attach it ( x 1 ).

4. Remove the bracket [A].

5. Remove the rear cover [A] of the optional paper feed unit.

6. Connect the PFU harness [A] of the optional paper feed unit to the relay harness [B] of the main unit and the

## 2.Installation

## heater harness [C].



- Put the PFU harness through the hole which is revealed when the bracket is removed in step 6.


7. Reattach the rear cover of the optional paper feed unit, securing brackets, and rear lower cover of the main unit.
8. Connect the power supply cord and turn ON the main power.

Do the following two steps to set the anti-condensation heater to be constantly ON.

1. Set the setting of SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to [1].
2. Manually disconnect the PCU and scanner heaters.

- The PCU and scanner heaters must be disabled because the temperature in the machine could become too high, causing problems with toner clogging, or damage to the scanner lamp stabilizer.

Tray Heater for Paper Feed Unit PB3150

## 

Turn off the main power switch and disconnect the power supply cord when installing this option.

Accessory Check

| Description | Q'ty | Shown in the Overview as |
| :--- | :--- | :--- |
| Tray Heater | 1 | $\# 9$ |
| SCREW:SPRING WASHER:ROUND POINT:M4X10 | 1 | - |

Installation Procedure
$\square$
Pr $\quad \square$
In North America, this option has a decal [A] attached that says $110 \mathrm{~V}-130 \mathrm{~V}$. Peel off this decal.


1. Install the heater board. (Installation Procedure)
2. Pull out the paper feed tray of PB3150.
3. Put the harness of the heater [A] for the optional paper feed unit through the hole at the inner rear frame, and then attach it ( x 1 ).


## 2.Installation

4. Remove the bracket [A].

5. Remove the rear cover [A] of Paper Feed Unit PB3150.

6. Connect the PFU harness [A] of the optional paper feed unit to the relay harness [B] of the main unit and the heater harness [C].

## 

- Put the PFU harness through the hole which is revealed when the bracket is removed in step 4.


7. To gain access to the connector at the back of the board, remove the controller board's screws and clamp.

8. Tilt the controller board to the front to expose the connector, and then connect the heater harness.

9. Reattach the rear cover of the paper feed unit PB3150, securing brackets, and rear lower cover of the main unit.
10. Connect the power supply cord and turn ON the main power.

Do the following two steps to set the anti-condensation heater to be constantly ON.

## 2.Installation

1. Set the setting of SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to [1].
2. Manually disconnect the PCU and scanner heaters.

## 51

- The PCU and scanner heaters must be disabled because the temperature in the machine could become too high, causing problems with toner clogging, or damage to the scanner lamp stabilizer.

Tray Heater for LCIT PB3170/ PB3230

## MTHFTM

Turn off the main power switch and disconnect the power supply cord when installing this option.

Accessory Check

| Description | Q'ty | Shown in the Overview as |
| :--- | :--- | :--- |
| Tray Heater | 1 | $\# 9$ |
| SCREW:SPRING WASHER:ROUND POINT:M4X10 | 1 | - |

## Installation Procedure



In North America, this option has a decal [A] attached that says 110V-130V. Peel off this decal.


1. Install the heater board. (Installation Procedure)
2. Pull out the paper feed tray of the optional LCT unit.
3. Pass the harness of the heater [A] for the optional tray out through the hole in the inner rear frame of the
optional LCT unit, and then attach it ( -x 1 ).

4. Remove the bracket [A].

5. Remove the rear cover [A] of the optional LCT unit.

6. Connect the PFU harness [A] of the optional LCT unit to the relay harness [B] of the main unit and the heater

## 2.Installation

harness [C].


- Put the PFU harness through the hole which is revealed when the bracket is removed in step 4.


7. Reattach the rear cover of the optional LCT unit, securing brackets, and rear lower cover of the main unit.
8. Connect the power supply cord and turn ON the main power.

Do the following two steps to set the anti-condensation heater to be constantly ON.

1. Set the setting of SP5-805-001 (Anti-Condensation Heater ON/OFF setting) to [1].
2. Manually disconnect the PCU and scanner heaters. Fi

- The PCU and scanner heaters must be disabled because the temperature in the machine could become too high, causing problems with toner clogging, or damage to the scanner lamp stabilizer.


## 1 Bin Tray BN3110 (D3CQ)

Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Tray | 1 | Remarks |
| 2 | 1-bin tray unit | 1 |  |
| 3 | Tray support bar | 1 |  |
| 4 | Harness | 1 |  |
| 5 | Gear | 1 |  |
| 6 | Screw: M3 x 8 | 2 |  |
| 7 | Harness cover | 1 |  |
| 8 | Paper support guide | 1 | Not used for this machine |



## Installation Procedure

## Min月苗

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- When attaching this 1-bin tray unit at the same time as the following peripherals, attach the one-bin tray first. Otherwise, the 1-bin tray's exit tray cannot be attached.
- Internal Shift Tray SH3070 (D691)
- Side Tray Type M3 (D725)
- Bridge Unit BU3070 (D685)
- To use together with the "Internal Finisher SR3130" or "Internal Finisher SR3180", first attach the


## 2.Installation

bottom plate of Internal Finisher SR3130 and Internal Finisher SR3180, and then install the 1-bin tray.

1. Remove the orange tape and shipping retainers.
2. Remove the accessories (fixing screws, etc.) provided with the machine.
3. Open the right cover, and remove the upper front cover.


1

- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


4. Remove the paper exit tray [A].

5. Remove the paper exit feeler [A].

6. Tuck in the lever [A] for detecting when the tray is full.

7. Open the front cover, and then remove the upper left cover [A] by pulling it towards the front $(\times 1)$.

8. Release the hooks [A], and remove the left rear cover [B].


## 2.Installation

9. Remove the inverter tray $[\mathrm{A}]$, and tray support rod cover $[\mathrm{B}]\left({ }^{-1} \times 1\right)$.

10. Remove the paper exit cover $[\mathrm{A}](\times 1)$.

11. Attach the gear $[\mathrm{A}]$ provided with the accessories.

12. Attach the 1 -bin tray unit [ A$]$.

Make sure to engage it with the gear attached in the previous step.
Take care that the harness is not trapped between the 1-bin tray unit and the machine frame.


HFA, MFII
13. Attach the harness provided with the accessories.

14. Attach the tray support bar $[\mathrm{A}](\times 1)$.

When attaching the tray support bar [A], make sure that the harness attached in the previous step goes through the slit in the tray support bar circled in blue $[\mathrm{A}]$ and comes outside of it as shown below.


## 2.Installation

15. Hook the 1-bin tray [A] onto the 1-bin tray unit, aligning the positions in the blue circle.

16. Connect the harness to the 1-bin tray, and bring it around.

17. Insert the tray support bar firmly in the 1-bin tray, and attach the harness cover [A].

18. Reattach the covers, and close the right door.
19. Reattach the paper exit tray and paper exit feeler.
20. Turn ON the main power.
21. Check that output to this tray can be selected on the operation panel, and check the operation.

## Checking the Position of the Paper Exit Feeler

Check the following points for the paper exit feeler [A] at the paper exit.

- It can move in line with the ejection of paper
- It holds contact with the surface of the ejected paper and is still movable


Paper will get jammed in the following cases.

- The paper exit feeler does not function due to obstacles (such as cables).
- The paper exit feeler does not function when the paper is pulled out and pushed back again.



## 2.Installation

## Internal Shift Tray SH3070 (D691)

Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Tray Cover | 1 |  |
| 2 | Lever | 1 | Not used for this machine |
| 3 | Sheet | 2 |  |



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.

## Firn

- The internal shift tray cannot be used together with the following peripherals:
- Side Tray Type M3 (D725)
- Internal Finisher SR 3180 (D766)
- Internal Finisher SR 3130 (D690)
- Bridge Unit BU3070 (D685)
- Internal Multi-fold Unit FD3000 (M482-17, -21)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", attach the "1 Bin Tray BN3110 (D3CQ)" first before installing the internal shift tray.

1. Remove the orange tapes, shipping retainers, and provided accessories (fixing screws, etc.).

2. Attach the tray cover [B] to the shift tray [A].

3. Remove the paper exit tray [A].


## 2.Installation

4. Remove the connector cover [A].

5. Attach the shift tray [A].

6. Remove the paper exit feeler [A].

7. Attach the Mylar sheets [A] at the sides of the paper exit cover.

## 4 4 -

- Make sure to attach the Mylar as shown in the photo below. This is to prevent curling when the paper lands in the tray.
- The Mylar's top edge should be $\mathbf{0 - 2 . 5} \mathbf{m m}$ from the top edge of the paper exit cover, i.e. between the two red lines.
- The Mylar's side edge should be flush against the side of the cover, i.e. along the yellow dotted


## line.


8. Reattach the paper exit tray and close the right door.
9. Tuck in the lever [A] for detecting when the tray is full.

10. Reattach the removed paper exit feeler [A].

11. Do not use the lever supplied with the optional unit. Doing so may affect the stacking function.
12. Turn ON the main power.
13. Check that paper output to the shift tray can be selected at the operation panel, and check the operation.

Checking the Position of the Paper Exit Feeler
Check the following points for the paper exit feeler [A] at the paper exit.

- It can move in line with the ejection of paper


## 2.Installation

- It holds contact with the surface of the ejected paper and is still movable


Paper will get jammed in the following cases.

- The paper exit feeler does not function due to obstacles (such as cables).
- The paper exit feeler does not function when the paper is pulled out and pushed back again.


Side Tray Type M3 (D725)
Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Left Extension Tray | 1 |  |
| 2 | Upper Extension Tray | 1 |  |
| 3 | Fixing Plate | 1 |  |
| 4 | Knob Screw | 1 |  |
| 5 | Tapping screw - M3 x 8 | 1 |  |
| 6 | Tapping screw - M4 x 14 | 1 |  |
| 7 | Bracket | 1 |  |
| 8 | Paper Support Guide | 1 | 1 |
| 9 | Driven Roller (Flat) | 1 |  |
| - | SHEET:NOTE_OPTIONAL_UNIT:EXP |  |  |



## Installation Procedure

## Mi Prrion

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- The side tray cannot be used together with the following peripherals:
- Internal Shift Tray SH3070 (D691)
- Bridge Unit BU3070 (D685)
- Internal Finisher SR 3180 (D766)


## 2.Installation

## - Internal Finisher SR 3130 (D690)

- Internal Multi-fold Unit FD3000 (M482-17, -21)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", attach the "1 Bin Tray BN3110 (D3CQ)" first before installing the side tray.

1. Remove the orange tapes, shipping retainers, and accessories (fixing screws, etc.).

2. Remove the paper exit tray [A].

3. Remove the paper exit feeler [A].

4. Tuck in the lever [A] for detecting when the tray is full.

5. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- Insert a flathead screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.
- When attaching the driven roller, push its center all the way in until it clicks.

[A]: The supplied driven roller has flat rollers.
[B]: The machine's standard driven roller has drum-type rollers (as indicated by the red frames).


## 2.Installation

6. Attach the paper support guide [A] (Tab x4).

7. Open the right cover, and then remove the upper front cover [A].


- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


8. Remove the connector cover [A].

9. Attach the bracket [A].

10. Reattach the covers, and close the right door.
11. Attach the side tray unit [A] to the machine, and fix it with a knob screw.


## 2.Installation

12. Attach the fixing plate $[\mathrm{A}](\times 1)$.

13. Attach the upper extension tray [A] and the left extension tray [B].

14. Turn ON the main power.
15. Check that paper output to the side tray can be selected at the operation panel, and check the operation.

## Bridge Unit BU3070 (D685)

Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | Tapping Screw- M3 $\times 8$ | 1 |
| 2 | Screw - M4 | 1 |
| 3 | Knob Screw - M4 | 1 |
| 4 | Right Front Bracket | 1 |
| 5 | Upper Left Cover | 1 |
| 6 | Left Front Bracket | 1 |
| 7 | Paper Support Guide | 1 |
| 8 | Driven Roller (Flat) | 1 |
| - | SHEET:NOTE_OPTIONAL_UNIT:EXP | 1 |



Installation Procedure

## Himernil

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.

## Fill

- The bridge unit cannot be used together with the following peripherals:
- Internal Shift Tray SH3070 (D691)
- Side Tray Type M3 (D725)
- Internal Finisher SR 3180 (D766)
- Internal Finisher SR 3130 (D690)
- Internal Multi-fold Unit FD3000 (M482-17, -21)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", attach the "1 Bin Tray BN3110 (D3CQ)" first before installing the bridge unit.


## 2.Installation

1. Remove the orange tapes, shipping retainers, and provided accessories (fixing screws, etc.).

2. Remove the paper exit tray [A].

3. Remove the connector cover [A].

4. Remove the paper exit feeler [A].

5. Tuck in the lever [A] for detecting when the tray is full.

6. Remove the driven roller $[B]$ at the machine's exit tray and attach the supplied driven roller $[A]$.

- Insert a flathead screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.
- When attaching the driven roller, push its center all the way in until it clicks.

[A]: The supplied driven roller has flat rollers.
[B]: The machine's standard driven roller has drum-type rollers (as indicated by the red frames).


## 2.Installation

7. Attach the paper support guide [A] (Tab x4).

8. Open the front cover.
9. Remove the upper left cover $[\mathrm{A}](\times 1)$.


- $\quad$ The screw removed is used again in step 14.


10. Open the right cover, and then remove the upper front cover [A].


## 

- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover
[A].


11. Attach the right front bracket [A].

12. Attach the bridge unit to the machine (using the knob screw [A]).

13. Attach the covers removed in step 9 and step 10 , and then close the right cover.

## 2.Installation

14. Attach the upper left cover $[\mathrm{A}]$ provided with the accessories.

15. Attach the L type connecting bracket [A].

To fix the bridge unit securely on the machine, tighten the finisher's joint bracket [A] and the L type connecting bracket $[\mathrm{B}]$ together when installing the finisher.

16. Complete the bridge unit attachment. Refer to the procedure for connecting the optional unit downstream of the bridge unit.

- Booklet Finisher SR3240 (D3BB) (Booklet Finisher SR3240 / Finisher SR3230)
- Finisher SR3230 (D3BA) (Booklet Finisher SR3240 / Finisher SR3230)
- Booklet Finisher SR3220 (D3B9) (Booklet Finisher SR3220 (D3B9))
- Finisher SR3210 (D3B8) (Finisher SR3210 (D3B8))

17. After the finisher is installed, turn ON the main power.
18. Check that the finisher can be selected at the operation panel.

## Internal Multi-fold Unit FD3000 (M482-17, -21)

Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Paper Exit Tray | 1 |  |
| 2 | Base Plate | 1 |  |
| 3 | Correction Plate for Side to side <br> registration | 1 |  |
| 4 | Coin Screw M4 | 1 |  |
| 5 | Screw M4x6 | 1 |  |
| 6 | Screw M3x6 | 1 |  |
| 7 | Bind Screw M3x6 | 3 |  |
| 8 | Coin Screw M4x8 | 4 |  |
| 9 | Paper Exit Guide (Relay) | 1 | Use this when connecting the finisher beyond the <br> internal multi-fold unit. |
| 10 | Paper Relay Cover | 1 |  |
| 11 | Left Upper Cover | 1 | Use this when connecting the finisher beyond the |
| internal multi-fold unit. |  |  |  |

## 2.Installation



## When installing the internal multi-fold unit alone

Use the paper exit tray [1] and the paper relay cover [10].

## When connecting the finisher beyond the internal multi-fold unit

Use the paper exit guide (relay) [9] and the left upper cover [11].


The customer should keep the unused accessories included with the product. When connecting a finisher that was purchased separately or when disconnecting the finisher that is connected downstream from the internal multi-fold unit, if the customer did not keep the necessary accessories, order them as service parts.

## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.


- This option cannot be used together with the following peripherals:
- Internal Shift Tray SH3070 (D691)
- Side Tray Type M3 (D725)
- Bridge Unit BU3070 (D685)
- Internal Finisher SR 3180 (D766)
- Internal Finisher SR 3130 (D690)
- For using this option together with "1 Bin Tray BN3110 (D3CQ)", attach the bottom plate of this option at the beginning, then install the "1 Bin Tray BN3110 (D3CQ)", followed by installing this option.

1. Unpack the internal multi-fold unit [A].

Hold the parts circled in blue. Do not hold other parts. Doing so may damage exterior cover or deform the frame.

2. Remove the orange tapes and shipping retainers, and take out the accessories (fixing screws, etc.) provided with this unit.


- When removing the upper front cover, release the hooks at the back of the cover.



## 2.Installation

3. Open the right cover, and remove the upper front cover $[\mathrm{A}]$.


## FHir

- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


4. Remove the inverter tray [A].

5. Remove the paper exit feeler [A].

The removed paper exit feeler can be discarded.

6. Tuck in the lever [A] for detecting when the tray is full.

7. Remove the paper exit cover $[\mathrm{A}]\left({ }^{-1} \times 1\right)$.

8. Remove the paper exit tray [A].


## 2.Installation

9. Open the front cover, and remove the upper left cover [A] by sliding it in the direction of the arrow $(\times 1)$.

10. Release the hooks $[\mathrm{A}]$, and remove the left rear cover $[\mathrm{B}]$.

11. Remove the connector cover [A].

12. Remove the driven roller $[B]$ at the machine's exit tray and attach the supplied driven roller $[A]$.

- Insert a flathead screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.
- When attaching the driven roller, push its center all the way in until it clicks.

[A]: The supplied driven roller has flat rollers.
[B]: The machine's standard driven roller has drum-type rollers (as indicated by the red frames).

13. Attach the paper support guide (small) to the exit tray (hook x 2 ).
14. Align and insert the support guide's tabs under the notches in the discharge brush frame [A] upward at an angle.

## 2.Installation


2. Rotate the support guide upward so that the support guide's hooks [C] become horizontal to the discharge brush frame [B].


## 1

- Do not continue to hold the support guide at an angle when pushing it in. Otherwise you might cause faulty attachment or damage to the hooks.


3. Holding the back of the discharge brush frame with the forefingers, push the hooks in horizontally one
at a time until they click.

4. Remove the paper exit lower cover [A].

5. Attach the base plate $(3 \times 6)$. Before you attach it, insert the base plate's 2 tabs [A] into the slots in the

## 2.Installation

machine.

16. Reattach the covers in the following order: paper exit cover and upper front cover. Then close the front cover and right door.
17. Attach the cushions to the internal multi-fold unit.

- When attaching the cushion (paper entrance) [1], align the cutout [A] with the top of the upper cover.
- When attaching the cushion (rear) [2], align it with a point 3 mm from the left edge [B].


18. Open the front cover of the internal multi-fold unit, and then secure the 2 screws in the recesses.


- This operation is required to apply pressure to the internal multi-fold unit roller when attaching it. The screw holes become inaccessible when the unit is attached to the machine, so be sure to perform this in advance.
- Be sure to turn the screws until they stop. It is not necessary to continue tightening them.

19. Temporarily place the internal multi-fold unit [A] on the base plate.

20. Open the front cover of the internal multi-fold unit, and then, holding the exit tray frame [A] and the top edge of the opening [B], lift the internal multi-fold unit and attach it to the machine.

- Lower the lever [C] to keep the paper guide plate open during operation, because the plate might be deformed if a strong force is applied while the guide plate is closed.
- Hold the metal frame part of the opening [B], not the exterior cover, to avoid the deformation of the cover.


## 2.Installation

- Be careful not to touch the mylar sheet [D] located behind.

- Be careful not to let the securing bracket [A] get caught between the internal multi-fold unit and the machine.


21. Attach the securing bracket $[\mathrm{A}](\mathrm{M} 4 \times 6)$.

22. Temporarily attach the internal multi-fold unit with the supplied coin screw (M4x1).


- The unit is only temporarily attached at this stage, so leave the screws loose.
- Fix the screw to the left screw hole [A] of the two screw holes. Do not use the right screw hole [B].


23. Attach the correction plate for side-to-side registration [A] to the machine (M3x6).


## H1

- Partially secure the adjusting screw [B] on the upper part of the correction plate, and then secure the screw [C] at the bottom part of the plate.

24. Connect the cable [A] of the internal multi-fold unit to the machine.

25. Turn ON the main power.
26. Feed A3/DLT paper (any brand) from Tray 2 and check the scale [A].

Select the [User Tools] icon $>[$ Machine Features $]>[$ Printer Features $]>[$ List $/$ Test Print $]>[$ Operation Test $]$.

## 2.Installation


27. Check the movement at the paper edge from the leading to trailing edges, and turn the adjusting screws of the correction plate to adjust the internal multi-fold unit's position until the deviation stays within 2 marks on the scale. (Each mark represents 1 mm .)

- [A]: When the paper edge shifts towards the front, turn the adjusting screw clockwise.
- [B]: When the paper edge shifts towards the rear, turn the adjusting screw counterclockwise.


28. After registration, tighten the coin screw [A] to secure the internal multi-fold unit.

## Fimor

- When you fully open the front cover of the internal multi-fold unit, it may interfere with the machine's upper front cover, causing the internal multi-fold unit to become misaligned. Therefore, tighten the screw [A] with a stubby screwdriver.


29. Reattach the hooks [A], and re-install the left rear cover [B].

30. When attaching the finisher beyond the internal multi-fold unit, attach the supplied paper exit guide (No.9). For details, refer to When Attaching the Finisher Beyond the Internal Multi-Fold Unit.
31. Reattach the left upper cover.

- The exit tray of the internal multi-fold unit has mylar sheets [A] on it. When attaching the cover, be careful not to damage the mylar sheets [A].
- The left upper cover bulges slightly because of the mylar sheets, but this does not cause any problem if the mylar sheets are positioned correctly.

- Reattach the left upper cover with the mylar sheets [B] sandwiched behind it. The mylar sheets must not


## 2.Installation

catch on or hang over the left upper cover, as shown by [C].

32. Reattach the inverter tray.
33. Insert the 4 hooks on the paper exit tray [A] into the slots (hook $x 4$ ).

When attaching the paper exit tray, do not put the movable plate [B] under the paper exit tray, because that would interfere with the operation of the internal multi-fold unit.

34. Tighten the screws to secure the paper exit tray (coin screw x 2 :M4).

35. Attach the paper relay cover (coin screw x 2 : M4)


When Attaching the Finisher Beyond the Internal Multi-Fold Unit
When attaching a finisher downstream from the internal multi-fold unit, attach the supplied left upper cover [A] and paper exit guide (relay) [B].


1. Attach the paper exit guide (relay) [A] provided with this unit. (coin screw x 2 )

When attaching the paper exit tray, do not put the movable plate [B] under the paper exit tray, because that would interfere with the operation of the internal multi-fold unit.

## 2.Installation


2. Attach the left upper cover [A] provided with this unit.

3. To complete installation of the finisher, refer to the finisher installation below.

- Booklet Finisher SR3240 / Finisher SR3230
- Booklet Finisher SR3220 (D3B9)
- Finisher SR3210 (D3B8)


## Booklet Finisher SR3240 / Finisher SR3230

- To attach this optional unit, the following optional units are required.
- Bridge Unit BU3070 (D685) or Internal Multi-Fold Unit FD3000 (D3E4)
- LCIT PB3170/PB3230 (D695) or Paper Feed Unit PB3150 (D694)

Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Booklet Tray | 1 | Remarks |
| 2 | Shift Tray 2 | 1 |  |
| 3 | Cushion | 1 |  |
| 4 | Joint Bracket | 1 |  |
| 5 | Entrance Guide Plate | 1 |  |
| 6 | Ground Plate | 1 |  |
| 7 | Booklet Stapler Unit Fixing Cover | 1 | Booklet Finisher SR3240 only |
| 8 | Tray Holder | 1 |  |
| 9 | Proof Support Tray | 1 |  |
| 10 | Screws (3x6) | 4 |  |
| 11 | Screws (3x8) | 1 |  |
| 12 | Round Rivets | 2 |  |
| 13 | Screws (4x12) | 4 |  |
|  |  |  |  |



## Installation Procedure

## Min月苗

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.

## 14

- Before installing this option, attach the "Bridge Unit BU3070 (D685)" or "Internal Multi-Fold Unit FD3000 (D3E4)" first.
- Attach the "LCIT PB3170/PB3230 (D695)" or "Paper Feed Unit PB3210/PB3220 (D787)" first before installing this option.

1. Remove the external orange tape and shipping retainers.

2. Open the front cover, and remove the orange tapes, shipping retainers and fixing bracket $[A]$.

Keep the screws that were removed when removing the fixing bracket [A] and reuse them for attaching the supplied booklet stapler unit fixing cover [A] in step 4.

3. Pull out the saddle stitch unit and remove the fixing bracket [A] at the lower part of the finisher.

4. Attach the supplied booklet stapler unit fixing cover [A]. (Booklet Finisher SR3240 only). When attaching Punch Unit PU3060, it is not necessary to attach this cover.

5. Pull out the saddle stitch unit [A] again, and remove the orange tape and shipping retainers (Booklet Finisher

## 2.Installation

SR3240 only).

6. Remove the accessories in the package (fixing screws, etc.).
7. Attach the shift tray $[\mathrm{A}](\times 1: 3 \times 8)$.

8. Attach the booklet tray [A] (Booklet Finisher SR3240 only).

9. Attach the entrance guide plate $[\mathrm{A}](\times 2: 3 \times 6)$.

10. Attach the ground plate $[\mathrm{A}](\times 2: 3 \times 6)$.

11. Attach the joint bracket $[A]$ to the machine $(\times 4)$.

Tighten the joint bracket [A] and bracket [B] of the bridge unit together.


## 2.Installation

## 분 $\square$

- Attach the screw so that the screw head is at the center of the mark.


12. Clean the right side of the upper cover with a cloth moistened with alcohol, and then attach the cushion to the finisher.

- Make sure that the cushion is aligned with the rear-lower edge [A] of the upper cover.


13. Connect the cable of the finisher to the connector of the Internal Multi-Fold Unit. (Only when the Internal Multi-Fold Unit is installed.)

14. Remove the screw on the connection lever $[\mathrm{A}]$ and pull the lever.

15. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit.

16. Connect the interface cable [A] to the machine. (Only when the Bridge Unit is installed.)


- 


## 2.Installation

17. Set the staple cartridge [A].

18. Attach the tray holder ( -x 2 ).

19. Close the front cover.
20. Turn ON the main power.
21. Deliver some $\mathrm{A} 3 / \mathrm{DLT}$ paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper. (Finisher Registration Adjustment)
22. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

## Adjustment after Installing the Finisher

After installing a finisher, make sure that the side-to-side registration of the finisher matches that of the main machine.

How to Check and Adjust the Side-to-Side Registration
Check the side-to-side registration by exiting to the proof tray. Print out an A3 or DLT sheet to the proof tray.
Using the markings on the front-most exit roller, check to see where the paper edge is located when the paper is fed out. For purposes of accuracy, print out about 5 sets. If side-to-side registration shift occurs, see the Troubleshooting section and make adjustments (Other Problems).

[A]: Scale marks for DLT
[B]: Scale marks for A3
[C]: 7 scale marks at 2 mm intervals
[D]: Center mark

## H푼

- Each marking represents 2 mm .
- If the paper edge is lined up with the center marking, this means the paper is aligned correctly.
- If the paper edge is lined up with any marking to the right of center, this means the paper is shifted toward the front.
- If the paper edge is lined up with any marking to the left of center, this means the paper is shifted toward the rear.


## Attaching a Support Tray

Explain the following information to the users.
The sensor may detect that the exit tray is full prematurely when delivering z-folded sheets or curled paper to the tray.

If a message reporting a full paper exit tray appears, the job is suspended until the paper is removed from the paper exit tray. By attaching a support tray, you can prevent the premature full detection.

Three types of support tray are supplied with this finisher. Make sure that you understand the purpose of each support tray before installing one of them.

## 2.Installation



## Support Tray: Proof Tray ("1" marked on the back)

When using B4, LG or larger paper, or when using limp paper, the sheet may become bent, resulting in premature full detection.


This can be solved by attaching the proof support tray [B] on the proof tray [A].


Problem that may occur after attaching this support tray:
When printing A4, LT or smaller paper with the support tray, the machine stacks only 200 sheets, which is less
than the standard specification of 250 sheets.
When printing B4, LG or larger paper with the support tray, the machine stacks 50 sheets, which is the same as the standard specification.

## Support Tray: Proof Tray ("2" marked on the back) provided with the Internal Multi-Fold Unit FD3000

By attaching Support Tray: Proof [A], more sheets can be stacked when delivering z-folded sheets to the proof tray, preventing premature full detection.


## Support Tray: Shift Tray ("3" marked on the back) provided with the Internal Multi-Fold Unit FD3000

By attaching Support Tray: Shift [A], more sheets can be stacked when delivering z-folded sheets to the shift tray, preventing premature full detection.

The sensor is located at the paper exit. During the installation, be careful not to remove the feeler.


## 2.Installation

## Punch Unit PU3060 (D706)

- This Punch Unit is for the Booklet Finisher SR3240 (D3BB)/Finisher SR3230 (D3BA)


## Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | Punch Unit | 1 |  |
| $\mathbf{2}$ | Registration Guide Plate | 1 |  |
| $\mathbf{3}$ | Punch Waste Paper Guide | 1 |  |
| $\mathbf{4}$ | Hopper | 1 |  |
| $\mathbf{5}$ | Hopper Bracket | 1 |  |
| $\mathbf{6}$ | Harness | 1 |  |
| $\mathbf{7}$ | Tapping Screw- M3×6 | 15 |  |
| $\mathbf{8}$ | Clip Ring | 1 |  |
| $\mathbf{9}$ | Side-to-side Detection Unit | 1 |  |
| $\mathbf{1 0}$ | Punch Unit Movement Motor Unit | 1 |  |
| $\mathbf{1 1}$ | Punch Unit Stay | 1 |  |
| $\mathbf{1 2}$ | Cover | 1 |  |



## Installation Procedure

## MTPMOT

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the rear upper cover [A]. $(=2)$

2. Remove the rear lower cover [A]. $(-\times 2)$

3. For booklet finisher SR3240, remove the cover [A] of the booklet finisher unit.

4. Remove the inner cover $[\mathrm{A}] .(\times 3$, $\times 1$ )


- There is a connector on the back of the inner cover.


## 2.Installation


5. Remove the punch guide plate $[\mathrm{A}]$.

6. Attach the punch unit stay [A]. $(\times 4)$


## [A]: Rear, [B]: Front


7. Attach the punch waste paper guide $[\mathrm{A}] .\left(\begin{array}{l} \\ \times 1)\end{array}\right.$


- After inserting the front tab of the punch waste paper guide into the frame [B] of the finisher, insert the rear tab into the frame [C].


8. Attach the hopper bracket $[\mathrm{A}]$, inserting it from the outside frame of the finisher. ( $\times 2,2$ hooks)


## 2.Installation



- Hook the upper frame of the hopper bracket onto the outside frame of the finisher.


9. Fix the harness of the hopper sensor. $\left(\begin{array}{l} \\ \times 1)\end{array}\right.$

10. Attach the registration guide plate $[\mathrm{A}] .(\times 2)$

[A]: Rear, [B]: Front

11. Attach the side-to-side detection unit [A]. $(\times 2)$


## 2.Installation



## 5

- Insert the front pins of the side-to-side detection unit into the holes in the frame.


12. Attach the punch unit $[A]$. $(\times 2)$


- After inserting the pins [B] of the punch unit stay into the front and rear holes in the punch unit, fix the punch unit with two screws.

- Rear

- Front



## 2.Installation

13. Attach the punch unit movement motor unit [A]. ( $-\times 2$ )


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- Engage the gear $[B]$ of the punch unit movement motor unit with the rack $[C]$ of the punch unit.


14. Connect the harness of the hopper sensor to the connector of the finisher. $(\square \times 1)$

15. Connect the harness of the punch unit to the connector of the registration drive unit. ( $\times 1$ )

16. Connect the harness of the punch unit to the main board, and then clamp it. ( $1 \times 2$, $\times 2$ )

17. Connect the harness $[\mathrm{B}]$ of the punch unit movement motor unit and the harness $[\mathrm{C}]$ of the side-to-side detection unit to the punch unit board $[\mathrm{A}]$.


## 2.Installation

18. Attach the supplied cover [A] to the punch unit board.

19. Fix all the harnesses of the punch unit PU3060. $(-\times 8)$

20. Attach the hopper [A].

21. Attach the rear upper cover, the rear lower cover, the inner cover, and the punch guide plate.

## Booklet Finisher SR3220 (D3B9)

- To attach this optional unit, the following optional units are required.
- Bridge Unit BU3070 (D685) or Internal Multi-Fold Unit FD3000 (D3E4)
- LCIT PB3170/PB3230 (D695) or Paper Feed Unit PB3150 (D694)

Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Shift Tray | 1 |  |
| 2 | Booklet Tray | 1 |  |
| 3 | Joint Bracket | 1 |  |
| 4 | Entrance Guide Plate | 1 |  |
| 5 | Cushion | 1 |  |
| 6 | Tapping screws - M3 <br> $\times 6$ | 4 |  |
| 7 | Tapping screw - M4 $\times$ <br> 8 | 1 |  |
| 8 | Screws - M4 $\times 12$ | 4 |  |
| 9 | Ground Plate | 1 |  |
| 10 | Proof Support Tray | 1 |  |
| 11 | Stabilizer | 1 | This part must be attached to the finisher just after it is taken out of the <br> shipping box. |



## Installation Procedure

## MLPRTMit

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.

## 

- Before installing this option, attach the "Bridge Unit BU3070 (D685)" or "Internal Multi-Fold Unit FD3000 (D3E4)"first.
- Attach the "LCIT PB3170/ PB3230 (D695)" or "Paper Feed Unit PB3210/PB3220 (D787)" first before installing this option.
- This finisher is light and has a high center of gravity, so it easily topples when installing or moving it. Therefore, it is equipped with the stabilizer [A] attached to it when shipped.

- When you lift the finisher at the time of unpacking, do not hold the part [A]. Doing so may damage the frame.


1. After unpacking, immediately attach the stabilizer $[\mathrm{B}]$ to prevent toppling.

Attach it along the guide rail [A] and push it in all the way, until it clicks.

2. Remove the external orange tape and shipping retainers.

3. Open the front cover, and then remove the filament tape and packing materials.
4. Remove the fixing bracket [A].


## 2.Installation

5. Pull out the saddle stitch unit [A], and remove the filament tape and packing materials.

6. Remove the accessories in the package (fixing screws, etc.).
7. Attach the shift tray [A] ( $\quad \mathrm{x} 1$; M4 x 8).

8. Attach the booklet tray [A].

9. Attach the entrance guide plate $[\mathrm{A}] .(\mathrm{M} 3 \times 6)$

10. Clean the right side of the upper cover with a cloth moistened with alcohol, and then attach the cushion to the finisher.

- Make sure that the cushion is aligned with the left-upper edge [A] of the upper cover.


If the internal multi-fold unit is installed on the main machine, the cushion is too long. So cut off a section of the cushion at the notch in the cushion, so that the cushion does not interfere with the I/F connector [A] of the finisher.


## 2.Installation

11. Attach the ground plate $[\mathrm{A}]$ (M3x6).

12. Attach the joint bracket $[A]$ to the machine $(4 x 12)$.

Tighten the joint bracket [A] and bracket [B] of the bridge unit together.


If the machine is equipped with the internal multi-fold unit, attach the joint bracket [A] only.





- Attach the screw so that the screw head is at the center of the mark.


13. If the internal multi-fold unit is installed, connect the finisher cable to the connector on the internal multi-fold

## 2.Installation

unit.

14. Remove the screw on the connection lever [A] and pull the lever.

15. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit. ( $\left.\boldsymbol{H}^{\mathrm{x}} \mathrm{F}\right)$


When the Internal Multi-Fold Unit is installed, check that the two cables of the finisher do not cross each other, before connecting the finisher.

16. Connect the interface cable [A] to the machine (only when the bridge unit is installed).

17. Close the front cover.
18. Turn ON the main power.
19. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper. (Finisher Registration Adjustment)
20. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

## Adjustment after Installing the Finisher

After installing a finisher, make sure that the side-to-side registration of the finisher matches that of the main machine.

How to Check and Adjust the Side-to-Side Registration
Check the side-to-side registration by exiting to the proof tray. Print out an A3 sheet to the proof tray. Using the markings on the front-most exit roller, check to see where the paper edge is located when the paper is fed out. For purposes of accuracy, print out about 5 sets. If side-to-side registration shift occurs, see the Troubleshooting section and make adjustments (Other Problems).

[A]: Scale marks for DLT
[B]: Scale marks for A3
[C]: 7 scale marks in 2 mm intervals
[D]: Center mark

## $1 \square$

- Each marking represents 2 mm .
- If the paper edge is lined up with the center marking, this means the paper is aligned correctly.
- If the paper edge is lined up with any marking to the right of center, this means the paper is shifted toward the front.
- If the paper edge is lined up with any marking to the left of center, this means the paper is shifted toward the rear.

Attaching the Proof Support Tray
Explain the following information to the users.
The sensor may detect that the exit tray is full prematurely when delivering z-folded sheets or curled paper to the tray.
If a message reporting a full paper exit tray appears, the job is suspended until the paper is removed from the paper exit tray. By attaching a support tray, you can prevent the premature full detection.


## Proof Support Tray ("1" marked on the back), provided with this finisher

When using B4, LG or larger paper, or when using limp paper, the sheet may become bent, resulting in premature full detection.


This can be solved by attaching the proof support tray $[\mathrm{B}]$ on the proof tray $[\mathrm{A}]$.


Problem that may occur after attaching this support tray:
When printing A4, LT or smaller paper with the support tray, the machine stacks only 200 sheets, which is less than the standard specification of 250 sheets.
When printing B4, LG or larger paper with the support tray, the machine stacks 50 sheets, which is the same as the standard specification.

## 2.Installation

## Finisher SR3210 (D3B8)

- To attach this optional unit, the following optional units are required.
- Bridge Unit BU3070 (D685) or Internal Multi-Fold Unit FD3000 (D3E4)
- LCIT PB3170/PB3230 (D695) or Paper Feed Unit PB3150 (D694)

Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Joint Bracket | 1 |  |
| 2 | Cushion | 1 |  |
| 3 | Entrance Guide Plate | 1 |  |
| 4 | Shift Tray | 1 |  |
| 5 | Ground Plate | 1 |  |
| 6 | Stabilizer | 1 | This part must be attached to the finisher just after it is taken out <br> of the shipping box. |
| 7 | Screws - M4 $\times 12$ | 4 |  |
| 8 | Tapping Screws - M3 $\times 6$ | 4 |  |
| 9 | Tapping Screw - M4 $\times 8$ | 1 |  |
| 10 | Proof Support Tray | 1 |  |
| - | Installation Instructions for | 1 |  |
|  | Stabilizer |  |  |



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.

- Before installing this option, attach the "Bridge Unit BU3070 (D685)" or "Internal Multi-Fold Unit FD3000 (D3E4)"first.
- Attach the "LCIT PB3170/ PB3230 (D695)" or "Paper Feed Unit PB3210/PB3220 (D787)" first before installing this option.
- This finisher is light and has a high center of gravity, so it easily topples when installing or moving it. Therefore, it is equipped with the stabilizer [A] attached to it when shipped.

- When you lift the finisher at the time of unpacking, do not hold the part [A]. Doing so may damage the frame.


1. After unpacking, immediately attach the stabilizer [B] to prevent toppling.

Push it in thoroughly along the guide [A] until it clicks.


## 2.Installation

2. Remove the external orange tape and shipping retainers.

3. Open the front cover, and then remove the orange tapes and shipping retainers.

4. Remove the accessories in the package (fixing screws, etc.).
5. Remove the fixing brackets of the stapleless stapler unit. ( $-\times 4$ )

Remove the fixing brackets in the order of [A], [B], and [C].


The fixing brackets are hooked to the metal plate, so slightly lift it and then remove it.


Be careful not to touch the encoder [D] at the back of the motor.


Be careful so that the fixing brackets do not come into contact with the feedout pawl HP sensor.


If they come into contact, check that the feeler [B] is positioned correctly.


## 2.Installation

6. Attach the shift tray [A] ( x 1 ; M4 x 8).

7. Attach the entrance guide plate [A]. (M3 x 6)

8. Clean the right side of the upper cover with a cloth moistened with alcohol, and then attach the cushion to the finisher.

- Make sure that the cushion is aligned with the left-upper edge [A] of the upper cover.



## Fir

If the internal multi-fold unit is installed on the main machine, the cushion is too long. So cut off a section of the cushion at the notch in the cushion, so that the cushion does not interfere with the I/F connector [A] of the finisher.

9. Attach the ground plate $[\mathrm{A}](\mathrm{M} 3 \times 6)$.

10. Attach the joint bracket $[A]$ to the main machine (M4x12).

If the machine is equipped with the bridge unit, attach the joint bracket [A] together with the L type connecting bracket $[\mathrm{B}]$ of the bridge unit.


If the machine is equipped with the internal multi-fold unit, attach the joint bracket [A] only.


## FT-

- Attach the screw so that the screw head is at the center of the mark.


11. Connect the cable of the finisher to the connector of the Internal Multi-Fold Unit. (Only when the Internal

Multi-Fold Unit is installed.)

12. Remove the screw on the connection lever [A] and pull the lever.

13. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit.


When the Internal Multi-Fold Unit is installed, check that the two cables of the finisher do not cross each other, before connecting the finisher (for interference prevention).

## 2.Installation


14. Connect the interface cable [A] to the machine. (Only when the Bridge Unit is installed.)

15. Close the front cover.
16. Turn ON the main power.
17. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper. (Finisher Registration Adjustment)
18. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

## Adjustment after Installing the Finisher

After installing a finisher, make sure that the side-to-side registration of the finisher matches that of the main machine.

How to Check and Adjust the Side-to-Side Registration
Check the side-to-side registration by exiting to the proof tray. Print out an A3 sheet to the proof tray. Using the markings on the front-most exit roller, check to see where the paper edge is located when the paper is fed out. For purposes of accuracy, print out about 5 sets. If side-to-side registration shift occurs, see the Troubleshooting section and make adjustments (Other Problems).

[A]: Scale marks for DLT
[B]: Scale marks for A3
[C]: 7 scale marks in 2 mm intervals
[D]: Center mark

## $1 \square$

- Each marking represents 2 mm .
- If the paper edge is lined up with the center marking, this means the paper is aligned correctly.
- If the paper edge is lined up with any marking to the right of center, this means the paper is shifted toward the front.
- If the paper edge is lined up with any marking to the left of center, this means the paper is shifted toward the rear.


## Attaching the Proof Support Tray

Explain the following information to the users.
The sensor may detect that the exit tray is full prematurely when delivering z-folded sheets or curled paper to the tray.
If a message reporting a full paper exit tray appears, the job is suspended until the paper is removed from the paper exit tray. By attaching a support tray, you can prevent the premature full detection.


Proof Support Tray ("1" marked on the back), provided with this finisher
When using B4, LG or larger paper, or when using limp paper, the sheet may become bent, resulting in premature full detection.

This can be solved by attaching the proof support tray [B] on the proof tray [A].


Problem that may occur after attaching this support tray:
When printing A4, LT or smaller paper with the support tray, the machine stacks only 200 sheets, which is less than the standard specification of 250 sheets.
When printing B4, LG or larger paper with the support tray, the machine stacks 50 sheets, which is the same as the standard specification.

## Stapleless Stapler Initial Settings

## Firn

- To adjust the strength of the crimp between sheets of stapled paper, there is a setting to select either single or double stapling.
- The crimp is weakened when there is an image (toner) at the point which is to be stapled. There also is a setting to mask the image on the point for stapling, in order to prevent the crimp from being weakened.
- Depending on users demands, explain the settings/methods of the settings by checking the following instructions.

How to change the setting of Staple Method for the Stapleless Stapler
Use this procedure to select the type of stapling that is done by the stapleless stapler.
Note that if you change the finisher type from Internal Finisher SR3180 to Finisher SR3210, which has the same type of stapleless staple unit, the current setting in [Stapling Method for Stapleless Stapler] is not carried over, so configure the setting again.

1. Press the [User Tools] icon on Home screen.
2. Press [Machine Features $]>[$ System Setting $]>[$ General Setting $]>[$ Stapling Method for Stapleless Stapler $]$.
3. Select [Double] or [Single].


How to set Margin Erase for the Stapleless Stapler

1. Press the [User Tools] icon.
2. Press [Machine Features] $>$ [System Setting] $>$ [General Setting].
3. Press [Erase Margin for Stapleless Stapler].


## 2.Installation

## Punch Unit PU3050

- This Punch Unit is for the Booklet Finisher SR3220 (D3B9)/Finisher SR3210 (D3B8).


## Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Punch unit | 1 |  |
| 2 | Cover | 1 |  |
| 3 | Stay | 1 |  |
| 4 | Hopper | 1 |  |
| 5 | Side-to-side detection unit | 1 |  |
| 6 | Punch unit movement motor unit | 1 |  |
| 7 | Hopper guide plate | 1 |  |
| 8 | Guide plate | 1 |  |
| 9 | Tapping screws $-\mathrm{M} 3 \times 6$ | 16 |  |
| 10 | Harness (Short) | 1 | Used for SR3220 |
| 11 | Harness (Long) | 1 | Used for SR3210 |



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Take out of the box, and remove the orange tape and shipping retainers.
2. Pull out the finisher interface cable, and move it away from the machine.
3. Remove the finisher rear cover $[\mathrm{A}](\times 3)$.

4. Open the top cover, and then remove the arm [A] $(\times 1)$.

5. Open the finisher front cover, and remove the three knobs ( $\boldsymbol{H}_{-1 \mathrm{x} 1) \text {. }}^{\text {5 }}$


- Knobs with a lock mechanism are removed using a knob screwdriver or similar while releasing the lock.



## 2.Installation

6. Pull the saddle stitch unit $[\mathrm{A}]$ or stapling unit.

7. Remove the finisher inner cover $[\mathrm{A}](\underset{ }{ } \times 3)$.


1

- Remove the connector at the back of the inner cover.


8. Cut off part of the finisher inner cover [A].

9. Remove the supporting plate $[\mathrm{A}](\times 3)$.


## 2.Installation

10. Remove the guide plate $[\mathrm{A}]\left({ }^{-} \times 4\right)$.

11. Insert and attach the hopper guide plate [A] from the front ( $\times 4$ ).

At this time, pass the harness [B] through the clamp [C].

12. Attach the stay $[\mathrm{A}](-\times 3)$.


Front [B]: Insert the holes in the stay over the embossed parts on the finisher.
Rear [C]: Place the shaft of the stay through the notch in the finisher.

13. Insert and attach the guide plate $[\mathrm{A}]$ from the rear $(-\times 2)$.

14. Insert and attach the side-to-side detection unit $[\mathrm{A}]$ from the rear $\left({ }^{(1 \times 2}\right)$.

Front: The two shafts of the unit are passed through bearings in the finisher.

## 2.Installation


15. Connect the harness [A] of the hopper guide plate to the relay connector [B] of the side-to-side detection unit, and then clamp the harness.

16. Insert and attach the punch unit $[\mathrm{A}]$ from the rear.

17. Attach the punch unit movement motor unit [A] so that the gear [B] meshes firmly $(\times 2)$.

18. Insert the hopper [A].

19. Connect the provided harness to the punch unit board $[A]$ and the control board $[B]$ of the finisher $(\times 6)$.

## 2.Installation

Use Harness (short) for SR3220 and Harness (long) for SR3210.

20. Remove the harness [A] from the clamp [B], and connect it to the punch unit board [C] ( $\times 1$ ).

21. Connect the harness $[\mathrm{A}]$ of the side-to-side detection unit to the relay connector $[\mathrm{B}]$ of the harness $(\mathrm{F})$.

22. Connect the harness $[\mathrm{A}]$ of the punch unit movement motor unit to the punch unit board $[\mathrm{B}](\mathrm{P})$.

23. Attach the supplied cover $[\mathrm{A}]$ to the punch unit board.

24. Clamp the harnesses.

For SR3220

## 2.Installation



For SR3210

25. Reattach the finisher rear cover.
26. Reattach the finisher inner cover and three knobs.
27. Close the front cover.
28. Close the top cover.
29. Reconnect the finisher to the machine, and connect the interface cable.
30. Turn ON the main power.
31. Check that the punch can be selected at the operation panel, and check the operation.

## Internal Finisher SR3180 (D766)

Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Bottom Plate | 1 |  |
| 2 | Left Lower Cover | 1 |  |
| 3 | Paper Exit Tray | 1 |  |
| 4 | Tapping Screw: $3 x 8$ | 2 |  |
| 5 | Tapping Screw: $3 \times 8$ | 2 |  |
| 6 | Tapping Screw: $3 \times 8$ | 2 |  |
| 7 | Screw: M3x6 | 3 |  |
| 8 | Tapping Screw: $3 \times 6$ | 1 |  |
| 9 | Tapping Screw: $4 x 8$ | 1 |  |
| 10 | Slide Rail | 1 |  |
| 11 | Nylon Clamp | 1 |  |
| 12 | Paper Support Guide | 1 |  |
| 13 | Driven Roller (Flat) | 1 |  |
| - | SHEET:NOTE_OPTIONAL_UNIT:EXP | 1 |  |



## Installation Procedure

## Min月mit

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.


## $\square \square$

- This option cannot be used together with the following peripherals:
- Internal Shift Tray SH3070 (D691)
- Side Tray Type M3 (D725)
- Internal Finisher SR 3130 (D690)
- Bridge Unit BU3070 (D685)
- Internal Multi-Fold Unit FD3000 (D3E4)
- For using this option together with "1 Bin Tray BN3110 (D3CQ)", attach the bottom plate of this option at the beginning, then install the "1 Bin Tray BN3110 (D3CQ)", followed by installing this option.

1. Remove the orange tape and shipping retainers.

2. Remove the knob screw and red tag $[\mathrm{A}](\mathrm{x} 1)$.

3. Remove the shaft $[B]$ from the slide rail [A] ( x 1$)$.

4. Remove the paper exit cover $[\mathrm{A}](\mathrm{x} 2)$.

5. Place the slide rail $[\mathrm{A}]$ under the internal finisher $[\mathrm{B}]$.

6. Insert the shaft $[\mathrm{A}]$ into the holes in the slide rail and internal finisher, and then fasten with the screw ( x 1).


## 2.Installation

7. Attach the paper exit cover (removed in step 4) [A] ( x 2).

8. Remove the paper exit tray [A].

9. Remove the paper exit feeler [A].

10. Tuck in the lever [A] for detecting when the tray is full.

11. Open the front cover, and then remove the left upper cover $[A]$ ( x 1 ).

12. Release the hooks [A], and remove the left rear cover [B].

13. Remove the inverter tray [A] and tray support plate $[B]$ ( x 1$)$.


## 2.Installation

14. Open the right cover, and then remove the upper front cover [A].


## FHir

- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


15. Remove the paper exit cover [A] ( x 1 ).

16. Remove the connector cover [A].

17. Remove the paper exit lower cover [A].

F

- The lower inside cover can be removed together with the paper exit lower cover, because the inside cover is secured to the paper exit lower cover with three screws.


18. Remove the lower inside cover $[B]$ from the paper exit lower cover $[A]$ ( x 2 ).


## 2.Installation

19. Remove the fixing screws on the upper inside cover [A].

20. Remove the upper inside cover [A].

21. Insert the bottom plate [A] into the holes.

22. Install the bottom plate $[\mathrm{A}](\mathrm{x} 3$, Accessory No. 7).

23. Install the lower inside cover (removed in step 18) [A] in the finisher ( x 2 , Accessory No.5).

24. Reattach the upper inside cover (removed in step 20) [A] (Hx 2).

25. Reattach the paper exit cover [A] and the connector cover [B] (removed in step 15 and step 16 ).


- Touching the moving parts inside of the cover can result in an injury. To avoid this, be sure to install the connector cover [B].


## 2.Installation


26. Reattach the tray support plate (removed in step 13) [A] ( -

27. Reattach the covers (removed in step 14 and step 15), and close the right door.
28. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- Insert a flathead screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.
- When attaching the driven roller, push its center all the way in until it clicks.


[A]: The supplied driven roller has flat rollers.
[B]: The machine's standard driven roller has drum-type rollers (as indicated by the red frames).

29. Attach the paper support guide $[A](T a b x 4)$

30. Install the internal finisher [A].

31. Secure the finisher ( ${ }^{-1} \times 1$, Accessory No.8).


## 2.Installation

32. Attach the left upper cover [A] and the left rear cover [B] (removed in step 11 and step 12).

33. Attach the left lower cover [A] ( x 2 , Accessory No.6).

34. Attach the paper exit tray ( $\quad$ x 2, Accessory No.4).


14
35. Reattach the inverter tray [A] removed in step 13.

36. Connect the interface cable $[\mathrm{A}]$.

37. Attach the nylon clamp [A] as shown below (Accessory No.9).

38. Turn ON the main power.
39. Ensure that the operation panel displays finisher jobs properly and that it works properly.

Stapleless Stapler Initial Settings

## F1

- To adjust the strength of the crimp between sheets of stapled paper, there is a setting to select either single or double stapling.
- The crimp is weakened when there is an image (toner) at the point which is to be stapled. There also is a setting to mask the image on the point for stapling, in order to prevent the crimp from being weakened.
- Depending on users demands, explain the settings/methods of the settings by checking the following


## 2.Installation

instructions.

How to change the setting of Staple Method for the Stapleless Stapler
Use this procedure to select the type of stapling that is done by the stapleless stapler.
Note that if you change the finisher type from Finisher SR3210 to Internal Finisher SR3180, which has the same type of stapleless staple unit, the current setting in [Stapling Method for Stapleless Stapler] is not carried over, so configure the setting again.

1. Press the [User Tools] icon on Home screen.
2. Press [Machine Features $]>[$ System Setting $]>[$ General Setting $]>[$ Stapling Method for Stapleless Stapler $]$.
3. Select [Double] or [Single].


How to set Margin Erase for the Stapleless Stapler

1. Press the [User Tools] icon.
2. Press [Machine Features] $>$ [System Setting] $>$ [General Setting].
3. Press [Erase Margin for Stapleless Stapler].


## Internal Finisher SR3130 (D690)

Accessory Check

| No. | Description | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | Staple Cartridge | 1 | Remarks |
| 2 | Front Right Cover | 1 |  |
| 3 | Stabilizer | 2 |  |
| 4 | Bottom Plate | 1 |  |
| 5 | Left Lower Cover | 1 |  |
| 6 | Entrance Guide Plate | 1 | Not used when the punch unit is attached. |
| 7 | Paper Support Guide | 1 |  |
| 8 | Driven Roller (Flat) | 1 |  |
| - | Screw - M3 $\times 6$ | 6 |  |
| - | Tapping Screw - M4 x 6 | 1 |  |
| - | Decal - EMC Address | 1 |  |
| - | SHEET:NOTE_OPTIONAL_UNIT:EXP | 1 |  |



Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.


## Firn

- This option cannot be used together with the following peripherals:
- Internal Shift Tray SH3070 (D691)
- Side Tray Type M3 (D725)
- Internal Finisher SR 3180 (D766)
- Bridge Unit BU3070 (D685)
- Internal Multi-Fold Unit FD3000 (D3E4)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", after attaching the bottom plate of this option,


## 2.Installation

attach the "1 Bin Tray BN3110 (D3CQ)", and then install this option.

- To use together with the "Punch Unit PU3040 (D716)", first attach the "Punch Unit PU3040 (D716)" before installing this option.

1. Remove the orange tape and shipping retainers.

2. Remove the package accessories (fixing screws, etc.).
3. Remove the paper exit tray [A].

4. Remove the paper exit feeler [A].

5. Tuck in the lever [A] for detecting when the tray is full.

6. Open the front cover, and then remove the upper left cover $[\mathrm{A}](\times 1)$.

7. Release the hooks [A], and remove the left rear cover [B].


## 2.Installation

8. Remove the inverter tray [A], and the tray support plate $[\mathrm{B}](\times 1)$.

9. Open the right cover, and then remove the upper front cover [A].


- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


10. Remove the paper exit cover [A] $(\times 1)$.

11. Remove the connector cover [A].

12. Remove the paper exit lower cover [A].


## 2.Installation

13. Remove the fixing screws on the upper rear inner cover [A].

14. Remove the upper rear inner cover [A].

15. Install a screw removed in step $12(\times 1)$.

16. While pressing the bottom plate $[A]$ into the area shown by the blue circle $[B]$, insert it into the slot shown by
the blue circles [C] and [D].


- The following procedure is the easiest way to set this component.
- 1) Slip the bottom plate [A] into the position in the blue circle [B].
- 2) Insert the bottom plate [A] into the hole in the blue circle [C].
- 3) When the bottom plate [A] is picked up (see below), it can be inserted into the hole in the blue circle [D].



## 2.Installation

17. Attach the bottom plate $[\mathrm{A}](\times 3)$

18. Attach the upper rear inner cover.
19. Attach the paper exit cover.
20. Reattach the connector cover and the covers (removed in step 9 and step 10), and then close the right door.
21. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- Insert a flathead screwdriver into the depression in the center, and then, lifting the driven roller, unlock the part indicated by the red arrow.
- When attaching the driven roller, push its center all the way in until it clicks.

[A]: The supplied driven roller has flat rollers.
[B]: The machine's standard driven roller has drum-type rollers (as indicated by the red frames).

22. Attach the paper support guide $[A](T a b x 4)$.


## H1:

- Up to this point, the procedure is the same as punch unit installation (for fitting the punch unit, refer to Step 3 and later of the punch unit installation procedure).

23. Slide the finisher front right cover $[\mathrm{A}]$ from left to right to attach it $(\mathbb{} \times 1)$.

24. Reattach the inverter tray.
25. Attach the entrance guide plate $[\mathrm{B}]$ to the finisher $[\mathrm{A}](\times 2)$.

26. Slide the finisher $[\mathrm{A}]$ along the rail of the bottom plate from the left-hand side of the machine to attach it (

## 2.Installation

$\times 1$ ).


- Hold the front side [A] of the internal finisher as shown below to check if the internal finisher is correctly set in the rail of the bottom plate.


27. Reattach the left rear cover.
28. Insert the upper left cover [A] from the front, and slide it to reattach it ( $\times 1$ ).

29. Attach the stabilizers [A].


- Because the weight is biased to the left of the machine if the internal finisher is installed, stabilizers are required on the left side. Because they are included with the finisher, install these stabilizers at the same time as you install the internal finisher.


30. Connect the interface cable [A] to the machine.

31. Move the stapler unit forward, then set the staple cartridge $[\mathrm{A}]$.

32. Reinstall the stapler unit, and then turn ON the main power.

## 2.Installation

33. Check that the finisher can be selected at the operation panel, and check the finisher operation. Also when the punch unit is installed, check the punching operation.

## Punch Unit PU3040 (D716)

Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | Hopper | 1 |
| 2 | Punch Unit Cover | 1 |
| 3 | Lower Front Cover | 1 |
| 4 | Lower Rear Cover | 1 |
| 5 | Holder | 1 |
| - | Knob Screw - M4 | 1 |
| - | Tapping screws: M3x6 | 3 |
| - | Decal - EMC Address | 1 |



## Installation Procedure

## 

- When installing this option, turn the power to the machine off, and unplug the power plug from the wall socket.
- If this option is installed when the power is on, it will result in an electric shock or a malfunction.


## [y]

- When installing this option together with the "Internal Finisher SR3130", attach this option first before installing the "Internal Finisher SR3130"

1. Take out from the box, and remove the filament tape and packing material.
2. Perform steps 1 to 22 of the installation procedure for the "Internal finisher SR3130".

## 2.Installation

3. Change the position of the bracket $[\mathrm{A}]$ on the bottom plate $(\times 1)$.

4. Replace the lock holder of the bottom plate with the lock holder $[\mathrm{A}]$ provided $(\mathbb{L} \times 1)$.

5. Attach the upper front cover.
6. Pass the shafts $[B]$ of the punch unit $[A]$ through the bearings $[C]$ in the bottom plate, and attach the punch
unit to the machine $(\times 1$, knob screw).


## 2.Installation

7. Attach the front right cover [A] provided with the punch unit, inserting the claws $(\times 1)$.

8. Insert the hopper [A].

9. Slide the finisher [A] along the rail of the bottom plate from the left of the machine, and then attach it ( $\times 1$ ).


- Before fastening the screw, make sure that the finisher is correctly set in the rail of the bottom plate.

- When installing the punch unit in a finisher which is already installed, remove the entrance guide plate $[\mathrm{A}](\times 2)$. Note that this step is unnecessary when installing the finisher and punch unit at the same time.


10. Attach the lower rear cover $[A]$ and the lower front cover $[B]$ to the finisher $\left({ }^{-1} \times 2\right)$.

11. Attach the left rear cover to the machine.

## 2.Installation

12. Insert the upper left cover [A] from the front, and then attach it ( $\mathrm{H}_{\mathrm{F}}^{\mathrm{x} 1) \text {. }}$

13. Connect the interface cable [A] to the machine.

14. Turn the main power switch on.
15. Check that the finisher can be selected at the operation panel, and check the finisher and punch operation.

## Key Counter Bracket Type M3

Accessory Check

| Description | Q'ty |
| :--- | :--- |
| Screw: M3X8 | 1 |
| Binding Self-Tapping Screw: M4X8 | 3 |
| Clamp:LWS-1211Z | 2 |
| Clamp:NK-3N | 1 |
| Double Sided Tape | 2 |
| Key Counter Plate Nut | 2 |
| Key Counter Harness | 1 |

Installation Procedure

1. Hold the key counter plate nuts [A] on the inside of the key counter bracket [B], and insert the key counter holder [C].
2. Secure the key counter holder to the bracket ( x 2 ).
3. Install the key counter cover [D] (W2).

4. Attach the harness that comes from the key counter to the right side of the main machine with the two clamps provided with the accessories (CLAMP:LWS-1211Z).

## 2.Installation

5. Remove the rear cover [A].

6. Remove the rear lower gap cover [A].

7. Remove the rear lower cover [A].

8. Remove the controller box cover [A].

Red Circle: Remove / Blue Circle: Loosen

9. Connect the key counter harness to CN133 [A] of the BCU. ( $\times 1$ )

10. Secure the harness to the inside of the main frame with a clamp.
11. Remove the cut off part [A] of the rear right cover.


## 2.Installation

12. Pass the harness from the key counter through the cut off part [A] of the right rear cover.

13. Reinstall all the covers on the main machine.
14. Peel off the double-sided tape on the key counter bracket, and attach the key counter to the scanner right cover.
15. Reassemble the machine.

## Optional Counter Interface Unit Type M12 (B870-21)



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the following exterior covers. (Exterior Covers)

- Rear cover
- Rear lower cover

2. Remove the controller box cover [A].

## 2.Installation

## Red Circle: Remove / Blue Circle: Loosen


3. Install the four stud stays [A] in the location as shown below.

4. Install the optional counter interface board [A] on the four stud stays.

5. Connect the supplied harness ( 13 pins) to CN3 [A] on the optional counter interface board and CN132 [B] on
the BCU .

6. Route the harness [A] and clamp it as shown below.

7. Re-install the exterior covers.

## NFC Card Reader Type M29 (D3E3-21)

Accessory Check

| No. | Description | Q'ty | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | Corner Cover | 1 |  |
| 2 | Reader Spacer | 1 |  |
| 3 | Reader Cover | 1 |  |
| 4 | Reader | 1 |  |
| 5 | Sponge Cushions | 2 |  |
| 6 | Interface Cable | 1 |  |
| 7 | Ferrite Core (Black) | 1 |  |



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Open the right cover, and then remove the upper front cover [A].


## Fill

- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


2. Remove the upper cover [A] of the upper front cover.

3. Attach the corner cover [A] provided with this option.

Use the screws removed in the previous step.

## 2.Installation


4. Remove the scanner front cover [A].

5. Remove the operation panel upper cover [A].

6. Remove the operation panel right cover [A].

7. Attach the ferrite core $[\mathrm{A}]$ to the cable as the picture below.

8. Connect the USB connector, which does not have the ferrite core, to the operation panel.

9. Hook the USB cable [B] in the notch [A].


## 2.Installation

10. Reattach the operation panel right cover [A].

11. Pass the USB cable [A] between the operation panel bracket [B] and the operation panel under cover [C].

12. Reattach the operation panel upper cover [A].

13. Pass the USB cable [A] through the hole in the upper front cover, and reattach the upper front cover [B].

14. Attach the reader spacer [A].

15. Connect the USB cable [A] to the reader, and attach the reader [B].

16. If the USB cable is sticking out, put the cable inside the upper front cover.


## 2.Installation

## -1

- The cable [A] should be placed in the lower area in the left side.


17. Attach the reader cover [A].

18. Reattach the removed covers.

## Smart Card Reader Built-in Unit Type M29

Accessory Check

| No. | Description | Q'ty | Remark |
| :--- | :--- | :--- | :--- |
| 1 | Corner cover | 1 |  |
| 2 | Reader spacer | 1 |  |
| 3 | Reader cover | 1 |  |
| 4 | Sponge: $20 \times 20$ | 2 |  |
| - | Decal | 1 |  |
| - | Label | 1 |  |

- An IC card reader and a USB cable are not provided with this option


Installation Procedure

## M阴苗

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Open the right cover, and then remove the upper front cover [A].


## 2.Installation

- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


2. Remove the upper cover [A] of the upper front cover.

3. Attach the corner cover [A] provided with this option.

Use the screws removed in the previous step.

4. Remove the scanner right cover $[\mathrm{A}]$.

5. Pass the USB cable [A] through the hole.


H1

- This cable is not included in this unit. The user may need to provide it.

6. Route the cable $[\mathrm{A}]$ to the back of the cover.


## 2.Installation

7. Attach the upper front cover [A].

8. Attach the spacer [A].

9. Attach the sponge [A].

10. Connect the cable to the IC reader [A] and attach the reader to the table.


F

- This IC reader is not included in this unit. The user may need to provide it.

11. Attach the reader cover [A].


## 1

- Do not sandwich the USB cable with this cover.
- Make sure that the reading area on the IC card reader is in contact with the IC card cover. If they do not contact each other, put the sponge(s) provided with the accessories underneath the IC card reader to fill the gap. Otherwise, the IC card reader will not work properly.

12. Route the cable [A] along the right side of the scanner unit as shown below.


## 2.Installation

13. Route the cable [A] along the rear side of the scanner unit.


- Route the cable [A] behind the FFC [B].


14. Remove the cutout [ A ] in the left rear cover to make a hole for the cable, and then pass the cable $[\mathrm{B}]$ through it.

15. Connect the keyboard cable [A] to the USB slot.

16. Reattach the removed covers.

## External Keyboard Bracket Type M19 (D3BR-10)

Component Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | CASE:KEYBOARD:OPTION | 1 |
| 2 | BRACKET:KEYBOARD:OPTION | 1 |
| 3 | BASE:KEYBOARD | 1 |
| 4 | SPONGE:20X20 | 2 |
| 5 | SPACER:IC CARD:DOM | 1 |
| 6 | COVER:UPPER:IC CARD | 1 |
| 7 | COVER:IC CARD | 1 |
| - | COVER:IC CARD:BLANK | 1 |
| - | TAPPING SCREW:4X14 | 2 |
| - | TAPPING SCREW:ROUND POINT:3X8 | 4 |
| - | TAPPING SCREW:3X14 | 1 |
| - | CLARE BINDER | 3 |
| - | PAN HEAD TAPPING SCREW:M5X13:PIAS | 1 |



- This optional unit is not supplied with a keyboard. Use a commercially available keyboard.


## Installation Procedure

## MTHFTH:

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Open the right cover.
2. Remove the upper front cover [A].


- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].


3. Thread holes in the positions [A] marked " 2 " on the back of the upper front cover, using the supplied tapping screw.

## 品

- Position the screw at the center part of the guide rib and thread each hole. After threading each hole, use a tool such as a screwdriver to enlarge the hole so that the fastening screw (M4) can go through it. (There are dents of 0.2 mm depth at the positions where you should thread the holes.)

- Be careful not to drop the shavings into the machine (do not leave shavings around the holes).
- Make the holes a bit larger, because you cannot fix the cover with the screws if the holes are not in the exact position with respect to the screw holes in the main machine (the rib can be a guide for the hole size).

4. Remove the screw [A] on the frame of the machine.

5. Reattach the upper front cover to the machine.

6. Attach the keyboard stand bracket [A] on the upper front cover.


- Use the screw holes marked "B". Use $4 \times 14$ screws for the blue circles and use a $3 \times 14$ screw for the red circle in the picture below.
- Fasten the screw [B] first.


7. Attach the keyboard stand [A] on the keyboard stand bracket.

Fasten the screw [B] first.

8. Attach the partition board $[B]$ so that it is below the hooks [A].

9. Place a keyboard on the keyboard stand, and then pass the keyboard cable through the hole in the keyboard stand.


- If the cable is too long, clamp with the supplied clamp.

10. Remove the rear cover [A].


## 2.Installation

11. Remove the scanner right cover $[\mathrm{A}]\left({ }^{-1} \times 1\right)$.

12. Route the keyboard cable [A] along the right side of the scanner unit as shown below.

13. Route the keyboard cable $[\mathrm{A}]$ along the rear side of the scanner unit.


- Route the cable [A] behind the FFC [B].


14. Remove the cutout [A] in the left rear cover to make a hole for the cable, and then pass the keyboard cable [B] through it.

15. Connect the keyboard cable [A] to the USB slot.

16. Reattach the scanner right cover and the rear cover.
17. Close the right door.

## Internal Options

List of Slots


| Slot |  | Option |
| :--- | :--- | :--- |
| $[A]$ | USB ports $^{*}{ }^{1}$ | External Keyboard Bracket Type M19 |
|  |  | Smart Card Reader Built-in Unit Type M29 |
| [\mathrm{B}]{} | I/F slot A | IEEE 1284 Interface Board Type M19 |
|  |  | IEEE 802.11a/g/n Interface Unit Type M19 |
|  |  | File Format Converter Type M19 |
|  |  | USB Device Server Option Type M19 |
|  |  | Extended USB Board Type M19 |

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

## IEEE 1284 Interface Board Type M19 (D3C0)

## Accessories

| No. | Description | Qty | Remarks |
| :--- | :--- | :--- | :---: |
| 1 | IEEE 1284 Interface Board | 1 |  |
| 2 | FCC document | 1 |  |
| 3 | Notes for users | 1 |  |



## Installation procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body. There is a possibility that the IEEE 1284 Interface Board may malfunction due to static electricity.

1. Remove the $\mathrm{I} / \mathrm{F}$ slot cover $[\mathrm{A}]$ ( x 2 ).

2. Install the IEEE 1284 Interface Board into the $\mathrm{I} / \mathrm{F}$ slot ( H 2 ).
3. Turn ON the main power.
4. Check that the system settings list is output, and that the board is recognized correctly.

- User Tools $>$ Machine Features $>$ Printer Features $>$ List/Test Page $>$ Configuration Page
- The customer should keep the slot covers which were removed.


## IEEE 802.11 $\mathbf{a} / \mathrm{g} / \mathrm{n}$ Interface Unit Type M19

This option is not available in China, Taiwan, and Korea.

## Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | IEEE802.11a/g/n Unit | 1 |
| 2 | Clamps | 8 |
| 3 | Velcro Fasteners | 2 |
| 4 | Notes for Users | 2 |



- Since disassembly/alteration of a wireless LAN board is illegal, during service replacements, replace the whole PCB assembly.
- Be sure to give the provided leaflet to the customer.

Installation procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body. There is a possibility that the extension wireless LAN board may malfunction due to static electricity.


## 

- When using wireless LAN (IEEE $802.11 \mathrm{~b} / \mathrm{g} / \mathrm{n}: 2.4-\mathrm{GHz}$ band), this radio product uses the $2.4-\mathrm{GHz}$ band.


## 2.Installation

Check that industrial, scientific and medical devices using the same frequency bands, such as a microwave oven or a cordless telephone, are not used nearby.

- If there is interference, communication may become unstable. Check that there are no devices likely to cause interference in the surrounding area.

Attaching the boards

1. Remove the slot cover [A].

2. Insert the extended wireless LAN board [A] into the slot.


## 1

- Press the extended wireless LAN board firmly in, and check it is firmly connected.
- The customer should keep the slot covers which were removed.

1. Attach the velcro fastener $[\mathrm{B}]$ (provided with the accessories) to the antenna $[\mathrm{A}]$.

2. Peel the backing paper off the velcro fastener, and attach the antenna to the rear cover and scanner left cover as shown ( x 4 ).


## H-

- Take care to loop it around so that it does not interfere with other options or I/F cables.

3. Turn ON the main power.
4. Check that the system settings list is output, and that the option is recognized correctly.

- User Tools $>$ Machine Features $>$ Printer Features $>$ List $/$ Test Page $>$ Configuration Page


## User Tool Settings for IEEE $802.11 \mathrm{a} / \mathrm{g} / \mathrm{n}$

Go into the User Tools mode and do the procedure below. These settings take effect every time the machine is powered on.


- IEEE $802.11 \mathrm{a} / \mathrm{g} / \mathrm{n}$ function is disabled while using Ethernet.

1. Press the "User Tools" icon.
2. Press "Machine Features" > "System Settings".

- $\quad$ Select "Interface Settings"> "Network" > "LAN Type". The "LAN Type" (default: Ethernet) must be set for either Ethernet or wireless LAN.

3. Select "Interface Settings"> "Wireless LAN". Only the wireless LAN options show.
4. Set the "Communication Mode".
5. Enter the "SSID setting". (The setting is case sensitive.)

## 2.Installation

6. Set the "Ad-hoc Channel". You need this setting when Ad Hoc Mode is selected. The allowed range for the channel settings may vary for different countries.

- For mainly Europe and Asia

2412-2462 MHz (1-11 channels)
$5180-5240 \mathrm{MHz}$ (36, 40, 44 and 48 channels)
(default: 11)
Firlall

- In some countries, only the following channels are available: 2412-2462 MHz (1-11 channels)
- For mainly North America

2412-2462 MHz (1-11 channels)
5180-5240 MHz (36, 40, 44 and 48 channels)
(default: 11)
7. Set the "Security Method" to specify the encryption of the Wireless LAN.

- The "WEP" (Wired Equivalent Privacy) setting is designed to protect wireless data transmission. The same WEP key is required on the receiving side in order to unlock encoded data. There are 64 bit and 128 bit WEP keys.
- Range of Allowed Settings:

64 bit: 10 characters
128 bit: 26 characters

- Specify "WPA2" when "Communication Mode" is set to "Infrastructure Mode". Set the "WPA2 Authent. Method".
- WPA2 Authent. Method:

Select either "WPA2-PSK" or "WPA2". If you select "WPA2-PSK", enter the pre-shared key (PSK) of 8-63 characters in ASCII code. When "WPA2" is selected, authentication settings and certificate installation settings are required.
8. Press "Wireless LAN Signal" to check the machine's radio wave status using the operation panel.

- Press "Restore Factory Defaults" to initialize the wireless LAN settings.

SP Mode Settings for IEEE 802.11 Wireless LAN
The following SP commands and UP modes can be set for IEEE 802.11

| SP No. | Name | Function |
| :--- | :--- | :--- |
| SP5-840- <br> 006 | Channel MAX | Sets the maximum range of the channel settings for the country. |
| SP5-840- <br> 007 | Channel MIN | Sets the minimum range of the channels settings allowed for your country. |
| SP5-840- <br> 008 | Transmission <br> Speed | Sets the transmission speed. <br> Auto, $54 \mathrm{Mbps}, 48 \mathrm{Mbps}, 36 \mathrm{Mbps}, 24 \mathrm{Mbps}, 18 \mathrm{Mbps}, 12 \mathrm{Mbps}, 9 \mathrm{Mbps}, 6$ <br> Mbps, $11 \mathrm{Mbps}, 5.5 \mathrm{Mbps}, 2 \mathrm{Mbps}, 1 \mathrm{Mbps}$ (default: Auto). |


| SP No. | Name | Function |
| :--- | :--- | :--- |
| SP5-840- <br> 011 | WEP Key Select | Used to select the WEP key (Default: 00). |
| UP mode | Name | Function |
|  | SSID | Used to confirm the current SSID setting. |
|  | WEP Key | Used to confirm the current WEP key setting. |
|  | WEP Mode | Used to show the maximum length of the string that can be used for the WEP <br> Key entry. |
|  | WPA2 Authent. <br> Method | Used to confirm the current WPA authentication setting and preshared key. |

## 2.Installation

File Format Converter Type M19 (D3BR-04)
Accessory Check

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1 | File Format Converter | 1 |
| 2 | Notes for Users | 1 |



## Installation procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body. There is a possibility that the board may malfunction due to static electricity.

1. Remove the I/F slot cover [A].

2. Insert the file format converter board into the I/F slot. ( $\quad \times 2$ )
3. Turn ON the main power.
4. Check the system settings list is output, and that the option is recognized correctly.

- User Tools $>$ Machine Features $>$ Printer Features $>$ List/Test Page $>$ Configuration Page

- The customer should keep the slot covers which were removed.


## Enhanced Security HDD Option Type M10 (D792-09)

Accessory Check

| No. | Description | Q'ty | Remarks |
| :---: | :--- | :--- | :--- |
| 1 | Enhanced Security HDD | 1 |  |
| - | EMC Address | 1 |  |



Installation Procedure

## Min月苗

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the rear cover [A].

2. Remove the controller box cover [A].

## 2.Installation

## Red Circle: Remove / Blue Circle: Loosen


3. Remove the standard HDD [A] installed on the machine.

4. Separate the standard HDD from the bracket.

5. Disconnect the cables from the standard HDD.

6. Remove the enhanced security HDD from its protective pack.

+1
7. Connect the two cables to the enhanced security HDD.

$14+1+1+2$
8. Fasten the HDD to the bracket.
9. Install the HDD bracket in the controller box.
10. Reassemble the machine.

1. Connect the power cord and turn the machine on. A message prompts you to format the hard disk.

2. Touch [Format].

3. Wait for the machine to finish formatting the hard disk.


- Do not touch the power switch while the hard disk format is in progress. Wait for the machine to tell you that the formatting is finished.


4. Turn the main power OFF and back ON again after the message tells you formatting is finished.
5. Ask an administrator to register an HDD authentication code in the machine.

- If the HDD Authentication Code is not registered, the function of the enhanced security HDD is not activated.

USB Device Server Option Type M19 (D3BC-28,-29)
Accessory Check

| No | Items | Q'ty |  |
| :--- | :--- | :--- | :--- |
| 1 | USB Cable | 1 | Remarks |
| 2 | Interface Board | 1 |  |
| 3 | Ferrite Core | 2 |  |
| 4 | Cable Ties | 2 |  |



## FIM

- An Ethernet cable is not packed with this option.

Interface Board Surface


| No. | Item | Description |
| :--- | :--- | :--- |
| 1 | Switch | Used to reset to the factory settings. |
| 2 | Ethernet port | Used to connect the Ethernet cable. |
| 3 | USB port | Used to connect this option to the main machine. <br> Do not use this port with other options. |

- When installing the USB device server option, make sure that the labels 'USB-A' and 'Ethernet' are
upside down.



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.


## 518

- The USB device server option has an IP address stored on the PCB. This is different from the machine's IP address. The IP address and other network settings of the USB device server option must be configured after installing this option.

1. Remove the interface slot cover [A].

2. Install the interface board in the interface slot [A].

3. Remove the controller cover [A].

4. Cut off the USB port cover [A] with nippers or another such tool.

5. Reattach the covers.
6. Insert the USB cable [A] into the USB port (Type A) on the machine I/F.

## 2.Installation

7. Insert the other side of the USB cable [B] into the USB port (Type B) on this option board.

8. Attach the ferrite cores to the Ethernet cable, while looping the cable at 3 cm (approx. 1.2 inch) [A] from each end of the cable.

9. Only for installing this option in North America, bind both cores with cable ties [A] as shown below.

The two binds are not included in options produced before March, 2015. To bind the cores, use the binds registered as service parts or similar ones.

10. Insert the Ethernet cable [A] into the Ethernet port on this option.

11. Insert the other end of the Ethernet cable to a PC for network setup.
12. Connect the power cord to the machine and turn on the main power of the machine.


- Do not unplug the USB cable while the machine is recognizing this option. It may take between 30 seconds to 1 minute to finish recognizing it (the LEDs on the Ethernet port of this option light up after recognizing this option; see below). If unplugged, connect the cable again.

1. Make sure that the machine recognizes this option correctly by doing one of the following:
2. Access the option's IP address from a web browser.
3. Ping the option's IP address from a command prompt on a Windows PC in the same network as the mainframe.

If the IP address cannot be found (DHCP server), use the MAC address. This is the number printed on the seal attached to the printed circuit board for the USB server.

## 2.Installation


3. Use "RX" + the option's MAC address and access a web browser.

Example: http://RX0080926A3264

4. Ping "RX" + "MAC address" from the command prompt on a windows PC which is on the same network as the mainframe.


- When installing the USB Device Server Option Type M19, the installation status is not shown on the Configuration Page.
- The customer should keep the slot covers which were removed.

What Do the LED Indications Mean?
When this option is properly installed and recognized by the main machine, the LED indicators light up under the following conditions.


Notes for Energy Save Mode Setting
If the machine which has this option enters into the energy save mode, you cannot print because there will be a communication error. Follow the instructions below to disable the machine's entering into the energy save mode.

1. Set SP5-191-001 (Power Str Set) to a value of "0".
2. Exit SP mode.
3. Turn the machine main power $\mathrm{OFF} / \mathrm{ON}$.

## IP Address Setting

This section describes how to set an IP address on this option manually. Note that you can set an IP address which is not only on the same network segment but also on a different network segment, to share a single printer with devices in multiple networks.

- You cannot change the IP address for this option from the operation panel of the main machine. The setting must be done from a web browser on your PC.
- The network setting of this option is initially assigned as follows: IP address: 192.168.100.100 / Subnet mask: 255.255.255.0
- The network setting of your PC must be in the same network segment to change the network setting of this option.

1. Make a note of the current network settings of your PC.
2. Change the IP address on your PC to [192.168.100.xxx $\left.\left({ }^{*} 0-255\right)\right]$.
3. Change the subnet mask on your PC to [255.255.255.0].
4. Open a web browser.
5. Type [http://192.168.100.100/] in the address bar.

## 2.Installation

6. Press the "Enter" key.


- The setting screen for this option appears.

7. Click [Network Setting].

8. Type [root] in the user name textbox and click [OK].
9. Input [IP Address], [Subnet Mask] and [Default Gateway].

10. Set other items if needed.
11. Press [Set]
12. Close the web browser.
13. Disconnect the Ethernet cable from the PC.
14. Connect the Ethernet cable to a network device (e.g. switching hub).
15. Set the IP address of this option in the printer driver which you use.

## Extended USB Board Type M19 (D3BS-01)

Component Check

| No. | Items | Q'ty | Remarks |
| :---: | :---: | :---: | :---: |
| 1 | Extended USB Board | 1 |  |



## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing any work, touch a metal object to discharge static electricity from the body.

1. Remove the slot cover [A].

2. Insert the Extended USB Board into the I/F slot. ( H 2)
3. Turn ON the main power.
4. Check that the board is recognized correctly on Web Image Monitor.

Log in with an administrator account on Web Image Monitor $>$ Device Management $>$ Configuration $>$
Interface Settings $>$ USB $>$ Active

## 1

- The customer should keep the slot covers which were removed.


## SD Card Options

SD Card Slots

[A]: SD card slot 1 (option slot)
[B]: SD card slot 2 (service slot)

## List of Slots Used

Optional SD cards can be set in either slot 1 or slot 2 . However, slot 2 is the service slot, so we recommend that you use slot 1 to install the SD card options.

- In this machine, it is possible to transfer data from a "Postscript3 Unit" SD card, unlike in earlier models, due to a change in the software licensing (the part of the Postscript software that requires licensing is now built into the controller, so the portion on the SD card can be moved to another SD card).

|  | Option Name | Slot | Remarks |
| :--- | :--- | :--- | :--- |
| 1 | PostScript3 Unit Type M29 | Slot 1 or Slot 2 |  |
| 2 | SD Card for Fonts Type D |  |  |
| 3 | XPS Direct Print Option Type M29 |  |  |
| 4 | Fax Connection Unit Type M29 |  |  |
| 5 | OCR Unit Type M13 |  |  |
| 6 | DataOverwriteSecurity Unit Type M19 |  |  |
| 7 | IPDS Unit |  |  |
| 8 | Unicode Font Package for SAP(R) 1 License |  |  |
| 9 | Unicode Font Package for SAP(R) 10 Licenses |  |  |
| 10 | Unicode Font Package for SAP(R) 100 Licenses |  |  |

## 2.Installation

## SD Card Appli Move

## Overview

The service program "SD Card Appli Move" (SP5-873) lets you move application programs from one SD card to another SD card.

If more than one application is required, the applications must be moved to one SD card with SP5873-1
(PostScript 3, IPDS unit, etc.).

## Be very careful when you do the SD Card Appli Move procedure:

- The data necessary for authentication is transferred with the application program from an SD card to another SD card. Authentication fails if you try to use the SD card after you move the application program from one card to another card.
- Do not use the SD card if it has been used before for other purposes. Normal operation is not guaranteed when such an SD card is used.

- Store the vacant SD card in the storage space inside the upper front cover as shown above.

This is done for the following reasons:

- The SD card can be the only proof that the user is licensed to use the application program.
- You may need to check the SD card and its data to solve a problem in the future.


## Move Exec

The menu "Move Exec" (SP5-873-001) lets you move application programs from the original SD card to another SD card.

- Do not turn ON the write protect switch of the system SD card or application SD card on the machine. If the write protect switch is ON, a download error (e.g. Error Code 44) occurs during a firmware upgrade or application merge.

1. Turn OFF the main power.
2. Remove the SD card slot cover [A].

3. Make sure that a target SD card is in SD Card Slot 1 [A]. The application program is moved to this SD card.
4. Insert the source SD card with the application program in SD Card Slot 2 [B]. The application program is copied from this source SD card.

5. Turn ON the main power.
6. Start the SP mode.
7. Select SP5-873-001 "Move Exec".
8. Follow the messages shown on the operation panel.
9. Turn OFF the main power.
10. Remove the source SD card from SD Card Slot 2 .
11. Turn ON the main power.
12. Check that the application programs run normally.

## Undo Exec

"Undo Exec" (SP5-873-002) lets you move back application programs from an SD card in SD Card Slot 1 to the original SD card in SD Card Slot 2. You can use this program when, for example, you have mistakenly copied some programs by using Move Exec (SP5-873-001).

- Do not turn ON the write protect switch of the system SD card or application SD card on the machine. If the write protect switch is ON, a download error (e.g. Error Code 44) occurs during a firmware upgrade or application merge.


## 2.Installation

1. Turn OFF the main power.
2. Remove the SD card slot cover [A].

3. Insert the original SD card in SD Card Slot 2 [B]. The application program is copied back into this card.
4. Insert the SD card with the application program in SD Card Slot 1 [A]. The application program is copied back from this SD card.

5. Turn ON the main power.
6. Start the SP mode.
7. Select SP5-873-002 "Undo Exec."
8. Follow the messages shown on the operation panel.
9. Turn OFF the main power.
10. Remove the SD card from SD Card Slot 2.
11. Turn ON the main power.
12. Check that the application programs run normally.

## OCR Unit Type M13 (D3AC-23, -24, -25)

## Accessory Check

| No. | Description | Q'ty |
| :---: | :---: | :---: |
| 1 | SD Card | 1 |

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## Searchable PDF function outline

This option adds a searchable PDF function to the scanning function.

- The searchable PDF function performs OCR by the MFP on a document read with the scanner, and embeds text data in the PDF. This permits PDF text browsing, automatic assignment of filenames, and automatic alignment of document orientation.
- This option is provided with an SD card. By installing an SD card in the MFP, a functional icon is added to the control unit. It is not necessary to install software in a PC.
- If this option is installed, various settings related to the searchable PDF function are available.
- After reading of the document is completed (after it is read by the SPDF/ARDF and output), OCR is performed. Therefore, after reading is completed, documents can be collected from the document glass or SPDF/ARDF.
- Other functions, such as the copy function and printer function, can be used during OCR.


## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- When installing more than one SD card, perform the merge operation. (SD Card Appli Move)


## 2.Installation

1. Remove the SD card slot covers [A].

2. Insert the OCR Unit SD card in SD card slot 1 [A: Upper Slot].

3. Turn ON the main power.
4. Enter the SP mode, and then press "Enter" in SP5-878-004 (Option Setup: OCR Dictionary).

The SD card ID is saved in the NVRAM, and the ID of the MFP is saved on the SD card. The MFP and SD card are thereby linked.
5. When "operation complete" is displayed, press "Close".


- If installation fails, "Failed" is displayed.
- If installation fails, perform the following steps.

1. Check whether it is a used SD card.
2. Turn the main power OFF, and repeat steps 1-5.
3. Turn the machine OFF and back ON again.
4. Press "Enter" in SP5-878-004 (Option Setup: OCR Dictionary).

Dictionary data is copied to the HDD.
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- On the first run, SP5-878-004 links the SD card, and on the second run, copies dictionary data.

8. Turn OFF the main power.
9. Remove the SD card from the SD card slot.

- Keep the SD card in the SD card storage location of the MFP. The original SD card is needed in the
event of a HDD malfunction.

10. Reattach the SD card slot cover.
11. Turn ON the main power.
12. Press [File Format / File Name] on the scanner function screen.
13. Check that [OCR setting] is displayed on the "File format / "File Name" screen.


- After installation, the OCR setting can be changed on the "OCR setting" screen.
- When setting OCR, set [OCR setting] to [Yes]. (Default setting: [No])


## Recovery Procedure

When this option is installed, a function is saved on the HDD, and ID information on the SD card is saved in the NVRAM. Therefore, when replacing the HDD and/or NVRAM, this option must be reinstalled.

## When storing the original SD card

- When only the HDD is replaced

Reinstall using the original SD card.

- When only the NVRAM is replaced

When performing upload/download of NVRAM data, reinstall using the original SD card.
When not performing upload/download of NVRAM data, order and reinstall a new SD card (service part).

- When the HDD and NVRAM are replaced simultaneously

Reinstall using the original SD card.

## If the original SD card is lost

Order and reinstall a new SD card (service part).

## PostScript3 Unit Type M29

Component Check

| No． | Description | Q＇ty |
| :--- | :--- | :--- | :--- |
| 1 | SD Card（PostScript3 Unit） | 1 |
| 2 | PS3 Decal |  |
|  |  |  |

## Overview of PostScript3 Unit Type M29（Adobe PS）

This machine is equipped with a clone program for emulating Adobe PostScript／PDF（hereafter＂Clone PS＂）as a standard feature．So，by factory default，it can perform printing using PostScript 3 and PDF Direct Print，in addition to RPCS．

However，the variety and number of built－in fonts（device fonts）differ between Adobe PS and Clone PS， sometimes resulting in different printing results．
To address the possible customer needs listed below，the PostScript3 Unit Type M29 is made available as an option．
－When you want to use device fonts supplied with Adobe PS．
－Since forms and ledgers have been created based on device fonts supplied with Adobe PS，a changeover to Clone PS requires redesign of these documents．
－From the viewpoint of precise printing operation，it is impossible to accept any differences in output results in comparison with Adobe PS．

For details of the functions of Adobe PS and Clone PS，refer to Adobe PS vs．Clone PS．

## Installation procedure（Adobe PS）

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－When installing this option，turn OFF the main power and unplug the power cord from the wall socket． If installing without turning OFF the main power，an electric shock or a malfunction may occur．

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－Clone PS and Adobe PS cannot be run simultaneously．If PostScript3 Unit Type M29（Adobe PS）is installed，Clone PS will be disabled．
－When installing more than one SD card，perform the merge operation（SD Card Appli Move）．

1. Remove the SD card slot cover [A].

2. Insert the PS3 SD card in SD card slot 1 [A: Upper Slot].

3. Reattach the SD card slot cover (coin screw x 1 ).
4. Stick the "Adobe PostScript3" decal [A] on the front face of the machine.

5. Turn ON the main power.

Adobe PostScript3 installation starts.

## 2.Installation

6. Press [Restart] when the following message appears.

7. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools $>$ Machine Features $>$ Printer Features $>$ List $/$ Test Page $>$ Configuration Page
- Note that the description of Firmware Version shown in the printed Configuration Page differs between Clone PS and Adobe PS.

| PS type | Description of Firmware Version |
| :--- | :--- |
| When PostScript3 Unit Type M29 (Adobe PS) <br> is installed | RPCS [x.xx.xx] Adobe PostScript 3 [x.xx], Adobe <br> PDF [x.xx] |
| Clone PS | RPCS [x.xx.xx] PS3 [x.xx], PDF [x.xx] |

Initial Settings for the Printer Driver
After installation of an SD card, configure the settings for the printer driver in accordance with the type of PS to be used.

The same printer driver, PS3 printer driver, can be used for printing either for Adobe PS or Clone PS.

- $\quad$ Setting items (Windows):

In an environment where interactive communication is enabled, the machine attempts to acquire information to perform automatic configuration.
When manual configuration is to be performed, select "Adobe PostScript" if Adobe PS is used, and choose "Emulated PostScript" if Clone PS is used.

1. On the [Start] menu, click [Devices and Printers].
2. Right-click the icon of the printer you want to use.
3. Click [Printer properties].
4. Click the "Accessories" tab and configure settings for Adobe PS/Clone PS using the PostScript pull-down
menu.


- $\quad$ Setting items (Mac OS X):

If the driver is installed by means of the Bonjour function or "HP Jetdirect - Socket", the settings will be automatically configured.

Automatic configuration will not work if any other protocol is used for installation. In this case, manual configuration is required.

When manual configuration is to be performed, select "Adobe PostScript" if Adobe PS is used, and
"Emulated PostScript" if Clone PS is used.

## Switching back to Clone PS from Adobe PS

Clone PS can be resumed by removing the Adobe PS card from the SD card slot and applying the firmware for
Clone PS/PDF (".fwu" or ".rfu").
Note: The work should be carried out by customer engineers.
In doing this, be sure to apply both PS3 and PDF firmware modules. If only one of them is applied, the machine will not operate properly. (As a stopgap measure to fix the malfunction, insert the optional Adobe PS card again into the SD card slot to enable the use of Adobe PS. Then, Clone PS can be resumed by applying both the PS3 and PDF firmware modules once again.)

| Classification | Firmware name | Software part number |
| :--- | :--- | :--- |
| Clone PS <br> component firmware | Clone PS3 | D2895594 |
|  | Clone PDF | D2895595 |
|  | IRIPS Font | D2895596 |
| Adobe PS <br> component firmware | Adobe PS3 | D3DW5731 |
|  | Adobe PDF | D3DW5733 |
|  | PS3 Font | D2415681 |

## XPS Direct Print Option Type M29

## Component Check

| No. | Description | Qty |
| :---: | :---: | :---: |
| 1 | XPS Direct Print SD Card | 1 |

- 




## Installation Procedure

## 

- When installing this option, turn OFF the main power and unplug the power cord from the wall socket.

If installing without turning OFF the main power, an electric shock or a malfunction may occur.


- When installing more than one SD card, perform the merge operation. (SD Card Appli Move)

1. Remove the SD card slot cover [A].

2. Insert the XPS SD card in SD card slot 1 [A: Upper Slot].

3. Reattach the SD card slot cover ( x 1 ).
4. Turn ON the main power.
5. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page


## Data Overwrite Security Unit Type M19 (D3BS-03)

## Overview

The machine's hard disk stores all document data from the Copier, Printer, and Scanner functions. It also stores the data of users' Document Server and code counters, and the Address Book. To prevent data on the hard disk being leaked before disposing of the machine, you can overwrite all data stored on the hard disk (Erase All Memory). You can also automatically overwrite temporarily-stored data (Auto Erase Memory).

The function of this option is completely the same as the Data Overwrite Security in Security Functions, which is standard on this machine (Security Setting)

This option should be installed only for the customer who requires the CC certified Data Overwrite Security function.

## Component List

Check the quantity and condition of the accessories in the box against the following list.

| No. | Description | Q'ty |
| :--- | :--- | :--- |
| 1. | SD Card | 1 |
| - | Comments Sheet | 1 |
| - | Operating Instructions CD-ROM | 1 |




## Before You Begin the Procedure

1. Confirm that the Data Overwrite Security unit SD card is the correct type for the machine. The correct type for this machine is "Type M19".

- If you install any version other than "Type M19" for this machine, you will have to replace the NVRAM and do this installation procedure again.

2. Make sure that the following settings are not at their factory default values.

- Supervisor login password
- Administrator login name
- Administrator login password

If any of these settings is at a factory default value, tell the customer these settings must be changed before
you do the installation procedure.
3. Make sure that "Admin. Authentication" is ON.

User Tools $>$ Machine Features $>$ System Settings $>$ Administrator Tools $>$ Administrator Authentication
Management > Admin. Authentication
If this setting is OFF, tell the customer this setting must be ON before you do the installation procedure.
4. Make sure that "Administrator Tools" is enabled (selected).

User Tools $>$ Machine Features $>$ System Settings $>$ Administrator Tools $>$
Administrator Authentication Management>Available Settings
If this setting is disabled (not selected), tell the customer this setting must be enabled (selected) before you do the installation procedure.

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- See the Operating Instructions (Security Guide) for the factory default values.


## Seal Check and Removal

Before opening the corrugated envelope, make sure that the seal has not been broken or peeled off. If the seal has been broken or peeled off (even partially), this is considered an arrival defect. Note that once the seal is peeled off, this will leave a mark on the bag.


## 

- You must check the box seals to make sure that they were not removed after the items were sealed in the box at the factory before you do the installation.

1. Check the box seals [A] on each corner of the box.

- Make sure that a tape is attached to each corner.
- The surfaces of the tapes must be blank. If you see "VOID" on the tapes, do not install the components in the box.

2. If the surfaces of the tapes do not show "VOID", remove them from the corners of the box.
3. You can see the "VOID" marks [B] when you remove each seal. In this condition, they cannot be attached to the box again.

## Installation Procedure

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- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.


## 14

- When installing more than one SD card, perform the merge operation. (SD Card Appli Move)

1. Turn the main power off, and then remove the power plug and cables that are connected.
2. Remove the SD card slot cover [A].

3. Insert the Data Overwrite Security Unit Type M19 SD card in SD card slot 1 [A: Upper Slot].

4. Reattach the SD card slot cover. $(\times 1)$
5. Insert the power cord into the outlet and turn ON the main power.
6. Enter the SP mode.
7. Do this step only if you are installing the option on a machine that is already in use (not a new machine):

- If the customer wishes to continue using the same hard disk, execute all three SP modes below.
- SP5-801-014 (Clear DCS Setting)
- SP5-832-001 (HDD Formatting (ALL))
- SP5-832-002 (HDD Formatting (IMH))
- If the customer wishes to replace the hard disk with a new one, execute SP5-801-014 only.

- If the customer continues using the same hard disk, the overwriting of the data stored on the disk
before the option is installed cannot be guaranteed. It is highly recommended to replace the hard disk with a new one.

8. Set SP5-836-001 (Capture Function (0:Off 1:On)) to a value of 0 (disable).
9. Execute SP5-878-001 ([Option Setup: Data Overwrite Security) If the installation fails, "Installation failed" is displayed when this SP is executed.
10. Print out the System Settings List and make sure that the option was installed successfully.
11. Reconnect the network cable.
12. Execute SP5-990-005 (SP print mode Diagnostic Report).

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
13. Make sure that ROM number "D3BC5757A" and firmware version "1.02" appear in both of the following areas on the report (they must match):

- "ROM Number / Firmware Version" - "HDD Format Option"
- "Loading Program"


## Configuring "Auto Erase Memory" (Performed by the Customer)

1. Press the [User Tools] icon.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Next] three times.
6. Press [Auto Erase Memory Setting].

7. Press [On].

## 2.Installation

8. Select the method of overwriting.


- If you select [NSA] or [DoD], proceed to Step 11.
- If you select [Random Numbers], proceed to Step 9.

9. Press [Change].
10. Enter the number of times that you want to overwrite using the ten keys, and then press [\#].


The Random Numbers method overwrites the data using random numbers. You can set the overwrite to be performed anywhere from 1-9 times, with a default of 3 times.
11. Press [OK].
12. Make sure that the Data Overwrite icon is displayed in the bottom right hand corner of the screen.
13. Take a test copy, and then make sure that the Data Overwrite icon changes from "Dirty" (solid) to "Dirty" (blinking), and then to "Clear".

- If the Data Overwrite icon does not change to Clear, check to see if there are any active Sample Print or Locked Print jobs. A Sample Print or Locked Print job can only be overwritten after it has been executed.
- The Dirty icon blinks while an overwrite is in progress.
- If you use your machine for a while with Auto Erase Memory disabled, and then suddenly enable it, the overwrite process may take 10 or more hours depending on HDD usage.


## Data Overwrite icon:

| $\square$ | Icon <br> $[1]$ | This icon is lit when there is temporary data to be overwritten, and blinks during <br> overwriting. |
| :--- | :--- | :--- |


| Icon |
| :--- | :--- | :--- |
| $[2]$ | | This icon is lit when there is no temporary data to be overwritten. |
| :--- |

## SP descriptions

- SP5-801-014 (Memory Clear: Clear DCS Setting)

Initializes the DCS (Delivery Control Service) settings.

- SP5-832-001 (HDD Formatting : HDD Formatting (ALL))

Initializes the hard disk.

- SP5-832-002 (HDD Formatting : HDD Formatting (IMH))

Initializes the hard disk.

- SP5-836-001 (Capture Settings: Capture Function (0:Off 1:On))

With this function disabled, the settings related to the capture feature cannot be initialized, displayed, or selected.

- SP5-878-001 (Data Overwrite Security)

Enables the Data Overwrite Security unit. Press "EXECUTE" on the operation panel. Then turn the machine off and on.

- SP5-990-005 (SP Print Mode: Diagnostic Report).

Prints the configuration sheets of the system and user settings : SMC.
Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

## Security Setting

## Security Function Installation

The machine contains the security functions (Data Overwrite Security and HDD Encryption unit) in the controller board.

If you are installing a new machine, it is recommended to activate Data Overwrite Security and HDD Encryption by selecting "Format All Data" from "System Settings" on the operation panel.

- This method is recommended because there is no user data on the hard drive yet (Address Book data, image data, etc.).

If the customer wishes to activate Data Overwrite Security and HDD Encryption unit on a machine that is already running, it is recommended to activate the unit by selecting "All Data" from "System Settings" on the operation panel.

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- Selecting "All Data" will preserve the data that has already been saved to the HDD. (If "Format All Data" is selected, all user data saved to the HDD up to that point will be erased).

Immediately after encryption is enabled, the encryption setting process will take several minutes to complete before you can begin using the machine.

- If encryption is enabled after data has been stored on the HDD, or if the encryption key is changed, this process can take up to three and a half hours or more.

The machine cannot be operated while data is being encrypted.
Once the encryption process begins, it cannot be stopped.
Make sure that the machine's main power is not turned off while the encryption process is in progress.
If the machine's main power is turned off while the encryption process is in progress, the HDD will be damaged and all data on it will be unusable.

Print the encryption key and keep the encryption key (which is printed as a paper sheet).
Keep the encryption key in a safe place. If the encryption key is lost and is needed, the controller board, HDD and NVRAM must all be replaced at the same time.

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- "NVRAM" mentioned in here means the NVRAM on the Controller Board.
- "NVRAM" or EEPROM on the BCU has nothing to do with this.

Please use the following procedure when the Data Overwrite Security and HDD Encryption are reinstalled.

## Data Overwrite Security

Before You Begin the Procedure

1. Make sure that the following settings (1) to (3) are not at their factory default values.
(1) Supervisor login password
(2) Administrator login name
(3) Administrator login password

If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.
2. Make sure that "Admin. Authentication" is on.
[User Tools] icon -> [Machine Features] -> [System Settings] -> [Administrator Tools] -> [Administrator Authentication Management] -> [Admin. Authentication]
If this setting is off, tell the customer this setting must be on before you do the installation procedure.
3. Make sure that "Administrator Tools" is enabled (selected).
[User Tools] icon -> [Machine Features] -> [System Settings] -> [Administrator Tools] -> [Administrator Authentication Management] -> [Available Settings]
If this setting is disabled (not selected), tell the customer this setting must be enabled (selected) before you do the installation procedure.

Installation Procedure

1. Connect the network cable if it needs to be connected.
2. Turn ON the main power.
3. Go into the SP mode and push "EXECUTE" in SP5-878-001.
4. Exit the SP mode and turn off the operation switch. Then turn off the main power switch.
5. Turn on the machine power.
6. Do SP5-990-005 (SP print mode Diagnostic Report).

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
7. Go into the User Tools mode, and select [Machine Features] [System Settings] [Administrator Tools] [Auto Erase Memory Setting] [On].
8. Exit the User Tools mode.


|  | Icon <br> $[1]$ | This icon is lit when there is temporary data to be overwritten, and blinks during <br> overwriting. |
| :--- | :--- | :--- |
| $\square$ | Icon <br> $[2]$ | This icon is lit when there is no temporary data to be overwritten. |

9. Check the display and make sure that the overwrite erase icon appears.
10. Check the overwrite erase icon.

The icon [1] is lit when there is temporary data to be overwritten, and blinks during overwriting.
The icon [2] is lit when there is no temporary data to be overwritten.

## Using Auto Erase Memory

The Auto Erase Memory function can be enabled by the following procedure.

1. $L o g$ in as the machine administrator from the control panel.
2. Press the [User Tools] icon.
3. Press [Machine Features].
4. Press [System Settings].
5. Press [Administrator Tools].
6. Press [Next] three times.
7. Press [Auto Erase Memory Setting].

8. Press [On].
9. Select the method of overwriting.

If you select [NSA] or [DoD], proceed to step 12 .
If you select [Random Numbers], proceed to step 10
10. Press [Change].
11. Enter the number of times that you want to overwrite using the number keys, and then press [\#].
12. Press [OK]. Auto Erase Memory is set.
13. Log out.
14. Check the display and make sure that the overwrite erase icon appears.
15. Check the overwrite erase icon.

The icon [1] is lit when there is temporary data to be overwritten, and blinks during overwriting.
The icon [2] is lit when there is no temporary data to be overwritten.


| $\square$ | Icon <br> $[1]$ | This icon is lit when there is temporary data to be overwritten, and blinks during <br> overwriting. |
| :--- | :--- | :--- |
| $\square$ | Icon <br> $[2]$ | This icon is lit when there is no temporary data to be overwritten. |

## HDD Encryption

Before You Begin the Procedure:

1. Make sure that the following settings (1) to (3) are not at the factory default settings.
(1) Supervisor login password
(2) Administrator login name
(3) Administrator login password

If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.
2. Confirm that "Admin. Authentication" is on:
[User Tools] icon - [Machine Features] - [System Settings] - [Administrator Tools] - [Administrator Authentication Management] - [Admin. Authentication] - [On]
If this setting is off, tell the customer that this setting must be on before you can do the installation procedure.
3. Confirm that "Administrator Tools" is selected and enabled.
[User Tools] icon - [Machine Features] - [System Settings] - [Administrator Tools] - [Administrator
Authentication Management] - [Available Settings]
"Available Settings" is not displayed until step 2 is done.
If this setting is not selected, tell the customer that this setting must be selected before you can do the

## 2.Installation

installation procedure.
Installation Procedure:

1. Turn ON the main power, and then enter the SP mode.
2. Select SP5-878-002, and then press "Execute" on the LCD.
3. Exit the SP mode after "Completed" is displayed on the LCD.
4. Turn OFF the main power.

## Enable Encryption Setting

Machine Data Encryption Settings can be enabled by the following procedure.

- When setting up encryption, specify whether to start encryption after deleting data (initialize) or encrypt and retain existing data. If data is retained, it may take some time to encrypt it.

1. Turn on the main power.
2. Log in as the machine administrator from the control panel.
3. Press the [User Tools] icon.
4. Press [Machine Features].
5. Press [System Settings].
6. Press [Administrator Tools].
7. Press [Next] three times.
8. Press [Machine Data Encryption Settings].

9. Press [Encrypt].

10. Select the data to be carried over to the HDD and not be reset.

To carry all of the data over to the HDD, select [All Data].
To carry over only the machine settings data, select [File System Data Only].
To reset all of the data, select [Format All Data].
11. Select the backup method.


If you have selected [Save to SD Card], load an SD card into the media slot on the side of the control panel and press [OK] to back up the machine's data encryption key.
If you have selected [Print on Paper], press the [Start] key. Print out the machine's data encryption key.
12. Press [ OK ].

## 2.Installation

13. Press [Exit].

14. Press [Exit].
15. Log out.
16. Turn off the main power, and then turn the main power back on.

The machine will start to convert the data on the memory after you turn on the machine. Wait until the message "Memory conversion complete. Turn the main power switch off." appears, and then turn the main power off again.

Check the Encryption Settings

1. Press the [User Tools] icon.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Machine Data Encryption Settings].
6. Confirm whether the encryption has been completed or not on this display.


## Print the encryption key

Use the following procedure to print the key again if it has been lost or misplaced.

1. Press the [User Tools] icon.
2. Press [Machine Features].
3. Press [System Settings].
4. Press [Administrator Tools].
5. Press [Machine Data Encryption Settings].

If this item is not visible, press [Next] to display more settings.
6. Press [Print Encryption Key].

## Encryption key sample



The encryption key is printed out as a sheet of paper like the example shown above.
Please instruct the customer to keep it in a safe place.

## Backing Up the Encryption Key

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

## 

- The encryption key is required for data recovery if the machine malfunctions. Be sure to store the encryption key safely for retrieving backup data.

1. $L o g$ in as the machine administrator from the control panel.
2. Press the [User Tools] icon.
3. Press [Machine Features].
4. Press [System Settings].
5. Press [Administrator Tools].
6. Press [Next] three times.
7. Press [Machine Data Encryption Settings].

## 2.Installation

8. Press [Print Encryption Key].

9. Select the backup method.

If you have selected [Save to SD Card], load an SD card into the media slot on the side of the control panel and press [OK]; once the machine's data encryption key is backed up, press [Exit].

If you have selected [Print on Paper], press the [Start] key. Print out the machine's data encryption key.
10. Press [Exit].
11. Log out.

## Encryption Key Restoration

## How to restore the old encryption key to the machine

The following message appears after the controller board is replaced. In such a case, it is necessary to restore the encryption key to the new controller board.


To do this, follow the procedure below.

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 machine's serial number, "xxxxxxxxxxx" (11 digits).
4. Create a text file called "key_xxxxxxxxxxx.txt" and save it in the "xxxxxxxxxxx" folder. Write the encryption key in the text file.
/restore_key/xxxxxxxxxxy/key_xxxxxxxxxxx.txt


- Ask an Administrator to enter the encryption key. The key has already been printed out by the user and may have been saved in the "key_xxxxxxxxxxx.txt" file. (The function of back-up the encryption key to the SD card directly is provided 11A products or later.)

5. Turn ON the machine's main power.
6. Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
7. Turn OFF the main power.
8. Insert the SD card that contains the encryption key into SD card slot 2 (the lower slot).
9. Turn ON the main power.

## 4

- The machine will automatically restore the encryption key to the flash memory on the controller board.

10. Turn OFF the main power when the machine has returned to normal status.
11. Remove the SD card from SD card slot 2 .

## How to do a forced start up with no encryption key

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

## Firlimbial

- The HDD will be formatted after the forced start-up.
- Encrypted data will be deleted.
- User settings will be cleared.

1. Prepare an SD card.
2. Create a directory named "restore_key" inside the root directory of the SD card. Then, save the "nvram_key.txt" file using the following name:
/restore_key/nvram_key.txt
3. Create a text file and write "nvclear".


- Write this string at the head of the file.
- Use all lower-case letters.
- Do not use quotation marks or blank spaces.
- It is judged that a forced start has been selected when the content of "nvclear" is executed and the machine shifts to the alternate system (forced start).

4. Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
5. Turn OFF the main power.
6. Insert the SD card that contains the encryption key into SD card slot 2 (the lower slot).
7. Turn ON the main power.

The machine automatically clear the HDD encryption.
8. Turn OFF the main power when the machine has returned to normal status.
9. Remove the SD card from SD card Slot 2.
10. Turn ON the main power.
11. Memory clear SP5-801-xxx (Exclude SP-5-801-001: All Clear and SP-5-801-002: Engine), and clear SP5-846-046: address book.
12. Set necessary user settings in User Tools.
2.Installation

## SP descriptions

- SP5-878-002 (Option Setup: HDD Encryption)

Executes the setup for encryption.

- SP5-990-005 (SP Print Mode: Diagnostic Report)

Prints the configuration sheets of the system and user settings : SMC.
Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

- SP5-801-001 (Memory Clear: All Clear)

Resets all correction data for process control and all software counters, and returns all modes and adjustments to their default values.

- SP5-801-002 (Memory Clear: Engine)

Clears non-volatile memory of engine.

- SP5-846-046 (UCS Setting: Addr Book Media)

Displays the slot number where an address book data is in.
0 : Unconfirmed
1: SD Slot 1
2: SD Slot 2
3: SD Slot 3
4: USB Flash ROM
10: SD Slot 10
20: HDD
30: Nothing

## @ Remote Settings

## F

- Prepare and check the following check points before you visit the customer site. For details, ask the @Remote key person.


## Check points before making @Remote settings

1. The setting of SP5816-201 in the mainframe must be "0".
2. Print the SMC with SP5990-002 and then check if a device ID2 (SP5811-003) must be correctly programmed.

- 6 spaces must be put between the 3 -digit prefix and the following 8 -digit number (e.g. xxx $\qquad$ xxxxxxyx).
- ID2 (SP5811-003) and the serial number (SP5811-001) must be the same (e.g. ID2:

A01 $\qquad$ $23456789=$ serial No. A0123456789)

- Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

3. The following settings must be correctly programmed.

- Proxy server IP address (SP5816-063)
- Proxy server Port number (SP5816-064)
- Proxy User ID (SP5816-065)
- Proxy Password (SP5816-066)

4. Get a Request Number

## Execute the @Remote Settings

1. Enter the SP mode
2. Input the Request number which you have obtained from @Remote Center GUI, and then enter [OK] with SP5816-202.
3. Confirm the Request number, and then click [EXECUTE] with SP5816-203.
4. Check the confirmation result with SP5816-204.

| Value | Meaning | Solution/ Workaround |
| :--- | :--- | :--- |
| 0 | Succeeded | - |
| 3 | Communication error (proxy <br> enabled) | Check the network condition. |
| 4 | Communication error (proxy <br> disabled) | Check the network condition. |
| 5 | Proxy error (authentication error) | Check Proxy user name and password. |
| 6 | Communication error | Check the network condition. |
| 8 | Other error | See "SP5816-208 Error Codes" below this. |
| 9 | Request number confirmation <br> executing | Processing... Please wait. |
| 11 | Already registered | - |


| Value | Meaning | Solution/ Workaround |
| :---: | :---: | :---: |
| 12 | Parameter error | - |
| 20 | Dial-up authentication error | * These errors occur only in the modems that support @Remote. |
| 21 | Answer tone detection error |  |
| 22 | Carrier detection error |  |
| 23 | Invalid setting value (modem) |  |
| 24 | Low power supply current |  |
| 25 | unplugged modem |  |
| 26 | Busy line |  |

5. Make sure that the screen displays the Location Information with SP5816-205 only when it has been input at the Center GUI.
6. Click [EXECUTE] to execute the registration with SP5816-206.
7. Check the registration result with SP5816-207.

| Value | Meaning | Solution/ Workaround |
| :---: | :---: | :---: |
| 0 | Succeeded | - |
| 1 | Request number error | Check the request number again. |
| 2 | Already registered | Check the registration status. |
| 3 | Communication error (proxy enabled) | Check the network condition. |
| 4 | Communication error (proxy disabled) | Check the network condition. |
| 5 | Proxy error (Authentication error) | Check Proxy user name and password. |
| 8 | Other error | See "SP5816-208 Error Codes" below this. |
| 9 | Request number confirmation executing | Processing... Please wait. |
| 11 | Already registered | - |
| 12 | Parameter error | - |
| 20 | Dial-up authentication error | * These errors occur only in the modems that support <br> @Remote. |
| 21 | Answer tone detection error |  |
| 22 | Carrier detection error |  |
| 23 | Invalid setting value (modem) |  |
| 24 | Low power supply current |  |
| 25 | unplugged modem |  |
| 26 | Busy line |  |

8. Exit the SP mode.

## SP5816-208 Error Codes

Caused by Operation Error, Incorrect Setting

| Code | Meaning | Solution/ Workaround |
| :---: | :---: | :---: |
| $12002$ | Inquiry, registration attempted without acquiring Request No. | Obtain a Request Number before attempting the Inquiry or Registration. |
| $12003$ | Attempted registration without execution of a confirmation and no previous registration. | Perform Confirmation before attempting the Registration. |
| $12004$ | Attempted setting with illegal entries for certification and ID2. | Check ID2 of the mainframe. |
| $12005$ | @Remote communication is prohibited. The device has an Embedded RC gate-related problem. | Make sure that "Remote Service" in User Tools is set to "Do not prohibit". |
| $12006$ | A confirmation request was made after the confirmation had been already completed. | Execute registration. |
| $12007$ | The request number used at registration was different from the one used at confirmation. | Check Request No. |
| $12008$ | Update certification failed because mainframe was in use. | Check the mainframe condition. If the mainframe is in use, try again later. |
| $12009$ | The ID2 in the NVRAM does not match the ID2 in the individual certification. | Check ID2 of the mainframe. |
| $12010$ | The certification area is not initialized. | Initialize the certification area. |

Error Caused by Response from GW URL

| Code | Meaning | Solution/ Workaround |
| :---: | :--- | :--- |
| -2385 | Other error |  |
| -2387 | Not supported at the Service Center |  |
| -2389 | Database out of service |  |
| -2390 | Program out of service | Check the registration condition of the mainframe |
| -2391 | Two registrations for the same mainframe |  |
| -2392 | Parameter error |  |
| -2393 | External RCG not managed |  |
| -2394 | Mainframe not managed | Check the ID2 of the mainframe. |
| -2395 | Box ID for external RCG is illegal. | Check the Request No. |
| -2396 | Mainframe ID for external RCG is illegal. |  |
| -2397 | Incorrect ID2 format |  |
| -2398 | Incorrect request number format |  |

## SP descriptions

- SP5-816-201 (Remote Service: Regist Status DFU(SSP))

Displays a number that indicates the status of the @Remote service device.
0 : Neither the registered device by the external nor embedded RCG device is set.

1: The embedded RCG device is being set. Only Box registration is completed. In this status, this unit cannot answer a polling request from the external RCG.

2: The embedded RCG device is set. In this status, the external RCG unit cannot answer a polling request.
3: The registered device by the external RCG is being set. In this status the embedded RCG device cannot be set.

4: The registered module by the external RCG has not started.

- SP5-990-002 (SP Print Mode: SP(Mode Data List)

Prints the configuration sheets of the system and user settings : SMC.
Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

- SP5-811-003 (Machine No. Setting: ID2 Code Display)

Sets the ID-2 code used to identify the @remote device at installation.

- SP5-816-063 (Remote Service: Proxy server IP address)

This SP sets the address of the proxy server used for communication between the RCG device and the gateway. Use this SP to set up or display the customer proxy server address.

The address is necessary to set up the embedded RCG-N.
The address display is limited to 127 characters. Characters beyond the 127 characters are ignored.
This address is customer information and is not printed in the SMC report.

- SP5-816-064 (Remote Service: Proxy server Port number)

This SP sets the port number of the proxy server used for communication between the embedded RCG-N and the gateway. This setting is necessary to set up the embedded RC Gate-N.

This port number is customer information and is not printed in the SMC report.

- SP5-816-065 (Remote Service: Proxy User ID)

This SP sets the HTTP proxy certification user name.
The length of the name is limited to 31 characters. Any character beyond the 31st character is ignored.
This name is customer information and is not printed in the SMC report.

- SP5-816-066 (Remote Service: Proxy Password)

This SP sets the HTTP proxy certification password.
The length of the password is limited to 31 characters. Any character beyond the 31 st character is ignored.
This name is customer information and is not printed in the SMC report.

- SP5-816-202 (Remote Service: Letter Number DFU(SSP))

Allows entry of the number of the request needed for the RCG-N device.

- SP5-816-203 (Remote Service: Confirm Execute)

Executes the inquiry request to the @Remote GW URL.

- SP5-816-204 (Remote Service: Confirm Result DFU(SSP))

Displays a number that indicates the result of the inquiry executed with SP5816 203.

- SP5-816-205 (Remote Service: Confirm Place DFU(SSP))

Displays the installed section informed from G/W for response of request number inquiry if the section is enrolled on the G/W.

- SP5-816-206 (Remote Service: Register Execute)

Executes "Embedded RCG Registration".

- SP5-816-207 (Remote Service: Register Result DFU(SSP))

Displays a number that indicates the registration result.

## Operation Guidance for Users

| Function/Operation |  | Instruction to provide |
| :--- | :--- | :--- |
| Basic machine functions, | - | How to load the toner bottle |
| operations | - | How to load paper and other consumables/supplies |

## 3. Preventive Maintenance

## PM Parts Settings

## Replacement procedure of the PM parts

When you replace the PM parts, you need to reset the PM counter manually.
There are two ways to reset the PM counter for this machine.

- Method 1: Reset by SP3-701 (Manual New Unit Set). This is the conventional method.
- Method 2: Reset by [PM Counter / New Unit Set] Menu.
"Method 2" is recommended for its ease of operation.


## $\square \square$

- For the following units, there is a new unit detection mechanism. It is not necessary to reset PM counters.
- Fusing unit
- PCDU
- Waste Toner Bottle (When the machine stopped because the waste toner bottle was full)
- If you only replace the development unit (not replacing the PCU), the PCU counter will not be cleared when you set SP3-701-023 (Manual New Unit Set: Development Unit) in advance.


## F1

- Toner recycling mode is disabled by default.

Replacing the Fusing Unit

## For MP 2555 SP/MP 3055 SP/MP 3555 SP

- After the PM counter for the Fusing Belt (heating sleeve belt unit) reaches 260 K pages or the PM counter distance reaches $139,378,000 \mathrm{~mm}$, the machine stops automatically.
- Replace the heating sleeve belt unit before the machine stops (stop warning: 240 K pages, stop: 260 K pages).


## For MP4055 SP/MP 5055 SP/MP 6055 SP

- After the PM counter for the Fusing Belt (heating sleeve belt unit) reaches 350 K pages or the PM counter distance reaches $165,936,000 \mathrm{~mm}$, the machine stops automatically.
- Replace the heating sleeve belt unit before the machine stops (stop warning: 320 K pages, stop: 350 K pages).

Method 1: By SP3701

1. Enter the SP mode.
2. Output the SMC logging data with SP5-990-004.

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

## 3.Preventive Maintenance

3. Set the following SPs (New Unit Detection) to "1".

| Item |  |
| :--- | :--- |
| PCU | PCU: SP3-701-002 |
|  | Cleaning Blade: SP3-701-009 |
|  | Charge Roller: SP3-701-018 |
|  | Cleaner: Charge Roller (Cleaning Roller): SP3-701- |
|  | 019 |
|  | OPC: SP3-701-021 |
| Separation Pawl (Pick-off Pawls): SP3-701-022 |  |

4. Turn the main power switch OFF, and disconnect the power cord from the outlet.
5. Replace the PM parts and turn the main power ON.

The machine will reset the PM counters automatically. In the case of the development unit, developer initialization will also be done automatically.
6. Exit the SP mode.

Method 2: By [PM Counter / New Unit Set] Menu

1. Enter the SP mode.
2. Output the SMC logging data with SP5-990-004.

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
3. Press [PM Counter / New Unit Set].

4. Press [All PM Parts List : New Unit Set].

5. Set the PM part that you want to replace to "YES" under "New Unit Set".

After pressing "YES", the [Exit] key will not be available.
[TBD: Screen]

6. Turn OFF the main power and unplug the power cord from the wall outlet.
7. Replace the PM parts and turn the main power ON.

The machine will reset the PM counters automatically. In the case of the development unit, developer initialization will also be done automatically.
8. Exit the SP mode.

## 3.Preventive Maintenance

## After installing the new PM parts

1. Output the SMC logging data with SP5-990-004 and check the counter values.

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
2. Make sure that the PM counters for the replaced units are " 0 " with SP7-621, or SP7-944. If the PM counter for a unit was not reset, then execute the new unit detect setting with SP3-701 again and turn the machine OFF/ON.
3. Make sure that the exchange counter counts up with SP7-853.
4. Make sure that the counters for the previous units (SP7-908) on the new SMC logging data list (from step 2 above) are equal to the counters (SP7-621, or SP7-944) for these units on the previous SMC logging data list (the list that was output in the "Before removing the old parts" section).
5. Make sure that the unit replacement date is updated with SP7-950.

SP descriptions

- SP7-621-001 (PM Counter Display: Paper)

Displays the number of sheets printed for each current maintenance unit.
When a unit is replaced, the machine automatically detects that the new unit is installed.
Then, the current PM counter value is automatically moved to the PM Counter - Previous (SP7-906-1 to 10) and is reset to " 0 ".

- SP7-853 (Replace Counter)

Displays the number of times each PM part has been replaced.

- SP7-908 (Previous Unit Counter: Pages (\%))

Displays the PM counter of the previous PM Part which was replaced last time.

- SP7-950 (Unit Replacement Date)

Displays the replacement date of each PM unit.

- SP5-990

Prints the configuration sheets of the system and user settings : SMC.
Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

## Operation Check

Check if the sample image has been copied normally.

## PM Parts List

See "Appendices" for the following information:

- Preventive Maintenance Tables


## Image Quality Standards

## Resolution

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |
| Copy (100\%/Enlargement), <br> Black and White (1C) | Ave 5.0 lines $/ \mathrm{mm}$ <br> or more <br> Min 4.5lines $/ \mathrm{mm}$ <br> or more | Book: S-5 <br> (revised) | Copy onto plain paper using Auto Image <br> Density/5 notches and then determine <br> resolution. |
| Copy (Reduction), Black and <br> White (1C) | Min $4.5 \times \mathrm{M}$ <br> lines $/ \mathrm{mm}$ or more | DF: S-5Y <br> (revised) |  |

## Magnification ratio error margin

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |

## Magnification ratio error margin deviation

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |
| Copy (100\% / Enlargement / | $1.00 \%$ or | Scale | Leave the sheet for 3 minutes or more after |
| Reduction), Black and White (1C) | less | chart | it has been output before measuring. |

## Pitch error margin

| Item | Specification | Chart | Measuring method |
| :---: | :---: | :---: | :---: |
| Engine, Black and White(1C) | $1.50 \%$ or less | Mono_CCD | For a line of about $1 / 2$ inch in length. |

## Perpendicularity

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |
| Engine, Black and | $\pm 1.25 \mathrm{~mm} / 200 \mathrm{~mm}$ or less $\left(90^{\circ}\right.$ | Mono_CCD | Measure with the full length and <br> white $(1 \mathrm{C})$ |
| $\left.0.35^{\circ}\right)$ |  |  |  |
| Copy $(100 \%)$, Black and the image. |  |  |  |
| White (1C) | $\pm 1.75 \mathrm{~mm} / 200 \mathrm{~mm}$ or less $\left(90^{\circ}\right.$ | Scale chart |  |
| $\left.0.5^{\circ}\right)$ |  |  |  |

## Linearity

| Item | Specification | Chart | Measuring method |
| :---: | :---: | :---: | :---: |
| Engine, Black and White(1C) | $\pm 0.20 \mathrm{~mm} / 100 \mathrm{~mm}$ or less | Mono_CCD | Measure with the full length and width of the image. |
| Copy, Black and White <br> (1C) | $\pm 0.50 \mathrm{~mm} / 100 \mathrm{~mm}$ or less | Scale chart | 1. Inner line <br> 2. 100 mm <br> 3. Base line <br> 4. Copy <br> 5. 100 mm <br> 6. 0.5 mm |

## Parallelism

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |
| Engine, Black and <br> White(1C) | $\pm 1.8 \mathrm{~mm}$ or <br> less | Mono_CCD | Measure with the full length and width of the <br> image. |

## Missing Image Area

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |
| Engine/Copy (leading <br> edge), Black and <br> White(1C) | $4.2 \pm 1.5 \%$ | Trim | Since there is a variability of about 1 mm in the sizes <br> of sheets of paper, correct the size of the sheet before <br> measuring. |
| Engine/Copy (left/right), <br> Black and White(1C) | 0.5 to 4.0 mm |  |  |
| Engine/Copy (trailing <br> edge), Black and | 0.5 to 6.0 mm <br> (Duplex: 3.0 to |  |  |

## 3.Preventive Maintenance

| Item | Specification | Chart | Measuring method |
| :--- | :--- | :--- | :--- |
| White(1C) | $6.0 \mathrm{~mm})$ |  |  |

## Margin position

| Item | Specification | Chart | Measuring <br> method |
| :--- | :--- | :--- | :---: |
| Engine (simplex), Main Scan/Sub Scan, Black and White <br> $(1 \mathrm{C})$ | $0 \pm 1.5 \mathrm{~mm}$ | Mono_CCD |  |
| Engine (duplex), Main Scan/Sub Scan, Black and White <br> $(1 \mathrm{C})$ | $0 \pm 3 \mathrm{~mm}$ |  |  |

## Paper Transfer Quality Standards

Registration

| Item | Specification | Note |
| :--- | :--- | :--- |
| Simplex (1st print side), $100 \%$ or <br> reduction | $0 \pm 2 \mathrm{~mm}$ (Vertically and horizontally) |  |
| Simplex (1st print side), enlargement | $0 \pm 2 \mathrm{~mm} \times \mathrm{M} \mathrm{mm}$ (Vertically and horizontally) | M: Magnification <br> ratio |
| Duplex (2nd print side), 100\% or <br> reduction | $0 \pm 4 \mathrm{~mm}$ (Vertically and horizontally) | M: Magnification <br> ratio |
| Duplex (2nd print side), enlargement | $0 \pm 2 \mathrm{~mm} \times(2 \times \mathrm{M}+2) \mathrm{mm}$ (Vertically and <br> horizontally) |  |

Skew

Exposure glass

| Item | Specification | Note |
| :--- | :--- | :---: |
| 1st side, B5 SEF or less | $0 \pm 1.3 \mathrm{~mm} / 100 \mathrm{~mm}$ or less |  |
| 1st side, B5 SEF or more | $0 \pm 0.9 \mathrm{~mm} / 100 \mathrm{~mm}$ or more |  |
| 2nd side, B5 SEF or less | $0 \pm 1.8 \mathrm{~mm} / 100 \mathrm{~mm}$ or less |  |
| 2nd side, B5 SEF or more | $\pm 1.3 \mathrm{~mm} / 100 \mathrm{~mm}$ or more |  |

ADF

| Item | Specification | Note |
| :--- | :--- | :--- |
| 1st side, B5 SEF or less | Main and Sub: $0 \pm 2.30 \mathrm{~mm} / 100 \mathrm{~mm}$ |  |
| 1st side, B5 SEF or more | Main scanning: $0 \pm 1.65 \mathrm{~mm} / 100 \mathrm{~mm}$ <br> Sub scanning: $0 \pm 1.40 \mathrm{~mm} / 100 \mathrm{~mm}$ |  |
| 2nd side, B5 SEF or less | Main and Sub: $0 \pm 2.80 \mathrm{~mm} / 100 \mathrm{~mm}$ |  |
| 2nd side, B5 SEF or more, DF3100 | Main scanning: $0 \pm 2.05 \mathrm{~mm} / 100 \mathrm{~mm}$ <br> Sub scanning: $0 \pm 1.80 \mathrm{~mm} / 100 \mathrm{~mm}$ |  |
| 2nd side, B5 SEF or more, DF3090 | Main and Sub: $0 \pm 2.30 \mathrm{~mm} / 100 \mathrm{~mm}$ |  |

## 4. Replacement and Adjustment

## Notes on the Main Power Switch

## Push Switch

The main power button of this machine has been changed to a push-button switch 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, the operation unit and other modules even when the main power is turned OFF. When replacing the controller board and the operation unit in this state, not only these boards, it will damage other electrical 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 while 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.


- 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 machine.

2. The shutdown message appears. After the shutdown process, the main power is turned off automatically. The operation panel and the main power indicator are turned off when the machine completes the shutdown.

## P4 tion

- Even after the shutdown message disappears, do not disconnect the power cord while the main power indicator [A] is flashing to indicate that the machine is still shutting down.



## 

- Before removing and adjusting electrical boards, do the following procedure. Otherwise, the board can be damaged by the residual charge inside the machine and must be replaced.

1. Take out the power cord after shutdown.
2. Press the power switch for a second to remove the residual charge inside the machine.

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.

## 1-1

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


## Beforehand

## 

- Turn off the main power switch and disconnect the power cord.
- After replacing, make sure that all removed harnesses are connected up again and secured in their clamps.


## Special Tools and Lubricants

The following special tools should be prepared for maintenance of this model in the field.
Unique or Common:
U : Unique for this model
C: Common with listed model

Special Tools

| No. | Part Number | Description | Q'ty | Unique or Common |
| :--- | :--- | :--- | :--- | :--- |
| 1 | A0069104 | Scanner Positioning Pin (4pcs/set) | 1 | C (General) |
| 2 | D1979010 | Adjustment Seal (4pcs/set) - Laser Unit | 1 | U |
| 3 | B6455020 | SD Card (1GB) | 1 | C (General) |
| 4 | C4019503 | 20X Magnification Scope | 1 | C (General) |
| 5 | VSSG9002 | FLUOTRIBO MG GREASE: 100G | 1 | C (General) |
| 6 | A2929500 | Test Chart - S5S(10pcs/set) | 1 | C (General) |

- A PC (Personal Computer) is required for creating the Encryption key file to an SD card when replacing the controller board for a model in which HDD encryption has been enabled.

Lubricants

| No. | Part No. | Description | Q'ty | Unique or Common |
| :--- | :--- | :--- | :--- | :--- |
| 1 | 52039502 | Silicone Grease G-501 | 1 | C (General) |
| 2 | A2579300 | Grease Barrierta - S552R | 1 | C (General) |

## 4.Replacement and Adjustment

## Cover Removal Order

Cover Layouts
Front


| No. |  |
| :--- | :--- |
| 1 | Operation Panel |
| 2 | Scanner Front Cover |
| 3 | Upper Front Cover |
| 4 | Front Cover |
| 5 | 1st Paper Feed Tray |
| 6 | 2nd Paper Feed Tray |
| 7 | Paper Exit Tray |
| 8 | Inner Cover |
| 9 | Laser Unit Cover |
| 10 | Paper Exit Front Cover |
| 11 | Tray Support Rod Cover |
| 12 | Upper Inner Cover |
| 13 | Connector Cover |

Right


| No. |  |
| :--- | :--- |
| 1 | Scanner Right Cover |
| 2 | Right Upper Cover |
| 3 | Right Rear Cover |
| 4 | Right Cover |
| 5 | Bypass Tray |

Left


| No. |  |
| :--- | :--- |
| 1 | Left Upper Cover |
| 2 | Left Cover |
| 3 | Controller Cover |
| 4 | Left Rear Cover |
| 5 | Scanner Left Cover |

## Rear



| No. |  |
| :--- | :--- |
| 1 | Scanner Upper Cover |
| 2 | Rear Cover |
| 3 | Rear Lower Cover |
| 4 | Rear Lower Gap Cover |

## 4.Replacement and Adjustment

## Exterior Covers

## Precautions concerning Stabilizers

The stabilizers [A] 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, 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)

## Front Cover

1. Open the front cover [A].

2. Remove the belt [A], and the front cover.


- The front cover can be removed by sliding it in the direction of the blue arrow.


Controller Cover

1. Remove the controller cover [A].


## Left Upper Cover

## 

- Each part enclosed by a blue circle has a tab. Be careful not to damage it when attaching and detaching.


1. Open the front cover. (Front Cover)
2. Remove the paper exit tray. (Paper Exit Tray)
3. Remove the left upper cover [A]. $(-\times 1)$


- Slide the cover in the direction of the blue arrow.



## Left Rear Cover

1. Remove the left upper cover. (Left Upper Cover)
2. Release the hooks [A], and remove the left rear cover [B].


## Left Cover

## Hir

- Each part enclosed by a blue circle has a tab. Be careful not to damage it when attaching and detaching.


1. Remove the left upper cover. (Left Upper Cover)
2. Remove the controller cover. (Controller Cover)
3. Remove the rear lower gap cover. (Rear Lower Gap Cover)
4. Pull out the 1 st and 2 nd paper feed trays.

## 4.Replacement and Adjustment

5. Remove the left cover [A].


Order to remove


1. Front cover
2. Paper exit tray
3. Left upper cover
4. Controller cover
5. Rear lower gap cover
6. 1st paper feed tray
7. 2nd paper feed tray
8. Left cover

## Rear Cover

Each part enclosed by a blue circle has a tab. Be careful not to damage it when attaching and detaching.


1. Remove the rear cover [A].


## Rear Lower Gap Cover

1. Remove the rear lower gap cover [A]. (hook $\times 2$ )


## Rear Lower Cover

1. Remove the rear cover. (Rear Cover)
2. Remove the rear lower gap cover. (Rear Lower Gap Cover)
3. Remove the rear lower cover [A].


Right Rear Cover

1. Open the right cover.
2. Remove the rear lower gap cover. (Rear Lower Gap Cover)
3. Remove the right rear cover [A].


## Fir

- When installing, insert the projections [A] in the holes [B], taking care not to trap the harness.


Right Upper Cover

1. Remove the upper front cover. (Upper Front Cover)

## 4.Replacement and Adjustment

2. Remove the right upper cover [A] ( $\times 2$ )


Right Cover

1. Open the 1 st paper feed tray $[\mathrm{A}]$, 2nd paper feed tray $[\mathrm{B}]$, and right cover [D].
2. Remove the 1 st paper feed tray right cover [C].

3. Remove the right rear cover. (Right Rear Cover)
4. Remove the rear cover. (Rear Cover)
5. Remove clamps and connectors.

6. Release the right cover arms [A] [B]. $(\times 2)$


## 4.Replacement and Adjustment

7. Slide to the left and remove the right cover [A]. $\left(\begin{array}{l} \\ \times 1)\end{array}\right.$


## Upper Front Cover

1. Open the right cover.
2. Remove the upper front cover [A].


- When removing the upper front cover, release the hooks at the back of the cover.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the upper front cover [A].



## Inverter Tray

1. Remove the inverter tray $[\mathrm{A}]$.


## Paper Exit Tray

1. Remove the paper exit tray [A].


## Paper Exit Cover

1. Remove the upper front cover. (Upper Front Cover)
2. Remove the paper exit tray. (Paper Exit Tray)
3. Remove the inverter tray. (Inverter Tray)
4. Remove the paper exit cover $[\mathrm{A}] .\left(\begin{array}{l} \\ \times 1)\end{array}\right.$


## Paper Exit Lower Cover

1. Remove the left rear cover. (Left Rear Cover)
2. Remove the paper exit cover. (Paper Exit Cover)
3. Remove the connector cover $[\mathrm{A}]$.

4. Remove the paper exit lower cover [A].


## Upper Inner Cover

1. Remove the left upper cover. (Left Upper Cover)
2. Remove the paper exit cover. (Paper Exit Cover)
3. Remove the paper exit lower cover. (Paper Exit Lower Cover)
4. Remove the tray support rod cover [A]. ( ${ }^{(1)} \times 1$ )

5. Remove the fixing screws on the upper inner cover [A].

6. Remove the upper inner cover [A].


Paper Exit Front Cover

1. Remove the paper exit lower cover. (Paper Exit Lower Cover)

## 4.Replacement and Adjustment

2. Remove the paper exit front cover [A].


Inner Cover

1. Remove the front cover. (Front Cover)
2. Open the right cover.
3. Remove the laser unit cover [A].

4. Remove the inner cover [A].


## Toner Supply Housing

1. Pull out the toner bottle.
2. Remove the paper exit lower cover. (Paper Exit Lower Cover)
3. Remove the upper inner cover. (Upper Inner Cover)
4. Remove the development exhaust fan. (Development Exhaust Fan)
5. Remove the duct [A].

6. Remove the brackets [A] and [B].


## 4.Replacement and Adjustment

7. Remove the screws on the toner supply housing $[\mathrm{A}]$.

8. Remove the toner supply housing [A].


## Smart Operation Panel

This section explains how to remove the Smart Operation Panel from the machine. For details about disassembling the Smart Operation Panel, See the service manual for Smart Operation Panel 2nd Generation.

## Operation Panel Unit

1. Remove the scanner front cover. (Scanner Front Cover)
2. Holding down both the sides of the operation panel upper cover [A], unhook the tabs (indicated by blue circles) and remove the cover.

3. Remove the operation panel [A].

4. Open the platen cover or ADF.
5. Spread a cloth or service mat [A] on the exposure glass to protect the display. Place the operation panel on

## 4.Replacement and Adjustment

the exposure glass so that the display faces down.

6. Remove the rear center cover [A].

7. Disconnect the connectors.

8. Remove the left small cover [A] and right small cover [B].

9. Release the hooks, and remove the right hinge cover [A]. (Hook x 2)

10. Remove the left hinge cover [A] and right cover $[\mathrm{B}]$.

11. Remove the hinges $[\mathrm{A}][\mathrm{B}]$.


## USB Cable / Harness

1. Remove the rear cover. (Rear Cover)
2. Remove the scanner upper cover. (Scanner Upper Cover)
3. Remove the controller box cover. (Controller Box Cover)
4. Disconnect the USB cable [A].

5. Remove the harness [A].

6. Remove the clamps on the cables above the controller box.

7. Remove the clamps on the cables under the scanner unit.


When removing a clamp, insert a long flathead screwdriver or such a tool from the side to remove it.


## 5

- The cable has a set of 2 cable ties [A]. When attaching the cable, position the clamp outside the two cable ties.



## ADF

## ADF Removal

1. Remove the rear cover.
2. Remove the controller box cover (for SPDF DF3100 only)(Controller Box Cover).
3. Remove the connector.

SPDF DF3100


ARDF DF3090

4. Remove the bracket $[\mathrm{A}]$.

## SPDF DF3100



ARDF DF3090

5. Remove the screws on the ADF base.

## SPDF DF3100



## 4.Replacement and Adjustment

## ARDF DF3090


6. Slowly and carefully (the ADF is heavy) lift the ADF [A] off the machine.
7. Set the ADF on its edge on the floor, and then lean it against a wall [B].


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- To prevent damage to the fragile feelers [A] of the ADF position sensor, never lay the ADF on a flat surface as shown below.

- If the SPDF DF3100 is being replaced, do SP4-730-002 after the new SPDF has been installed.


## SP descriptions

- SP4-730-002 (FROM Main Factory Setting Execution ON/OFF)

Copies the parameters written in FROM in the SPDF to the engine board in the MFP. This SP is only for the SPDF models.

SPDF DF3100

## Scanner Unit

## Before You Begin

There is no SIO (Scanner Interface Board) in this machine. The functions of the SIO of the previous machine are controlled by the IPU. Harnesses of the scanner unit connect directly to the IPU in the controller box on the back of the machine.


## Scanner Exterior

Scanner Front Cover

1. Open the ARDF or platen cover.
2. Remove the scanner front cover [A].


- There are a tab and bosses inside the cover. Be careful not to damage them when attaching and


## 4.Replacement and Adjustment

detaching.


Scanner Right Cover

1. Remove the rear cover. (Rear Cover)
2. Remove the scanner right cover [A].


Scanner Left Cover

1. Remove the scanner front cover. (Scanner Front Cover)
2. Remove the scanner left cover [A]. ( $\quad \times 3$ )

3. Remove the rear cover. (Rear Cover)
4. Remove the scanner right cover. (Scanner Right Cover)
5. Remove the scanner left cover. (Scanner Left Cover)
6. Remove the platen cover or ADF.
7. Remove the scanner upper cover [A].


## Exposure Glass

1. Open the platen cover or ADF.
2. Remove the scanner front cover. (Scanner Front Cover)
3. Remove the scanner right cover. (Scanner Right Cover)
4. Remove the guide scale [A].


## 4.Replacement and Adjustment

5. Remove the ADF exposure glass [A]

6. Remove the rear scale [A]

7. Remove the left scale and exposure glass [A].


- The exposure glass and the left scale are attached with double-sided tape.

- When installing, please follow the points below:
- The red mark [A] of the ADF exposure glass must be on the left at the rear of the operation panel.
- The locating holes of the left scale must fit over the locating bosses of the front/rear frame.



## Scanner Carriage

1. Remove the exposure glass. (Exposure Glass)
2. Remove the scanner front cover. (Scanner Front Cover)
3. Remove the scanner carriage front cover [A].

4. Move the scanner carriage [A] to the indicated position as shown below.


## 4.Replacement and Adjustment

5. Loosen the screw, remove the spring [A], and then remove the belt [B].

6. Turn the scanner carriage over to the other side and place it on the frame [A].


- When holding the scanner carriage, be careful not to touch the circuit board [A], lens [B], and mirror [C].


7. Remove the belt [A].

8. Lower the lock lever [A] and disconnect the FFC [B].

9. Remove the ferrite core [A] and the mylar [B]. (Hook x 4)

10. Remove the scanner carriage.


## 518

- When attaching the scanner carriage, hold the carriage with the screw [A] loosened, and move the carriage back and forth to the sides twice to have the belt stretch evenly. Then, fasten the screw


## [A].



## F9

- After replacing the scanner carriage, enter the values supplied with the carriage in the following SPs:
- SP4-871-002 (Distortion Correction Distortion Initialization)
- SP4-880-001 (Dot shift amount between R Line and G Line).
- SP4-880-002 (Dot shift amount between G Line and B Line).

To apply the specified settings, turn the power off and then back on.
The specified values are cleared when the NVRAM is initialized, so be sure to keep the supplied sheet showing the values in the machine.

Cleaning the scanner carriage mirror

1. Remove the exposure glass. (Exposure Glass)
2. Remove the scanner carriage front cover [A].

3. Move the scanner carriage $[\mathrm{A}]$ to the indicated position as shown.

4. Remove the resin cover [A]. (Hook x 3)

5. Open the metal cover [A].


## 4.Replacement and Adjustment

6. Wipe clean the mirror with a dry cloth.


## Primbler

- When reattaching the metal cover [A], fasten the screws in the order of " 1 ", " 2 ", and " 3 ".

- When attaching the resin cover, insert its tip under the metal frame.



## Scanner Motor

1. Remove the scanner upper cover. (Scanner Upper Cover)
2. Remove the rear cover. (Rear Cover)
3. Remove the grounding plate [A].

4. Remove the spring [A].

5. Remove the scanner motor unit $[\mathrm{A}]$.

6. Remove the scanner motor [A].


Original Size Sensors (APS)

1. Remove the exposure glass (Exposure Glass)
2. Remove the original size sensor harness cover $[\mathrm{A}]$.

3. Remove the original size sensors [A]. (Hook x 2)


## Scanner HP Sensor

1. Remove the ADF or platen cover.
2. Remove the exposure glass (Exposure Glass)
3. Slide the scanner carriage $[\mathrm{A}]$ in the direction of the arrow.


4n+in
4. Remove the scanner HP sensor [A].


## ARDF/Platen Cover Sensor

1. Remove the scanner upper cover. (Scanner Upper Cover)
2. Remove the ARDF/Platen cover sensor [A].


## Scanner FFC

1. Remove the exposure glass. (Exposure Glass)
2. Remove the FFC from the scanner carriage. (Scanner Carriage)

## 4.Replacement and Adjustment

3. Remove the original size sensor harness cover [A].

4. Remove the double-sided tape.


When reattaching the same part, apply a double-sided tape again.
5. Remove the rear cover. (Rear Cover)
6. Remove the controller box cover. (Controller Box Cover)
7. While pressing the lock release lever, pull out the FFC [A].


When Changing the FFC
When changing the FFC, attach the Mylar [A] to the new FFC.


When attaching the Mylar, follow the steps below.

1. Feed the FFC through the ferrite core [A].

2. Connect the FFC to the scanner carriage's connector, and then lift the lever [A] to lock it.

3. Attach the Mylar [A] to the FFC from above, and then insert the tabs at both ends of the Mylar into the gaps

## 4.Replacement and Adjustment

in the FFC holder to secure it in position.



When applying the Mylar, do not stretch the FFC.
Applying the Mylar while stretching the FFC causes the circuit board to be deformed.


Modifying the Scanner (Contact/Contactless) when Using the ARDF
Procedure for the ADF

1. Remove the ADF front cover $[\mathrm{A}]\left({ }^{-} \times 1\right)$


- Remove with the document table lifted up.


2. Remove the document reader guide plate $[\mathrm{A}] .\left(\begin{array}{|l|} \\ \times 1)\end{array}\right.$

3. Replace the contactless guide plate (front) $[\mathrm{A}]$ with the contact guide plate (front) $[\mathrm{B}] .(\times 1)$.

There is a hole in the contact guide plate (front).

## 4.Replacement and Adjustment


4. Replace the contactless guide plate (rear) [A] with the contact guide plate (rear) [B].

There is a hole in the contact guide plate (rear).


HH1H
5. Attach the document reader guide plate. Be careful not to scratch the sheet [A].

6. Attach the ADF front cover, and return the ADF to its original position.
7. Enter SP mode, and then change the DF density setting (SP4-688-001) from [102\%] to [97\%].

1. Remove the exposure glass, and peel off the black sheet $[\mathrm{A}]$.

2. Wipe the exposure glass with general alcohol glass cleaner so that no glue remains from the double-sided tape.

## 

- Remember that if any glue remains, it will cause a paper jam in the ADF.


## Modifying the Scanner (Contact/Contactless) when Using the SPDF

When changing from contactless to contact original feed, some parts of the ADF and scanner must be replaced.
Procedure for the SPDF

1. Open the SPDF.
2. Remove the lower entrance guide unit $[\mathrm{A}]$. $\left({ }^{-1} \times 2\right)$


- The part below the contactless lower entrance guide unit is black [A].
- The part below the contact lower entrance guide unit is colorless and transparent [B].


## 4.Replacement and Adjustment


3. Remove the document reader guide plate $[\mathrm{A}]$. $\left(\begin{array}{l}\text { (1 }\end{array} \times 1\right)$


## 

- The part below the contactless document reader guide plate is gray [A].
- The part below the contact document reader guide plate is white [B].


4. Attach the contact document reader guide plate [A].
5. Attach the contact lower entrance guide unit [B]. ( $\quad \times 2$ )

6. Enter SP mode, and then change the Scan Image Density Adjustment (SP4-688-002) from [103] to [96].

## Procedure for the Scanner

1. Remove the exposure glass. (Exposure Glass)
2. Peel off the gap sheet (black) [A] from the sheet-through glass [B].

3. Wipe the exposure glass with general alcohol glass cleaner, so that no glue remains from the double-sided tape.


- Remember that if any glue remains, it will cause a paper jam in the ADF.


## Laser Unit

## 

- Turn off the main power switch and unplug the machine before beginning any of the procedures in this section. Laser beams can cause serious eye injury.


## Caution Decal Location

Caution decals are placed as shown below.


## 

- Be sure to turn off the main power switch and disconnect the power plug from the power outlet before beginning any disassembly or adjustment of the laser unit. This copier uses a class IIIb laser beam with a wavelength of 660 nm and an output of 17 mW . The laser can cause serious eye injury.


## Laser Unit

Removing the Laser Unit

1. Open the front cover.
2. Remove the laser unit cover [A]. ( x 1 )

3. Release the stopper [A].

4. Pull out the laser unit $[\mathrm{A}] .(\mathrm{x} 3)$


Installing a New Laser Unit

1. Replace the laser unit with a new laser unit.
2. Insert the new laser unit [A] halfway.


## 4.Replacement and Adjustment

3. Connect three harnesses to the new laser unit $\left(l^{-1 / r} x\right)$.

4. Insert the new laser unit along the guide frame [A]. H1~

- Make sure that the new laser unit claws fit into two mainframe claws as shown below.


## Mainframe Claws



## Laser Unit Claws


5. Set the laser unit with the stopper [A].

- Use a screw driver to pry in the stopper.


6. Attach the laser unit cover $[\mathrm{A}](\mathrm{x} 1)$.


## After Installing the New Laser Unit

Download new data stored in a new laser unit to the mainframe.

1. Close the front cover.
2. Plug in and turn on the main power switch.
3. Enter the SP mode.
4. Download the new data stored in the new laser unit to the mainframe with SP2-110-005.


- If the error message indicating the failure of the data download appears, execute SP2-110-005 again.
- If this step is not correctly done, an image problem may occur on printouts.

5. Perform image adjustments if needed (ADF Image Adjustment).

Quenching Lamp

1. Remove the PCDU. (PCDU)
2. Remove the quenching lamp [A].


## PCL (Pre Cleaning Light)

1. Remove the PCDU. (PCDU)
2. Remove the fusing unit. (Fusing Unit)
3. Remove the PCL [A].


## PCDU

## Hex

- To prevent damage from toner spillage during the PCDU removal, be sure to place a ground cloth on the floor.
- To prevent damage from excess light, wrap the OPC drum with protective paper and store the OPC drum in a cool dark place.
- Do not touch the OPC drum, cleaning blade, or any seals or tapes.
- Do not use any alcohols or solvents to clean the OPC drum; Be sure to wipe with a dry cloth. If excess dirt exists, first wipe with a damp cloth, and next wipe off completely with a dry cloth.
- Do not rotate the OPC drum clockwise after the PCDU has been installed.


## PCDU

- If you install a complete new PCDU, you do not need to perform SP 3-701. This is because the machine detects a new unit automatically when you cycle the main power off/on, and performs the initial adjustment automatically.

1. Open the front cover.
2. Open the right cover.
3. Tilt the transfer unit [A].

4. Remove the PCDU [A].


## 4.Replacement and Adjustment

## 

- Carefully and slowly pull out the PCDU without tilting, to prevent toner spillage.

- When installing the PCDU, push the PCDU into the machine while screwing it in, as shown below, and then secure the PCDU. If the PCDU is not installed straight, the transfer roller contact and release mechanism does not work properly and dirt may appear on the 2 nd side of outputs.



## PCU/Development Unit

Before Replacing the PCU or Development Unit

## F1

- Before replacing the PCU, set SP3-701-002 (Manual New Unit Set: PCU) to " 1 " and turn off the main power switch. After replacing the PCU, turn on the main power.
- Before replacing the development unit, set SP3-701-023 (Manual New Unit Set: Development Unit) to " 1 " and turn off the main power switch. After replacing the development unit, turn on the main power.

Replacement Procedure

1. Remove the PCDU. (PCDU)
2. Remove the face plates $[\mathrm{A}][\mathrm{B}]$. ( -x 4, , x 1 )

3. Split the assembly into the PCU [A] and development unit [B].


## Notes When Installing the Face Plates

When installing the face plates, check the fitting points as shown below.
[A]: The bearing of the face plate fits the OPC drum.
[B]: The bearing of the face plate fits the bearing of the development roller.

## Face plate for front side



## Face plate for rear side

## 4.Replacement and Adjustment



Installing a PCU

1. Disassemble the PCDU into PCU and development unit (PCU/Development Unit).
2. Replace the used PCU with a new one.
3. Reassemble the PCDU.

Installing a Development Unit

1. Disassemble the PCDU into PCU and development unit (PCU/Development Unit).
2. Replace the used development unit with a new one.
3. Reassemble the PCDU.
4. Pull out the heat seal [A].

5. Remove the cap [A].


- Attach the removed cap to the used development unit.


## OPC Drum

- Before replacing the OPC drum, set SP3-701-021 to " 1 " and turn off the main power switch.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the OPC drum, turn on the main power on.

1. Remove the PCU. (PCU/Development Unit)
2. Remove the stopper [A] for the PCU.

3. Pull out the OPC drum [A].


## Charge Roller, Cleaning Roller

- Before replacing these rollers, set SP3-701-018 for the charge roller and/or SP3-701-019 for the cleaning roller to " 1 " and turn the main power switch OFF.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the rollers, turn the main power switch ON.

1. Remove the PCU. (PCU/Development Unit)
2. Remove the OPC drum. (OPC Drum)
3. Remove the charge roller and cleaning roller $[\mathrm{A}]$ with its bearing.

4. Split the assembly into the charge roller $[\mathrm{A}]$ and cleaning roller $[\mathrm{B}]$.


## Pick-off Pawls

- Before replacing the pick-off pawls, set SP3-701-022 to " 1 " and turn off the main power switch.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the pick-off pawls, turn on the main power on.

1. Remove the PCU. (PCU/Development Unit)
2. Remove the pick-off pawls [A].


- Use a screw driver to pry away the tabs of the pick-off pawl. If the pick-off pawl has marked the
drum with a line, the pick-off pawl position can be moved from 1 to 2.



## Cleaning Blade

- Before replacing the cleaning blade, set SP3-701-009 to " 1 " and turn the main power switch OFF.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the cleaning blade, turn the main power switch ON.

1. Remove the PCU. (PCU/Development Unit)
2. Remove the OPC drum. (OPC Drum)
3. Remove the charge roller and cleaning roller. (Charge Roller, Cleaning Roller)
4. Remove the cleaning blade [A]. ( x 2 )


- The cleaning blade [A] has two different types of holes: a circle ( $\quad$ ), and an oval ( $\quad$ ). Remove
the screw on the circle side first, and then, remove the oval side.



## Developer

## 4-

- These sheets used in steps 6,11 , and 12 are not provided as accessories; please do not forget to order them with the developer.



## 

- Before replacing the developer, set SP3-701-024 to " 1 " and turn the main power switch OFF.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the developer, turn the main power switch ON.


## 

- If you replace developer together with the development filters, first replace the developer, then replace the filters.

1. Remove the development unit. (PCU/Development Unit)
2. Remove the bearing (front) [A]. (E-ring x1)

3. Pull the shaft toward the blue arrow shown below, then remove the pin $[A]$ and the gear $[B]$.

4. Remove the gear [A]. ( x 1 )

5. Remove the bearing (rear) [A].


## 4.Replacement and Adjustment

6. Remove the development side seal and development case entrance seal [A] at each end.

7. Lift up the development sleeve unit [A].


## 



- Do not touch or hold the development sleeve edge [A] when holding the sleeve unit. Otherwise, it may cause an injury.

8. Remove the developer after turning the development unit upside down in the reverse direction of the development filter.
1

- Rotate the gear to remove as much toner as you can.


9. Stand the development unit up, and add new developer evenly across the width of the development unit while rotating the gear.

10. Reassemble the development sleeve unit, gear and bearing.


- The sheets for the development sleeve unit [A] must be under the sheets [B] for the development unit.



## 4.Replacement and Adjustment


11. Wipe off the areas [A] indicated by the red-dashed line and paste new development case entrance seals to cover the blue-circled position.

- These seals are part of the development seal set, which must be ordered together with the new developer.

- The seal [A] for the front side is not the same shape as the one [B] for the rear side, as shown below. Be careful when you paste them.


12. Paste the new development side seals [A] on the face of the development sleeve unit as shown below.

- These seals are part of the development seal set, which must be ordered together with the new


## developer.


13. Reassemble the PCU and development unit.
14. Turn on the main power switch.

The machine detects the new developer and starts the initial adjustment.

## Development Filters

## 

- Before replacing the development filters, set SP3-701-025 to "1" and turn the main power switch OFF.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the development filters, turn the main power switch ON.


## 

- If you replace the development filter together with developer, first replace the developer, then replace the filters.

1. Remove the development unit. (PCU/Development Unit)

## 4.Replacement and Adjustment

2. Remove the development filters [A].


## TD Sensor

1. Remove the development unit. (PCU/Development Unit)
2. Remove the TD sensor cover [A].


- Use a screw driver to release the $\operatorname{tab}(\mathrm{s})$ of the cover.


3. Remove the TD sensor [A]. ( x 1$)$


## Development Mixing Auger Bearings

- Before replacing the development mixing auger bearings, set SP3-701-028 to " 1 " and turn the main
power switch OFF.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the development mixing auger bearings, turn the main power switch ON.

1. Remove the development unit. (PCU/Development Unit)
2. Pull the shaft toward you, and then pull out the pin [A] and remove the gear [B].

3. Remove the gears $[\mathrm{A}][\mathrm{B}]$. ( x ( , E-ring x 1 )

4. Remove the two development mixing auger bearings [A] (E-ring x1).


## 4.Replacement and Adjustment

5. Remove the gears $[\mathrm{A}][\mathrm{B}][\mathrm{C}]$. (E-ring x 2 )

6. Remove the two development mixing auger bearings [A].


## Firlo

- The development mixing auger bearings are D-shaped. Make sure that you install them in the orientation exactly as shown above.

Development Mixing Auger (L / R)

## H1

- [A]: Development Mixing Auger (L)
- [B]: Development Mixing Auger (R)


1. Remove the development unit. (PCU/Development Unit)
2. Remove the developer. (Developer)
3. Remove the development mixing auger bearings. (Development Mixing Auger Bearings)
4. Remove the development mixing auger (L) $[\mathrm{A}]$.

5. Remove the development mixing auger $(\mathrm{R})[\mathrm{A}]$.


## FHil

- Each auger is different; please make sure that the augers are attached correctly.
- [A]: Development Mixing Auger (L)
- [B]: Development Mixing Auger (R)



## Waste Toner

## Waste Toner Bottle

## Before Replacing the Waste Toner Bottle

When the bottle is replaced after the machine detects that the waste toner bottle is full and stops, the counter for the Waste Toner Bottle is reset automatically.
When the bottle is replaced before the machine stops due to a full bottle, it is necessary to reset the PM counter manually (set SP3-701-142 to "1" before replacing the bottle, then switch the power off).

## SP3-701 (Manual New Unit Set)

This SP is the new unit detection flag.
0 : new unit detection flag OFF, 1 : new unit detection flag ON

| Item |  |
| :--- | :--- |
| Waste toner bottle | SP3-701-142 |

1. Open the front cover.
2. Pull out the waste toner bottle [A] ( $\times 1, \times 1$.


## 1F

- There is no waste toner bottle set switch. If you remove the waste toner bottle, be sure to replace it before you finish work on the machine.


## Toner Collection Full Sensor

1. Remove the waste toner bottle. (Waste Toner Bottle)
2. Remove the toner collection full sensor $[\mathrm{A}] .\left(\mathrm{H}^{-1} \times 1\right)$


## Recycling Shutter

1. Remove the waste toner bottle. (Waste Toner Bottle)
2. Remove the PCDU. (PCDU)
3. Remove the controller box. (Controller Box)
4. Remove the duct [A].


- Remove the Development Bearing Cooling Fan along with the duct (for MP 4055 SP/MP 5055 SP/MP 6055 SP only).


5. Remove the connectors.


## 4.Replacement and Adjustment

6. Remove the motor unit [A].

7. Remove the recycling shutter bracket [A]. ( $\times 4$ )


1

- Spread paper on the floor to catch possible toner spills.

8. Remove the bracket $[\mathrm{A}](\times 4)$.

9. Remove the two pulleys $[\mathrm{A}][\mathrm{B}]$ and the belt $[\mathrm{C}]$. $(\times 1)$

10. Remove the bracket $[\mathrm{A}] .(\times 2, \times 1$, bearing $\times 1)$


- Place a sheet of paper underneath the bracket, and then put the bracket on the sheet. Otherwise, the grease applied to the gear in the bracket may adhere to the floor.

11. Remove the recycling shutter unit $[\mathrm{A}]$. $(\times 3$, Gear $\times 1)$


## 4

- Place a sheet of paper underneath the recycling shutter unit, and then put the recycling shutter unit on the sheet. Otherwise, the grease applied to the gear in the unit may adhere to the floor.


## Transfer Unit

## Transfer Unit

1. Open the right cover.
2. Close the transfer unit $[\mathrm{A}]$.

3. Remove the clip of the transfer unit $[\mathrm{A}]$ and disconnect the connector. $\left({ }^{-1} \times 1,4 \times 1\right)$

4. Slide the bearing in the blue arrow direction to release it from the frame of the main machine.

5. Open the transfer unit [A].

6. Release the arm of the transfer unit $[\mathrm{A}](\times 1)$.

7. Remove the transfer unit [A].


## Transfer Roller Unit

- Before replacing the transfer roller unit, set SP3-701-108 to " 1 " and turn off the main power switch.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the transfer roller unit, turn on the main power on.

1. Open the right cover.

## 4.Replacement and Adjustment

2. Release the claws of the transfer roller unit [A].

3. Remove the transfer roller unit $[\mathrm{A}]$.


## ID Sensor

Before Replacing the ID Sensor


- You must take note of the original value of SP3-331-061 to prepare for the possibility that the process control after replacement will not be done properly.
A QR-code is pasted on the sensor head of an ID sensor, which includes the characteristic value for the sensor. This characteristic value must be input into SP3-331-061 before replacing the ID sensor.

1. Take a note of the characteristic value on the new ID sensor (surrounded by a red dashed line in the following
photo).

2. Turn the main power ON and enter SP mode.
3. Input the characteristic value into SP3-331-061.

Replacement Procedure

1. Open the right cover.
2. Remove the ID sensor [A]. $(\times 1, \times 1)$


## Transfer Unit Open/Closed LED

1. Open the right cover.
2. Remove the guide plate $[\mathrm{A}] .\left({ }^{( } \times 2\right)$


## 4.Replacement and Adjustment

3. Remove the LED cover [A]. $(-\times 1)$

4. Remove the transfer unit open/closed LED [A]. $\left({ }^{-1)} \times 1\right)$


Temperature/Humidity Sensor

1. Pull out the 1 st and 2 nd paper feed trays.
2. Remove the right lower cover [A].

3. Inserting a driver through the frame hole, remove the screw of the temperature/humidity sensor.

4. Remove the temperature/humidity sensor [A].


Fusing Entrance Sensor

1. Open the right cover.
2. Remove the fusing entrance sensor [A] with bracket. ( ${ }^{-1} \times 1$ )


## 4.Replacement and Adjustment

3. Remove the fusing entrance sensor [A]. $(\times 1)$


## Transfer Unit Open/Closed Sensor

1. Open the right cover.
2. Remove the transfer unit open/closed sensor [A]. ( $\times 1$, hooks)


## Drive Unit

Drum/Waste Toner Motor

1. Remove the rear cover. (Rear Cover)
2. Remove the drum/waste toner motor [A].


## Development Motor

1. Remove the rear cover. (Rear Cover)
2. Remove the development motor [A].


Fusing/Paper Exit Motor (MP 2555 SP/3055 SP/3555 SP Only)

1. Remove the rear cover. (Rear Cover)

## 4.Replacement and Adjustment

2. Remove the fusing/paper exit motor [A].


Fusing Motor (MP 4055 SP/5055 SP/6055 SP Only)

1. Remove the rear cover. (Rear Cover)
2. Remove the fusing motor [A].


Paper Exit Motor (MP 4055 SP/5055 SP/6055 SP Only)

1. Remove the rear cover. (Rear Cover)
2. Remove the paper exit motor [A].


## Registration Motor

1. Remove the rear cover. (Rear Cover)
2. Remove the registration motor $[\mathrm{A}]$.


Paper Feed Motor

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the paper feed motor [A].


## Vertical Transport Motor

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the vertical transport motor [A].


## Transfer Roller Contact Motor

1. Remove the front cover. (Front Cover)
2. Remove the inner cover. (Inner Cover)
3. Remove the transfer roller contact motor [A]. $\left({ }^{(1-} \times 3, \times 2\right)$


## Toner Hopper

1. Pull out the toner bottle.
2. Remove the paper exit lower cover. (Paper Exit Lower Cover)
3. Remove the upper inner cover. (Upper Inner Cover)
4. Remove the development exhaust fan. (Development Exhaust Fan)
5. Remove the toner supply housing. (Toner Supply Housing)
6. Remove the controller box. (Controller Box)
7. Remove the screws on the toner hopper [A]. ( $\times 3$ )

8. Remove the gear [B] on the gearbox [A]. $(\times 1)$

9. Remove the screws and tab on the gearbox [A]. ( $\quad \times 3, \operatorname{tab} \times 1$ )

10. Remove the toner hopper [A].



- Toner remains in the toner hopper [A]. Be sure to place the toner hopper on a sheet of paper to


## 4.Replacement and Adjustment

protect against toner spillage.


- Attach the toner supply pipe [A] before installing the gear box and toner hopper.
- Fit the hole of the supply pipe to the pin [B] and then stabilize the pipe ( $\quad \mathrm{x} 1$ ).



Toner Supply Motor

1. Remove the toner hopper. (Toner Hopper)
2. Remove the screws and connector on the gearbox [A]. $(\times 3,+\times 1)$


3. Remove the gear [A] and part [B] from the gear box cover [C].


## 

- Make sure that the angle of the part $[\mathrm{B}]$ is as shown below when attaching the part $[\mathrm{B}]$ to the gear box cover.



## 4.Replacement and Adjustment

4. Remove the gear box cover $[\mathrm{A}]$.

5. Remove the toner supply motor $[\mathrm{B}]$ with its spacer from the gear box cover $[\mathrm{A}]$. $(\mathbb{} \times 2)$

6. Remove the spacer $[\mathrm{B}]$ from the toner supply motor $[\mathrm{A}]$.


## Fusing Unit

## Fusing Unit

Replacement

## 

- In 100 V models, only one of the AC lines for the fusing unit is shut off when you turn off the main power; the other line carries current even when you turn off the main power switch. Because of this, turn off the main power switch, and also always pull out the AC power cord from the wall socket before doing replacement.
- Because there is a danger of burns on contact with hot parts of the fusing unit, start work when the temperature drops to a low enough temperature.
- To clear SC544-02 or SC554-02, replace the fusing unit or install a fuse (provided in the heating sleeve belt unit) in the fusing unit. If you will install a new fusing unit, follow the procedure below to clear SC544-02 or SC554-02.

1. Install a new fusing unit.
2. Clear SC544-02 or SC554-02 with SP5-810-002
3. Turn the machine off and on.

- MP 2555 SP/3055 SP/3555 SP

When the fusing unit is used past its PM cycle, the fusing unit may break, causing a service call. Therefore, the machine displays a warning on the operation panel at 240 K pages and stops at 260 K pages.

- MP 4055 SP/5055 SP/6055 SP

When the fusing unit is used past its PM cycle, the fusing unit may break, causing a service call. Therefore, the machine displays a warning on the operation panel at 320 K pages and stops at 350 K pages.

## 

- If you replace a whole fusing unit, you do not need to perform SP3-701. This is because the machine detects a new unit automatically. If you replace only a part of the fusing unit, however, such as the pressure roller, you must set SP3-701 for that part.

1. Open the right cover.
2. Remove the screws on the fusing unit [A] and disconnect the connectors ( x 2 , $\boldsymbol{\|} \mathrm{x}$ ).

- Do not pull out the fusing unit now. The fusing unit is still connected to the machine.


## 4.Replacement and Adjustment



- When disconnecting the harness, hold the connector as shown below in order to avoid breaking the connector pins.


3. Remove the fusing unit connector cover [A].


- Attach the fusing unit connector cover by fitting the space on the connector cover [A] (surrounded
by red dashes in the diagram) and the frame of the fusing unit [B] together when installing.

- The connector cover must be attached before screwing in the fusing unit.

4. Remove the connector [A]. ( x 1 )

rin
5. Pull out the fusing unit $[\mathrm{A}]$.


## 1

- When installing the fusing unit, attach the rear screw first, then attach the front screw.


## 4.Replacement and Adjustment

## Fusing Entrance Guide Plate

1. Remove the fusing unit. (Fusing Unit)
2. Remove the fusing entrance guide plate [A]. ( x 3 )


Cleaning the Fusing Entrance Guide Plate
Carefully remove toner adhering as shown in the diagram below with a dry cloth. Then, wipe with a cloth moistened with alcohol.


## Fusing Exit Guide Plate

1. Remove the fusing unit. (Fusing Unit)
2. Open the fusing exit guide plate $[\mathrm{A}]$.


- Wipe clean with a dry cloth. Then wipe clean with a cloth dampened with alcohol.


## Fusing Upper Cover

1. Remove the fusing unit. (Fusing Unit)
2. Release the two harnesses [A].

3. Remove the connector [A] while holding its sides. ( -x 1 )

4. Remove the fusing upper cover $[A]$. ( $\quad \mathrm{x} 4$ )


- You must route the harnesses for the pressure roller temperature sensor and the fusing roller temperature sensor correctly when reassembling the fusing unit. See the notes when reassembling the fusing unit. (Notes When Reassembling the Fusing Unit)


## Fusing Lower Cover

1. Remove the fusing unit. (Fusing Unit)
2. Remove a screw of the grounding wire [A]. ( x 1 )

3. Remove the fusing lower cover [A]. ( $\quad \mathrm{x} 1, \mathrm{x} 5)$


- The grounding plate [A] is uncovered after the fusing lower cover is removed. Be careful not to damage it. ( x 1 )

- You must route the harnesses for the pressure roller temperature sensor and the fusing roller temperature sensor correctly when reassembling the fusing unit. See the notes when reassembling the fusing unit. (Notes When Reassembling the Fusing Unit)


## Heating Sleeve Belt Unit

## 

- Set SP3-701-116 to " 1 " and turn the main power OFF before replacing.
- If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.
- After replacing the unit, turn the main power ON.


## 

- To clear SC544-02 or SC554-02, replace the fusing unit or install a fuse (provided in the heating sleeve belt unit) in the fusing unit.
- When clearing SC544-02 or SC554-02 by installing a fuse (provided in the heating sleeve belt unit) in the fusing unit, see To Clear SC544-02 or SC554-02.
- The new unit detection fuse packed with the heating sleeve belt unit is used to cancel SC544-02/554-02. Discard the fuse if these SCs did not occur.
- When replacing the heating sleeve belt unit at EM replacement, installing a fuse is not necessary. Do not use the fuse for EM replacement.

Replacement

1. Remove the fusing upper cover. (Fusing Upper Cover)
2. Remove the fusing lower cover. (Fusing Lower Cover)
3. Remove the two pressure springs. ( $=\mathrm{m}$ ( x )


## 4.Replacement and Adjustment

4. Remove the screws from left and right frames. ( x 2 for each frame)

5. Remove the heating sleeve belt unit $[\mathrm{A}]$.


To Clear SC544-02 or SC554-02

## MCHFOH

- To clear SC544-02 or SC554-02, attach the new unit detection fuse provided with the heating sleeve belt unit or replace the fusing unit.

1. Prepare a new fuse provided with the heating sleeve belt unit.

2. Connect the fuse pins into the fusing unit connector.

3. Route the harness of the fuse through the slits (indicated by arrows).
4. Install the fuse in the notch (indicated by a blue circle).

5. Reassemble the fusing unit.
6. Install the fusing unit in the machine.
7. Enter the SP mode, and then clear SC544-02 or SC554-02 with SP5-810-002.
8. Turn the machine off and on.

## Pressure Roller and Pressure Roller Bearings

Adjustment before Replacing the Pressure Roller and Pressure Roller Bearings
Before replacing the pressure roller, set SP3-701-118 to "1" and switch the power OFF. Then replace the pressure roller and turn the main power ON.

Before replacing the pressure roller bearings, set SP3-701-119 to " 1 " and turn the main power OFF. Then replace the pressure roller bearings and turn the main power ON.
If you have to turn the power on again before replacing the part, execute the SP again before replacing the part.

Replacement

1. Remove the heating sleeve belt unit. (Heating Sleeve Belt Unit)

## 4.Replacement and Adjustment

2. Remove the pressure roller gear [A]. (C-ring x1)

3. Remove the pressure roller rear bearing [A].

4. Remove the pressure roller front bearing [A]. (C-ring x1)

5. Remove the pressure roller [A].


## Thermostat Unit

1. Remove the fusing unit. (Fusing Unit)
2. Remove the thermostats [A]. ( x 2 for each thermostat)


## Fusing Roller Temperature Sensors

1. Remove the fusing lower cover. (Fusing Lower Cover)
2. Remove the fusing roller temperature sensors [A].


## Pressure Roller Temperature Sensors

1. Remove the fusing lower cover. (Fusing Lower Cover)
2. Remove the pressure roller temperature sensors. ( x 1 , for each)


## Fusing Thermopiles

1. Remove the fusing unit. (Fusing Unit)
2. Remove the fusing thermopile unit $[\mathrm{A}]$. ( x 2 )

3. Remove the fusing thermopiles [A]. ( $\mathrm{x} 2, \mathrm{x} 2$ )


## Notes When Reassembling the Fusing Unit

Route the harnesses for the pressure roller temperature sensor $[A]$ and the fusing roller temperature sensor $[B]$ correctly when reassembling the fusing unit.
Harness [A] for the pressure roller temperature sensor has black and white wires. Routing starts from the bottom of the fusing unit, then the rear, and to the side.

Harness [B] for the fusing roller temperature sensor has black, white, and blue wires. Routing starts from the bottom of the fusing unit, then the rear, and to the top.

Harness route: when looking at the bottom of the fusing unit


Harness route: when looking at the side of the fusing unit


## 4.Replacement and Adjustment

## Paper Exit

Paper Exit Unit

1. Open the right cover.
2. Remove the fusing unit. (Fusing Unit)
3. Remove the inner cover [A].

4. Remove the paper exit cover. (Paper Exit Cover)
5. Remove the paper exit unit [A].


## Paper Exit Switching Solenoid

1. Remove the paper exit unit. (Paper Exit Unit)
2. Remove the paper exit switching solenoid [A].


## Paper Exit Sensor

1. Remove the paper exit unit. (Paper Exit Unit)
2. Remove the feeler $[\mathrm{A}]$.

3. Remove the paper exit sensor with bracket [A].

4. Remove the paper exit sensor [A].


Reverse Sensor

1. Remove the paper exit unit. (Paper Exit Unit)

## 4.Replacement and Adjustment

2. Remove the reverse sensor [A].


When attaching the reverse sensor, if you screw too tightly in the direction of the blue arrow, it may cause the gap between the guide plates [A] to be too narrow, resulting in paper jams. Make sure that there is a gap [A] of 3 mm or more after you fasten the screw.


Paper Exit Full Sensor

1. Remove the paper exit unit. (Paper Exit Unit)
2. Remove the paper exit full sensor with bracket [A].

3. Remove the paper exit full sensor [A].


## Reverse Motor

1. Remove the paper exit unit. (Paper Exit Unit)
2. Remove the gear [A].


## 4.Replacement and Adjustment

3. Release the harness.

4. Remove the bearings [A].

5. Remove the reverse motor with bracket [A].

6. Remove the reverse motor [A].


## Fusing Exit Sensor

1. Remove the paper exit unit. (Paper Exit Unit)
2. Remove the fusing exit sensor [A].


## Paper Feed

## H1——

- The 1st paper feed unit can be removed without removing the duplex unit (just open the right cover), and you can remove the paper feed unit after pulling out the paper tray.
- Note that the 1 st paper feed unit and 2nd paper feed unit are not interchangeable.


## Paper Feed Unit

1st Paper Feed Unit

1. Remove the right cover. (Right Cover)
2. Pull out the 1 st paper feed tray.
3. Remove the screws attached to the 1st paper feed unit [A] (W2).

4. Pull out the 1st paper feed unit [A] slightly toward the front, and then take off the paper feed guide plate [B].

- Release the rear side first to remove the paper feed guide plate.

- The following picture shows the shape of the guide plate at the rear side.


5. Remove the 1 st paper feed unit [A]. ( x 1 )


2nd Paper Feed Unit

1. Remove the right cover. (Right Cover)
2. Pull out the 2 nd paper feed tray [A].


- Depending on the model, remove the right lower cover or open the paper transport cover.


## 4.Replacement and Adjustment

3. Remove the bracket [A]. $(\times 1)$

4. Lift the harness guide [A], and then remove it $\left({ }^{-1} \times 1\right)$.




- The harness guide has a claw, so make sure that you do not break it when removing.


5. Remove the paper feed guide plate [A].

- Release the rear side first to remove the paper feed guide plate.


6. Remove the 2 nd paper feed unit $[\mathrm{A}]$. $(\mathrm{F} \times 2$, x 1$)$


Paper Dust Collection Unit

1. Open the right cover.
2. Remove the screw on the paper dust collection unit [A]. $\left({ }^{-1} \times 1\right)$

3. Release the tab on the paper dust collection unit $[\mathrm{A}]\left({ }^{-} \times 1\right)$.

4. While slightly opening and holding the transfer unit [A] with your hand, remove the paper dust collection

## 4.Replacement and Adjustment

unit [B] in the order shown in the picture below.


## 

- The right side of the paper dust collection unit has a C-shaped cutout. Do not pull the unit by force during removal. When installing, open the transfer unit [A] to prevent the sheet $[B]$ from breaking.



## Pick-up Roller, Paper Feed Roller, Separation Roller, Torque Limiter

1. Remove the roller holder $[\mathrm{A}] .(\times 1)$

2. Remove the pickup roller [A].

3. Remove the paper feed roller [A].

4. Remove the separation roller [A]. $(\times 1)$


## 4.Replacement and Adjustment

5. Remove the torque limiter [A].


1st / 2nd Paper Feed Tray Lift Motor

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the development bearing cooling fan. (Development Bearing Cooling Fan (MP 4055 SP/5055 SP/6055 SP Only))
3. Remove the HVPS [A] along with the bracket.

4. Remove the 1 st paper feed tray lift motor [A].

5. Remove the 2 nd paper feed tray lift motor [A].


## 1st / 2nd Paper Feed Sensor

## Fr

- There is no difference in removal procedure between 1st paper feed sensor and 2nd paper feed sensor.

1. Remove the paper feed unit. (Paper Feed Unit)
2. Remove the paper feed sensor bracket [A]. ( $\times 1, \times 1$,


## 4.Replacement and Adjustment

3. Remove the paper feed sensor [A] (hooks).


## 

- Make sure that the end of the spring on the sensor unit is in the hole.


Vertical Transport Sensor

1. Remove the paper feed unit. (Paper Feed Unit)
2. Remove the vertical transport sensor unit [A]. $(\underset{ }{-1} \times 1$, $\times 1)$

3. Remove the vertical transport sensor [A] (hooks).


## Limit Sensor

## 4

- There are two limit sensors in this model but the removal procedure is the same.

1. Remove the paper feed unit. (Paper Feed Unit)

## 4.Replacement and Adjustment

2. Remove the limit sensor [A]. $(\times 1)$


## 1st Paper End Sensor / 2nd Paper End Sensor

- There is no difference in removal procedure between 1st paper end sensor and 2nd paper end sensor.

1. Remove the paper feed unit. (Paper Feed Unit)
2. Remove the feeler [A]. $\left({ }^{-} \times 1\right)$

3. Remove the paper end sensor [A]. $(\times 1)$

4. After reinstalling the paper end sensor, check the operation of the actuator [A].


## Registration Sensor

1. Open the right cover (Right Cover).
2. Remove the transfer unit. (Transfer Unit)
3. Remove the inner guide bracket [A]. ( $\times 2$ )


## 4.Replacement and Adjustment

4. Remove the registration sensor $[\mathrm{A}]($ hooks, $\times 1$, x 1 ).


## Duplex Unit

## Duplex/By-pass Motor

1. Remove the right cover. (Right Cover)
2. Remove the duplex inner cover $[\mathrm{A}]$. $(\times 4)$

3. Remove the duplex/by-pass motor unit [A] ( $\times 3$, $\times 1$ )

4. Remove the duplex/by-pass motor. ( ${ }^{(1+2)}$


H- -

## Duplex Entrance Motor

1. Remove the right cover. (Right Cover)
2. Remove the duplex inner cover [A]. ( $\quad \times 4$ )

3. Remove the duplex entrance motor bracket $[\mathrm{A}] .(\underset{\sim}{(1)} \times 1)$

4. Remove the duplex entrance motor $[\mathrm{A}]$. $(\times 2)$


## Duplex Entrance Sensor

1. Remove the right cover. (Right Cover)
2. Remove the screws and stoppers for the paper transfer guide plate $[\mathrm{A}] .(\times 2,=\times 1)$

3. Remove the duplex inner entrance guide $[\mathrm{A}]$.

4. Remove the duplex outer entrance guide $[\mathrm{A}] .(\times 8, \times \times 1, \ldots \times 1)$


## 4.Replacement and Adjustment


5. Remove the duplex entrance sensor [A] (hooks).


## Duplex Exit Sensor

1. Open the right cover.
2. Remove the duplex exit sensor bracket $[\mathrm{A}] .(\times 1,1 \times 1)$

3. Remove the duplex exit sensor [A] (hooks).


## Bypass Tray Unit

## Bypass Tray

1. Open the right cover.
2. Remove the wire $[\mathrm{A}] .\left({ }^{-1}\right)$

3. Release two arms [A] [B]. $\left(\begin{array}{l} \\ \times 2)\end{array}\right.$

4. Open the right cover wide.

5. Remove the paper transport guide [A]. $(\square \times 2)$

6. Remove the harness. $(\mathbb{H} \times 1, \times 1, \quad+\times 1)$

7. Remove the bypass tray [A]. ( $\times 4$ )


## Bypass Paper End Sensor

1. Open the bypass tray $[\mathrm{A}]$.

$1+\sqrt{-1+2}+$
2. Remove the bypass paper end sensor cover [A].

3. Remove the bypass paper end sensor unit $[\mathrm{A}]$. ( $\times 1, \times 1$ )

4. Remove the bypass paper end sensor [A] from the bracket (hooks).


## Bypass Pick-up Roller

1. Open the bypass tray (Bypass Tray).
2. Remove the bypass pick-up roller [A]. ( $\times 1$ )


## Bypass Paper Feed Roller

1. Remove the bypass paper end sensor unit. (Bypass Paper End Sensor)
2. Remove the bypass paper feed roller [A]. $(\times 1)$


## Bypass Separation Roller

1. Remove the paper transport guide. (Bypass Tray)
2. Remove the bypass separation roller [A]. $\left(\begin{array}{l} \\ \times 1)\end{array}\right.$


## Torque Limiter

1. Remove the bypass separation roller. (Bypass Separation Roller)
2. Remove the torque limiter $[\mathrm{A}]$.


## Bypass Width Sensor

1. Remove the bypass tray. (Bypass Tray)
2. Remove the six screws on the bypass tray [A]. $\left({ }^{-1} \times 6\right)$.

3. Release the hooks around the bypass tray [A].


1

- There is a hook in the tray cover. Be careful not to damage it during removal or installation.



## 4.Replacement and Adjustment

4. Release the links.

5. Remove the bypass tray upper cover $[\mathrm{A}]$. (pin $\mathrm{x} 1, \mathrm{Th} \mathrm{x} 1$ )

6. Remove the bypass width sensor $[\mathrm{A}]$. $(\times 1, \times 2)$



- When installing, the holes must align as shown below.



## Bypass Length Sensor

1. Remove the bypass tray upper cover. (Bypass Width Sensor).
2. Remove the bypass length sensor [A]. ( $\times 1$, hooks)


## 4.Replacement and Adjustment

## PCBs and Other Items

## Overview

Around the Controller Box


Around the Power Supply Box


Controller Box Cover

1. Remove the rear cover. (Rear Cover)
2. Remove the controller box cover [A].

## Red Circle: Remove, Blue Circle: Loosen



## IPU

## Mi Wrimi

- The FFC connector [A] has a lock mechanism. Do not use force to pull it out.

- For the FCC connector [B], pull out it by pressing the release levers on both sides.


1. Remove the controller box cover. (Controller Box Cover)
2. Remove the IPU Sub if the SPDF is installed.
3. Remove the IPU $[\mathrm{A}]$.


## BCU

## 

- The FFC connector has a lock mechanism. Do not use force to pull it out.

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the BCU [A].


When installing the new BCU
Remove the NVRAM (EEPROM) from the old BCU. Then install it on the new BCU after you replace the BCU. Replace the NVRAM (Replacing the NVRAM (EEPROM) on the BCU) if the NVRAM on the old BCU is defective.


- Make sure you print out the SMC reports ("SP Mode Data" and "Logging Data") before you replace the NVRAM (EEPROM).


## 

- Keep NVRAMs (EEPROM) away from any objects that can cause static electricity. Static electricity can damage NVRAM data.
- Make sure the serial number is input in the machine for the NVRAM data with SP5-811-004, if not, SC995-001 occurs

1. Make sure that you have the SMC report (factory settings). This report comes with the machine.
2. Output the SMC data ("ALL") using SP5-990-001/SP5-992-001.
3. Turn off the main switch.
4. Insert a blank SD card in the SD slot \#2, and then turn on the main switch.
5. Use SP5-824-001 to upload the NVRAM data from the BCU.
6. Turn off the main power switch and unplug the power cord.
7. Replace the NVRAM [A] on the BCU with a new one.


## 

- Install a new NVRAM [C] so that the indentation [A] on the NVRAM corresponds with the mark $[B]$ on the BCU. Incorrect installation of the NVRAM will damage both the BCU and NVRAM.


8. Plug in, and then turn on the main switch.


- When the power is turned ON, SC195-00 appears, but continue with the following steps.

9. Select the destination setting. (SP5-131-001) (JPN: 0, NA: 1, EU/AA/TWN/CHN: 2)
10. Check the machine serial number with SP5-811-004, and then set the machine serial number of SP5-811-001.


- For information on how to configure SP5-811-001, contact the supervisor in your branch office.

11. Set the area selection with SP5-807-001.


- For information on how to configure SP5-807-001, contact the supervisor in your branch office.

12. Turn off the machine, and then turn it back on.
13. Use SP5-801-002 "Memory Clear Engine".


- After changing the EEPROM, Some SPs do not have appropriate initial values. Because of this, steps 10 to 12 must be done.

14. Turn off the machine, and then turn it back on.
15. From the SD card where you saved the NV-RAM data in step 5, download the NV-RAM data with SP5-824002.
16. Turn off the machine, and then remove the SD card from SD slot 2 .
17. Turn on the main switch.
18. Check the factory setting sheet and the SMC data printout from step 2, and set the user tool and SP settings so they are the same as before.

## Controller Board

## FITM

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


## FH|

## Special Procedure for Machines that have a Self Encrypting Drive (SED) Installed

- The machine holds data, linking the controller board and SED, created automatically during SED installation. The data, however, will not be deleted automatically at controller board replacement. Therefore, before replacing a controller board, you must delete the link data manually so that the machine can create new link data.
- Do the following steps when doing the replacement.
- Execute [Erase All Memory] on the operation panel [System Settings] - [Administrator Tools] - [Erase All Memory]
- Turn OFF the main power switch
- Replace the controller board
- Turn ON the main power switch
- Do not turn the main power ON after step 2, until after you replaced the board.

1. Remove the left rear cover. (Left Rear Cover)
2. Remove the HDD bracket. (HDD)
3. Remove the controller bracket $[\mathrm{A}]$.

4. Slide the controller board [A] to the right side to remove it.

5. Release the guide rail [A].


## 4.Replacement and Adjustment

6. Remove the NVRAMs $1[A]$ and $2[B]$ on the controller board.


- When installing a new controller board, install the NVRAM removed from the old board, or a new NVRAM if the old NVRAM is defective. Install the NVRAM [C] so that the indentation [B] on the NVRAM corresponds with the mark [A] on the controller board. Incorrect installation of the NVRAM will damage both the controller board and the NVRAM.


Replacing the NVRAM on the controller board

## 

- Referring to the previous procedure, be sure that there are no mistakes in the mounting position and orientation of the NVRAM.


## 

- SC195 (Machine serial number error) will be displayed if you forget to attach the NVRAM.
- If you mounted the NVRAM in the wrong direction, each component needs to be replaced because a short circuit was caused in the controller board and the NVRAM.

1. Make sure you have the SMC report (factory settings). This report comes with the machine.
2. Output all the SMC data using SP5-990-001 (SP Print Mode: All (Data List)).
3. Turn off the main power switch.
4. Insert a blank SD card in the SD slot 2, and then turn on the main power switch.
5. Use SP5-824-001 to upload the NVRAM data from the controller board.
6. Make sure the customer has a backup of their address book data. If not, obtain the backup by referring to the following procedure.
7. Insert an SD card into SD slot 2, and then turn the main power ON .
8. Save the address book data in the SD card using SP5-846-051.

## 54

- The address data stored in the machine will be discarded later during this procedure. So be sure to obtain a backup of the customer's address book data.
- Note that the counters for the user will be reset when doing the backup/restore of the address book data.
- If they have a backup of the address book data, use their own backup data for restoring. This is because there is a risk that the data cannot be backed up properly depending on the NVRAM condition.

7. Do the following steps if the machine has the fax unit. If not, skip this step.
8. Print the Box List by with the User Tools/Counter.

- [User Tools/Counter] - [Facsimile Features] - [General Settings] - [Box Setting: Print List]

2. Print the Special Sender List by pressing these buttons in the following order.

- [User Tools/Counter] - [Facsimile Features] - [Reception Settings] - [Program Special Sender: Print List]

3. Write down the following fax settings.

- [Receiver] in [User Tools/Counter] - [Facsimile Features] - [Reception Settings] - [Reception File Settings] - [Forwarding].
- [Notify Destination] in [User Tools/Counter] - [Facsimile Features] - [Reception Settings] [Reception File Settings] - [Store].
- [Specify User] in [User Tools/Counter] - [Facsimile Features] - [Reception Settings] - [Stored Reception File User Setting].
- [Notify Destination] in [User Tools/Counter] - [Facsimile Features] - [Reception Settings] - [Folder Transfer Result Report].
- Specified folder in [User Tools/Counter] - [Facsimile Features] - [Send Settings] - [Backup File TX Setting].
- [Receiver] in [User Tools/Counter] - [Facsimile Features] - [Reception Settings] - [Reception File Settings] - [Output Mode Switch Timer].
- [Store: Notify Destination] in [User Tools/Counter] - [Facsimile Features] - [Reception Settings] [Output Mode Switch Timer].
- All the destination information shown on the display.

Hirlull

- In the fax settings, address book data is stored with entry IDs, which the system internally assigns to each data. The entry IDs may be changed due to re-assigning in backup/restore operations.

4. Make sure that there is no transmission standby file. If any standby file exists, ask the customer to delete it or complete the transmission.
5. Turn the main power OFF and unplug the power supply cord.
6. Push the main power switch ON again to discharge the residual charge.
7. Replace the NV-RAM with a brand-new one.
8. Turn the power ON with the SD card to which the NV-RAM data has been uploaded in Slot 2 .


- SC673 appears at start-up, but this is normal behavior. This is because the controller and the smart operation panel cannot communicate with each other due to changing the SP settings for the operation panel.

12. Change the SP settings for the operation panel.

If you switch the screen to enter the SP mode, SC995-02 is displayed. However, continue the following steps.

- SP5-748-101: (OpePanel Setting: Op Type Action Setting): Change bit 0 from 0 to 1.
- SP5-748-201: (OpePanel Setting: Cheetah Panel Connect Setting): Change the value from 0 to 1 .

13. Change the Flair API SP values.

- SP5-752-001 (Copy FlairAPIFunction Setting): Change bit from 0 to 1.
- SP1-041-001 (Scan:FlairAPI Setting): Change bit from 0 to 1 .
- SP3-301-001 (FAX:FlairAPI Setting) Change bit from 0 to 1 .

14. Cycle the power OFF/ON.

F

- The model information is written on the NVRAM (Novita), so SC995-02 does not occur.
- Program/Change Administrator will be displayed in Japanese, but this is normal.

15. Enter the SP mode and specify the following settings manually.

- SP5-985-001 (Device Setting: On Board NIC) Change the value from 0 to 1.
- SP5-985-002 (Device Setting: On Board USB) Change the value from 0 to 1 .

16. Turn OFF the main power, and then turn ON the main power with the SD card to which the NV-RAM data has been uploaded in Slot 2.
17. Download the NV-RAM data stored in the SD card to the brand-new NV-RAM using SP5-825-001 (NVRAM Data Download).

- The download will take a couple of minutes.

18. Turn the power OFF and remove the SD card from slot 2 .
19. Turn the power ON.

The screen "Program/Change Administrator" will be displayed in the language that is the same language as the time when the data was uploaded to the SD card in step 5 .
20. Execute SP5-755-002 (Hide Administrator Password Change Scrn).

After you execute this SP and exit SP mode, the Home screen is displayed and user functions can be used.
21. Check that the fax and scanner icons are displayed, and then change the following SP settings.
a. SP5-193-001 (External Controller Info. Settings)
b. SP5-895-001 (Application invalidation: Printer)
c. SP5-895-002 (Application invalidation: Scanner)
22. If the security functions (e.g. Stored file encryption/ Auto Erase Memory Setting) were applied, set the
functions again.
23. Ask the customer to restore their address book. Or restore the address book data using SP5-846-052 (UCS Setting: Restore All Addr Book), and ask the customer to ensure the address book data has been restored properly.

## Fl

- If you obtained the backup of the customer's address book data in step 3, delete the backup immediately after the NV-RAM replacement to avoid accidentally taking out the customer's data.

24. Output all the SMC data with SP5-990-001 and make sure all the SP/UP settings except for counter information are properly restored, by checking the SMC data obtained in step 2.
4

- The counters will be reset.

25. When equipped with fax, make sure that the list printed in step 2 and 6 are the same as the sender information.

If the setting is different from the original setting after the replacement of the NVRAM, then set it again to the original setting.
26. Execute the process control (SP3-011-001).
27. Execute the ACC (Copy).
28. Execute the ACC (Printer).
29. Cycle the power OFF/ON.

- If you cannot execute SP5-824-001 or SP5-825-001 for some reason, try all the following things. - Check the changed SP value on the SMC which was output in step 2 and set it manually. Especially, ensure that the values of the following SPs are same as the setting before the replacement.
- a. SP5-045-001 (Accounting counter: Counter Method)
- b. SP5-104-001 (A3/DLT Double Count)
- c. SP5-104-002 (Bypass Paper Size Undetection)
- d. SP5-302-002 (Set Time: Time Difference)
- Because the PM counters have been reset during NV-RAM replacement, it is necessary to replace all the PM parts for proper PM management.
- If a message tells you need a SD card to restore displays after the NV-RAM replacement, create a "SD card for restoration" and restore with the SD card.


## HDD

- Before replacing the HDD, copy the address book data to an SD card with SP5-846-051 if possible.
- If the customer is using the Data Overwrite Security, the Data Encryption feature or OCR Scanned PDF, these applications must be installed again.


## 4.Replacement and Adjustment

1. Remove the controller cover. (Controller Cover)
2. Remove the controller box cover. (Controller Box Cover)
3. Remove the HDD with bracket [A].

4. Remove the HDD [A] from the bracket.


Adjustment after replacement

1. Execute SP5-832-001 to initialize the hard disk.

Even if you use an HDD that is already formatted, it is recommended that you re-initialize.
2. Execute SP5-853-001 to install the fixed stamps.
3. Execute SP5-846-052 to copy the address book from the SD card to the HDD.
4. Turn off the machine, and then turn it back on.

## HVPS

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the HVPS [A].


## PSU

## MTHFTMi

- NEVER touch the areas outlined in red in the photos below, to prevent electric shock caused by residual charge.
- A residual charge of about $100 \mathrm{~V}-400 \mathrm{~V}$ 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.


## 4.Replacement and Adjustment

Residual charge remains in the AC circuits.


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

3. Remove the PSU cooling fan (for MP $4055 \mathrm{SP} / 5055 \mathrm{SP} / 6055$ SP only). (PSU Cooling Fan (MP 4055 SP/5055 SP/6055 SP Only))


Heater Board

1. Remove the left cover. (Left Cover)
2. Remove the heater board [A].


## Controller Box

1. Remove the left rear cover. (Left Rear Cover)
2. Remove the left cover. (Left Cover)
3. Remove the rear lower cover. (Rear Lower Cover)
4. Remove the controller box cover. (Controller Box Cover)

## 4.Replacement and Adjustment

5. Release the clamps on the upper side of the controller box.

6. Release the clamps on the side of the controller box.

7. Release the clamps in the controller box.

8. Release the fixing of the bracket [A].

9. Remove the connectors on the IPU [A].

10. Remove the FFC on the $\mathrm{BCU}[\mathrm{A}]$.

11. Remove the connector.


## 4.Replacement and Adjustment

12. Remove the bracket $[\mathrm{A}]$.

13. Remove the controller box [A].


Imaging Temperature Sensor (Thermistor)

1. Remove the rear cover. (Rear Cover)
2. Remove the connector.

3. Remove the PCL. (PCL (Pre Cleaning Light))
4. Remove the imaging temperature sensor (thermistor) [A].


DC SW board

1. Pull out the 1 st and 2 nd paper feed trays.
2. Remove the right lower cover [A].

3. Remove the DC SW board [A].


## Fans/Filters

## Odor Filter

1. Remove the odor filter box [A].

MP 2555 SP/3055 SP/3555 SP


MP 4055 SP/5055 SP/6055 SP

2. Remove the odor filter $[\mathrm{A}]$.

MP 2555 SP/3055 SP/3555 SP


MP 4055 SP/5055 SP/6055 SP


Particulate Filter (MP 4055 SP/5055 SP/6055 SP Only)

1. Remove the odor filter box [A].


## 4.Replacement and Adjustment

2. Remove the particulate filter [A].


## Dust filter

1. Remove the PCDU. (PCDU)
2. Mount the dust filter on the duct [A].


13

- Attach the right side of the filter first when you mount it.



## Development Exhaust Fan

1. Remove the left cover. (Left Cover)
2. Remove the bracket $[\mathrm{A}]$.

3. Remove the development exhaust fan with duct $[\mathrm{A}] .(\times 2$, $\times 1$ )

4. Dismantle the duct $[\mathrm{A}] .\left({ }^{-} \times 4\right)$


## 4.Replacement and Adjustment

5. Remove the development exhaust fan [A].


## H파

- Pay attention to the direction of the fan when installing. The decal pasted on the fan must face the outside.



## Paper Exit Cooling Fan

1. Remove the upper front cover. (Upper Front Cover)
2. Remove the paper exit cooling fan [A].


## H1~

- Pay attention to the direction of the fan when installing. The decal pasted on the fan must face the inside.

Fusing Fan

1. Remove the rear cover. (Rear Cover)
2. Remove the fusing exhaust heat fan $[\mathrm{A}]$ with duct.

MP 2555 SP/3055 SP/3555 SP


MP 4055 SP/5055 SP/6055 SP

3. Remove the fusing exhaust heat fan $[\mathrm{A}] .(-\times 4)$

MP 2555 SP/3055 SP/3555 SP


## 4.Replacement and Adjustment

## 

- Pay attention to the direction of the fan when installing. The decal pasted on the fan must face the outside.


Development Bearing Cooling Fan (MP 4055 SP/5055 SP/6055 SP Only)

1. Remove the rear lower cover. (Rear Lower Cover)
2. Remove the development bearing cooling fan with duct $[\mathrm{A}]$.

3. Dismantle the duct [A]. $\left({ }^{-} \times 4\right)$

4. Remove the development bearing cooling fan $[\mathrm{A}]$.


## 

- Pay attention to the direction of the fan when installing. The decal pasted on the fan must face the outside.



## PSU Cooling Fan (MP 4055 SP/5055 SP/6055 SP Only)

1. Remove the left cover. (Left Cover)
2. Remove the tie wrap band [A], and remove the PSU cooling fan [B].


## FIT

- Pay attention to the direction of the fan when installing. The decal pasted on the fan must face the inside.


## Adjustment after Replacement

## Printing

## F

- Make sure the paper is installed correctly in each paper tray before you start these adjustments.
- Use the Trimming Area Pattern (SP2-109-003, No.14) to print the test pattern for the following procedures.
- Set SP 2-109-003 to "0" again after completing these printing adjustments.

Registration - Leading Edge/Side-to-Side


A: Leading Edge Registration ( $4.2 \pm 1.5 \mathrm{~mm}$ )
B: Side-to-side Registration ( $2 \pm 1.5 \mathrm{~mm}$ )
Make sure that the registration is adjusted within the adjustment standard range as shown above.
After doing the registration adjustment, do the Blank Margin Adjustment in the next section.

1. Check the leading edge registration [A] for each paper feed station, and adjust them using SP1-001.

| Tray | SP No. | Threshold |
| :--- | :--- | :--- |
| Tray1: Thin | SP1-001-001 |  |
| Tray1: Plain | SP1-001-002 |  |
| Tray1: MidThick | SP1-001-003 |  |
| Tray1: Thick1 | SP1-001-004 |  |
| Tray1: Thick2 | SP1-001-005 |  |
| Tray1: Thick3 | SP1-001-006 |  |
| Tray1: Thick4 | SP1-001-007 |  |
| Tray2: Thin | SP1-001-008 |  |
| Tray2: Plain | SP1-001-009 |  |
| Tray2: MidThick | SP1-001-010 |  |
| Tray2: Thick1 | SP1-001-011 |  |
| Tray2: Thick2 | SP1-001-012 |  |


| Tray | SP No. | Threshold |
| :---: | :---: | :---: |
| Tray2: Thick3 | SP1-001-013 |  |
| Tray2: Thick4 | SP1-001-014 |  |
| Bypass: Thin | SP1-001-015 | $4.2 \pm 1.5 \mathrm{~mm}$ |
| Bypass: Plain | SP1-001-016 |  |
| Bypass: MidThick | SP1-001-017 |  |
| Bypass: Thick1 | SP1-001-018 |  |
| Bypass: Thick2 | SP1-001-019 |  |
| Bypass: Thick3 | SP1-001-020 |  |
| Bypass: Thick4 | SP1-001-021 |  |
| Duplex: Thin | SP1-001-022 | $4.2 \pm 1.5 \mathrm{~mm}$ |
| Duplex: Plain | SP1-001-023 |  |
| Duplex: MidThick | SP1-001-024 |  |
| Duplex: Thick1 | SP1-001-025 |  |
| Duplex: Thick2 | SP1-001-026 |  |
| Duplex: Thick3 | SP1-001-027 |  |
| Tray1: Thin: 1200 | SP1-001-028 | $4.2 \pm 1.5 \mathrm{~mm}$ |
| Tray1: Plain: 1200 | SP1-001-029 |  |
| Tray1: MidThick: 1200 | SP1-001-030 |  |
| Tray1: Thick1: 1200 | SP1-001-031 |  |
| Tray1: Thick2: 1200 | SP1-001-032 |  |
| Tray1: Thick3: 1200 | SP1-001-033 |  |
| Tray1: Thick4: 1200 | SP1-001-034 |  |
| Tray2: Thin: 1200 | SP1-001-035 | $4.2 \pm 1.5 \mathrm{~mm}$ |
| Tray2: Plain: 1200 | SP1-001-036 |  |
| Tray2: MidThick: 1200 | SP1-001-037 |  |
| Tray2: Thick1: 1200 | SP1-001-038 |  |
| Tray2: Thick2: 1200 | SP1-001-039 |  |
| Tray2: Thick3: 1200 | SP1-001-040 |  |
| Tray2: Thick4: 1200 | SP1-001-041 |  |
| Bypass: Thin: 1200 | SP1-001-042 | $4.2 \pm 1.5 \mathrm{~mm}$ |
| Bypass: Plain: 1200 | SP1-001-043 |  |
| Bypass: MidThick: 1200 | SP1-001-044 |  |
| Bypass: Thick1: 1200 | SP1-001-045 |  |
| Bypass: Thick2: 1200 | SP1-001-046 |  |
| Bypass: Thick3: 1200 | SP1-001-047 |  |
| Bypass: Thick4: 1200 | SP1-001-048 |  |
| Duplex: Thin: 1200 | SP1-001-049 | $4.2 \pm 1.5 \mathrm{~mm}$ |

4.Replacement and Adjustment

| Tray | SP No. | Threshold |
| :--- | :--- | :--- |
| Duplex: Plain: 1200 | SP1-001-050 |  |
| Duplex: MidThick: 1200 | SP1-001-051 |  |
| Duplex: Thick1: 1200 | SP1-001-052 |  |
| Duplex: Thick2: 1200 | SP1-001-053 |  |
| Duplex: Thick3: 1200 | SP1-001-054 |  |

2. Check the side-to-side registration [B] for each paper feed station, and adjust them using SP1-002.

| Tray | SP No. | Threshold |
| :--- | :--- | :--- |
| Tray 1 | SP1-002-002 |  |
| Tray 2 | SP1-002-003 |  |
| Tray 3 (Optional PFU tray 1 or LCT) | SP1-002-004 |  |
| Tray 4 (Optional PFU tray 2) | SP1-002-005 |  |
| Duplex (side 1) | SP1-002-006 |  |
| LCT | SP1-002-007 |  |

## Blank Margin

- After adjusting the Leading Edge Registration and Side Registration settings (see the previous section), do the Blank Margin Adjustment. To do this, check the values of Margins C and D.
- If they are not within the specifications (see below), then adjust C and D with SP2-103-001 to -020 as explained below. Then check Margins A and B again.


A: Trailing Edge Blank Margin
B: Right Edge Blank Margin
C: Leading Edge Blank Margin
D: Left Edge Blank Margin

1. Check the trailing edge [A], right edge [B], leading edge [C], left edge [D] blank margins, and adjust them using the following SP modes.

| Edge | SP No. | Adjustment Range |
| :---: | :---: | :---: |
| Leading Edge | SP2-103-001 | $4.2 \pm 1.5 \mathrm{~mm}$ (Plain, Thin) |
| Trailing Edge | SP2-103-002 | More than 0.5 mm |
| Left Edge | SP2-103-003 | $2.0 \pm 1.5 \mathrm{~mm}$ |
| Right Edge | SP2-103-004 | $2.0+2.5 /-1.5 \mathrm{~mm}$ |
| Duplex: Trailing Edge: <br> L Size: Plain | SP2-103-006 | $2.0 \pm 2.0 \mathrm{~mm}$ |
| Duplex: Trailing Edge: <br> M Size: Plain | SP2-103-007 |  |
| Duplex: Trailing Edge: <br> S Size: Plain | SP2-103-008 |  |
| Duplex: Left Edge <br> Plain | SP2-103-009 | $-2.0 \pm 1.5 \mathrm{~mm}$ |
| Duplex: Right Edge: <br> Plain | SP2-103-010 | $2.0+2.5 /-1.5 \mathrm{~mm}$ |
| Duplex: Trailing Edge: <br> L Size: Thick | SP2-103-011 | $2.0 \pm 2.0 \mathrm{~mm}$ |
| Duplex: Trailing Edge: <br> M Size: Thick | SP2-103-012 |  |
| Duplex: Trailing Edge: S Size: Thick | SP2-103-013 |  |
| Duplex: Left Edge Thick | SP2-103-014 | $-2.0 \pm 1.5 \mathrm{~mm}$ |
| Duplex: Right Edge: <br> Thick | SP2-103-015 | $2.0+2.5 /-1.5 \mathrm{~mm}$ |
| Duplex Trail. L Size:Thin | SP2-103-016 | $-4.0 \pm 4.0 \mathrm{~mm}$ |
| Duplex Trail. M Size:Thin | SP2-103-017 |  |
| Duplex Trail. S Size:Thin | SP2-103-018 |  |
| Lead Edge Width:Thin | SP2-103-019 | $0.0 \pm 9.9 \mathrm{~mm}$ |
| Trail. Edge Width:Thin | SP2-103-020 |  |

- L Size: Paper Length is 297.1 mm or more
- M Size: Paper Length is 216.1 to 297 mm
- S Size: Paper Length is 216 mm or less.


## Main Scan Magnification

1. Use SP2-109-003, no. 5 (Grid Pattern) to print the single-dot grid pattern.
2. Check the magnification, and adjust the magnification using SP2-102-001 (Magnification Adjustment Main Scan) if necessary. The specification is $\pm 1 \%$.

Parallelogram Image Adjustment
Laser unit adjustment is to fix parallelogram images that developed as a result of the laser operation, by means of adjusting the physical angle of the laser unit itself. This adjustment must be done after the skew-correction for the paper feed unit.

If parallelogram images are caused by the scanner after doing the laser unit adjustment, scanner unit adjustment must also be performed to correct this

1. Enter into the SP mode.
2. Using SP2-109-003, output a trimming pattern to measure the parallelogram.

- It is not necessary to do this step if output image is developed properly.

- If the laser unit causes a parallelogram image, there is a slanted line in the main-scan direction, and there is a straight line in the sub-scan direction.

3. Remove the laser unit (Laser Unit).
4. Paste the adjustment sheet(s) on the reference points located on the back side of the laser unit (two points on the inside and/or one point on the front side).

## Fill

- A set of four sheets is provided as service parts. The number of sheets to be pasted depends on the condition of the image.
- If lines slant down to the left [A], paste one or two sheets on the front side.
- If lines slant down to the right [B], paste one or two sheets at each position on the rear side.
- Adjustable amount: $0.5 \mathrm{~mm}-0.6 \mathrm{~mm} /$ sheet


5. Do step 1 and 2 again to check that there is no parallelogram image.

Scanning


- Before doing the following scanner adjustments, perform or check the printing registration /side-to-side adjustment and the blank margin adjustment.
- Use an S5S test chart to perform the following adjustments.

Registration: Platen Mode


A: Leading Edge Registration (Sub Scan Registration Adj)
B: Side-to-side Registration (Main Scan Reg)

1. Place the test chart on the exposure glass and make a copy from one of the feed stations.
2. Check the leading edge and side-to-side registration, and adjust them using the following SP modes if necessary.

| SP No. | SP Name | Adjustment Range |
| :--- | :--- | :--- |
| SP4-803-001 | Home Position Adj Value | $\pm 2.0 \mathrm{~mm}$ |
| SP4-011-001 | Main Scan Reg | $\pm 2.5 \mathrm{~mm}$ |

Magnification

## 파눈

- Use an S5S test chart to do the following adjustment.


A: Sub-scan magnification

1. Place the test chart on the exposure glass and make a copy from one of the feed stations.
2. Check the magnification ratio and adjust using the following SP mode if necessary.

| SP No. | SP Name | Adjustment Range |
| :---: | :--- | :--- |
| SP4-008-001 | Sub Scan Magnification Adj | $\pm 1.0 \%$ |

## ADF Image Adjustment

ARDF side-to-side, leading edge registration and trailing edge


A: Leading Edge Registration
B: Side-to-side Registration


- Use A3/DLT paper to make a temporary test chart as shown above.

1. Put the temporary test chart on the ARDF. Then make a copy from one of the feed stations.
2. Check the registration. Check the leading edge and side-to-side registration. Adjust the following SP modes if necessary.
Standard: $4.2 \pm 2 \mathrm{~mm}$ for the leading edge registration, $2 \pm 1 \mathrm{~mm}$ for the side-to-side registration. Use the following SP modes to adjust if necessary.

## ARDF DF3090

| SP No. | SP Name | Adjustment Range |
| :--- | :--- | :--- |
| SP6-006-001 | Side-to-Side Regist: Front | $\pm 3.0 \mathrm{~mm}$ |
| SP6-006-002 | Side-to-Side Regist: Rear | $\pm 3.0 \mathrm{~mm}$ |
| SP6-006-003 | Leading Edge Registration: Front | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-004 | Leading Edge Registration: Rear | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-005 | Buckle: Duplex Front | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-006 | Buckle: Duplex Rear | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-007 | Rear Edge Erase Front | $\pm 10.0 \mathrm{~mm}$ |
| SP6-006-008 | Rear Edge Erase Rear | $\pm 10.0 \mathrm{~mm}$ |

## SPDF DF3100

| SP No. | SP Name | Adjustment Range |
| :--- | :--- | :--- |
| SP6-006-001 | Side-to-Side Regist: Front | $\pm 3.0 \mathrm{~mm}$ |
| SP6-006-002 | Side-to-Side Regist: Rear | $\pm 3.0 \mathrm{~mm}$ |
| SP6-006-010 | L-Edge Regist (1-Pass): Front | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-011 | L-Edge Regist (1-Pass): Rear | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-012 | 1st Buckle (1-Pass) | $\pm 3.0 \mathrm{~mm}$ |
| SP6-006-013 | 2nd Buckle (1-Pass) | -2 to +3 mm |
| SP6-006-014 | T-Edge Erase (1-Pass): Front | $\pm 5.0 \mathrm{~mm}$ |
| SP6-006-015 | T-Edge Erase (1-Pass): Rear | $\pm 5.0 \mathrm{~mm}$ |

Sub Scan Magnification

- Make a temporary test chart as shown above using A3/DLT paper.

1. Place the temporary test chart on the ADF and make a copy from one of the feed stations.
2. Check the magnification, and adjust using the following SP modes if necessary.

| SP No. | SP Name | Adjustment Range |
| :---: | :--- | :--- |
| SP6-017-001 | DF Magnification Adj. | $\pm 5.0 \%$ |

## 5. System Maintenance

## Service Program Mode

## 

- 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 copier to process the data.


## FH——

- The Service Program Mode is for use by service representatives only. 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

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 [A] located at the left side of the operation panel and "Check Status [B]" at the same time, until the number keyboard is displayed.

2. Enter the key code for SP mode.


For details of the key code to enter the SP mode, ask your supervisor.

## Exiting SP Mode

Press "Exit" on the LCD twice to return to the copy window.

## Types of SP Modes

- 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.


SP Mode Button Summary
Here is a short summary of the touch-panel buttons.

## 5.System Maintenance



| 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 <br> 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 <br> 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.

Selecting the Program Number
Program numbers have two or three levels.

1. Refer to the Service Tables to find the SP that you want to adjust before you begin.
2. Press the Group number on the left side SP Mode window that contains the SP that you want to adjust.
3. Use the scrolling buttons in the center of the SP mode window to show the SP number that you want to open. Then press that number to expand the list.
4. Use the center touch-panel buttons to scroll to the number and title of the item that you want to set and press
it. The small entry box on the right activates and shows the below default or the current settings.


## 1

- Refer to the Service Tables for the range of allowed settings.

5. Do this procedure to enter a setting:

- Press to toggle between plus and minus and use the keypad to enter the appropriate number. The number you enter writes over the previous setting.
- Press [\#] to enter the setting. (The value is not registered if you enter a number that is out of range.)
- Press "Yes" when you are prompted to complete the selection.

6. If you need to perform a test print, press Copy Window to open the copy window and select the settings for the test print. Press [Start] key and then press SP Mode (highlighted) in the copy window to return to the SP mode display.
7. Press Exit two times to return to the copy window when you are finished.

## Service Mode Lock/Unlock

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 power switch off and on. It is not necessary to ask the Administrator to log in again each time the main power switch is turned on.

2. Go into the SP mode and set SP5-169 to "1" if you must use the printer bit switches.
3. After machine servicing is completed:

- Change SP5-169 from "1" to "0".
- Turn the machine power switch off and on. Tell the administrator that you have completed servicing the machine.


## 5.System Maintenance

- The Administrator will then set the "Service Mode Lock" to ON.


## Remarks

The maximum number of characters which can show on the control panel screen is limited to 30 characters. For this reason, some of the SP modes shown on the screen need to be abbreviated. The following are abbreviations used for the SP modes for which the full description is over 20 characters.

| Item | Description |
| :--- | :--- |
| Paper Weight | Thin paper: $52-59 \mathrm{~g} / \mathrm{m}^{2}, 13.9-15.7 \mathrm{lb}$. |
|  | Plain Paper1: $60-74 \mathrm{~g} / \mathrm{m}^{2}, 16-19.7 \mathrm{lb}$. |
|  | Plain Paper2: $75-81 \mathrm{~g} / \mathrm{m}^{2}, 20-21.6 \mathrm{~b}$. |
|  | Middle Thick: $82-105 \mathrm{~g} / \mathrm{m}^{2}, 21.9-28 \mathrm{lb}$. |
|  | Thick Paper1: $106-157 \mathrm{~g} / \mathrm{m}^{2}, 28.3-41.91 \mathrm{~b}$. |
| Paper Type | $\mathrm{N}:$ Normal paper |
|  | MTH: Middle thick paper |
|  | TH: Thick paper |
| Paper Feed Station | P: Paper tray |
| B: By-pass table |  |
| Print Mode | S: Simplex |
|  | D: Duplex |

## Others

The settings of each SP mode are explained in the right-hand column of the SP table in the following way.
[Adjustable range / Default setting / Step] Alphanumeric

- If "Alphanumeric" is written to the right of the bracket as shown above, the setting of the SP mode shows on the screen using alphanumeric characters instead of only numbers. However, the settings in the bracket in the SP mode table are explained by using only the numbers.


## The following symbols are used in the SP mode tables.

| Notation |  |
| :--- | :--- |
| ENG | Engine SP |
| CTL | Controller SP |
| FA | Factory setting: Data may be adjusted from the default setting at the factory. Refer to the factory <br> setting sheets enclosed. You can find it in the front cover. |
| DFU | Design/Factory Use only: Do not touch these SP modes in the field. |
| $*$ | An asterisk (*) to the left side of ENG/CTL column means that this mode is stored in the NVRAM. <br> If you do a RAM clear, this SP mode will be reset to the default value. "ENG" and "CTL" show <br> which NVRAM contains the data. <br> $\bullet \quad * E N G: ~ N V R A M ~ o n ~ t h e ~ B C U ~ b o a r d ~$ |


| Notation |  |
| :--- | :--- |
|  | $\bullet \quad$ *CTL: NVRAM on the controller board |
| SSP | This denotes a "Special Service Program" mode setting. |

## 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 | SD | RFU | ARFU |
| :--- | :--- | :--- | :--- | :--- |
| Individual firmware | N/A | Available | Available | N/A |
| Package firmware | Available | Available | Available | Available |

## RFU Performable Condition

RFU is performable for a device which meets the following conditions.

1. The customer consents to the use of RFU.
2. The devise is connected to a network via TCP/IP for $@$ Remote.

## Firmware Update (SD Card)

## Overview

In order to update the firmware of this machine, it is necessary to download the latest version of firmware on an SD card.

Insert the SD card into SD card slot 2 beside the rear left of the controller box.
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 |

Firmware Types

| Firmware type | Firmware position |
| :--- | :--- |
| System/Copy | Controller Board |
| Network Support | Controller Board |
| Web Support | Controller Board |
| Fax | FCU |
| Scanner | Controller Board |
| Web Uapl | Controller Board |
| NetworkDocBox | Controller Board |
| Animation | Controller Board |
| Printer | Controller Board |
| RPCS | Controller Board |
| Font EXP | Controller Board |
| IRIPS Font | Controller Board |
| PCL | Controller Board |
| PDF | Controller Board |
| PS3 | Controller Board |
| Java VM v12 std | Controller Board |
| Data Erase Onb | Controller Board |
| PowerSaving Sys | Controller Board |
| Engine | BCU |
| OpePanel | Smart Operation Panel |
| ADF | ADF |
| Finisher | Finisher |

- Even when not using a RPCS driver, the XPS driver requires RPCS firmware.


## 5.System Maintenance

## What is Included in the Firmware Package

Modules included in the firmware package are indicated by ticks ( $\#$ ).
Firmware not included in the package require updating by SD cards, etc.

| Included |  |
| :--- | :--- |
| - | aics |
| - | animation |
| - | Application Site |
| - | BluetoothService |
| - | CheetahSystem |
| - | CSPF |
| - | Data Erase Onb |
| - | Engine |
| - | External Auth |
| - | Fax |
| - | FaxInfoWidget |

## Procedure

- An SD card is a precision device, so when you handle an SD card, respect the following.
- When the power is switched ON, do not insert or remove a card.
- During installation, do not switch the power OFF.
- Since the card is manufactured to high precision, do not store it in a hot or humid location, or in direct sunlight.
- Do not bend the card, scratch it, or give it a strong shock.
- Before downloading firmware to an SD card, check whether write-protection of the SD card is canceled. If write-protection is enabled, an error code (error code 44, etc.) will be displayed during download, and the download will fail.
- Before updating firmware, remove the network cable from this machine.
- If SC818 is generated during software update, switch the power OFF $->$ ON, and complete the update which was interrupted.
- During software update, disconnect network cables and interface cables, remove wireless boards, etc., (so that they are not accessed during the update).
- During software update, network cables, remove interface cables, wireless boards, etc., (so that they are not accessed during update).
- If the SD card is blank, copy the entire "romdata" folder onto the SD card.

If the card already contains folders up to "D284", copy the necessary firmware files (e.g. D284xxxx.fwu) into this folder.

## 

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

Update procedure

1. First download the new firmware to the SD card.
2. Turn OFF the main power.
3. Remove the SD card slot cover [A].

4. Insert the SD card [A] straight in slot 2 .


## 1

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

5. Turn ON the main 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. (English display) When the SD card contains two

## 5.System Maintenance

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 [0] | Returns to normal screen. |
| $[$ Start $]$ Key | Select all modules. |
| $[$ Clear/Stop $]$ key | Cancel all selections. |

## Display contents

On the above screen, two programs, i.e., 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. |

The upper row corresponds to the module number, the lower row corresponds to the version name.
8. Select the module with the module selection button or 10 key operation. The selected module is highlighted, and [Verify] and [Update] are displayed.


- 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, and perform software update.
10. During firmware update, a "firmware update/ verification progress screen" is displayed. When firmware update is complete, a "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 are updated simultaneously, only what was updated last is displayed.)
- When Verify has 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 switching 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.

## 반

- 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


## 5.System Maintenance

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



EXX shows an error code.
For error codes, refer to the following table:

## Error Code List

| Code | Contents | Solutions |
| :---: | :---: | :---: |
| 20 | Physical address mapping cannot be performed. | - Switch the main power supply off and on to try again. <br> - Re-insert the SD card to reboot it. <br> - Replace the controller board if the above solutions do not solve the problem. |
| 21 | Insufficient memory for the download | - Switch the main power supply off and on to try again. <br> - Replace the controller board if the updating cannot be done by switching the power off and on. |
| 22 | Decompression of compressed data failed. | - Switch the main power supply off and on to try again. <br> - Replace the SD card used for the update. <br> - Replace the controller board if the above solutions do not solve the problem. |
| 24 | SD card access error | - Re-insert the SD card. <br> - Switch the main power supply off and on to try again. <br> - Replace the SD card used for the update. <br> - Replace the controller board if the above solutions do not solve the problem. |
| 32 | The SD card used after download suspension is incorrect. | - Insert the SD card containing the same program as when the firmware update was suspended, and |


| Code | Contents | Solutions |
| :--- | :--- | :--- |
|  | $\begin{array}{l}\text { SD cards are different between the one which } \\ \text { was inserted before power interruption and } \\ \text { the one which was inserted after power } \\ \text { interruption. }\end{array}$ | $\begin{array}{l}\text { then switch the main power supply off and on to } \\ \text { try again. }\end{array}$ |
| 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. |  |  |$\}$

## 5.System Maintenance

| Code | Contents | Solutions |
| :---: | :---: | :---: |
|  |  | - If the download fails again, replace the controller board and the operation panel unit. |
| 43 | Printing download fails. | - Switch the main power supply off and on to try again. <br> - The SD card media is damaged if the update fails again. Replace the SD card media. |
| 44 | The data to be overwritten cannot be accessed when controller-related programs are downloaded. | - Switch the main power supply off and on to try again. <br> - Install the correct ROM update data in the SD card. <br> - Replace the controller board if the data to be overwritten is contained on the controller board. |
| 49 | Firmware updates are currently prohibited. | - 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. |
| 50 | The results of the electronic authorization check have rejected the update data. | - Install the correct ROM update data in the SD card. |
| 57 | @Remote is not connected at the date/time reserved for receiving the package firmware update from the network. | - Check the @Remote connection. |
| 58 | Update cannot be done due to a reception route problem. | - Check the @Remote connection. |
| 59 | HDD is not mounted. | - Check the HDD connection. |
| 60 | HDD could not be used during the package firmware update. | - Try again. <br> - Replace the HDD if the download fails again. |
| 61 | The module ID for the package firmware update is incorrect. | - Prepare the correct package files. |
| 62 | The configuration of the package firmware update files is incorrect. | - Prepare the correct package files. |
| 63 | Reception fails due to the power off at the reserved date/time of the remote firmware update from the network. | - Update is to be done automatically when the next reception time has elapsed. |
| 64 | Reception fails due to the power off at the reserved date/time of the package firmware update from the network. | - Reset the reservation date/time for the remote update. |
| 65 | Reception fails due to the status error of the | - Update is to be done automatically when the next |


| Code | Contents | Solutions |
| :---: | :---: | :---: |
|  | machine at the reserved date/time of the remote firmware update from the network. | reception time has elapsed. |
| 66 | Reception failed due to the status error of the machine at the reserved date/time of the package firmware update from the network. | - Reset the reservation date/time for the remote update. |
| 67 | Acquisition of the latest version information from the Gateway fails at the reserved date/time of the remote firmware update from the network. | - Check that the network is connected correctly. |
| 68 | Acquisition of the latest version information from the Gateway fails. | - Check that the network is connected correctly. |
| 69 | Download fails at the reserved date/time of the remote firmware update from the network. | - Check that the network is connected correctly. |
| 70 | Package firmware download from the network fails. | - Check that the network is connected correctly. |
| 71 | Network communication error occurs at the reserved date/time of the package firmware update from the network. | - Check that the network is connected correctly. |
| 72 | The setting of @Remote is invalid at the reserved date/time of the package firmware update from the network. | - Set the setting of @Remote Service in the Administrator Tools to [Do not Prohibit]. |

- The PDF firmware installed as standard contains the program required to print PS3 data by 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 selfdiagnosis result report shows the ROM part number/software version of the PDF firmware contained in the PS3 program.


## Firmware Update (Smart Firmware Update)

## MTHFMif

- An HDD unit must be installed on the machine to enable the SFU or the package firmware update via SD card.


## Overview

Each firmware module (such as System/Copy, Engine, etc) used to be updated individually. However, an allinclusive firmware package (package_ALL) is now available.

There are two ways to update using the firmware package.

- Package Firmware Update via a network: SFU (Smart Firmware Update)
- Package Firmware Update with an SD card



## 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.


## H1

- 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.


## Package Firmware Update via an SD Card

Package firmware update can also be performed using the conventional SD card method by writing the package firmware directly to the SD card.

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 |

## Immediate Update

Enter the [Firmware Update] menu in the SP mode and update the package firmware.

- 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 (Error Screens During Updating).

1. Enter the SP mode.
2. Touch [Firmware Update].

3. Touch [Update].

4. Touch [Execute Update].

5. Touch [YES].

6. The following display will be displayed.


- 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.

7. [Update done] is displayed.

- The machine will automatically reboot itself.

- The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".


## Update at the Next Visit (Reserve)

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.

Enter the [Firmware Update] menu in the SP mode and update the package firmware.


- 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].

3. Touch [Reserve].

4. Touch [Reservation setting].

5. 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.



## 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].

3. Touch [Reserve].

4. Touch [Reserve and received package information].

5. Check the information displayed.

When the package firmware was downloaded successfully, the details of the download result are displayed as the following picture shows.


- 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].

3. Touch [Update].

4. Touch [Execute Update].

5. Check the version of the received package firmware, and then touch [YES].

- Update is started.



## H4

- If the version of the reserved package in the HDD 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 HDD (old version), touch [Execute] beside the message "Update to the received package."

6. [Update done] is displayed.

- The machine will automatically reboot itself.

- 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.

- 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 (xxxxxxxx.pkg) to this folder.


## 

- 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. Insert the SD card which contains the package into SD card slot 2 (for service).
5. Turn the power ON and touch [Update].


- 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.


6. Update is started automatically after the package firmware download to the HDD has been completed.
7. When update is completed, "Update done" is displayed.


- The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

8. Turn the main power switch OFF, and then pull out the SD card from SD card slot 2 .
9. Turn the power ON.

## Firmware Update (Auto Remote Firmware Update)

## 

- Auto remote firmware update (ARFU) requires connection to an external network. Be sure to get permission from the customer before setting.
- Internet connection is needed.


## 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 (\#).
Firmware not included in the package requires updating by SD cards, etc.

| Included | Firmware |
| :--- | :--- |
| - | aics |
| - | animation |
| - | Application Site |
| - | BluetoothService |
| - | CheetahSystem |
| - | CSPF |
| - | Data Erase Onb |
| - | EcoInfoWidget |
| - | Engine |


| Included | Firmware |
| :--- | :--- |
| - | External Auth |
| - | Fax |
| - | FaxInfoWidget |
| - | GWFCU3.8-9(WW) |

## Downloading and Updating Process


■ ■! -

Downloads the latest package
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 hard disk, information concerning the current firmware package becomes lost from the hard disk. So, even if the latest firmware is on the new hard disk, be sure to download 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 as 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.

Update judgement is done when the latest update package is successfully downloaded, or the package has already been downloaded.


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.


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


## 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 |
| 13 | e.g.) Waiting for DCS transfer (refer to appendix), accessing devices such as HDD/SD card, etc. |
| 14 | While displaying a preview |
| 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 |

## 5.System Maintenance

Update Process
When the machine has decided to run the auto firmware update, the following message is displayed.


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 | 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.


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. 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
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 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.

## Related SP

| SP Number | Selection <br> Def. | Overview |
| :--- | :--- | :--- |
| SP5-886-111 | $0:$ OFF <br> $\mathbf{1 : ~ O N ~}$ | Sets auto update ON/OFF by ARFU. |

## 5.System Maintenance

| SP Number | Selection <br> Def. | Overview |
| :---: | :---: | :---: |
| SP5-886-112 | $\begin{array}{\|l\|} \hline \mathbf{0}: \text { OFF } \\ 1: \text { ON } \end{array}$ | Will not run the update when update prohibited time setting is ON and the current time is in the range of the time set. <br> - Start time < End time: Prohibited time is from the start time to the end time on the same day. <br> - Start time $>$ End time: Prohibited time is from the start time to the end time on the next day. <br> - $\quad$ Start time $==$ End time: Prohibited time setting is disabled. (Update will not be prohibited.) |
| SP5-886-113 | $\begin{aligned} & 0 \text { to } 23 \\ & 9 \end{aligned}$ |  |
| SP5-886-114 | $0 \text { to } 23$ $17$ |  |
| SP5-886-115 | $\begin{aligned} & \text { 0: OFF } \\ & \text { 1: ON } \end{aligned}$ | Even when the update function is disabled, downloading the package is allowed. <br> The downloaded package can be used with SFU. |
| SP5-886-116 | Display only | Displays when the latest package check will run. |
| SP5-886-117 | $\begin{aligned} & 1 \text { to } 24 \\ & \mathbf{1} \end{aligned}$ | Set time for the next version check after retry. |
| SP5-886-120 | 0x00 | Update will not run if the corresponding bit for each day below is set to 1 . <br> - prohibited:bit7 <br> - Monday: bit 6 <br> - Tuesday: bit 5 <br> - Wednesday: bit 4 <br> - Thursday: bit 3 <br> - Friday: bit 2 <br> - Saturday: bit 1 <br> - Sunday: bit 0 <br> This setting is not affected by the prohibited time setting. <br> e.g.) Prohibited on Mon., Fri., Sat., and Sun. : 0x47 (01000111) |
| $\begin{aligned} & \text { SP7-520-011 } \\ & \text { to } 015 \end{aligned}$ | Display only | History of date and time when update has started. <br> The five most recent are recorded, the lowest number being most recent. <br> If the last update failed, this is not recorded. |
| $\begin{aligned} & \text { SP7-520-021 } \\ & \text { to } 025 \end{aligned}$ | Display only | History of date and time when update has finished. <br> The five most recent are recorded, the lowest number being most recent. <br> The record is created when the update has successfully finished. <br> When the update is cancelled, no record is created. |
| $\begin{aligned} & \text { SP7-520-031 } \\ & \text { to } 035 \end{aligned}$ | Display only | History of the package number (including suffix) for which update has completed. <br> The five most recent are recorded, the lowest number being most recent. <br> The record is created when the update has successfully finished. |


| SP Number | Selection <br> Def. | Overview |
| :--- | :--- | :--- |
|  |  | When the update is cancelled, no record is created. |
| SP7-520-041 <br> to 045 | Display <br> only | History of the package version for which update has completed. <br> The five most recent are recorded, the lowest number being most recent. <br> The record is created when the update has successfully finished. <br> When the update is cancelled, no record is created. |
| SP7-520-051 <br> to 060 | Display <br> only | History of the result of the download and the update. <br> 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 as the machine is now downloading the package for SFU. |
| 2 | HDD uninstalled | Cannot download or update as the machine has no HDD. |
| 3 | Updating with SFU | Cannot download or update as the machine is being updated with SFU. |
| 4 | HDD error | Cannot download or update as the HDD cannot be used. |
| 5 | Version information obtain error | Cannot download or update as the version information cannot be obtained. |
| 6 | Update download error | Cannot download or update as the update download failed. In non @Remote method, this shows that the download failed because there was no proxy set. |
| 7 | Name resolution error | Cannot download or update as 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 as 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 as 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). <br> Or the day which update was initiated was a day for which update was prohibited (SP5-886-120). |
| 10 | Update postponed due to machine in use | Cannot start update due to the following conditions when update was initiated. <br> - The machine is in use by a user (the panel was used within 30 seconds) <br> - Machine offline for other reasons <br> - Operation prohibited |


| No. | Result | Description |
| :---: | :---: | :---: |
|  |  | - Displaying SP/UP menu <br> - Firmware update is running with another method <br> - Configuration change prohibited <br> - Verifying the operation panel (smart panel) |
| 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 as 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 cancelled by user after update initiated | Update was cancelled after the process initiated because a user selected "Cancel" during the update. |
| 16 | Update deemed completed | 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: <br> - A newer update has been released and received. <br> - When retrying ARFU, the update has already been completed by another method. |
| 17 | Version information obtain error (proxy verification failure) | Cannot download or update as the proxy verification failed with proxy settings when obtaining version information. |
| 18 | Version information obtain error (other than proxy verification failure when proxy is set) | Cannot download or update as an error other than proxy verification with proxy settings occurred when obtaining version information. |
| 19 | Update download error (proxy verification failure) | Cannot download or update as the proxy verification failed with proxy settings when downloading the package. |
| 20 | Update download error (other than proxy verification failure when proxy is set) | Cannot download or update as an error other than proxy verification with proxy settings occurred when downloading the package. |
| 22 | Update by retry successful | After power failure, unsuccessful update, or rebooting, update by retry is executed successfully. <br> However, this does not apply to the case where the update was cancelled after the process was initiated because a user selected "Cancel". <br> 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). |

## Updating JavaVM

## Creating an SD Card for Updating

1. Download the update modules from Firmware Download Center. As one of the model modules, "Java VM v11 UpdateTool" is available for download. (The version differs depending on the model.)
2. Unzip the downloaded file. Copy the whole "sdk" folder to the root of the SD card directly below. FH:

- When unzipping the downloaded file, two subfolders ("update" and "sdk") exist in the "sdk" folder. Rather than just copying the subfolder "sdk", copy the whole folder "sdk".

Updating Procedure

## 

- SD card can be inserted with the machine power off.
- During the updating process, do not turn off the power.
- If you turn off the power during the updating, the machine performance is not guaranteed. (There is a possibility that an SC and boot failure occurs.)
- If you accidentally turn off the power during the updating, retry the updating procedure from the beginning. (If the update fails again, you will need to replace the controller board.)

1. If the boot priority application is set to the ESA application, switch to the copy application. ([System Settings]-[General Features]-[Function Priority])
2. Take a note of the current Heap size. ([Extended Feature Settings] - [Administrator Tools] - [Heap/Stack Size Settings])
3. Turn OFF the main power.
4. Insert the SD card you created into the service slot, and then turn ON the main power switch.
5. After booting Java VM, update of the application is started. "Updating SDK/J" appears in the banner message of the touch panel display. (Estimated time: about 2 minutes)
6. After completing the update and starting the Java VM, "Update SDK / J done SUCCESS" will appear in the banner message of the touch panel display. After turning off the power, remove the SD card from the slot. When you fail to update, "Update SDK/J done FAIL" is displayed. You can confirm the cause of the error message below.
7. Turn ON the main power.
8. Check the Heap size is set to the value that you noted in step 2. ([Extended Feature Settings]-[Administrator Tools]-[Heap/Stack Size Settings]).
9. Return to the previous setting for the boot priority application.

## List of Error Messages

Update results are output as a text file on the SD card called "sdkjversionup.log" in the "\sdk lupdate" folder.

| Result | File contents | Description of the output |
| :---: | :--- | :--- |
| Success | script file $=/ \mathrm{mnt} / \mathrm{sd} 0 / \mathrm{sdk} /$ update/bootscript | Boot script path |


| Result | File contents | Description of the output |
| :--- | :--- | :--- |
|  | $2012 / 08 / 22$ 17:57:47 start |  |
|  | $2012 / 08 / 22$ 17:59:47 end SUCCESS | Boot scripts processing start time |
| Failure | script file $=/ \mathrm{mnt} / \mathrm{sd} 0 /$ sdk/update/bootscript | End time boot script processing, the results |
|  | $2012 / 08 / 22$ 17:57:47 start | Boot script path |
|  | XXXX Error | Error message (Possibly multiple) |
|  | $2012 / 08 / 2217: 57: 57$ end FAIL | End time boot script processing, the results |


| Error Message | Cause | Remedy |
| :--- | :--- | :--- |
| PIECEMARK <br> Error,machine=XXXXX | Applied the wrong updating <br> tool (Using the updating <br> tool of a different model) | Use the correct updating tool for this model. |
| pasePut() - error : The file of the <br> copy origin is not found <br> Put Error! | Inadequacy with the SD <br> card for updating <br> (Files are missing in the <br> updating tool) | Re-create the SD card for updating. |
| paseCopy() - error : The file of <br> the copy origin is not found. <br> Copy Error! | Inadequacy SD card for <br> updating <br> (Files in the updating tool <br> are missing) | Inadequacy SD card for updating |
| (Files in the updating tool are missing) |  |  |


| Error Message | Cause | Remedy |
| :---: | :---: | :---: |
| [ XXXXX ] is an unsupported command. |  | 990-006/024/025), and error file." $*_{1}$ |
| Version Error |  | Without the foregoing error message, only "Put Error / Copy Error" will be displayed |

## Uploading Content of NVRAM to an SD card

Do the following procedure to upload SP code settings from NVRAM to an SD card.


- 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 SP5-990-001 (SP Print Mode: All(Data List)) before you switch the machine off. You will need a record of the NVRAM settings if the upload fails.

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
2. Turn OFF the main power.
3. Remove the SD card slot cover [A].

4. Insert the SD card into SD slot 2 [A].

5. Turn on the main power switch.
6. Execute SP5-824-001 (NVRAM Data Upload) and then press the "Execute" key.
7. The following files are coped to an NVRAM folder on the SD card when the upload procedure is finished. The file is saved to the path and the following filename:

NVRAM $<$ serial number>.NV
Here is an example with Serial Number "K5000017114":
NVRAM $\backslash K 5000017114 . N V$
8. 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.

## 

- 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 down load may fail if the SD card with the NVRAM data is damaged, or if the connection between the controller and BCU 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. Turn OFF the main power.
2. Remove the controller cover ( X 1 ).
3. Insert the SD card with the NVRAM data into SD slot 2 .
4. Switch the copier main power switch on.
5. Do SP5-825-001 (NVRAM Data Download) and press the "Execute" key.


- 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
- C/O, P/O Count


## UP/SP Data Import/Export

## Overview

Import/export conditions
Import/export is possible between devices only if their model type, region of use, and the following device configurations match.

- Input Tray
- Output Tray
- ARDF
- Whether or not equipped with a hard disk
- Whether or not equipped with a finisher and the type of finisher


## UP Data Import/Export

Data that can be imported and exported

- Copier / Document Server Features
- Printer Features
- Scanner Features
- Facsimile Features
- Browser Features
- Extended Feature Settings
- Program (Document Server)
- Program (Copier)
- Program (Scanner)
- Web Image Monitor Setting
- Web Service Settings
- System Settings

Data that cannot be imported or exported

- $\quad$ Some System Settings *1 *2
*1 The setting for the date, settings that require the device certificate, and settings that need to be adjusted for each machine (for example, image adjustment settings) cannot be imported or exported.
*2 Settings only for executing functions and settings only for viewing cannot be imported or exported.
- Extended Feature Settings
- Address book
- Programs (fax function)
- Programs (printer function)
- User stamp in Copier / Document Server Features
- Settings that can be specified via telnet

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-@Remote-related data

- Counters
- EFI printer unit settings
- Settings that can only be specified via Web Image Monitor or Web Service (for example, Bonjour, SSDP setting)

Exporting Device Information
This can be exported / imported by an administrator with all privileges.
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. Log in from the control panel as an administrator with all privileges.
3. Press [User Tools] icon $>$ [Machine Features] $>$ [System Settings].
4. Press [Administrator Tools].
5. Press [Device Setting Information: Export (Memry Strge Devc)].

6. Set the export conditions.


- Specify whether to [Include] or [Exclude] the "Device Unique Information". "Device Unique Information" includes the IP address, host name, fax number, etc.
- Specify an encryption key.

7. Press [Run Export].
8. Press [OK].

## 5.System Maintenance

## 9. Press [Exit].

10. Log out.


- If data export fails, the details of the error can be viewed in the log.
- When device Information is periodically imported, it is necessary to create the device setting information file with special software and store it on the web server.


## Importing Device Information

This can be exported / imported by an administrator with all privileges.
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. Log in from the control panel as an administrator with all privileges.
3. Press [User Tools] icon $>$ [Machine Features] $>$ [System Settings].
4. Press [Administrator Tools].
5. Press [Device Setting Information: Import (Memry Strge Devc)].
6. Configure the import conditions.






- Press [Select] of the "Device Setting Info. File" to select the file(s) to import.
- When inserting a file into a home screen, press [Select] for the Image for Home screen and select the file. You cannot use this setting when using the Smart Operation Panel.
- Specify whether to [Include] or [Exclude] the "Device Unique Information". "Device Unique Information" includes the IP address, host name, fax number, etc.
- Enter the encryption key that was specified when the file was exported.

7. Press [Run Import].
8. Press [OK].
9. Press [Exit].

The machine restarts.

- If data export fails, the details of the error can be viewed in the log.


## 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. Press SP5-749-001 (Import/Export: Export)
4. Select "Target" SP settings (System/Printer/Fax/Scanner/Smart Operation Panel) to be exported.
5. Select "Option" settings (Unique/Secret).

| Item | Specification | Note |
| :---: | :---: | :---: |
| Unique | Unique information of the machine is included in the exported file if you select "Unique" setting. | Unique information that can be updated \#1. Items that are to be used to identify the machine. <br> Example: Network Information/ Host name / <br> Information related to fax number /Mail address assigned to the machine <br> \#2. Items for specifying the options equipped on the machine. <br> Example: Lot number for developer <br> Unique information that cannot be updated <br> \#1. Items that may cause a problem if imported <br> Example: Serial number / Information related to <br> @ Remote <br> \#2. Items for managing the history of the machine <br> Example: Time and date / Counter information / <br> Installation date <br> \#3. Setting values for the Engine |
| Secret | Secret information is exported if you select "Secret" setting. | Secret information <br> \#1. Data that cannot be exported without being encrypted. <br> (Exported data is encrypted.) <br> Example: Password / Encryption key / PIN code <br> \#2. Confidential information for the customer |

## 5.System Maintenance

| Item | Specification | Note |
| :---: | :---: | :--- |
|  |  | Example: User name / User ID / Department code |
|  |  | / Mail address / Phone number |
|  |  | \#3. Personal information |
|  |  | Example: Document name / Image data |
|  |  | \#4. Sensitive information for the customer |
|  |  | Example: MAC address / Network parameters |

* The IP address is exported when both 'Unique' and 'Secret' are selected.

6. Select "Crpt config" setting (Encryption).

| Encryption | Select whether to encrypt or not when <br> exporting. <br> If you push the "Encryption" key, you <br> can export secret information. | If the encryption function is used, setting of an <br> encryption key is required by direct input. <br> - Type the arbitrary password using the soft <br> keyboard |
| :--- | :--- | :--- |
| • Can enter up to 32 characters |  |  |

7. Press [Execute].
8. Press [OK].

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- 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. Press SP5-749-101(Import/Export: Import)
4. Select a unique setting.
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 <br> machine, select the "Unique" key. | Refer to the above <br> information. |
| :--- | :--- | :--- |
| Encryption | If an encrypted file is selected as the import file, this setting is <br> required. |  |

7. Press [Execute].
8. Press [OK].


- 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


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 <br> 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 <br> 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. |
| 10 (LOG <br> ERROR) | The hard disk is faulty. | Contact your supervisor. |
| 20 (PART <br> FAILED) | Failed to import some settings. | The reason for the failure is logged in "NgCode". Check the code. <br> Reason for the Error (Ng-Name) <br> 2. INVALID VALUE <br> The specified value exceeds the allowable |


| Result Code | Cause | Solutions |
| :---: | :---: | :---: |
|  |  | range. <br> 3. PERMISSION ERROR <br> The permission to edit the setting is missing. <br> 4. NOT EXIST <br> The setting does not exist in the system. <br> 5. INTERLOCK ERROR <br> The setting cannot be changed because of the system status or interlocking with other specified settings. <br> 6. OTHER ERROR <br> The setting cannot be changed for some other reason. |
| 21 (INVALID FILE) | Failed to import the file because it is in the wrong format in the external medium. | Check whether the file format is correct. <br> The import file should be a CSV file. |
| 22 (INVALID KEY) | The encryption key is not valid. | Use the correct encryption key. |

## Fiblay

- 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.


## Address Book Upload/Download

## Information List

The following information is possible to be uploaded and downloaded.

## Information

- Registration No.
- User Code
- E-mail
- Protection Code
- Fax Destination
- Fax Option
- Group Name
- Key Display


## Download

Backup address book information on SD card formatted with the specified software.

1. Prepare a formatted SD card.
2. Make sure that the write-protection on the SD card is off.
3. Turn OFF the main power.
4. Remove the SD slot cover [A].


## 5.System Maintenance

5. Insert the SD card in the service slot [A].

6. Enter the SP mode.
7. Do SP5-846-051 (Backup All Addr Book).
8. Exit the SP mode, and then turn OFF the main power switch.
9. Remove the SD card.
10. Attach the SD slot cover to the original position ( x 1 ).

- If the capacity of SD card is not enough to store the local user information, an error message is displayed.
- Carefully handle the SD card, which contains user information. Do not take it back to your location.


## Upload

1. Turn OFF the main power.
2. After removing the SD slot cover of the controller unit, set the SD card in the service slot.
3. Turn ON the main power.
4. Enter the SP mode.
5. Do SP5-846-052 (Restore All Addr Book).
6. Exit the SP mode, and then turn OFF the main power switch.
7. Remove the SD card.
8. Attach the SD slot cover to the original position ( x 1 ).
9. Turn ON the main power, and check that the address book has been restored.


- The counter in the user code information is initialized after uploading.
- The information of an administrator and supervisor cannot be downloaded nor uploaded.
- If there is no data of address book information in the SD card, an error message is displayed.
- If a download file does not exist, or if erasure is complete, execution malfunction is displayed.


## Specification

The information which can be exported /imported is the following items.

- Entry information
- User code information
- E-mail information
- Protection code information
- Fax information
- Fax additional information
- Group information
- Title information
- Title position information
- Folder information
- SMTP attestation
- Local authorization
- Folder authorization information
- Account ACL information
- New document initial ACL information
- LDAP authorization information


## Capturing the Device Logs

## Overview

With this feature, you can save device logs that are stored in the machine (HDD or operation panel) on an SD card. 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
- Engine device log
- FCU device log
- Operation panel log


## -

- 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 Device Logs. Otherwise, the latest settings may not be collected when the device logs are retrieved.


## Types of device logs that can be saved

| Type | Storage Timing | Destination (maximum storage capacity) |
| :---: | :---: | :---: |
| Controller device log including operation log | - Saved at all times | HDD (4 GB) or SD card connected to the service slot. <br> When the data gets over 4.0 GB, the older data is deleted. |
| Engine device log | - When an engine SC occurs <br> - When paper feeding/output stop because of a jam <br> - When the machine doors are opened during normal operation | HDD or SD card connected to the service slot (Up to 300 times) |
| FCU device log | - When a specified amount of FCU device log is stored in the FCU. If fax application is unavailable (e.g. not installed), the machine does not transfer the log. | HDD or SD card connected to the service slot |
| Operation panel log | - When an error related to the operation panel occurs. | Memory in the operation panel. |

- 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 the power supply to the HDD is off because of energy saving (engine OFF mode/STR mode)
- When one of the following SCs occurs: SC672, SC816, SC819, SC878, SC899, SC859, SC860, SC861, SC863, or SC864


## 

- 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

Also the following operation logs are not saved.

- Number keys ( 0 to 9 ) on the operation panel
- Soft keyboard on the touch panel display
- External keyboard


## Retrieving the Device Logs via Operation Panel

## -1 1

- Retrieve device logs to identify the date of occurrence of the problems and to find details of the problems


## 5.System Maintenance

- e.g.: At around 8:00 am on March 10, an engine stall occurred. The operation panel does not respond. Turn the main power supply off / on.
- 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.


## Procedure for Retrieving the Device Log with SD Card

1. Insert the SD card into the slot on the side of the operation panel or the service slot.
```
4
```

- It is recommended to use the SD card ( $2 \mathrm{GBs}^{*}$ or $8 \mathrm{GBs}^{* *}$ ) 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/ (free software)
- Insert the SD card into the machine's service slot instead of the SD slot on the side of the operation panel.
* The part number of the SD card with 2 GBs that is registered as a service part is "B6455030".
** The part number of the SD card with 8 GBs that is registered as a service part is "B6455040".

2. Turn ON the main power.
3. Enter SP mode.
4. 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", as shown above.
- Be sure to confirm the date when the problem occurred before obtaining the logs.

5. Specify the number of days to collect the logs in SP5-858-102 (Days of Tracing).

- $\quad 2$ " is set by default, which is the minimum needed for investigating the problem.
- A value of "1" to "180" can be set.

6. 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- | All of the information and logs that are collected by executing the SPs from SP5-858-121 to |
| 111 | SP5-858-145, and SMC. |
| SP5-858- <br> 121 | Configuration page |
| SP5-858- <br> 122 | Font page |
| SP5-858- <br> 123 | Print settings list |
| SP5-858- | Error log |


| SP | Collectable Information and/or Logs |
| :--- | :--- |
| 124 |  |
| SP5-858- <br> 131 | Fax information (whether the fax destinations are included or not depends on the setting of <br> SP5-858-103.) |
| SP5-858- <br> 141 | Controller log, engine log, operation panel log, FCU, and SMC. |
| SP5-858- <br> 142 | Controller log |
| SP5-858- <br> 143 | Engine log |
| SP5-858- <br> 144 | Operation panel log |
| SP5-858- <br> 145 | FCU log |
| SP5-992- <br> 001 | SMC |

7. 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"


## H1

- 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 <br> Code |  |
| :--- | :--- |
| -1 | Other. |
| -2 | No SD card is inserted in the service slot or in the SD slot on the side of the operation panel. In <br> this case, insert an SD card into either of the SD slots. |


| Error <br> Code |  |
| :--- | :--- |
| -3 | The SD card is locked. In this case, unlock the SD card, as shown below. |
|  |  |
|  |  |
| [A]: Unlocked, [B]: Locked |  |

8. Wait for the information and/or logs to be copied to the SD card.

9. 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 is not flashing and then remove the SD card.
10. Make sure that the SD card access LED is off, then remove the SD card.


- 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

## 

$-2+1+2+1+2$

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 "On" as "Obtain Fax Destination(s) Information". Then click "Download".


## 1

- "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.


- To cancel downloading, click "Cancel".
- To reconfigure some settings, click "Download again".


## 5.System Maintenance

- Operation panel when downloading the logs:


4. After a while, the open-or-save dialog will appear. Specify where to download and save the file.


## 

- 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 (mmesg) | /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/ConfigrationPage/ConfigrationPage_ [yyyymmdd_hhmmss].csv |
| Font page | - /LogTrace/[the model number]/gps/FontPage/FontPage_PCL_[the page number]_[yyyymmdd_hhmmss].jpg <br> - /LogTrace/[the model number]/gps/FontPage/FontPage_PDF_[the page number]_[yyyymmdd_hhmmss].jpg <br> - /LogTrace/[the model number]/gps/FontPage/FontPage_PS_[the page number]_[yyyymmdd_hhmmss].jpg |
| Print settings list | - /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RPGL_[yyyymmdd_hhmmss].txt <br> - /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RTIFF_[yyyymmdd_hhmmss].csv |
| Error log | /LogTrace/[the model number]/gps/ErrorLog/[yyyymmdd_hhmmss].csv |


| Fax information | /LogTrace/[the model number]/faxreport/[yyyymmdd_hhmmss].csv |
| :--- | :--- |
| FCU debug log | /LogTrace/[Machine Serial]/fculog/[yyyymmdd_hhmmss].gz |

## SMC List Card Save Function

Overview

SMC List Card Save
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.

- 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 main power.
2. Insert the SD card into the operation panel SD-card slot, and then turn OFF the main power.
3. Enter SP mode.
4. Select "System SP".

5. Select SP5-992-001 (SP Text Mode).
6. Select a detail SP number shown below to save data on the SD card.

SP5-992-xxx (SP Text Mode)

| Detail No. | SMC Categories to Save |
| :--- | :--- |
| 001 | All (Data List) |
| 002 | SP (Mode Data List) |
| 003 | User Program |
| 004 | Logging Data |
| 005 | Diagnostic Report |
| 006 | Non-Default |
| 007 | NIB Summary |
| 008 | Capture Log |
| 021 | Copier User Program |


| Detail No. | SMC Categories to Save |
| :--- | :--- |
| 022 | Scanner SP |
| 023 | Scanner User Program |
| 024 | SDK/J Summary |
| 025 | SDK/J Application Info |
| 026 | Printer SP |
| 027 | Smart Operation Panel SP |
| 028 | Smart Operation Panel UP |

7. Press [EXECUTE].

8. Press [EXECUTE] again to start. Press [CANCEL] to cancel the saving.

9. "It is executing it" is shown on the screen while executing.

10. Wait for 2 to 3 minutes until "Completed" is shown.

## H

- 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.

File Names of the Saved SMC Lists

The SMC list data saved on the SD-card will be named automatically. The file naming rules are as follows.
Example:


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 upper 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.


- 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.

## 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

1. Turn OFF the main power.
2. Insert the SD card into slot 2 (lower), then turn ON the main power.
3. Enter SP mode.
4. Select the "Printer SP".
5. Select SP-1001 "Bit Switch".

6. Select "Bit Switch 1 Settings" and use the numeric keypad to turn bit 4 ON and then press the "\#" to register the change. The result should look like: 00010000 . By doing this, Card Save 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. Select "Printer Features".

10. Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (Add) or Card Save (New).


## 5.System Maintenance

11. Press "OK" and then return to Home screen.

12. Press the "Printer (Classic)" icon.

13. "Hex Dump Mode" is be 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 , then press the "\#" in the numeric keypad to register the changes.
18. Remove the SD card after the main power switch is turned OFF.

## Error Messages

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

## Self-Diagnostic Mode

## Service Call Conditions

The 'SC Table' section shows the SC codes for controller errors and other errors. The latter are put into four types. The type is determined by their reset procedures. The table shows the classification of the SC codes.

| Type | Display | How to reset | SC call or SC alarm in customer support system |
| :---: | :---: | :---: | :---: |
| A | The SC is immediately displayed on the operation panel when SC occurs. The error involves the fusing unit. The 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 <br> Immediate alarm |
| B | When a function is selected, the SC is displayed on the operation panel. <br> The machine cannot be used (down-time mitigation). | Turn the operation switch off and on. | Occurrence \& alarm count <br> Power OFF and ON <br> Alarm count and alarm only if recurrence |
| C | No display on the operation panel. The machine operates as usual. | Only the SC history is updated. | Occurrence <br> Logging count \& alarm count |
| D | The SC is displayed on the operation panel. The machine cannot be used (machineerror SC). | Turn the main power switch off and on. | Occurrence \& alarm count <br> Power OFF and ON <br> Alarm count and alarm only if recurrence |

- 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, an * mark is added alongside the SC number for clarity.
- 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 the pattern A or C .

## SC Logging

When an SC is generated, the "total count value when the SC is generated" and the "SC code" are logged.
However, if the total count value during the SC is the same as last time, logging is not performed.
Logged data can be checked by outputting an administrative report (SMC print). The SC history is logged up to the last 10 entries, and if there are more than 10 entries, data are progressively deleted starting from the oldest.

## SC Automatic Reboot

When an ordinary SC (pattern D ) is generated, automatically reboot is performed. Automatic reboot or reboot by user operation can be set by SP5-875-001 (SC automatic reboot setting out) (default value: 1 "OFF").
When a type D occurs, automatic reboot is done or the machine display asks the customer if it can reboot.
However, when the SC occurs twice in a short time, the machine sends a report to the @Remote server without rebooting. This is because just rebooting may not be a good solution if an SC occurs twice.

When an automatic reboot is performed, a confirmation screen is displayed after reboot. The confirmation screen can be cancelled by pressing the [OK] key (display is not cancelled only when the main power switch is switched OFF to ON).

## Screen display during reboot

- Status display on the current screen
- Post-processing ...... Post-processing during printing, etc.
- Automatic reboot .... After operation end

Post-processing

Until automatic reboot


- Reset key (Reboot key)

Key to perform reboot
6.Troubleshooting
\# Cancel key is not displayed.

- Turn ON spanner LED (same as when an SC is generated).


## Operation during SC reboot

- Timing of SC reboot

When @Remote is enabled, and when a NRS alarm*1 is not generated, the corresponding SC is the object of an automatic reboot.
*1 NRS alarm: Issued when an ordinary SC (type D) is generated twice while the total counter counts 10 times.

- Time to automatic reboot

Reboot is performed 30 seconds after an engine reboot is possible, after the end of post-processing during printing, etc.
At that time, a reboot is performed even if the MFP is operating. The engine does not start process control when a reboot is possible.

- Automatic reboot

See the flowchart below.


SC Manual Reboot
When the automatic reboot is disabled in SP5-875-001 (SC automatic reboot setting), user reboot the machine manually. See the flowchart below.


1 日


## SC Tables: SC1xx (Scanning)

SC101-01 to SC195-00

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC101- } \\ & 01 \end{aligned}$ | D | Lamp Error (Scanning) |
|  |  | The white level peak did not reach the prescribed threshold when the white guide plate was scanned. |
|  |  | - Condensation in scanner unit <br> - Connector defective (disconnected, loose) <br> - Scanner Carriage defective <br> - IPU defective <br> - Harness defective <br> - White Reference Seal dirty or installed incorrectly (sheet-through exposure glass) <br> - White Guide Plate, or White Roller dirty or installed incorrectly (SPDF/ARDF) <br> - BCU defective |
|  |  | 1. Perform a system reboot. <br> 2. Turn the power off/on. <br> 3. Reconnect the connectors. <br> 4. Replace the following parts: <br> - Replace the scanner carriage <br> - Replace the IPU board <br> - Replace the harness <br> - Clean and replace the white reference seal (sheet-through exposure glass) <br> - Clean and replace the white guide plate, or white roller (SPDF/ARDF) <br> - Replace the BCU board |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC101-02 | D | LED Error (LED illumination adjustment) |
|  |  | LED error was detected. |
|  |  | - Condensation in scanner unit <br> - Connector defective (disconnected, loose) <br> - Scanner Carriage defective <br> - IPU defective <br> - Harness defective <br> - White Reference Seal dirty or installed incorrectly (sheet-through exposure glass) <br> - BCU defective |
|  |  | 1. Perform a system reboot. <br> 2. Turn the power off/on. |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | 3. Reconnect the connectors. <br> 4. Replace the following parts: <br> - Replace the scanner carriage <br> - Replace the IPU board <br> - Replace the harness <br> - Clean and replace the white reference seal (sheet-through exposure glass) <br> - Replace the BCU board |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC102-$00$ | D | LED Illumination Adjustment Error |
|  |  | The white level peak reached the prescribed threshold (ex. 571/10 bit) when the white plate was scanned after a specified number of adjustments (ex. 10 times). |
|  |  | - Connector defective (disconnected, loose) <br> - Scanner Carriage defective <br> - IPU defective <br> - Harness defective <br> - BCU defective |
|  |  | 1. Perform a system reboot. <br> 2. Turn the power off/on. <br> 3. Reconnect the connectors. <br> 4. Replace the following parts: <br> - Replace the scanner carriage <br> - Replace the IPU board <br> - Replace the harness <br> - Clean and replace the white reference seal (sheet-through exposure glass) <br> - Replace the BCU board |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC120- } \\ & 00 \end{aligned}$ | D | Scanner Home Position Error 1 |
|  |  | The scanner HP sensor does not go OFF. <br> Details: <br> Error detection timing <br> - During homing (when the machine is turned ON or when it returns from energy save mode) <br> - During an automatic adjustment (when the machine is turned ON or when it returns from energy save mode) <br> - During a scan from the ADF/ARDF or exposure glass. |
|  |  | - Scanner motor driver defective |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Scanner motor defective <br> - Scanner HP sensor defective <br> - Harness defective <br> - Timing belt, pulley, wire, or carriage not installed correctly |
|  |  | Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. <br> 1. Replace the following parts: <br> - Replace the HP sensor <br> - Replace the scanner motor <br> - Replace the harness. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC121- } \\ & 00 \end{aligned}$ | D | Scanner Home Position Error 2 |
|  |  | The scanner HP sensor does not go ON. <br> Details: <br> Error detection timing <br> - During homing <br> - During an automatic adjustment <br> - During a scan from the ADF/ARDF or exposure glass. |
|  |  | - Scanner motor driver defective <br> - Scanner motor defective <br> - Scanner HP sensor defective <br> - Harness defective <br> - Timing belt, pulley, wire, or carriage not installed correctly |
|  |  | Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the following steps. <br> 1. Replace the following parts: <br> - Replace the scanner HP sensor <br> - Replace the scanner motor <br> - Replace the harness. <br> - Reattach or replace the timing belt, pulleys, wires, or carriage unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC141- <br> 00 | D | Black Level Detection Error |
|  |  | The black level cannot be adjusted within the target during auto gain control. |
|  |  | $\bullet$ <br> $\bullet$ <br> $\bullet$ |



| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC142- } \\ & 00 \end{aligned}$ | D | White Level Detection Error |
|  |  | The white level cannot be adjusted to the second target level within the target during auto gain control. |
|  |  | - Scanner Carriage defective <br> - IPU defective <br> - Harness defective <br> - Connector defective (disconnected, loose) <br> - Condensation in scanner unit <br> - White plate dirty or installed incorrectly |
|  |  | 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. <br> 1. Reconnect the following connectors: <br> - $\quad$ Scanner Carriage - IPU harness (FFC) <br> - SBU - LEDB (scanner lamp unit) harness (FFC) <br> - IPU- BCU harness <br> 2. Check the white reference seal that attached back of sheet-through exposure glass. <br> Replace the sheet-through exposure glass, if dirty or damaged. <br> 3. Replace the scanner carriage. <br> 4. Replace the IPU. <br> 5. Replace the following harnesses: <br> - Scanner Carriage - IPU harness (FFC) <br> - IPU - BCU harness <br> 6. Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC144- } \\ & 00 \end{aligned}$ | D | SBU Communication Error |
|  |  | - The machine cannot detect that the Scanner Carriage is connected. <br> - The machine cannot communicate with the Scanner Carriage. <br> - The communication data is incorrect. |
|  |  | - Scanner Carriage defective <br> - IPU defective <br> - BCU defective <br> - Harness 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. <br> 1. Reconnect the following connectors: <br> - Scanner Carriage - IPU harness (FFC) <br> - IPU- BCU harness <br> 2. Replace the Scanner Carriage. <br> 3. Replace the IPU. <br> 4. Replace the BCU. <br> 5. Replace the following harnesses: <br> - Scanner Carriage - IPU harness (FFC) <br> - IPU - BCU harness |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC15100 | D | Black Level Error: Side 2 |
|  |  | The black level scanned is not specified range. |
|  |  | - CIS for SPDF defective <br> - SPDF main board defective <br> - Harness 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. <br> 1. Reconnect the SPDF main board - CIS connectors if they are disconnected, or loose. <br> 2. Replace the CIS for SPDF <br> 3. Replace the following harnesses: <br> - SPDF main board - CIS <br> - IPU -SPDF main board <br> 4. Replace the SPDF main board. |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC15200 | D | White Level Error: Side 2 |
|  |  | The shading data peak value read out from the CIS is not specified range from the target value. |
|  |  | - CIS defective <br> - White roller defective <br> - SPDF main board defective <br> - Harness 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. <br> 1. Reconnect the SPDF main board - CIS connectors if they are disconnected, or loose. <br> 2. Replace the CIS for SPDF <br> 3. Replace the following harnesses: <br> - SPDF main board - CIS <br> - IPU -SPDF main board <br> 4. Replace the SPDF main board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC154-$00$ | D | Scanner Communication Error: Side 2 |
|  |  | The value read out from the ASIC and FROM area inside the CIS is different from the expected value. |
|  |  | - CIS defective <br> - "FROM" area error <br> - SPDF main board defective <br> - Connector defective (loose, broken) |
|  |  | 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. <br> 1. Reconnect the SPDF main board - CIS connectors if they are disconnected, or loose. <br> 2. Replace the CIS for SPDF <br> 3. Replace the following harnesses: <br> - SPDF main board - CIS <br> - IPU -SPDF main board <br> 4. Replace the SPDF main board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC161- | D | IPU error (Lsync Error: Side 2) |
| 02 |  |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Harness defective between CIS and IPU (disconnected, loose) <br> - CIS defective <br> - IPU defective (ASIC: Macaron error) |
|  |  | 1. Perform an automatic reboot. <br> 2. Turn the power off/on. <br> 3. Replace the following parts: <br> - Replace the harness. <br> - Replace the CIS. <br> - Replace the IPU (BCU) board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC161- } \\ & 20 \end{aligned}$ | D | IPU error (DRAM initialization failure) |
|  |  | An error occurred during performed every time the machine is turned on, or returns to full operation from energy save mode. |
|  |  | - IPU defective (Macaron/ DRAM device connection error) <br> - DRAM device defective |
|  |  | 1. Perform an automatic reboot. <br> 2. Turn the power off/on. <br> 3. Replace the following parts: <br> - Reconnect the connector. <br> - Replace the harness. <br> - Replace the CIS. <br> - Replace the IPU (BCU) board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC195-00 | D | Machine Serial Number Error |
|  |  | Comparison of the product identification code in the machine serial number (11 digits). |
|  |  | The product identification code in the machine serial number (11 digits) does not match. |
|  |  |  |

## SC Tables: SC2xx (Exposure)

## SC202-00 to SC272-10

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC202- | D | Polygon Motor: ON Timeout Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC203- } \\ & 00 \end{aligned}$ | D | Polygon Motor: OFF Timeout Error |
|  |  | The XSCRDY signal (polygon ready) never becomes inactive (H) within 3 sec. after the polygon motor went OFF. |
|  |  | - The interface harness to the polygon motor driver damaged or not connected correctly. <br> - Polygon motor or polygon motor driver defective <br> - Polygon motor drive pulse cannot be output correctly. (Polygon controller) <br> - XSCRDY signal observation failing (Polygon controller) |
|  |  | - Turn the power off/on. <br> - Replace the laser unit. <br> - Replace the harness. <br> - Replace the IPU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC204- } \\ & 00 \end{aligned}$ | D | Polygon Motor: XSCRDY Signal Error |
|  |  | During polygon motor rotation, the XSCRDY signal was inactive (H) for longer than one rotation of the polygon. |
|  |  | - The interface harness to the polygon motor driver damaged or not connected correctly. <br> - Polygon motor or polygon motor driver defective |
|  |  | - Turn the power off/on. <br> - Replace the laser unit. <br> - Replace the harness. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | $\bullet \quad$ Replace the IPU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{SC} 220- \\ & 00 \end{aligned}$ | D | Laser Synchronization Detection Error: Leading Edge |
|  |  | The laser synchronizing detection signal for the start position of the LD was not output for 200 msec . after LDB unit turned on with the polygon motor rotating normally. |
|  |  | - The interface harness to the synchronization detection unit damaged or not connected correctly. <br> - Synchronization detection board defective <br> - Beam does not enter photo detector. <br> - Abnormality around GAVD <br> - IDB (LED driver) defective <br> - LDB defective <br> - IPU defective |
|  |  | - Turn the power off/on. <br> - Replace the laser unit. <br> - Replace the harness. <br> - Replace the IPU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC230- } \\ & 00 \end{aligned}$ | D | FGATE ON Error |
|  |  | The FGATE signal did not turn ON within the given time period after the writing process started. |
|  |  | - GAVD defective <br> - Image processing ASIC defective <br> - BCU, controller board not connected correctly or defective <br> - Harness between BCU and LDB defective |
|  |  | - Turn the power off/on. <br> - Replace the harness between IPU and laser unit. <br> - Replace the IPU board. <br> - Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC231- | D | FGATE OFF Error |
|  |  | The FGATE signal did not turn OFF within the given time period after the writing process <br> ended. |
|  |  | $\bullet$ GAVD defective |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Image processing ASIC defective <br> - IPU, controller board not connected correctly or defective <br> - Harness between IPU and LDB defective |
|  |  | - Turn the power off/on. <br> - Replace the harness between IPU and laser unit. <br> - Replace the IPU board. <br> - Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC240-00 | D | LD Error |
|  |  | - The LD error status of LD driver is asserted after the LD is initialized. <br> - The LD driver's error signal is detected during LD initialization. |
|  |  | - LD degradation (LD broken, shift of output characteristics etc.) <br> - The interface harness damaged or not connected correctly. <br> - LD driver defective |
|  |  | - Cycle the main power off/on. <br> - Replace the laser unit. <br> - Replace the harness. <br> - Replace the IPU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{SC} 272- \\ & 01 \end{aligned}$ | D | LD Driver Communication Error |
|  |  | If the value is not same when the machine reads and writes the same registration at the machine start-up. <br> If the communication parity retries three consecutive times, the SC is generated. |
|  |  | - CPU defective <br> - IPU defective <br> - BCU defective <br> - Harness defective |
|  |  | - Cycle the main power off/on. <br> - Replace the laser unit. <br> - Replace the harness. <br> - Replace the IPU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC272-10 | D | LD Driver Communication Error: Others |
|  |  | If the "Door Open" status does not change to "Door Close" after closing the door. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - CPU defective <br> - IPU defective <br> - BCU defective <br> - Harness defective |
|  |  | - Cycle the main power off/on. <br> - Replace the laser unit. <br> - Replace the harness. <br> - Replace the IPU board. |

## SC Tables: SC3xx (Image Processing 1: Charge, Development)

| SC302-00 to SC396-01 |  |  |
| :---: | :---: | :---: |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| $\begin{aligned} & \text { SC302- } \\ & 00 \end{aligned}$ | D | High Voltage Power Source: Charge: Output Error |
|  |  | The machine detects the error detection signal "L (unexpected)" 10 times for 200 msec consecutively when monitoring the error signal every 20 msec during outputting the PWM signal. |
|  |  | Hardware error <br> - Input / Output connector is disconnected. <br> - Input / Output harness is short-circuited. <br> - Surface/air clearance insufficient (arc discharge) <br> - BCU error (signal error) <br> - HVPS defective <br> Load error <br> - Grounding fault of charging output, short-circuit with other outputs <br> - Surface/air clearance insufficient in charging output path (including distance from other outputs) <br> - Unexpected deterioration of drum and over current due to pinholes gap error between the drum and charge roller (PCU error). <br> - Over current due to drum surface condensation <br> - PCU is disconnected. |
|  |  | - Cycle the main power off/on. <br> - Replace the HVPS. <br> - Replace the harness of the HVPS. <br> - Replace the harness of the PCU. <br> - Replace the PCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{array}{\|l} \hline \text { SC324- } \\ 01 \end{array}$ | D | Development Motor: Bk: Lock |
|  |  | Lock signals are observed at 2 sec intervals during motor ON, and a High level is detected at least 20 times. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective <br> - Unit torque increased |
|  |  | - Replace the development motor. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :---: | :--- | :--- | :--- |
|  |  | $\bullet$ | Reconnect the connector. |
|  |  | $\bullet$ | Replace the harness. |
|  |  | $\bullet$ | Replace the BCU. |
|  |  | $\bullet$ | Replace the development unit. |
|  |  | • Replace the driven unit. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC360-01 | D | TD Sensor Adjustment Error |
|  |  | - When Mu count exceeds the judgment threshold of no developer status. <br> - When Mu count does not satisfy the following target ranges for 3 times in a row. <br> - Upper threshold <br> - Lower threshold |
|  |  | - TD sensor defective <br> - Loose connection <br> - Harness broken <br> - Developer toner density differs from initial developer |
|  |  | - Replace the TD sensor harness. <br> - Reconnect the TD sensor connector. <br> - Replace the TD sensor. <br> - Replace the development unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC361- } \\ & 01 \end{aligned}$ | D | TD Sensor Output Error: Upper Limit (K) |
|  |  | The following condition continuously exceeds the upper limit threshold value (SP3-211003). <br> - TD sensor output: Vt (SP3-210-001) > output upper limit error threshold (SP3-211002) |
|  |  | - TD sensor connector dropout (connection fault) |
|  |  | - Check if the TD sensor connector is connected. <br> - Check the harness of the TD sensor (disconnection, etc.). <br> - Replace the TD sensor. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC362- | D | TD Sensor Output Error: Lower limit (K) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :--- | :--- | :--- | :--- |
|  |  | $\bullet$ | Check if the TD sensor connector is connected. |
|  |  | $\bullet$ | Check the harness of the TD sensor (disconnection, etc.). |
|  | $\bullet$ | Replace the TD sensor. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC370- } \\ & 00 \end{aligned}$ | C | ID Sensor Calibration Error |
|  |  | Regular reflection optical output voltage of the ID sensor: Vsg_reg cannot be adjusted to within target range. <br> Upper limit (SP3-320-013: initial value 4.5V) <br> Lower limit (SP3-320-014: initial value 3.5V) |
|  |  | - ID sensor connector missing/connection fault <br> - ID sensor detection window dirt <br> - ID sensor malfunction |
|  |  | - Check the ID sensor connector. If it is not connected, reconnect it. <br> - Check for dirt on the ID sensor detection window. If the detection window is dirty, clean by the predetermined method (do not wipe it dry). <br> - If neither of the above have occurred, replace the ID sensor. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC391- } \\ & 00 \end{aligned}$ | D | High Voltage Power Source: Development : Output Error |
|  |  | When the machine detects the error detection signal "L (abnormal)" 10 times for 200 ms consecutively by monitoring the error detection signal every 20 ms during output of the PWM signal used as an error detection target. |
|  |  | Hardware error <br> - Input / Output connector is disconnected. <br> - Surface/air clearance insufficient (arc discharge) <br> - Input / Output harness is short-circuited. <br> - BCU error (signal error) <br> - HVPS defective <br> Load error <br> - Grounding fault of charging output, short-circuit with other outputs <br> - Surface/air clearance insufficient in charging output path (including distance from other outputs) <br> - Unexpected deterioration of drum, and over current due to pinholes <br> - Over current due to drum surface condensation <br> - PCDU is not set properly. |
|  |  | - Cycle the main power off/on |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :--- | :--- | :--- | :--- |
|  |  | $\bullet$ | Replace the harness between the BCU and HVPS. |
|  |  | $\bullet$ | Reconnect or replace the harness between the BCU and HVPS. |
|  |  | $\bullet$ | Reinstall or replace the development unit. |
|  |  | • | Check if the contact and separation movement of the transfer unit works correctly. |
|  | $\bullet$ | Replace the HVPS. |  |
|  |  |  |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC396- } \\ & 01 \end{aligned}$ | D | Drum Motor Lock |
|  |  | Lock signals are observed at 2 sec intervals during motor ON, and a High level is detected at least 20 times. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective <br> - PCU torque increased |
|  |  | - Reconnect the connector. <br> - Replace the harness of the drum/waste toner motor. <br> - Replace the drum/waste toner motor. <br> - Replace the PCDU. <br> - Replace the BCU. |

## SC Tables: SC4xx (Image Processing 2: Around the Drum)

SC440-00 to SC498-00

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC440- | D | High Voltage Power Source: Paper Transfer : Output Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC452- } \\ & 00 \end{aligned}$ | D | Transfer Roller Contact Motor Error |
|  |  | When the machine does not detect the high/low signal for a specified time after the transfer roller contact motor has been turned on. |
|  |  | - Motor overload, Motor defective <br> - Connector disconnected <br> - Harness broken <br> - Interlock mechanism is defective. |
|  |  | - Cycle the main power off/on <br> - Check if the contact and separation movement of the transfer unit works correctly. <br> - Replace the transfer roller contact motor. |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| SC460- | D | High Voltage Power Source: Separation : Output Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 00 |  | The machine detects the error detection signal "L (unexpected)" 10 times for 200 msec consecutively when monitoring the error signal every 20 msec during outputting the PWM signal. |
|  |  | Hardware error <br> - Input / Output connector is disconnected. <br> - Input / Output harness is short-circuited. <br> - Transfer unit is not set properly. <br> - BCU error (signal error) <br> - HVPS defective <br> Load error <br> - Grounding fault of separation power output, short-circuit with other outputs <br> - Surface/air clearance insufficient in separation power output path (including distance from other outputs) |
|  |  | - Cycle the main power off/on <br> - Reconnect or replacethe harness of the HVPS (power pack). <br> - Reconnect or replace the harness between the BCU to the HVPS. <br> - Reset or replace the transfer unit. <br> - Check if the contact and separation movement of the transfer unit works correctly. <br> - Replace the HVPS. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC497-00 | C | Machine Temperature Detection Thermistor Error |
|  |  | The output of the temperature sensor is out of the following range. <br> - $\quad 0.56 \mathrm{~V}$ or less $\left(90^{\circ} \mathrm{C}\right.$ or more) <br> - 3.0 V or more $\left(-18^{\circ} \mathrm{C}\right.$ or less) |
|  |  | - Imaging temperature sensor is not set (connector disconnected or broken) <br> - Imaging temperature sensor defective |
|  |  | - Reconnect the connector. <br> - Replace the connector. <br> - Replace the imaging temperature sensor (thermistor). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC498-00 | C | Temperature and Humidity Sensor Error (Main machine) |
|  |  | The output of the temperature/humidity sensor is out of the following range. <br>  |
|  | $\bullet \quad 0.76 \mathrm{~V}$ or less/ 2.90 V or more (temperature sensor) |  |
|  |  | 2.4 V or more (humidity sensor) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Temperature/Humidity sensor is not set (connector disconnected or broken) <br> - Temperature/Humidity sensor defective |
|  |  | - Reconnect the connector. <br> - Replace the connector. <br> - Replace the temperature/humidity sensor. |

## SC Tables: SC5xx (Paper Feed and Fusing)

| SC501-01 to SC589-02 |  |  |
| :---: | :---: | :---: |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| $\begin{aligned} & \text { SC501- } \\ & 01 \end{aligned}$ | B | 1st Tray Lift Error |
|  |  | The machine detects the error of the 1st paper feed tray lift motor 3 times consecutively when the 1st paper feed tray is lifted. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 2 times or less.) |
|  |  | - 1st paper feed tray limit sensor connector disconnection, malfunction or sensor's dirt. <br> - 1st paper feed tray lift motor connector disconnection, malfunction <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the paper feed tray lift motor. <br> - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter (1st paper feed tray limit sensor, 1st paper feed tray lift motor). <br> - Check the harness. <br> - Reset or replace the connector. <br> - Replace the 1st paper feed unit and 1st paper feed tray. <br> - Replace the BCU. |
| $\begin{aligned} & \text { SC501- } \\ & 02 \end{aligned}$ | B | 1st Tray Lowering Error |
|  |  | The machine detects the error of the 1st paper feed tray lift motor 5 times consecutively when the 1st paper feed tray is lowered. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 4 times or less.) |
|  |  | - 1st paper feed tray limit sensor connector disconnection, malfunction or sensor's dirt. <br> - 1st paper feed tray lift motor connector disconnection, malfunction <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the paper feed tray lift motor. <br> - Paper set fault <br> - Paper overload |
|  |  | - Reset the paper. <br> - Remove the foreign matter (1st paper feed tray limit sensor, 1st paper feed tray lift motor). <br> - Check the harness. <br> - Reset or replace the connector. <br> - Replace the 1 st paper feed unit, 1 st paper feed tray. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | $\bullet \quad$ Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC502- } \\ & 01 \end{aligned}$ | B | 2nd Tray Lift Error |
|  |  | The machine detects the error of the 2nd paper feed tray lift motor 3 times consecutively when the 2nd paper feed tray is lifted. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 2 times or less.) |
|  |  | - 2nd paper feed tray limit sensor connector disconnection, malfunction, dirt <br> - 2nd paper feed tray lift motor connector disconnection, malfunction <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the paper feed tray lift motor <br> - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter (2nd paper feed tray limit sensor, 2nd paper feed tray lift motor). <br> - Check the harness. <br> - Reset or replace the connector. <br> - Replace the 2nd paper feed unit, 2nd paper feed tray. <br> - Replace the BCU. |
| $\begin{aligned} & \text { SC502- } \\ & 02 \end{aligned}$ | B | 2nd Tray Lowering Error |
|  |  | The machine detects the error of the 2nd paper feed tray lift motor 5 times consecutively when the 2nd paper feed tray is lowered. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 4 times or less.) |
|  |  | - The 2nd paper feed tray limit sensor connector disconnection, malfunction, and dirt <br> - 2nd paper feed tray lift motor connector disconnection, malfunction <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the paper feed tray lift motor <br> - Paper set fault <br> - Paper overload |
|  |  | - Reset the paper. <br> - Remove the foreign matter (2nd paper feed tray limit sensor, 2nd paper feed tray lift motor). <br> - Check the harness. <br> - Reset or replace the connector. <br> - Replace the 2nd paper feed unit, 2nd paper feed tray. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC503- } \\ & 01 \end{aligned}$ | B | 3rd Tray Lift Error (D694) |
|  |  | The machine detects the lift error of the tray lift motor for the PFU (D694) 3 times consecutively when the 3rd paper feed tray is lifted at the machine's initialization. (The message of resetting the tray is displayed when the machine detects the error consecutively 2 times or less.) |
|  |  | - Tray lift motor connector disconnected <br> - Limit sensor harness disconnected or broken <br> - Control board defective <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the tray lift motor <br> - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray lift motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the limit sensor. <br> - Replace the control board for the optional PFU (D694). <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. |
| $\begin{aligned} & \text { SC503- } \\ & 02 \end{aligned}$ | B | 3rd Tray Lowering Error (D694) |
|  |  | The machine detects the lowering error of the tray lift motor for the PFU (D694) 5 times consecutively when the 3rd tray is lowered at the machine's initialization. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 4 times or less.) |
|  |  | - Tray lift motor connector disconnected <br> - Limit sensor harness disconnected or broken <br> - Controller board defective <br> - Paper overload <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the tray lift motor <br> - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray lift motor. <br> - Reset the connector. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Replace the harness. <br> - Replace the limit sensor. <br> - Replace the controller board for the optional PFU (D694). <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. |
| $\begin{aligned} & \text { SC503- } \\ & 11 \end{aligned}$ | B | 3rd Tray Lift Error (D787) |
|  |  | The machine detects the lift error of the tray lift motor for the PFU (D787) 3 times consecutively when the 3rd tray is lifted at the machine's initialization. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 2 times or less.) |
|  |  | - Tray lift motor connector disconnected <br> - Upper limit sensor harness disconnected or broken <br> - Controller board defective <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the tray lift motor <br> - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray lift motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the upper limit sensor. <br> - Replace the controller board for the optional PFU (D787). <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. |
| $\begin{aligned} & \text { SC503- } \\ & 12 \end{aligned}$ | B | 3rd Tray Lowering Error (D787) |
|  |  | The machine detects the lowering error of the tray lift motor for the PFU (D787) 3 times consecutively when the 3rd tray is lowered at the machine's initialization. <br> (The message of resetting the tray is displayed when the machine detects the error 2 times consecutively.) |
|  |  | - Tray lift motor connector disconnected <br> - Upper limit sensor harness disconnected or broken <br> - Controller board defective <br> - Paper overload <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the tray lift motor |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray lift motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the upper limit sensor. <br> - Replace the controller board for the optional PFU (D787). <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. |
| $\begin{aligned} & \text { SC503- } \\ & 31 \end{aligned}$ | B | 3rd Tray Lift Error (LCIT: D695) |
|  |  | - The machine detects the lift error of the tray lift motor for the LCIT (D695) 3 times consecutively when the 3rd tray is lowered at the machine's initialization. <br> - The machine detects the lift error of the tray lift motor for the LCIT (D695) 3 times consecutively when the 3rd tray is lifted at the machine's initialization. <br> (The message of resetting the tray is displayed when the machine detects the error consecutively 2 times or less.) |
|  |  | - Tray lift motor connector disconnected <br> - Limit sensor harness disconnected or broken <br> - Controller board defective <br> - Foreign matter, such as paper scrap, is caught between the right tray and the tray lift motor. <br> - Paper set fault <br> - Timing belt damage or dropout <br> - Timing pulley damage or dropout <br> - Base plate damaged or plate horizontality fault <br> - Paper feed roller missing <br> - Pickup arm damage <br> - Foreign matter, such as paper scrap, is caught inside the right tray. <br> - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray lift motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the limit sensor. <br> - Replace the controller board for the optional LCIT (D695). <br> - Replace the tray. |



| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Paper overload <br> - Paper set fault <br> - Upper limit sensor harness disconnected or broken <br> - Lower limit sensor harness disconnected or broken <br> - Control board defective <br> - Foreign matter, such as paper scrap, is caught inside the right tray. <br> - Reset the paper. <br> - Remove the foreign matter. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the upper limit sensor. <br> - Replace the lower limit sensor. <br> - Replace the controller board for the LCIT (D695). |
| $\begin{aligned} & \text { SC503- } \\ & 34 \end{aligned}$ | B | 3rd Tray Paper Position Error (LCIT: D695) |
|  |  | During left/right tray set, or when power is switched ON, or when transfer is complete, "open" is detected 5 times consecutively by end fence open/close detection. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 4 times or less.) |
|  |  | - Paper set fault (paper is offset from position for pushing end fence) <br> - Foreign matter entry (foreign matter is caught in the position for pushing end fence) <br> - Paper transport cover open/close switch error, connector missing <br> - Harness broken <br> - Bank controller board defective |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional paper feed tray. |
| $\begin{aligned} & \text { SC503- } \\ & 35 \end{aligned}$ | B | 3rd Tray Transfer Error (LCIT: D695) |
|  |  | - Transfer end detection error <br> At right tray paper end (right tray lower limit detection, left tray paper detection), left tray paper is transferred to the right tray, but the left tray paper sensor is detected although a predetermined time elapsed (transfer paper missing is not detected), for 3 times consecutively. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 2 times or less.) |
|  |  | - Paper transfer motor error/connector missing |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Left tray paper sensor error/connector missing <br> - Harness broken <br> - Bank control board defective <br> - Paper overload <br> - Foreign matter, such as paper scrap, is caught between the left tray and the paper tray transfer motor <br> - Paper set fault <br> - Timing belt damage/dropout <br> - Timing pulley damage/dropout <br> - Transfer fence defective <br> - Foreign matter, such as paper scrap, is caught inside the left tray |
|  |  | - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional paper feed tray. <br> - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray. <br> - Replace the timing belt. <br> - Replace the timing pulley. <br> - Replace the end fence of the left tray. |
| $\begin{aligned} & \text { SC503- } \\ & 36 \end{aligned}$ | B | 3rd Tray Transfer HP Error (LCIT: D695) |
|  |  | - HP detection error (during transfer start) <br> At right tray paper end (right tray lower limit detection, left tray paper detection), left tray paper is transferred to the right tray, but the transfer fence home position sensor is detected although a predetermined time elapsed (home position sensor missing cannot be detected). <br> - HP detection error (during transfer fence HP return) <br> During transfer fence HP not detected (stop after paper transfer, during power supply ON, during left tray set), the transfer fence is moved to HP, but the transfer fence home position sensor is not detected although a predetermined time elapsed. <br> *If an error occurs 3 times consecutively: LCIT transmits "3rd paper feed tray transfer HP error" to the main machine. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 2 times or less.) |
|  |  | - Paper transfer motor error/connector missing <br> - Transfer fence home position sensor error/connector missing |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Harness broken <br> - Bank controller board defective <br> - Paper overload <br> - Foreign matter, such as paper scrap, is caught between the left tray and the paper transport motor <br> - Paper set fault <br> - Timing belt damage/dropout <br> - Timing pulley damage/dropout <br> - Transfer fence defective <br> - Foreign matter, such as paper scrap, is caught inside the left tray <br> - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional paper feed tray. <br> - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the tray. <br> - Replace the timing belt. <br> - Replace the timing pulley. <br> - Replace the end fence of the left tray. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC504- | B | 4th Tray Lift Error (D787) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Remove the foreign matter. <br> - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional paper feed tray. <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. |
| $\begin{aligned} & \text { SC504- } \\ & 22 \end{aligned}$ | B | 4th Tray Lowering Error (D787) |
|  |  | - Lift motor descent error detection <br> During tray initialization, the tray base plate is lowered to check the tray base plate position, but the upper limit sensor is detected although a predetermined time elapsed, for 3 times consecutively. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 2 times or less.) |
|  |  | - Tray lift motor error/connector missing <br> - Upper limit sensor error/connector missing <br> - Harness broken <br> - Bank controller board defective <br> - Paper overload <br> - Foreign matter, such as paper scrap, is caught between the paper feed tray and the tray lift motor <br> - Paper set fault |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional paper feed tray. <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC505- | B | Side LCIT Limit Detection Error (D696) |
| 41 |  | $\bullet$ |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | During tray initialization (upper limit detection/lower limit not detected), the tray base plate is lowered to check the tray base plate position, but the upper limit sensor is detected although a predetermined time elapsed. <br> - Upper limit detection error (during ascent) <br> During tray initialization (upper limit not detected /lower limit detection), the tray base plate is raised to check the tray base plate position, but the upper limit sensor is not detected although a predetermined time elapsed. <br> *If an error occurs for 3 times consecutively: the side LCIT transmits a "5th paper feed tray upper limit detection error" to the main machine. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 2 times or less.) |
|  |  | - Tray lift motor error/connector missing <br> - Upper limit sensor error/connector missing <br> - Harness broken <br> - Bank controller board defective <br> - Paper set fault <br> - Timing belt damage/dropout <br> - Timing pulley damage/dropout <br> - Base plate damage/horizontality fault <br> - Paper feed roller missing item <br> - Pickup arm defective <br> - Foreign matter, such as paper scrap, is caught inside the tray <br> - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional side LCT. <br> - Replace the tray. <br> - Replace the paper feed roller. <br> - Replace the pick-up arm. <br> - Replace the timing belt. <br> - Replace the timing pulley. <br> - Replace the base plate. |
| SC505- | B | Side LCIT Lower Limit Detection Error (D696) |
| 42 |  | - Lower limit detection error (during descent) <br> During tray initialization (upper limit not detected /lower limit eject detection), the tray |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | base plate is lowered to check the tray base plate position, but the lower limit sensor is not detected although a predetermined time elapsed. <br> Alternatively, at paper end, the tray base plate is lowered, but the lower limit sensor is not detected although a predetermined time elapsed. <br> - Lower limit detection error (during ascent) <br> During tray initialization (upper limit not detected/lower limit detection), the tray base plate is raised to check the tray base plate position, but the lower limit sensor is detected although a predetermined time elapsed. <br> *If an error occurs for 3 times consecutively: the side LCIT transmits a " 5 th paper feed tray upper limit detection error" to the main machine. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 2 times or less.) |
|  |  | - Tray lift motor error/connector missing <br> - Lower limit sensor error/connector missing <br> - Harness broken <br> - Bank control board defective <br> - Paper set fault <br> - Timing belt damage/dropout <br> - Timing pulley damage/dropout <br> - Base plate damage/horizontality fault <br> - Foreign matter, such as paper scrap, is caught inside the tray <br> - Reset the paper. <br> - Remove the foreign matter. <br> - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional side LCT. <br> - Replace the tray. <br> - Replace the timing belt. <br> - Replace the timing pulley. <br> - Replace the base plate. |
| $\begin{aligned} & \text { SC505- } \\ & 43 \end{aligned}$ | B | Side LCIT Paper Overload Error (D696) |
|  |  | During tray initialization, both the upper limit and lower limit are detected for 3 times consecutively. <br> (The message of resetting the tray is displayed when the both sensors detect the error consecutively 2 times or less.) |
|  |  | - Paper overload |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Paper set fault <br> - Upper Limit sensor error/connector missing <br> - Lower limit sensor error/connector missing <br> - Harness broken <br> - Bank control board defective <br> - Foreign matter, such as paper scrap, is caught inside the tray |
|  |  | - Reset the paper. <br> - Remove the foreign matter. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the sensor. <br> - Replace the controller board for the optional side LCT. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC508- <br> 00 | B | Bypass Tray Size Detection Error |
|  |  | The paper size detected on the bypass tray is different from any of the pattern of automatic size detection. |
|  |  | - Bypass Length Sensor or Bypass Width Sensor malfunction <br> - Bypass Length Sensor or Bypass Width Sensor harness disconnected |
|  |  | - Replace the Bypass Length Sensor, or Bypass Width Sensor. <br> - Replace the harness for Bypass Length Sensor, or Bypass Width Sensor. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC520- } \\ & 01 \end{aligned}$ | C | Registration Motor: Lock |
| $\begin{aligned} & \text { SC520- } \\ & 02 \end{aligned}$ | C | Paper feed Motor: Lock |
| $\begin{aligned} & \text { SC520- } \\ & 03 \end{aligned}$ | C | Vertical Transport Motor: Lock |
|  |  | During motor ON, after checking the motor error notification registers (err_velo and err_posi) for 500 msec , the error state of either register was detected at least 5 times. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective <br> - Encoder defective |
|  |  | - Replace the motor. |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :--- | :--- | :--- | :--- |
|  |  | $\bullet$ | Reset the connector. |
|  |  | $\bullet$ | Replace the harness. |
|  | $\bullet$ | Replace the BCU. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC521- } \\ & 01 \end{aligned}$ | C | Duplex Entrance Motor: Lock |
| $\begin{aligned} & \text { SC521- } \\ & 02 \end{aligned}$ | C | Duplex By-pass Motor: Lock |
|  |  | During motor ON, after checking the motor error notification registers (err_velo and err posi) for 500 msec , the error state of either register was detected at least 5 times. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective <br> - Encoder defective |
|  |  | - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC522- } \\ & 00 \end{aligned}$ | C | Paper Exit Motor: Lock |
|  |  | During motor ON , after checking the motor error notification registers (err_velo and err_posi) for 500 msec , the error state of either register was detected at least 5 times. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective <br> - Encoder defective |
|  |  | - Replace the motor. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC530-00 | D | Fusing Fan Lock |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | In the motor ON state, the value of the lock sensor is checked every 100 msec . If a lock signal is not obtained for 50 times consecutively. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective |
|  |  | - Replace the fusing fan. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC531-00 | D | Development Bearing Cooling Fan Lock |
|  |  | In the motor ON state, the value of the lock sensor is checked every 100 msec . If a lock signal is not obtained for 50 times consecutively. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective |
|  |  | - Replace the development bearing cooling fan <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC533-00 | D | PSU Cooling Fan Lock |
| SC533-01 | D | Development Bearing Cooling Fan |
|  |  | In the motor ON state, the value of the lock sensor is checked every 100 msec . If a lock signal is not obtained for 50 times consecutively. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective |
|  |  | - Replace the development bearing cooling fan. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC534-00 | D | Development Exhaust Fan |
|  |  | In the motor ON state, the value of the lock sensor is checked every 100 msec . If a lock signal is not obtained for 50 times consecutively. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective |
|  |  | - Replace the development exhaust fan. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC535-00 | D | Paper Exit Cooling Fan Lock |
|  |  | In the motor ON state, the value of the lock sensor is checked every 100 msec . If a lock signal is not obtained for 50 times consecutively. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective |
|  |  | - Replace the paper exit cooling fan. <br> - Reset the connector. <br> - Replace the harness. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC540- } \\ & 00 \end{aligned}$ | D | Fusing/paper Exit Motor: Lock |
|  |  | During motor ON, after checking lock signals for 2 sec , a High level was detected at least 20 times. |
|  |  | - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - BCU defective <br> - Unit torque increased |
|  |  | - Replace the fusing/paper exit motor. <br> - Reset the connector. <br> - Replace the harness. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC541- } \\ & 01 \end{aligned}$ | A | Fusing Thermopile (Center) Disconnection |
|  |  | Below a predetermined temperature (or below CB ) is detected for specified seconds continuously. <br> Detection frequency: 10 times or more. |
|  |  | - Harness broken <br> - Connector disconnected |
|  |  | - Reconnect the connectors between the fusing unit and the BCU. <br> - Replace the thermopile (center). <br> - Replace the harness between the fusing unit and the BCU. <br> - Replace the BCU. |
| $\begin{aligned} & \text { SC541- } \\ & 02 \end{aligned}$ | A | NC Sensor (Center) Disconnection |
|  |  | 3ED - 3FF (FB voltage: 3.243V-3.300V) is detected for specified seconds continuously (NC sensor (center): detection \& compensation, NC sensor (end): detection \& compensation). Detection period: 100 ms , detection frequency: 10 times or more. |
|  |  | - Harness broken <br> - Connector disconnected |
|  |  | - Reconnect the connectors between the fusing unit and the BCU. <br> - Replace the NC sensor (center). <br> - Replace the harness between the fusing unit and the BCU. <br> - Replace the BCU. |
| $\begin{array}{\|l\|l} \text { SC541- } \\ 03 \end{array}$ | A | NC Sensor (Center) Short-circuit |
|  |  | AD value: $0-13$ (FB voltage: $0.000 \mathrm{~V}-0.041 \mathrm{~V}$ ) is detected for specified seconds continuously. <br> Detection period: 100 ms , detection frequency: 10 times or more. |
|  |  | - Harness broken <br> - Connector disconnected |
|  |  | - Reconnect the connectors between the fusing unit and the BCU. <br> - Replace the NC sensor (center). <br> - Replace the harness between the fusing unit and the BCU. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC542- | A | Fusing Thermopile (Center) Thermopile Does Not Reload |
| 02 |  | When the thermopile (center) does not reach a predetermined temperature for 7 seconds |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | consecutively. |
| SC542-$03$ | A | Fusing Thermopile (Center) Does Not Reload |
|  |  | When the thermopile (center) does not reach the permission temperature of heat central reloading for specified seconds continuously. |
| SC54205 | C | Fusing Thermopile (Center) Does Not Reload (Low Voltage) |
|  |  | When the thermopile (center) does not reach a predetermined temperature for 7 seconds consecutively. |
| $\begin{aligned} & \text { SC542- } \\ & 06 \end{aligned}$ | C | Fusing Thermopile (Center) Does Not Reload (Low Voltage) |
|  |  | When the thermopile (center) does not reach the permission temperature of heat central reloading for specified seconds continuously. |
|  |  | - Thermopile (center) lens dirt <br> - Thermopile (center) installed incorrectly <br> - Thermopile (center) deformed or not installed (or mounted) properly <br> - Outside input voltage guarantee <br> - After excessive temperature rise prevention unit operation |
|  |  | - Remove the jammed paper in the fusing unit. <br> - Check and replace the thermopile (center). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC543- <br> 00 | A | Fusing Thermopile (Center) High Temperature Detection (Software) |
|  |  | When the thermopile (center) detects a predetermined temperature or above for specified seconds consecutively. <br> Detection period 100 ms , detection count: 10 times or more. |
|  |  | - Triac short-circuit <br> - Engine controller defective <br> - Fusing roller temperature sensor (center) defective <br> - Fusing control software defective |
|  |  | - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the the following harness: CN115 of BCU , connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: | :---: |
|  |  | $\bullet \quad$ Replace the fusing unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC544- } \\ & 01 \end{aligned}$ | A | Fusing High Temperature Detection (hardware) <br> (Fusing Thermopile (Center) High Temperature Error) |
|  |  | In the event of an error |
|  |  | - Triac defective (short-circuit) <br> - Engine controller defective <br> - Fusing roller temperature sensor (center) defective <br> - Fusing control software: out of control |
|  |  | - Check the sensor temperature with the following SPs. If the temperature is lower than $250^{\circ} \mathrm{C}$, replace the thermopile or thermistor. <br> - SP1-141-101 (Thermopile (center)) <br> - SP1-141-102 (Thermopile (edge)) <br> - SP1-141-103 (Thermistor (center)) <br> - SP1-141-104 (Thermistor (edge)) <br> - SP1-141-151 (Thermopile (center): 200 msec before the SC is generated) <br> - SP1-141-152 (Thermopile (edge): 200 msec before the SC is generated) <br> - SP1-141-153 (Thermistor (center): 200 msec before the SC is generated) <br> - SP1-141-154 (Thermistor (edge): 200 msec before the SC is generated) <br> Note: The high temperature state of the fusing unit is detected when the temperature detected by the sensor is $250^{\circ} \mathrm{C}$ or more. Therefore, if the temperature of the above SPs is lower than $250^{\circ} \mathrm{C}$, the thermopile or thermistor may be defective or out of position. <br> - Check the fusing unit. <br> - Check the triac of the AC controller on the PSU and replace the PSU. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU board. <br> - Turn the power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC544- | A | Fusing High Temperature Detection (hardware) |
| 02 |  | (Non-Contact thermistor High Temperature Error) |
|  |  | In the event of an error |
|  |  | $\bullet$ <br>  |
|  | $\bullet \quad$ Triac defective (short-circuit) |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Fusing roller temperature sensor (center) defective <br> - Fusing control software: out of control |
|  |  | - Check the sensor temperature with the following SPs. If the temperature is lower than $250^{\circ} \mathrm{C}$, replace the thermopile or thermistor. <br> - SP1-141-101 (Thermopile (center)) <br> - SP1-141-102 (Thermopile (edge)) <br> - SP1-141-103 (Thermistor (center)) <br> - SP1-141-104 (Thermistor (edge)) <br> - SP1-141-151 (Thermopile (center): 200 msec before the SC is generated) <br> - SP1-141-152 (Thermopile (edge): 200 msec before the SC is generated) <br> - SP1-141-153 (Thermistor (center): 200 msec before the SC is generated) <br> - SP1-141-154 (Thermistor (edge): 200 msec before the SC is generated) <br> Note: The high temperature state of the fusing unit is detected when the temperature detected by the sensor is $250^{\circ} \mathrm{C}$ or more. Therefore, if the temperature of the above SPs is lower than $250^{\circ} \mathrm{C}$, the thermopile or thermistor may be defective or out of position. <br> - Check the fusing unit. <br> - Check the triac of the AC controller on the PSU and replace the PSU. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU board. <br> - Turn the power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC545- | A | Fusing Central Heater Continuously Heat |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Thermopile (center) installed incorrectly <br> - Thermopile bracket deformation <br> - Heater disconnection <br> - After excessive temperature rise prevention unit operates <br> - Outside input voltage guarantee |
|  |  | - Remove the jammed paper in the fusing unit <br> - Check and replace the thermopile (center). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC545- } \\ & 05 \end{aligned}$ | C | Fusing Central Heater Continuously Heat (Low Voltage) |
|  |  | After waiting for full power for more than specified seconds continuously, not detected for specified seconds. <br> - Definition of heater full power <br> Continuously heating rate set point (maximum heating rate) <br> - Measurement start point <br> After reload (after heater extinguished, after rotation complete) below the standby temperature (target temperature), measurement starts after a heater heat-up request is issued. <br> - Measurement stop condition <br> Rotation started due to a print signal during measurement or other. <br> - Maximum heat-up Duty (SP interlinked value) $0 \%$ is excluded. |
|  |  | - Thermopile (center) lens dirt <br> - Thermopile (center) installed incorrectly <br> - Thermopile bracket deformation <br> - Heater disconnection <br> - After excessive temperature rise prevention unit operates <br> - Outside input voltage guarantee |
|  |  | - Remove the jammed paper in the fusing unit <br> - Check and replace the thermopile (center). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC547- | D | Zero cross Error (relay-contact soldering) |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 01 |  | In the event of an error |
|  |  | - Fusing relay defective (contact soldering) <br> - Fusing relay drive circuit fault |
|  |  | - Turn the main power supply switch OFF/ON <br> - If the fusing relay is damaged, replace the PSU. <br> - Check the connection between PSU and controller board, and replace harness and board if necessary. |
| $\begin{aligned} & \text { SC547- } \\ & 02 \end{aligned}$ | D | Zero cross Error (relay contact fault) |
|  |  | In the event of an error |
|  |  | - Fusing relay damage (contact open) <br> - Fusing relay drive circuit fault <br> - PSU fuse ( 24 VS ) blowout |
|  |  | - Turn the main power supply switch OFF/ON. <br> - If the fusing relay is damaged, replace the PSU. <br> - Check the connection between PSU and controller board, and replace harness and board if necessary. <br> - If the PSU fuse (24VS) blows out, replace the fuse. |
| SC547- <br> 03 | D | Zero cross Error (low-frequency error) |
|  |  | In the event of an error |
|  |  | Frequency instability of commercial power line |
|  |  | - Turn the main power supply switch OFF/ON. <br> - Check the power source. <br> - Check the connection between PSU and controller board, and replace harness and board if necessary. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC551- } \\ & 01 \end{aligned}$ | A | Fusing Thermopile (Edge) Disconnection |
|  |  | When the thermopile (edge) detects a predetermined temperature or less for specified seconds consecutively. |
|  |  | - Harness broken <br> - Connector disconnected |
|  |  | - Reconnect the connectors between the fusing unit and the BCU. <br> - Replace the thermopile (edge). <br> - Replace the harness between the fusing unit and the BCU . <br> - Replace the BCU. |
| SC551- | A | NC Sensor (End) Disconnection |
| 02 |  | 3ED-3FF (FB voltage: $3.243 \mathrm{~V}-3.300 \mathrm{~V}$ ) is detected for specified seconds continuously (NC |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | sensor (center): detection \& compensation, NC sensor (end): detection \& compensation). <br> Detection period: 100 ms , detection frequency: 10 times or more. |
|  |  | - Harness broken <br> - Connector disconnected |
|  |  | - Reconnect the connectors between the fusing unit and the BCU. <br> - Reset the NC sensor. <br> - Replace the harness between the fusing unit and the BCU. <br> - Replace the BCU. |
| $\begin{aligned} & \text { SC551- } \\ & 03 \end{aligned}$ | A | NC Sensor (End) Short-circuit |
|  |  | AD value: $0-13(\mathrm{FB}$ voltage: $0.000 \mathrm{~V}-0.041 \mathrm{~V})$ is detected for specified seconds continuously. <br> Detection period: 100 ms , detection frequency: 10 times or more. |
|  |  | - Harness broken <br> - Connector disconnected <br> - Reconnect the connectors between the fusing unit and the BCU. <br> - Reset the NC sensor. <br> - Replace the harness between the fusing unit and the BCU. <br> - Replace the BCU. |
|  |  |  |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| $\begin{aligned} & \text { SC552- } \\ & 02 \end{aligned}$ | A | Fusing Thermopile (Edge) Does Not Reload |
|  |  | When the thermopile (edge) does not reach a predetermined temperature for specified seconds consecutively. |
| $\begin{aligned} & \text { SC552- } \\ & 03 \end{aligned}$ | A | Fusing Thermopile (Edge) Does Not Reload |
|  |  | Heating edge reload permission temperature not reached after heater 1 ON for specified seconds. |
| $\begin{aligned} & \text { SC552- } \\ & 05 \end{aligned}$ | C | Fusing Thermopile (Edge) Does Not Reload (Low Voltage) |
|  |  | When the thermopile (edge) does not reach a predetermined temperature for specified seconds consecutively. |
| $\begin{aligned} & \text { SC552- } \\ & 06 \end{aligned}$ | C | Fusing Thermopile (Edge) Does Not Reload (Low Voltage) |
|  |  | When the thermopile (edge) does not reach the permission temperature of heat edge reloading for specified seconds continuously. |
|  |  | - Thermopile (edge) lens dirt <br> - Thermopile (edge) installed incorrectly <br> - Thermopile modification <br> - Outside input voltage guarantee <br> - After excessive temperature rise prevention unit operation |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Remove the jammed paper in the fusing unit. <br> - Check and replace the thermopile (edge). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC553- <br> 00 | A | Fusing Thermopile (Edge) High Temperature Detection (software) |
|  |  | Above a predetermined temperature detected for specified seconds continuously. Detection period: 100 ms , detection count: 10 times or more. |
|  |  | - Triac short-circuit <br> - Engine controller defective <br> - Fusing roller temperature sensor (center) defective <br> - Fusing control software defective |
|  |  | - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. <br> - Reconnect the following connectors CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit <br> - Replace the following harness CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU board. <br> - Replace the fusing unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC554- } \\ & 01 \end{aligned}$ | A | Fusing Thermopile (Edge) High Temperature Detection (hardware) |
|  |  | In the event of an error |
|  |  | - Triac defective (short-circuit) <br> - Engine controller defective <br> - Fusing roller temperature sensor (center) defective <br> - Fusing control software: out of control |
|  |  | - Check the sensor temperature with the following SPs. If the temperature is lower than $250^{\circ} \mathrm{C}$, replace the thermopile or thermistor. <br> - SP1-141-101 (Thermopile (center)) <br> - SP1-141-102 (Thermopile (edge)) <br> - SP1-141-103 (Thermistor (center)) <br> - SP1-141-104 (Thermistor (edge)) <br> - SP1-141-151 (Thermopile (center): 200 msec before the SC is generated) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - SP1-141-152 (Thermopile (edge): 200 msec before the SC is generated) <br> - SP1-141-153 (Thermistor (center): 200 msec before the SC is generated) <br> - SP1-141-154 (Thermistor (edge): 200 msec before the SC is generated) <br> Note: The high temperature state of the fusing unit is detected when the temperature detected by the sensor is $250^{\circ} \mathrm{C}$ or more. Therefore, if the temperature of the above SPs is lower than $250^{\circ} \mathrm{C}$, the thermopile or thermistor may be defective or out of position. <br> - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. <br> - Replace the PSU. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit <br> - Replace the following harness CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU board. <br> - Turn the power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC554- } \\ & 02 \end{aligned}$ | A | NC Sensor (End) High Temperature Detection (hardware) |
|  |  | In the event of an error |
|  |  | - Triac defective (short-circuit) <br> - Engine controller defective <br> - Fusing roller temperature sensor defective (rear) <br> - Fusing control software: out of control |
|  |  | - Check the sensor temperature with the following SPs. If the temperature is lower than $250^{\circ} \mathrm{C}$, replace the thermopile or thermistor. <br> - SP1-141-101 (Thermopile (center)) <br> - SP1-141-102 (Thermopile (edge)) <br> - SP1-141-103 (Thermistor (center)) <br> - SP1-141-104 (Thermistor (edge)) <br> - SP1-141-151 (Thermopile (center): 200 msec before the SC is generated) <br> - SP1-141-152 (Thermopile (edge): 200 msec before the SC is generated) <br> - SP1-141-153 (Thermistor (center): 200 msec before the SC is generated) <br> - SP1-141-154 (Thermistor (edge): 200 msec before the SC is generated) <br> Note: The high temperature state of the fusing unit is detected when the temperature detected by the sensor is $250^{\circ} \mathrm{C}$ or more. Therefore, if the temperature of the above SPs is lower than $250^{\circ} \mathrm{C}$, the thermopile or thermistor may be defective or out of position. <br> - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Replace the PSU. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU board. <br> - Turn the power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC555- <br> 01 | A | Fusing Edge Heater Continuously Heat |
| SC55505 | C | Fusing Edge Heater Continuously Heat (Low Voltage) |
|  |  | After waiting for full power for more than specified seconds continuously, not detected for specified seconds. <br> - Definition of heater full power <br> Continuously heating rate set point (maximum heating rate) <br> - Measurement start point <br> After reload (after heater extinguished, after rotation complete) below the standby temperature (target temperature), measurement starts after a heater heat-up request is issued. <br> - Measurement stop condition <br> Rotation started due to a print signal during measurement or other <br> - Maximum heat-up Duty (SP interlinked value) $0 \%$ is excluded |
|  |  | - Thermopile (edge) lens dirt <br> - Thermopile (edge) installed incorrectly <br> - Thermistor deformation <br> - Heater disconnection <br> - After excess temperature rise prevention unit operation <br> - Outside input voltage guarantee |
|  |  | - Remove the jammed paper in the fusing unit. <br> - Check and replace the thermopile (edge). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC557-00 | C | Zero Cross Frequency Exceeded |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :--- |
|  |  | In the event of an error |
|  |  | Frequency instability of commercial power line/Noise |
|  |  | - |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC558- | C | Low Input Voltage |
| 00 |  | On the mains power supply, detected the input voltage that is less than the specification <br> and is more than 50 V. |
|  |  | Low input of mains power supply |
|  | - |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC559- } \\ & 00 \end{aligned}$ | A | Fusing Jam Detected for 3 Times Consecutively |
|  |  | Fusing jam (does not reach fusing exit sensor) is detected for 3 times consecutively. <br> - Detection conditions <br> Displays the SC559-00 at the time of integrating the counter each time fusing jam occurs, became fusing jam counter value $=3$. <br> The counter value is retained without fusing jam also reset by OFF/ON the power supply. <br> - Control ON/OFF <br> And enables ON / OFF is this SC, the default is set to OFF, then ON at the time of customer requirements. <br> SP1-142-001 0: OFF (default), 1: ON (Set at the time of customer requirements) <br> - Counter reset condition occurs fusing jam <br> 1. Normal paper exit has been done during this continuous fusing jam, fusing jam counter is reset. <br> 2. When " 1 " is changed to " 0 " SP1-142-001, to reset the (SP9-912-001) fusing jam counter. <br> 3. When after displaying SC559, SC release is made, reset the (SP9912-001) fusing jam counter. |
|  |  | Fusing unit paper jam |
|  |  | Remove the jam. |
|  |  |  |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| SC561- | A | Pressure Roller Thermistor (Center) Disconnection |
| 00 |  | When the pressure roller thermistor (center) detects a predetermined temperature or less for specified seconds consecutively. |



| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC562-$02$ | A | Pressure Roller Thermistor (Center) Does Not Reload |
|  |  | When the pressure roller thermistor (center) does not reach a predetermined temperature for specified seconds consecutively. |
|  |  | - Thermistor dirt <br> - Thermopile deformed or not installed (or mounted) properly <br> - Outside input voltage guarantee <br> - After excess temperature rise prevention unit operation |
|  |  | - Remove the jammed paper in the fusing unit. <br> - Check and replace the pressure roller thermistor (center). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the thermopile. <br> - Replace the BCU. |
| $\begin{aligned} & \text { SC562- } \\ & 05 \end{aligned}$ | C | Pressure Roller Thermistor (Center) Does Not Reload (Low Voltage) |
|  |  | When the pressure roller thermistor (center) does not reach a predetermined temperature for specified seconds consecutively. |
|  |  | - Thermistor dirt <br> - Thermopile deformed or not installed (or mounted) properly <br> - Outside input voltage guarantee <br> - After excess temperature rise prevention unit operation |
|  |  | - Remove the jammed paper in the fusing unit. <br> - Check and replace the pressure roller thermistor (center). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the thermopile. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC563- } \\ & 00 \end{aligned}$ | A | Pressure Roller Thermistor (Center) High Temperature Detection (software) |
|  |  | Above a predetermined temperature detected for specified seconds continuously. Detection period: 100 ms , detection count: 10 times or more. |
|  |  | - Triac short-circuit <br> - Engine controller defective <br> - Pressure roller thermistor (end) defective <br> - Fusing control software defective |
|  |  | - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU. <br> - Replace the fusing unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC564- } \\ & 00 \end{aligned}$ | A | Fusing High Temperature Detection (hardware) <br> (Pressure Roller Thermistor Error) |
|  |  | In the event of an error |
|  |  | - Triac short-circuit <br> - Engine controller defective <br> - Pressure roller thermistor (end) defective <br> - Fusing controller software defective |
|  |  | - Check the sensor temperature with the following SPs. If the temperature is lower than $250^{\circ} \mathrm{C}$, replace the thermopile or thermistor. <br> - SP1-141-101 (Thermopile (center)) <br> - SP1-141-102 (Thermopile (edge)) <br> - SP1-141-103 (Thermistor (center)) <br> - SP1-141-104 (Thermistor (edge)) <br> - SP1-141-151 (Thermopile (center): 200 msec before the SC is generated) <br> - SP1-141-152 (Thermopile (edge): 200 msec before the SC is generated) <br> - SP1-141-153 (Thermistor (center): 200 msec before the SC is generated) <br> - SP1-141-154 (Thermistor (edge): 200 msec before the SC is generated) <br> Note: The high temperature state of the fusing unit is detected when the temperature detected by the sensor is $250^{\circ} \mathrm{C}$ or more. Therefore, if the temperature of the above SPs is lower than $250^{\circ} \mathrm{C}$, the thermopile or thermistor may be defective or out of position. <br> - Check the fusing unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Check that the triac of the AC controller on the PSU does not short-circuit. <br> - Replace the PSU. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit. <br> - Replace the BCU. <br> - Turn the power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC571- | A | Pressure Roller Thermistor (End) Disconnection |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC572-$02$ | A | Pressure Roller Thermistor (End) Does Not Reload |
|  |  | When the temperature does not reach 40 degrees Centigrade for 100 seconds consecutively. |
|  |  | - Thermistor dirt <br> - Thermopile deformed or not installed (or mounted) properly <br> - Outside input voltage guarantee <br> - After excess temperature rise prevention unit operation |
|  |  | - Remove the jammed paper in the fusing unit. <br> - Check and replace the pressure roller thermistor (end). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the thermopile. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC573- } \\ & 00 \end{aligned}$ | A | Pressure Roller Thermistor (End) High Temperature Detection (software) |
|  |  | When the pressure roller thermistor (end) detects a predetermined temperature or above for specified second consecutively. |
|  |  | - Triac short-circuit <br> - Engine controller defective <br> - Pressure roller thermistor (end) defective <br> - Fusing controller software defective |
|  |  | - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit <br> - Replace the BCU. <br> - Replace the fusing unit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC574-$00$ | A | Pressure Roller Thermistor (End) High Temperature Detection (hardware) |
|  |  | In the event of an error |
|  |  | - Triac short-circuit <br> - Engine controller defective <br> - Pressure roller thermistor (end) defective <br> - Fusing control: out of control |
|  |  | - Check the sensor temperature with the following SPs. If the temperature is lower than $250^{\circ} \mathrm{C}$, replace the thermopile or thermistor. <br> - SP1-141-101 (Thermopile (center)) <br> - SP1-141-102 (Thermopile (edge)) <br> - SP1-141-103 (Thermistor (center)) <br> - SP1-141-104 (Thermistor (edge)) <br> - SP1-141-151 (Thermopile (center): 200 msec before the SC is generated) <br> - SP1-141-152 (Thermopile (edge): 200 msec before the SC is generated) <br> - SP1-141-153 (Thermistor (center): 200 msec before the SC is generated) <br> - SP1-141-154 (Thermistor (edge): 200 msec before the SC is generated) <br> Note: The high temperature state of the fusing unit is detected when the temperature detected by the sensor is $250^{\circ} \mathrm{C}$ or more. Therefore, if the temperature of the above SPs is lower than $250^{\circ} \mathrm{C}$, the thermopile or thermistor may be defective or out of position. <br> - Check the fusing unit. <br> - Check that the triac of the AC controller on the PSU does not short-circuit. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Replace the PSU. <br> - Reconnect the following connectors: CN115 of BCU, connectors between the fusing unit and the BCU, connectors connected to the fusing unit <br> - Replace the following harness: CN115 of BCU, connectors between the fusing unit and the BCU , connectors connected to the fusing unit <br> - Replace the BCU. <br> - Turn the power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC589- } \\ & 01 \end{aligned}$ | D | Fusing center: Low Temperature Detection |
|  |  | When the thermopile (center) detects the temperature which is 180 degrees Centigrade lower than target Temperature for 12 seconds consecutively. |
|  |  | - Central heater harness disconnected <br> - Connector defective <br> - After excess temperature rise prevention unit (thermostat) operation |
|  |  | - Replace the jammed paper in the fusing unit. <br> - Check and replace the thermopile (center). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU. |
| SC589-$02$ | D | Fusing edge: Low Temperature Detection |
|  |  | When the thermopile (edge) detects the temperature which is 180 degrees Centigrade lower than target Temperature for 12 seconds consecutively. |
|  |  | - Edge heater harness disconnected <br> - Connector defective <br> - After excess temperature rise prevention unit (thermostat) operation |
|  |  | - Replace the jammed paper in the fusing unit. <br> - Check and replace the thermopile (edge). <br> - Check the power supply voltage and reconnect the cable to the outlet. <br> - Replace the thermostat. <br> - Replace the BCU. |

## SC Tables: SC6xx (Communication and Others)

| SC620-01 to SC687-00 |  |  |
| :---: | :---: | :---: |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| $\begin{aligned} & \text { SC620- } \\ & 01 \end{aligned}$ | D | ADF Communication Error 1 |
| $\begin{aligned} & \text { SC620- } \\ & 02 \end{aligned}$ | D | ADF Communication Error 2 |
| $\begin{aligned} & \text { SC620- } \\ & 03 \end{aligned}$ | D | ADF Communication Error 3 |
|  |  | SC620-01: <br> After ADF connection was recognized on startup, an error is detected. (disconnection detection) <br> SC620-02: <br> After ADF connection was recognized on startup, an error is detected. (Retry out due to communication error) <br> SC620-03: <br> SC is displayed when CIS initialization complete command is not received for certain time. |
|  |  | - ADF connection fault <br> - ADF defection <br> - IPU board defection <br> - Noise contamination <br> - ADF machine code unmatched |
|  |  | - Check the ADF cable connection <br> - Replace the ADF <br> - Replace the IPU board <br> - Replace the ADF which matches the machine code |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC621-00 | D | Finisher/Mail Box Communication Error |
|  |  | - Detected an error when connecting the communication line. <br> - Received a communication error notification from the UART. |
|  |  | - Finisher control board defective. <br> - BCU defective <br> - Connection fault between finisher and main machine. |
|  |  | - Turn the power off/on. <br> - Reconnect the finisher/mail box interface cable <br> - Replace the BCU |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | $\bullet \quad$ Replace the finisher/mail box. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC622 | D | Paper Bank Communication Error |
| $\begin{aligned} & \text { SC622- } \\ & 01 \end{aligned}$ | D | Paper Bank 1 Communication Error (D694) |
| $\begin{aligned} & \text { SC622- } \\ & 11 \end{aligned}$ | D | Paper Bank 1 Communication Error (D787) |
| $\begin{aligned} & \text { SC622- } \\ & 12 \end{aligned}$ | D | Paper Bank 1 Communication Error (D787) |
| $\begin{aligned} & \text { SC622- } \\ & 31 \end{aligned}$ | D | Paper Bank 1 Communication Error (D695) |
|  |  | Detected an error when connecting the communication line. <br> - Paper bank control board defective <br> - BCU defective <br> - Paper bank-main machine connection fault <br> Check if the SC occurs by turning the main 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. <br> 1. Check if all connectors in tray 1,2 , and optional paper tray are connected securely. Reconnect the connectors if they are disconnected, or loose. <br> 2. Check the harness in tray 1, 2, and optional paper tray. Replace the harness if it is disconnected, or damaged. <br> 3. Check if there are any signs of a short circuit on the Bank Main Board. If there are any defects, replace the board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC623- } \\ & 00 \end{aligned}$ | D | Paper Bank Communication Error (D696) |
|  |  | When two trays PFU (D787) and side LICT (D696) or LCIT (D695) and side LCIT (D696) are installed, <br> 1. When the upper stream unit (D787 or D695) recognizes the lower stream unit (D696), the break of the lower stream unit is not canceled within predetermined milliseconds. <br> 2. After the upper stream unit (D787 or D695) recognizes the lower stream unit (D696), there is no ACK within predetermined milliseconds after transmission of a data frame to the lower stream unit, and a timeout error occurs for 3 times consecutively even if retransmission is performed. |
|  |  | - Bank control board fault <br> - Connector disconnected |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :--- | :--- | :--- | :--- |
|  |  | $\bullet$ | Turn the power off/on. |
|  |  | $\bullet$ | Reset the optional paper tray connecting cable. |
|  |  | $\bullet$ | Replace the BCU. |
|  |  | $\bullet$ | Replace the optional paper tray. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC664- } \\ & 01 \end{aligned}$ | D | Access Permission Error to VODKA SRAM |
| $\begin{aligned} & \text { SC664- } \\ & 02 \end{aligned}$ | D | Write Error to VODKA SRAM |
| $\begin{aligned} & \text { SC664- } \\ & 03 \end{aligned}$ | D | VODKA Program Startup Error |
|  |  | The machine detects the communication error between VODKA and SRAM when starting up, or recovery from energy saver mode. |
|  |  | - BCU defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |
|  |  | - Turn the power off/on. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC665- } \\ & 01 \end{aligned}$ | D | BCU-IPU Connection Error |
|  |  | The machine detects the communication error between BCU and IPU (No FFC connection) when starting up, or recovery from energy saver mode. |
|  |  | - BCU defective, IPU defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |
|  |  | - Reconnect the FFC. <br> - Replace the FFC. <br> - Replace the BCU. <br> - Replace the IPU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC665- <br> 04 | D | BCU (IOB Module) Does Not Start |
|  |  | The IOB does not start up when starting up, or recovery from energy saver mode. |
|  |  | - No power supply to the BCU (IOB module) (power supply connector installed incorrectly, harness broken) <br> - Board defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :--- | :--- | :--- | :--- |
|  |  | $\bullet$ | Turn the power off/on. |
|  |  | $\bullet$ | Reconnect the BCU power supply harness. |
|  |  | $\bullet$ | Replace the BCU power supply harness. |
|  |  | $\bullet$ | Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC665- | D | Master Device Communication Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC665- <br> 07 | D | IPU signal Communication Error |
|  |  | The machine detects the communication error between CPU and Slavel when starting up, or recovery from energy saver mode. |
|  |  | - BCU defective, IPU defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |
|  |  | - Reconnect the FCC. <br> - Replace the FCC. <br> - Replace the BCU. <br> - Replace the IPU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC66508 | D | IOB signal Communication Error |
|  |  | The machine detects the communication error between CPU and Slave1 when starting up, or recovery from energy saver mode. |
|  |  | - BCU defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |
|  |  | - Turn the power off/on. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC667- | 01 |  |
|  |  | Master Device Mode Setting Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | mode. |
|  |  | - BCU defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |
|  |  | - Turn the power off/on. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC667- | D | Slave1 Device Mode Setting Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC667- } \\ & 40 \end{aligned}$ | D | Macaron1 Mode Setting Error |
|  |  | The machine detects the Macaron 1 mode error when starting up, or recovery from energy saver mode. |
|  |  | - BCU defective (Parts implementation defect, solder scrap, implemented parts defect, etc.) |
|  |  | - Turn the power off/on. <br> - Replace the BCU. <br> - Replace the IPU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC669 |  | EEPROM Communication Error |
| SC669- <br> 01 | D | EEPROM OPEN: ID error |
| SC669- <br> 02 | D | EEPROM OPEN: Channel error |
| SC669- <br> 03 | D | EEPROM OPEN: Device error |
| SC669- <br> 04 | D | EEPROM OPEN: Communication abort error |
| SC669- <br> 05 | D | EEPROM OPEN: Communication timeout error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC669- } \\ & 06 \end{aligned}$ | D | EEPROM OPEN: Operation stopped error |
| $\begin{aligned} & \text { SC669- } \\ & 07 \end{aligned}$ | D | EEPROM OPEN: Buffer full |
| SC669- $08$ | D | EEPROM OPEN: No error code |
| $\begin{aligned} & \text { SC669- } \\ & 09 \end{aligned}$ | D | EEPROM CLOSE: ID error |
| $\begin{aligned} & \text { SC669- } \\ & 10 \end{aligned}$ | D | EEPROM CLOSE: No error code |
| $\begin{array}{\|l} \text { SC669- } \\ 11 \end{array}$ | D | EEPROM Data write: ID error |
| SC669- $12$ | D | EEPROM Data write: Channel error |
| $\begin{aligned} & \text { SC669- } \\ & 13 \end{aligned}$ | D | EEPROM Data write: Device error |
| SC669- $14$ | D | EEPROM Data write: Communication abort error |
| $\begin{aligned} & \text { SC669- } \\ & 15 \end{aligned}$ | D | EEPROM Data write: Communication timeout error |
| SC669- $16$ | D | EEPROM Data write: Operation stopped error |
| $\begin{aligned} & \text { SC669- } \\ & 17 \end{aligned}$ | D | EEPROM Data write: Buffer full |
| SC669- <br> 18 | D | EEPROM Data write: No error code |
| $\begin{aligned} & \text { SC669- } \\ & 19 \end{aligned}$ | D | EEPROM Data read: ID error |
| SC66920 | D | EEPROM Data read: Channel error |
| $\begin{array}{\|l} \text { SC669- } \\ 21 \\ \hline \end{array}$ | D | EEPROM Data read: Device error |
| SC66922 | D | EEPROM Data read: Communication abort error |
| SC669- $23$ | D | EEPROM Data read: Communication timeout error |
| SC669- | D | EEPROM Data read: Operation stopped error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 24 |  |  |
| $\begin{aligned} & \text { SC669- } \\ & 25 \end{aligned}$ | D | EEPROM Data read: Buffer full |
| $\begin{aligned} & \text { SC669- } \\ & 26 \end{aligned}$ | D | EEPROM Data read: No error code |
|  |  | Received an error notification during EEPROM communication and does not resume after 3 retries. |
|  |  | - Electrical noise <br> - EEPROM not connected fully <br> - EEPROM damaged <br> - BCU damaged |
|  |  | - Turn the power off/on. <br> - Check the EEPROM. <br> - Replace the EEPROM. <br> - Replace the BCU. |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| $\begin{aligned} & \text { SC669- } \\ & 36 \end{aligned}$ | D | EEPROM: Verify Error |
|  |  | The machine receives an error notification during EEPROM (BCU) communication and does not resume after 2 retries. <br> The machine detects an abnormal value in the EEPROM data when starting up, or recovery from energy saver mode. |
|  |  | - Electrical noise <br> - EEPROM not connected fully <br> - EEPROM damaged <br> - BCU damaged |
|  |  | - Turn the power off/on. <br> - Check the EEPROM. <br> - Replace the EEPROM. <br> - Replace the BCU. |
| $\begin{aligned} & \text { SC669- } \\ & 37 \end{aligned}$ | D | EEPROM: Failure Detection Error |
|  |  | The machine receives an error notification during EEPROM (BCU) communication and does not resume after 1 retries. <br> The machine determined EEPROM failure in the EEPROM detection operation when starting up, or recovery from energy saver mode. |
|  |  | - Electrical noise <br> - EEPROM not connected fully |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - EEPROM damaged <br> - BCU damaged |
|  |  | - Turn the power off/on. <br> - Check the EEPROM. <br> - Replace the EEPROM. <br> - Replace the BCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC682 |  | PCU: ID Chip Communication Error |
| $\begin{aligned} & \text { SC682- } \\ & 01 \end{aligned}$ | D | Invalid Device ID |
| $\begin{aligned} & \text { SC682- } \\ & 06 \end{aligned}$ | D | Channel Error |
| $\begin{aligned} & \text { SC682- } \\ & 11 \end{aligned}$ | D | Device Error |
| $\begin{aligned} & \text { SC682- } \\ & 16 \end{aligned}$ | D | Communication Aborted (error during communication) |
| $\begin{aligned} & \text { SC682- } \\ & 21 \end{aligned}$ | D | Communication Timeout |
| $\begin{aligned} & \text { SC682- } \\ & 26 \end{aligned}$ | D | Device Stopped (logically stopped) |
| $\begin{aligned} & \text { SC682- } \\ & 31 \end{aligned}$ | D | Requested Buffer Full |
|  |  | Received an error notification during EEPROM communication and does not resume after 3 retries. |
|  |  | - Device ID date error <br> - Mu sesnsor / EEPROM defective <br> - Electrical noise <br> - PCU is not set properly. |
|  |  | - Turn the power off/on. <br> - Replace the PCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC682- | D | PCU: Verify Error |
|  |  | Received a error notification during EEPROM communication and does not resume after 2 <br> retries. |
|  | $\bullet \quad$ Device ID date error |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Mu sensor / EEPROM defective <br> - Electrical noise <br> - PCU is not set properly. |
|  |  | - Turn the power off/on. <br> - Replace the PCU. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC687-00 | D | PER Not Received Error |
|  |  | Unable to receive the PER command from the controller. |
|  |  | $\bullet$ |
|  |  | Communication error |
|  |  | Replace the BCU. |

## SC Tables: SC7xx (Peripherals)

| SC700-01 to SC792-00 |  |  |
| :---: | :---: | :---: |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| SC700 |  | SPDF error |
| $\begin{aligned} & \text { SC700- } \\ & 01 \end{aligned}$ | D | ADF Bottom Plate Lift Motor (SPDF) |
| $\begin{aligned} & \text { SC700- } \\ & 02 \end{aligned}$ | D | ADF Pick-Up Roller Lift Motor Error (SPDF) |
| $\begin{aligned} & \text { SC700- } \\ & 04 \end{aligned}$ | D | ADF Feed Motor Error (SPDF) |
| $\begin{aligned} & \text { SC700- } \\ & 05 \end{aligned}$ | D | ADF Entrance Motor Error (SPDF) |
| $\begin{aligned} & \text { SC700- } \\ & 06 \end{aligned}$ | D | ADF Transport Motor Error (SPDF) |
| $\begin{aligned} & \text { SC700- } \\ & 07 \end{aligned}$ | D | ADF Scanning Motor Error (SPDF) |
| SC700- <br> 09 | D | ADF Exit Motor Error (SPDF) |
|  |  | SC700-01 <br> Even if the ADF bottom plate lift motor is rotated in the base plate ascent direction, the bottom plate position sensor does not detect. <br> Even if the ADF bottom plate lift motor is rotated in the base plate descent direction, the bottom plate HP sensor does not detect. <br> SC700-02 <br> Even if the ADF pick-up roller lift motor is rotated, the pick-up roller HP sensor does not detect. $\text { SC700-04, 05, 06, 07, } 09$ <br> When an error notification signal is detected during the motor drive period. |
|  |  | SC700-01 <br> - Bottom plate position sensor error (output error) <br> - Bottom plate HP sensor <br> - ADF bottom plate lift motor error (does not rotate) <br> - ADF controller board error <br> SC700-02 <br> - Pick-up roller HP sensor error (output error) <br> - ADF pick-up roller lift motor error (does not rotate) <br> - ADF controller board error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | SC700-04, 05, 06, 07, 09 <br> - Motor defective <br> - Connector disconnected <br> - Harness broken <br> - Overload |
|  |  | SC700-01, 02 <br> - Check the sensor harness and motor harness connection <br> - Replace the sensor harness and motor harness <br> - Replace the sensor <br> - Replace the motor <br> - Replace the ADF controller board <br> SC700-04, 05, 06, 07, 09 <br> - Check the harness connection <br> - Replace the harness <br> - Replace the motor |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC701-03 | D | Paper Feed Motor Driver Error (ARDF) |
|  |  | Detection of error signal from motor driver |
|  |  | - Encoder disconnection <br> - Encoder connector dropout <br> - Encoder defective <br> - Overload <br> - Motor deterioration |
|  |  | - Replace the encoder harness <br> - Check the harness connection <br> - Replace the motor |
| SC701-08 | D | Paper Exit Motor Driver Error (ARDF) |
|  |  | Detection of error signal from motor driver. |
|  |  | - Encoder disconnection <br> - Encoder connector dropout <br> - Encoder defective <br> - Overload <br> - Motor deterioration |
|  |  | - Replace the encoder harness <br> - Check the harness connection <br> - Replace the motor |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC702- } \\ & 01 \end{aligned}$ | D | Protection Device Intercept Error 1 (ARDF) |
|  |  | When original source 5 V power supply is ON , protection device intercept of 24 V power supply system is detected. |
|  |  | Any of feed motor, transport motor, inverter solenoid, pick-up solenoid, feed clutch and cooling fan motor defective, a harness short-circuit occurs, and the protection device of the 24 V power supply system intercepts. |
|  |  | - Replace the blown fuse or circuit board <br> - Replace the short-circuited parts |
| $\begin{aligned} & \text { SC702- } \\ & 02 \end{aligned}$ | D | Protection Device Intercept Error 2 (ARDF) |
|  |  | When original source 5 V power supply is ON , protection device intercept of 24 V OUT power supply system is detected. |
|  |  | Stamp solenoid defective or harness short-circuit occurs in 24VOUT power supply system. |
|  |  | - Replace the blown fuse or circuit board <br> - Replace the short-circuited parts |
| $\begin{aligned} & \text { SC702- } \\ & 03 \end{aligned}$ | D | Protection Device Intercept Error 3 (ARDF) |
|  |  | When original source 5 V power supply is ON , protection device intercept of 5 VE power supply system is detected. |
|  |  | Original set sensor defective or a harness short-circuit occur in 5VE power supply system. |
|  |  | - Replace the blown fuse or circuit board <br> - Replace the short-circuited parts |
| $\begin{aligned} & \text { SC702- } \\ & 04 \end{aligned}$ | D | Protection Device Intercept Error 4 (SPDF) |
|  |  | Motor defective in any of the ADF pick-up roller lift motor, stamp solenoid, ADF bottom plate lift motor or FAN motor, or a harness short-circuit occurs, and the protection device of the non-interlocking power supply system intercepts. |
|  |  | Motor defective or a harness short-circuit occurs in the non-interlocking power supply system. |
|  |  | - Replace the blown fuse or circuit board <br> - Replace the short-circuited parts |
| $\begin{aligned} & \text { SC702- } \\ & 05 \end{aligned}$ | D | Protection Device Intercept Error 5 (SPDF) |
|  |  | Motor defective in the paper feed motor, entrance motor, transport motor, ADF scanning motor or ADF exit motor, or a harness short-circuit occurs, and the protection device of the interlocking power supply system intercepts. |
|  |  | Motor defective or a harness short-circuit occurs in the interlocking power supply system. |
|  |  | - Replace the blown fuse or circuit board <br> - Replace the short-circuited parts |


| SC No. | Level | $\quad$ Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- | :--- |
| SC720 |  | Booklet Finisher SR3240/Finisher SR3230 Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC720 |  | Booklet Finisher SR3240/Finisher SR3230 Error |
| SC720- <br> 10 | B | Entrance Transport Motor Error |
| SC720- <br> 11 | B | Horizontal Transport Motor Error |
| SC720- <br> 13 | B | Transport Motor Error |
| SC720- <br> 15 | B | Pre-stack Transport Motor Error |
| SC720- | B |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 17 |  |  |
|  |  | Error Condition of -06, -10, -11, -13, -15, -17 <br> - Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) |
| $\begin{aligned} & \text { SC720- } \\ & 20 \end{aligned}$ | B | Lower Junction Gate Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 24 \end{aligned}$ | B | Paper Exit Guide Plate Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 25 \end{aligned}$ | B | Punch Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 27 \end{aligned}$ | B | Punch Unit Movement Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 28 \end{aligned}$ | B | Punch Registration Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 30 \end{aligned}$ | B | Jogger Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 33 \end{aligned}$ | B | Positioning Roller Shift Motor Error |
|  |  | Error Condition of -20, -24, -25, -27, -28, -30, -33 <br> - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 34 \end{aligned}$ | B | Positioning Roller Motor Error |
|  |  | - Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) |
| $\begin{aligned} & \text { SC720- } \\ & 35 \end{aligned}$ | B | Paper Stacking Holder Motor Error |
|  |  | - Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) <br> - During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined time (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 41 \end{aligned}$ | B | Stack Feed-out Motor Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) <br> - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 42 \end{aligned}$ | B | Corner Stapler Movement Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 44 \end{aligned}$ | B | Corner Stapler Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined time (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 50 \end{aligned}$ | B | Booklet Jogger Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 51 \end{aligned}$ | B | Booklet Jogging Pawl Movement Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 52 \end{aligned}$ | B | Press Folding Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 53 \end{aligned}$ | B | Bottom Fence Motor Error |
|  |  | Error Condition of -50, -51, -52, -53 <br> - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 54 \end{aligned}$ | B | Fold Roller Motor Error |
|  |  | Motor driver detects an error (short-circuit and overheating) <br> (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC720- } \\ & 60 \end{aligned}$ | B | Booklet Stapler Motor Error |



| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC720- } \\ & 81 \end{aligned}$ | B | Shift Roller Drive Motor Error |
|  |  | Motor driver detects an error (DC motor control error) (1st time is jam notification, 2nd time is SC notification) |
| $\begin{aligned} & \text { SC720- } \\ & 82 \end{aligned}$ | B | Edge Guide Motor Error |
| $\begin{aligned} & \text { SC720- } \\ & 83 \end{aligned}$ | B | Paper Guide Motor Error |
|  |  | Error Condition of -82, -83 <br> - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
|  |  | - Harness short-circuit -80 only <br> - Overload <br> - Motor defective <br> - Solenoid defective $-03,-80$ only <br> - Connector disconnected <br> - Encoder defective -10, -25, -34-81 only <br> - Home position sensor defective |
|  |  | Check if the SC occurs by turning the main 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. <br> - The target parts are the motor and related HP sensor that SC occurred. <br> 1. Check if the connector of the target part is connected securely. Reconnect the connector if it is disconnected, or loose. <br> 2. Check the harness for the target part. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| SC721 |  | Booklet Finisher SR3220 (D3B9) Error |
| $\begin{aligned} & \text { SC721- } \\ & 03 \end{aligned}$ | B | Protection Device Intercept Error 1 |
|  |  | Fuse blowout is detected |
| SC721- | C | See the descriptions next table below. |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 06 |  |  |
| $\begin{aligned} & \text { SC721- } \\ & 10 \end{aligned}$ | B | Entrance Transport Motor Error (1K sheet finisher) |
|  |  | Motor driver detects an error state (DC motor control error). <br> 1 st error detection is determined as a jam and 2 nd error detection is determined as an SC. |
| SC721- | B | Proof Transport Motor Error (1K sheet finisher) |
|  |  | Motor driver detects an error state (DC motor control error). <br> 1 st error detection is determined as a jam and 2nd error detection is determined as an SC. |
| SC721- $17$ | B | Paper Eject Transport Motor Error (1K sheet finisher) |
|  |  | Motor driver detects an error state (DC motor control error). <br> 1 st error detection is determined as a jam and 2 nd error detection is determined as an SC. |
| $\begin{aligned} & \text { SC721- } \\ & 24 \end{aligned}$ | B | Paper Exit Guide Plate Open/Close Motor (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse ( p 0 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (p1 pulse) (1st time is jam notification, 2nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 25 \end{aligned}$ | B | Punch Unit Drive Motor Error (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined time $(\mathrm{t} 0 \mathrm{sec})$ (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined time ( t 1 sec ) elapsed (1st time is jam notification, 2nd time is SC notification). <br> - Output from the encoder could not be counted for a predetermined number of times within a predetermined time ( t 0 sec ) (1st time is jam notification, 2nd time is SC notification). <br> The time to return to home without fail, the time coming from home, and the time for which the encoder output can be counted during normal operation, are taken as $\mathrm{t} 0, \mathrm{t} 1$ and t 2 . |
| $\begin{aligned} & \text { SC721- } \\ & 27 \end{aligned}$ | B | Punch Movement Motor Error (1K sheet finisher) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC721- } \\ & 28 \end{aligned}$ | B | Horizontal Registration Correction Motor Error (1K sheet finisher) |
| $\begin{aligned} & \text { SC721- } \\ & 30 \end{aligned}$ | B | Jogger Motor Error (1K sheet finisher) |
| $\begin{aligned} & \text { SC721- } \\ & 33 \end{aligned}$ | B | Positioning Roller Motor Error (1K sheet finisher) |
| $\begin{aligned} & \text { SC721- } \\ & 41 \end{aligned}$ | B | Feedout Pawl Motor Error (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (p0 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined pulse (p1 pulse) elapsed (1st time is jam notification, 2nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 42 \end{aligned}$ | B | Stapler Unit Displacement Motor Error (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse ( p 0 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined pulse ( p 1 pulse) elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, retreat sensor ON could not be detected even after a predetermined pulse ( p 2 pulse) elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During initialization, retreat sensor ON was detected simultaneously when the home position is detected (1st time is jam notification, 2nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as $\mathrm{p} 0, \mathrm{p} 1$ and p 2 . |
| $\begin{aligned} & \text { SC721- } \\ & 44 \end{aligned}$ | B | Stapler Error (1K sheet finisher) |
|  |  | - Motor driver detects an error (short-circuit and overheating) (1st time is SC). <br> - During movement to home, the home position could not be detected even after a predetermined time ( t 0 sec ) elapsed (1st time is jam notification, 2nd time is SC |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | notification). <br> - During movement from home, the home position was detected even after a predetermined time ( t 1 sec ) elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During motor drive, the output from the encoder could not be counted for a predetermined number of times within a predetermined time ( t 0 sec ) ( 1 st time is jam notification, 2nd time is SC notification). <br> The time to return to home without fail, the time coming from home, and the time for which the encoder output can be counted during normal operation, are taken as $\mathrm{t} 0, \mathrm{t} 1$ and t 2 . |
| $\begin{aligned} & \text { SC721- } \\ & 52 \end{aligned}$ | B | Folding Blade Motor Error (1K sheet finisher) |
|  |  | - Motor driver detects an error (short-circuit and overheating) (1st time is SC). <br> - During movement to home, the home position could not be detected within a predetermined pulse (p0 pulse) (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse ( p 1 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 53 \end{aligned}$ | B | Rear End Fence Displacement Motor Error (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse ( p 0 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse ( p 1 pulse) (1st time is jam notification, 2nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 58 \end{aligned}$ | B | Booklet Transport (Upper) Pressure Release Motor Error (1K sheet finisher) |
| $\begin{aligned} & \text { SC721- } \\ & 59 \end{aligned}$ | B | Booklet Transport (Lower) Pressure Release Motor Error (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (p0 pulse) (1st time is jam notification, 2nd time is SC |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (p1 pulse) (1st time is jam notification, 2nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 70 \end{aligned}$ | B | Tray Lift Motor Error (1K sheet finisher) |
|  |  | - Motor driver detects an error (short-circuit or overheating) (1st time is SC). <br> - During descent, the paper surface sensor still detects paper even after a predetermined time ( t 0 sec ) elapses ( 1 st time is jam notification, 2nd time is SC notification). <br> - During ascent, the paper surface sensor could not detect the paper surface even after a predetermined time (t0sec) elapses (1st time is jam notification, 2nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 71 \end{aligned}$ | B | Shift Motor Error (1K sheet finisher) |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse ( p 0 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse ( p 1 pulse) (1st time is jam notification, 2 nd time is SC notification). <br> The return pulse to home and pulse coming from home during normal operation are calculated and measured. The pulses which are 1.5-2 times the normal operation pulse are taken as p 0 and p 1 . |
| $\begin{aligned} & \text { SC721- } \\ & 80 \end{aligned}$ | B | Folding Transport Motor Error (1K sheet finisher) |
|  |  | - Motor driver detects an error (short-circuit or overheating) (1st time is SC) |
| $\begin{aligned} & \text { SC721- } \\ & 81 \end{aligned}$ | B | Paper Guide Drive Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Overcurrent (-03 only) <br> - Staple jam (-44 only) <br> - Encoder error (-11, -11, -25, -44) <br> - Motor defective <br> - Connecter disconnected, or loose <br> - Motor overload <br> - HP sensor defective <br> - Paper surface sensor defective (-70 only) |
|  |  | Check if the SC occurs by opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> - The target parts are the motor and related HP sensor that SC occurred. <br> 1. Check if the connector of the target part is connected securely. Reconnect the connector if it is disconnected, or loose. <br> 2. Check the harness for the target part. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC721 |  | Booklet Finisher SR3220 (D3B9) Error |
| SC721- | C | Access error to NVRAM |
|  |  | Error occurs when accessing NVRAM. |
|  |  | Connection failure or malfunction of NVRAM <br> Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do <br> the following steps. <br> 1. Pull out and reinsert the NVRAM to check if the NVRAM is correctly inserted into the <br> IC socket. If the SC cannot be recovered, replace the main board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC722 |  | Finisher SR3210 (D3B8) Error |
| SC722- <br> 03 | B | Protection Device Intercept Error 1 |
|  |  | Fuse blowout is detected |
| SC722- <br> 06 | C | See the descriptions next table below. |
| SC722- | B |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 10 |  |  |
|  |  | Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 11 \end{aligned}$ | B | Proof Transport Motor Error |
|  |  | Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 17 \end{aligned}$ | B | Paper Exit Transport Motor 2 Error |
|  |  | Motor driver detects an error state (DC motor control error) (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 24 \end{aligned}$ | B | Paper Exit Guide Plate Open/Close Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 25 \end{aligned}$ | B | Punch Unit Drive Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined time (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). <br> - Output from the encoder could not be counted for a predetermined number of times within a predetermined time (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 27 \end{aligned}$ | B | Horizontal Registration Unit Transfer Motor Error |
| $\begin{aligned} & \text { SC722- } \\ & 28 \end{aligned}$ | B | Horizontal Registration Correction Motor Error |
| $\begin{aligned} & \text { SC722- } \\ & 30 \end{aligned}$ | B | Jogger Motor Error |
| $\begin{aligned} & \text { SC722- } \\ & 33 \end{aligned}$ | B | Positioning Roller Motor Error |
| $\begin{aligned} & \text { SC722- } \\ & 41 \end{aligned}$ | B | Feedout Pawl Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 42 \end{aligned}$ | B | Stapler Transfer Motor Error |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, retreat sensor ON could not bebdetected even after a predetermined pulse elapsed (1st time is jambnotification, 2nd time is SC notification). <br> - During initialization, retreat sensor ON was detected simultaneouslybwhen the home position is detected (1st time is jam notification, 2ndbtime is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 44 \end{aligned}$ | B | Stapler Motor Error |
|  |  | - Motor driver detects an error (short-circuit or overheating) (1st time is SC). <br> - During movement to home, the home position could not be detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During motor drive, the output from the encoder could not be counted for a predetermined number of times within a predetermined time (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 45 \end{aligned}$ | B | Stapleless Stapler Transfer Motor Error |
|  |  | - Motor driver detects an error (short-circuit or overheating) (1st time is SC). <br> - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined pulse elapsed (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 46 \end{aligned}$ | B | Stapleless Stapler Motor Error |
|  |  | - Motor driver detects an error (short-circuit or overheating) (1st time is SC). <br> - During movement to home, the home position could not be detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected even after a predetermined time elapsed (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 47 \end{aligned}$ | B | Paper Guide Drive Motor Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 70 \end{aligned}$ | B | Tray Lift Motor Error |
|  |  | - Motor driver detects an error (short-circuit or overheating) (1st time is SC). <br> - During descent, the paper surface sensor still detects paper even after a predetermined time (t0sec) elapses (1st time is jam notification, 2nd time is SC notification). <br> - During ascent, the paper surface sensor could not detect the paper surface even after a predetermined time (t0sec) elapses (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC722- } \\ & 71 \end{aligned}$ | B | Shift Motor Error |
| $\begin{aligned} & \text { SC722- } \\ & 81 \end{aligned}$ | B | Paper Guide Drive Motor |
|  |  | - During movement to home, the home position could not be detected within a predetermined pulse (1st time is jam notification, 2nd time is SC notification). <br> - During movement from home, the home position was detected for longer than a predetermined pulse (1st time is jam notification, 2nd time is SC notification). |
|  |  | - Overcurrent (-03 only) <br> - Staple jam (-44 only) <br> - Encoder error (-11, -11, -25, -44) <br> - Motor defective <br> - Connecter disconnected, or loose <br> - Motor overload <br> - HP sensor defective <br> - Paper surface sensor defective (-70 only) |
|  |  | Check if the SC occurs by opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> - The target parts are the motor and related HP sensor that SC occurred. <br> 1. Check if the connector of the target part is connected securely. Reconnect the connector if it is disconnected, or loose. <br> 2. Check the harness for the target part. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, sensors turn OFF/ON, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC722 |  | Finisher SR3210 (D3B8) Error |
| $\begin{aligned} & \text { SC722- } \\ & 06 \end{aligned}$ | C | Access error to NVRAM |
|  |  | Error occurs when accessing NVRAM. |
|  |  | Connection failure or malfunction of NVRAM |
|  |  | Check if the SC occurs by turning the main power OFF then ON. If the SC occurs again, do the following steps. <br> 1. Pull out and reinsert the NVRAM to check if the NVRAM is correctly inserted into the IC socket. If the SC cannot be recovered, replace the main board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC723- } \\ & 03 \end{aligned}$ | B | Power Supply Error (Internal Finisher: Non-Staple Bind) |
|  |  | When original source 24 V power supply is ON , protection device intercept of non-interlock power supply system is detected. |
|  |  | A motor failure or harness short-circuit occur in the non-interlock power supply system. |
|  |  | - Replace the short-circuited harnesses <br> - Replace the protection devices |
| $\begin{aligned} & \text { SC723- } \\ & 10 \end{aligned}$ | B | Transport Motor Error (Internal Finisher: Non-Staple Bind) |
|  |  | The DCM driver error detection is started after reset, and predetermined milliseconds error signal is detected. <br> This SC will be issued when the above phenomenon repeated 2 times. |
|  |  | - Transport Motor failure <br> - Harness short-circuit <br> - Circuit board failure <br> - Over current <br> - Abnormal temperature |
|  |  | - Replace the motor <br> - Replace the harness <br> - Replace the circuit board. |
| SC723- <br> 20 | B | Junction Gate Motor Error (Internal Finisher: Non-Staple Bind) |
|  |  | When the junction gate motor HP sensor was not turned off while predetermined seconds applied to the junction gate motor with the HP sensor turned on. <br> When the junction gate motor HP sensor was not turned on while predetermined seconds applied to the junction gate motor with the HP sensor turned off. <br> This SC will be issued when the above phenomenon repeated 2 times. |
|  |  | - Junction Gate Motor failure |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Connector disconnected <br> - Over load <br> - Junction gate motor HP sensor error |
|  |  | - Check the connection <br> - Replace the motor/sensor <br> - Replace the harness |
| $\begin{aligned} & \text { SC723- } \\ & 24 \end{aligned}$ | B | Paper Exit Pressure Motor Error (Internal Finisher: Non-Staple Bind) |
|  |  | When the exit paper pressure HP sensor was not turned off while predetermined seconds applied to the exit pressure release motor with the HP sensor turned on. When paper output pressure HP sensor was not turned on while predetermined seconds applied to the exit pressure release motor with the HP sensor turned off. This SC will be issued when the above phenomenon repeated 2 times. |
|  |  | - Exit Pressure Release Motor failure <br> - Connector disconnected <br> - Over load <br> - Exit pressure release HP sensor error |
|  |  | - Check the connection <br> - Replace the motor/sensor <br> - Replace the harness |
| $\begin{aligned} & \text { SC723- } \\ & 44 \end{aligned}$ | B | Stapler Drive Motor Error (Internal Finisher: Non-Staple Bind) |
|  |  | When the stapler drive HP sensor was not turned off while predetermined seconds applied to the stapler motor with the HP sensor turned on. <br> When stapler drive HP sensor was not turned on while predetermined seconds applied to the stapler motor with the HP sensor turned off. <br> The STM driver error detection is started after reset, and predetermined seconds error signal is detected. <br> This SC will be issued when the above phenomenon repeated 2 times. |
|  |  | - Stapler Motor failure <br> - Connector disconnected <br> - Stapler Motor overload <br> - Stapler HP sensor error <br> - Harness short-circuit <br> - Circuit board failure <br> - Excess current <br> - Abnormal temperature |
|  |  | - Check the connection <br> - Replace the motor/sensor <br> - Replace the harness |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Replace the circuit board |
| $\begin{aligned} & \text { SC723- } \\ & 71 \end{aligned}$ | B | Shift Motor Error (Internal Finisher: Non-Staple Bind) |
|  |  | When the shift HP sensor was not turned off while predetermined seconds applied to the shift motor with the HP sensor turned on. <br> When shift HP sensor was not turned on while predetermined seconds applied to the shift motor with the HP sensor turned off. <br> The STM driver error detection is started after reset, and predetermined seconds error signal is detected. <br> This SC will be issued when the above phenomenon repeated 2 times. |
|  |  | - Shift Motor failure <br> - Connector disconnected <br> - Shift Motor overload <br> - Shift HP sensor error <br> - Harness short-circuit <br> - Circuit board failure <br> - Excess current <br> - Abnormal temperature |
|  |  | - Check the connection <br> - Replace the motor/sensor <br> - Replace the harness <br> - Replace the circuit board |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC724 |  | Internal Finisher Error |
| SC724- | B | Paper Exit Guide Plate Motor Error (Internal finisher) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC724- } \\ & 27 \end{aligned}$ | B | Horizontal Registration Movement Unit Motor Error (Internal finisher) |
|  |  | - When Horizontal Registration Movement Unit Motor is driven for predetermined seconds when horizontal registration movement HP sensor is ON, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - When Horizontal Registration Movement Unit Motor is driven for predetermined seconds when horizontal registration movement HP sensor is OFF, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC724- } \\ & 28 \end{aligned}$ | B | Horizontal Registration Transport Unit Motor Error (Internal finisher) |
|  |  | - When Punch Horizontal Registration Detection Unit Motor is driven for predetermined seconds when horizontal registration detection HP sensor is ON, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - When Punch Horizontal Registration Detection Unit Motor is driven for predetermined seconds when horizontal registration detection HP sensor is OFF, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |
| $\begin{array}{\|l} \text { SC724- } \\ 31 \end{array}$ | B | Jogger Fence Motor (Front) Error (Internal finisher) |
|  |  | - When Jogger Fence Motor (Front) is driven for predetermined seconds when front jogger HP sensor is ON, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - When Jogger Fence Motor (Front) is driven for predetermined seconds when front jogger HP sensor is OFF, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |
| $\begin{array}{\|l\|l} \text { SC724- } \\ 32 \end{array}$ | B | Jogger Fence Motor (Rear) Error (Internal finisher) |
|  |  | - When Jogger Fence Motor (Rear) is driven for predetermined seconds when rear jogger HP sensor is ON, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - When Jogger Fence Motor (Rear) is driven for predetermined seconds when rear jogger HP sensor is OFF, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC724- } \\ & 33 \end{aligned}$ | B | Positioning Roller Motor Error (Internal finisher) |
|  |  | - During initialization/strike descent, even when the strike roller motor is driven for predetermined seconds when the strike roller HP sensor is ON, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - During initialization, even when the strike roller motor is driven for predetermined seconds when the strike roller HP sensor is OFF, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). <br> - When the strike roller is lifted from the press position, even when driven for predetermined seconds the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC724- } \\ & 38 \end{aligned}$ | B | Stack Height Lever Motor Error (Internal finisher) |
|  |  | - When the paper press HP sensor is ON and the paper press motor is driven for predetermined seconds, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - When the paper press HP sensor is OFF and the paper press motor is driven for predetermined seconds, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC724- } \\ & 42 \end{aligned}$ | B | Stapler Retreat Motor Error (Internal finisher) |
|  |  | - Sifter stapler displacement HP sensor ON, even when the stapler displacement motor is driven for predetermined seconds, the HP sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - After stapler displacement HP sensor OFF, even when the stapler displacement motor is driven for predetermined seconds, the HP sensor does not switch ON (1st time is jam notification, 2nd time is SC notification). |
| $\begin{aligned} & \text { SC724- } \\ & 70 \end{aligned}$ | B | Tray Lift Motor Error (Internal finisher) |
|  |  | - During ascent from paper surface sensor ON, even after predetermined seconds elapses, the paper surface sensor does not switch OFF (1st time is jam notification, 2nd time is SC notification). <br> - During descent from paper surface sensor OFF, the paper surface sensor does not switch ON even after predetermined seconds elapses (1st time is jam notification, 2nd time is SC notification). <br> - During descent to the packing position, the full sensor does not switch ON even if predetermined seconds elapses. |
| $\begin{aligned} & \text { SC724- } \\ & 71 \end{aligned}$ | B | Shift Motor Error |
|  |  | If the shift sensor has no response after the shift motor starts moving 1.86 sec . |
| $\begin{aligned} & \text { SC724- } \\ & 80 \end{aligned}$ | B | Shift Motor Error (Internal finisher) |
|  |  | - When the shift roller HP sensor is ON, the HP sensor does not switch OFF even when the shift roller motor is driven for predetermined seconds (1st time is jam notification, 2nd time is SC notification) <br> - When the shift roller HP sensor is OFF, the HP sensor does not switch ON even when the shift roller motor is driven for predetermined seconds (1st time is jam notification, 2nd time is SC notification). |
| SC72486 | B | Stapler Motor Error (Internal finisher) |
|  |  | - HP sensor does not switch OFF even when the stapler motor is driven for predetermined seconds after the stapler HP sensor switches ON (1st time is jam notification, 2nd time is SC notification). <br> - HP sensor does not switch ON even when the stapler motor is driven for predetermined seconds after the stapler HP sensor switches OFF (1st time is jam notification, 2nd time |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | is SC notification). |
|  |  | - Motor defective <br> - Connector disconnected <br> - Motor overload <br> - Home position sensor error <br> - Paper surface sensor error (*SC724-38, 70 only) <br> - $\quad$ Staple jam (*SC724-86 only) |
|  |  | - Reset the connector <br> - Replace the motor <br> - Replace the sensor <br> - Replace the harness <br> - Remove the staple jam (*SC724-86 only) |


| SC No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC727 |  | Internal Multi-fold Unit FD3000 Error |
| $\begin{aligned} & \text { SC727- } \\ & 01 \end{aligned}$ | B | Connection Error to Downstream Unit |
|  |  | Communication error has occurred with the serial interface of the downstream unit. <br> This is displayed as an SC code from its initial detection. <br> - Harness defective <br> - Downstream unit defective <br> - Controller board defective <br> - I/F connector defective <br> Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main 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. <br> 1. Turn the power off, disconnect the interface connector connected to the machine, connect the interface connector of the downstream unit to the machine, and then turn the power on. <br> 2. If the downstream unit does not operate, resulting in connection error, there is a problem with the downstream unit, so repair the downstream unit. <br> 3. Check the harness connections between the controller board and each connector. Replace the harness if it is damaged, or connect it if it is disconnected. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |
| $\begin{aligned} & \text { SC727- } \\ & 03 \end{aligned}$ | B | Protection Device Intercept Error 1 |
|  |  | - Fuse (FU3) break is detected |


| SC No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC727- } \\ & 04 \end{aligned}$ | B | - 24-V power supply line error <br> This is displayed as an SC code from its initial detection. |
|  |  | - Fuse (FU3) is blowout <br> - Controller board defective <br> - 24-V harness entrapment (short circuit) |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main 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. <br> - The target parts are all the motors and the sensors. <br> 1. Check that the harness between the PCB and motor/solenoid is not stripped or entrapped. Replace the harness if there are any defects. <br> 2. Rotate each motor shaft by hand to check for any overload. Replace the motor if there are any defects. <br> 3. Check if there is any unusual odor from the solenoid or any problem with its appearance. Replace the solenoid if there are any defects. <br> 4. Check if there are any signs of a short circuit on PCB. Replace the PCB if there are any defects. |
|  |  | Protection Device Intercept Error 2 |
|  |  | - Poly-switch (FU4) break is detected <br> - Limit line disturbances from inrush currents has occurred to the interlock system. <br> - This is displayed as an SC code from its initial detection. |
|  |  | - Poly-switch (FU4) trip (Trip refers to the phenomenon whereby an overcurrent flows into the poly-switch, resulting in high resistance.) <br> - Controller board defective <br> - 24-V harness entrapment (short circuit) |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> - The target parts are all the motors and the sensors. <br> 1. Check that the harness between the PCB and the motor/solenoid is not stripped or entrapped. Replace the harness if there are any defects. <br> 2. Rotate each motor shaft by hand to check for any overload. Replace the motor if there are any defects. <br> 3. Check if there is any unusual odor from the solenoid or any problem with its appearance. Replace the solenoid if there are any defects. <br> 4. Check if there are any signs of a short circuit on PCB. Replace the PCB if there are any |


| SC No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | defects. |
| $\begin{aligned} & \text { SC727- } \\ & 06 \end{aligned}$ | C | NVRAM Error 1 |
|  |  | An error has occurred during an access to the NVRAM. This is displayed as an SC code from its initial detection. |
|  |  | NVRAM is disconnected, or defective |
|  |  | Turn the main power OFF then ON after checking whether there are no foreign objects (such as remaining paper) in the tray. If the SC occurs again, replace the controller board. |
| $\begin{aligned} & \text { SC727- } \\ & 10 \end{aligned}$ | B | Transport Motor Error |
|  |  | Motor error (Encoder error) <br> This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears. |
|  |  | - Motor defective <br> - Motor harness entrapped (short circuit or breaking of wire) <br> - Connector disconnected <br> - Controller board defective |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step <br> 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. <br> 2. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |
| $\begin{aligned} & \text { SC727- } \\ & 12 \end{aligned}$ | B | Registration Motor Error |
|  |  | Motor error (Encoder error) <br> This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears. |
|  |  | - Motor defective <br> - Motor harness entrapped (short circuit or breaking of wire) <br> - Connector disconnected <br> - Controller board defective |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by |



| SC No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Connector disconnected <br> - Controller board defective |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. <br> 2. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |
| $\begin{aligned} & \text { SC727- } \\ & 41 \end{aligned}$ | B | JG Crease Motor Error 2 |
|  |  | - Motor error (Encoder error) <br> - Crease Roller is not at the HP position. <br> This is reported as a jam error when detected for the first time. If it occurs again in a row, its SC code appears. |
|  |  | - Motor defective <br> - Motor/sensor harness entrapped (short circuit or breaking of wire) Connector disconnected <br> - Crease HP Sensor defective <br> - Controller board defective |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> 1. Check if all connectors between the controller board and the motors/sensors are connected securely. Reconnect the connectors if they are disconnected, or loose. <br> 2. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if the sensor turns OFF/ON. Replace the parts if there are any defects. <br> 5. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |
| $\begin{aligned} & \text { SC727- } \\ & 71 \end{aligned}$ | B | 2nd Fold Motor Error |
|  |  | Encoder error <br> This is reported as a jam error when detected for the first time. If it occurs again in a row, its |


| SC No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC727- } \\ & 72 \end{aligned}$ | B | SC code appears. |
|  |  | - Motor defective <br> - Motor harness entrapped (short circuit or breaking of wire) <br> - Connector disconnected <br> - Controller board defective |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main power OFF then ON, submitting a job, feeding paper, opening/closing covers, and input/output check. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> 1. Check if all connectors between the controller board and the motors are connected securely. Reconnect the connectors if they are disconnected, or loose. <br> 2. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |
|  |  | The power supply for the sensor is defective. |
|  |  | The power supply for the sensor $\left(5 \mathrm{~V} \_\mathrm{SN}\right)$ is defective. <br> This is displayed as an SC code from its initial detection. |
|  |  | - Sensor harness entrapped (short circuit or breaking of wire) <br> - Sensor defective <br> - Controller board defective |
|  |  | Turn the main power OFF then ON after checking whether there are no foreign objects (such as remaining paper) in the tray. If the SC occurs again, do the following steps. Check if the SC reoccurs by cycling the power after each step. <br> 1. Check if the harness is connected to the wrong sensor. Reconnect the connector if there are any defects. <br> 2. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the sensor turns OFF/ON. Replace the parts if there are any defects. <br> 4. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 5. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC761 |  | Bridge Unit BU3070 (D685) or Side Tray Type M3 (D725) Error |
| SC761- <br> 03 | B | Protection Device Intercept Error 5V |
| SC761- | B | Protection Device Intercept Error 24V |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 04 |  |  |
|  |  | Fuse blowout occurs due to over current during power injection (output detected for longer than 2 seconds). |
|  |  | - Over current of bridge unit motor <br> - Over current due to short-circuit in PCB |
|  |  | - Replace the bridge unit or side tray. <br> - Replace the PCB of bridge unit or side tray. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC780- <br> 01 | D | Bank 1 (Upper optional paper tray) Protection Device Intercept Error |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC781- } \\ & 01 \end{aligned}$ | D | Bank 2 (Lower optional paper tray) Protection Device Intercept Error |
|  |  | When original source of 5 V power supply is ON , protection device intercept of 24 V power system is detected. |
|  |  | In 24 V power supply system: <br> - Motor defective <br> - Solenoid defective <br> - Harness short- circuit |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | Remove the jammed paper or slip of paper from the tray, and check if the SC occurs by turning the main 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. <br> 1. Check if all connectors in tray 1,2 , and optional upper/lower trays are connected securely. Reconnect the connectors if they are disconnected, or loose. <br> 2. Check the harness in tray 1,2 , and optional upper/lower trays. Replace the harness if it is disconnected, or damaged. <br> 3. Check if the motor runs, has no overloads, and is properly driven. Replace the parts if there are any defects. <br> 4. Check if there are any signs of a short circuit. Replace the parts if there are any defects. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC791- } \\ & 00 \end{aligned}$ | D | No Bridge Unit when Finisher is Present |
|  |  | When power supply is switched on or paper is transported, finisher set is detected but bridge unit set is not detected. <br> (during internal finisher connection, not detected) |
|  |  | - Bridge unit not attached <br> - Bridge unit defective |
|  |  | - Reset the bridge unit. <br> - Turn the main power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC792- } \\ & 00 \end{aligned}$ | B | No Finisher, Bridge Unit Provided |
|  |  | When power supply is switched on, it is recognized there is no finisher, and a bridge unit is fitted. |
|  |  | - Finisher connector set incorrectly <br> - In a machine which has a bridge unit connected, a finisher is not fitted <br> - Finisher defective |
|  |  | Connect finisher or disconnect bridge unit, and turn the main power off/on. |

## SC Tables: SC8xx

SC816 to SC899

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC816 | [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 | 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 94 | D | Subsystem error |
|  |  | Energy save I/O subsystem detected some abnormality. |
|  |  | - Energy save I/O subsystem defective <br> - Energy save I/O subsystem detected a controller board error (non-response). <br> - Error was detected during preparation for transition to STR. |
|  |  | - Turn the main power off/on. <br> - Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC818- | D | Watchdog timer error |
|  |  | The system program fell into a bus-hold state or an endless loop of the program <br> interruption occurred, causing other process to stop. |
|  |  | System program defective |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - Controller board defective |
|  |  | - Optional board defective |
|  |  | - Turn the main power off/on. <br> - Replace the controller board. |



| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
|  |  | $\bullet \quad$ Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC840- <br> 00 | D | EEPROM access error |
|  |  | - During the I/O processing, a reading error occurred. The 3rd reading failure causes this SC code. <br> - During the I/O processing, a writing error occurred. |
|  |  | - Defective EEPROM |
|  |  | - |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| 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. |
|  |  | - |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC842- <br> 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. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC842- } \\ & 01 \end{aligned}$ | B | Insufficient Nand-Flash blocks (threshold exceeded) |
|  |  | At startup, or when machine returned from low power mode, the Nand-Flash status was read and judged that the number of unusable blocks had exceeded threshold, and then SCS generated the SC code. |
|  |  | Number of unusable blocks exceeded threshold for Nand-Flash |
|  |  | Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC842- <br> 02 | B | Number of Nand-Flash block deletions exceeded |
|  |  | At startup, or when the machined returned from low power mode, the Nand-Flash was read <br> and judged that the number of deleted blocks had exceeded threshold, and then SCS <br> generated this SC code. |
|  |  | Number of blocks deleted exceeded threshold for Nand-Flash |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
|  |  | Replace the controller board. |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC845 |  | Hardware Error Detected when the automatic firmware update |
| SC845- <br> 01 | D | Engine Board |
| SC845- <br> 02 | D | Controller Board |
| SC845- <br> 03 | D | Operation Panel (Normal) |
| SC845- <br> 04 | D | Operation Panel (Smart Panel) |
| SC845- <br> 05 | D | FCU |
|  |  | When updating the firmware automatically (ARFU), the firmware cannot be read or written <br> normally, and the firmware update cannot be completed even by 3 retries. |
|  |  | Hardware abnormality of the target board <br> Feplace the target board. <br> For SC845-02, HDD and memory may cause the problem. Replace the HDD or memory if <br> the SC cannot be recovered by replacing the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC855-01 | B | Wireless LAN board error (driver attachment failure) |
|  |  | Wireless LAN board error (wireless LAN card: 802.11 is covered) |
|  |  | - Defective wireless LAN board <br> - Loose connection |
|  |  | - Turn the main power off/on. <br> - Replace the wireless LAN board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC855-02 | B | Wireless LAN board error (driver initialization failure) |
|  |  | Wireless LAN board error (wireless LAN card: 802.11 is covered) |
|  |  | - Defective wireless LAN board <br> - Loose connection |
|  |  | - Turn the main power off/on. <br> - Replace the wireless LAN board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC858-00 | A | Data encryption conversion error (Key Setting Error) |
|  |  | A serious error occurred during an attempt to update the encryption key. |
|  |  | - USB Flash, other data, corrupted <br> - Communication error caused by electrostatic noise <br> - Controller board defective |
|  |  | Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC858-01 | A | Data encryption conversion error (HDD Key Setting Error) |
|  |  | A serious error occurred during an attempt to update the encryption key. |
|  |  | - USB Flash, other data, corrupted <br> - Communication error caused by electrostatic noise <br> - Controller board defective |
|  |  | Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC858- } \\ & 02 \end{aligned}$ | A | Data encryption conversion error (NVRAM Read/Write Error) |
|  |  | A serious error occurred after data conversion during an attempt to update the encryption key. |
|  |  | NVRAM defective |
|  |  | Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| 30 | A $858-$ | Data encryption conversion error (NVRAM Before Replace Error) |
|  |  | A serious error occurred after data conversion during an attempt to update the encryption <br> key. |
|  |  | Software error such as conversion parameters being invalid. |
|  |  | Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC858- } \\ & 31 \end{aligned}$ | A | Data encryption conversion error (Other Error) |
|  |  | A serious error occurred after data conversion during an attempt to update the encryption key. |
|  |  | Controller board defective |
|  |  | Replace the controller board. |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC859- } \\ & 00 \end{aligned}$ | B | Data encryption conversion HDD conversion error |
|  |  | When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on. |
|  |  | - HDD conversion was set with the data encryption key update function, but the HDD was removed. <br> - Machine lost power during data encryption key update <br> - Electrostatic noise, or an HDD error occurred, during data encryption key update, and data was not encrypted. |
|  |  | - Check the HDD connection. <br> - Format the HDD. <br> - If there is a problem with the HDD, it has to be replaced. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC859-$01$ | B | Data encryption conversion HDD conversion error (HDD check error) |
|  |  | When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on. |
|  |  | - HDD conversion was set with the data encryption key update function, but the HDD was removed. <br> - Machine lost power during data encryption key update <br> - Electrostatic noise, or an HDD error occurred, during data encryption key update, and data was not encrypted. |
|  |  | - Check the HDD connection. <br> - Format the HDD. <br> - If there is a problem with the HDD, it has to be replaced. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC859-$02$ | B | Data encryption conversion HDD conversion error (Power failure during conversion) |
|  |  | When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on. <br> Details: <br> NVRAM/HDD conversion is incomplete. |
|  |  | Power failure occurred during encryption key update. |
|  |  | None <br> The display after restart instructs the user to format the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC859- } \\ & 10 \end{aligned}$ | B | Data encryption conversion HDD conversion error (Data read/write command error) |
|  |  | When the data encryption key was updated, HDD data was converted, but not correctly. Image displayed at conversion only (this SC is not displayed), but SC is displayed after machine is cycled off/on. <br> Details: <br> Abnormal DMAC return value has been received two or more times (DMAC timeout, serial communication error etc.) |
|  |  | HDD was not successfully converted during encryption key update due to HDD errors or cable noises. |
|  |  | - Check the HDD connection. <br> - Format the HDD. <br> - If there is a problem with the HDD, it has to be replaced. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC860- } \\ & 00 \end{aligned}$ | B | HDD startup error at main power on (HDD error) |
|  |  | - The HDD is connected but the driver detected the following errors. <br> - SS_NOT_READY:/* (-2)HDD does not become READY*/ <br> - SS_BAD_LABEL:/* (-4)Wrong partition type*/ <br> - SS_READ_ERROR:/* (-5)Error occurred while reading or checking the label*/ <br> - SS_WRITE_ERROR:/* (-6)Error occurred while writing or checking the label*/ <br> - SS_FS_ERROR:/* (-7)Failed to repair the filesystem*/ <br> - SS_MOUNT_ERROR:/* (-8)Failed to mount the filesystem*/ <br> - SS_COMMAND_ERROR:/* (-9)Drive not responding to command*/ <br> - SS_KERNEL_ERROR:/* (-10)Internal kernel error*/ <br> - SS_SIZE_ERROR:/* (-11)Drive size too small*/ <br> - SS_NO_PARTITION:/* (-12)The specified partition does not exist*/ <br> - SS_NO_FILE:/* (-13)Device file does not exist*/ <br> - Attempted to acquire HDD status through the driver but there has been no response for 30 seconds or more. |
|  |  | - Unformatted HDD <br> - Label data corrupted <br> - HDD defective |
|  |  | Format the HDD through SP mode. |
| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| SC862-00 | D | Number of the defective sector reaches the maximum count |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | 101 defective sectors are generated at the image storage area in the HDD. |
|  |  | SC863 occurs during the HDD reading and defective sectors are registered up to 101. |
|  |  | - Format the HDD with SPSP5-832. <br> - Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC863- } \\ & 01 \end{aligned}$ | D | HDD data read failure |
|  |  | The data written to the HDD cannot be read normally. |
|  |  | Bad sectors were generated during operation. <br> (An error occurred in an area that does not belong to a partition, such as the disk label area.) |
|  |  | Guide for when to replace the HDD <br> 1. When SC863 has occurred ten times or more <br> - The interval is short. <br> - Repeatedly occurs in the same situation (At power-on, etc.). <br> - Startup takes a long time when the main power is turned on. <br> 2. It takes a long time after main power on for the operation panel to become ready. HDD access may be consuming time. Normal HDD access time after main power on is about 5 seconds. If the machine is not waiting for the engine to be ready and it still takes 20 to 30 seconds or more, the HDD may be the cause. If there is a problem with the HDD, HDD-related SCs such as SC860 and SC863 will occur frequently. Print the SC log data and check them. |


| SC <br> No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| -02 to |  |  |
| 23 |  |  |


| SC <br> No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | HDD, HDD-related SCs such as SC860 and SC863 will occur frequently. Print the SC <br> log data and check them. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC864- <br> 01 | D | HDD data CRC error |
|  |  | During HDD operation, the HDD cannot respond to a CRC error query. Data transfer did not execute normally while data was being written to the HDD. |
|  |  | Bad sectors were generated during operation. <br> (An error occurred in an area that does not belong to a partition, such as the disk label area.) |
|  |  | - Format the HDD. <br> - Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \hline \text { SC864 } \\ & -02 \text { to } \\ & 23 \end{aligned}$ | D | HDD data CRC error |
|  |  | During HDD operation, the HDD cannot respond to a CRC error query. Data transfer did not execute normally while data was being written to the HDD. |
|  |  | Bad sectors were generated during operation. <br> (An error occurred in partition "a" (SC864-02) to partition " v " (SC864-23)). |
|  |  | - Format the HDD. <br> - Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC865- <br> 00 | D | HD access error |
|  |  | During HDD operation, the HDD returned an error. |
|  |  | The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC error). |
|  |  | Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC865- | D | HDD access error |
| 01 |  | During HDD operation, the HDD returned an error. |
|  | The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC <br> error). <br> (An error occurred in an area that does not belong to a partition, such as the disk label <br> area.) |  |
|  | Replace the HDD. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{SC} 865 \\ & -02 \text { to } \\ & 23 \end{aligned}$ | D | HDD access error |
|  |  | During HDD operation, the HDD returned an error. |
|  |  | The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC error). <br> (An error occurred in partition "a" (SC865-02) to partition " v " (SC865-23)). |
|  |  | Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC865-50 | D | HDD time-out error |
|  |  | The machine does not detect a reply from the HDD during the HDD operation. |
|  |  | The HDD does not respond to the read/ write command from the machine. |
|  |  | - Check the harness connections between the controller board and HDD. <br> - Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC865-51 | D | HDD time-out error |
|  |  | The machine does not detect a reply from the HDD during the HDD operation. <br> (An error occurred in an area that does not belong to a partition.) |
|  |  | The HDD does not respond to the read/ write command from the machine. |
|  |  | - Check the harness connections between the controller board and HDD. <br> - Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC865$-52 \text { to } 73$ | D | HDD time-out error |
|  |  | The machine does not detect a reply from the HDD during the HDD operation. (An error occurred in partition "a" (SC865-52) to partition " v " (SC865-73)). |
|  |  | The HDD does not respond to the read/ write command from the machine. |
|  |  | - Check the harness connections between the controller board and HDD. <br> - Replace the HDD. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC866-00 | B | SD card authentication error |
|  |  | A license error of an application that is started from the SD card was detected. |
|  |  | Invalid program data is stored on the SD card. |
|  | Store a valid program data on the SD card. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC867-00 | C | SD card removed |
|  |  | The SD card was removed while the machine is on. |
|  |  | An application SD card has been removed from the slot (mount point of $/ \mathrm{mnt} / \mathrm{sd} 0$ ). |
|  | Turn the main power off/on. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC867-01 | C | SD card removed |
|  |  | The SD card was removed while the machine is on. |
|  |  | An application SD card has been removed from the slot (mount point of $/ \mathrm{mnt} / \mathrm{sd1}$ ). |
|  | Turn the main power off/on. |  |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC867-02 | C | SD card removed |
|  |  | The SD card was removed while the machine is on. |
|  |  | An application SD card has been removed from the slot (mount point of $/ \mathrm{mnt} / \mathrm{sd} 2$ ). |
|  |  | Turn the main power OFF/ON. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC868-00 | D | SD card access error |
|  |  | The SD controller returned an error during operation. (An error occurred at the mount point of $/ \mathrm{mnt} / \mathrm{sd} 0$ ) |
|  |  | - SD card defective <br> - SD controller defective |
|  |  | - Reformat the SD card (using the "SD Formatter" made by Panasonic).* <br> - Check the SD card insertion status. <br> - Replace the SD card. <br> - Replace the controller board. |

* 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. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC86801 | D | SD card access error |
|  |  | The SD controller returned an error during operation. (An error occurred at the mount point of $/ \mathrm{mnt} / \mathrm{sd} 1$ ) |
|  |  | - SD card defective <br> - SD controller defective |
|  |  | SD card that starts an application <br> - Turn the main power off and check the SD card insertion status. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | - If no problem is found, insert the SD card and turn the main power on. <br> - If an error occurs, replace the SD card. <br> - SD card for users <br> - In case of a file system error, reformat the SD card (using the "SD Formatter" made by Panasonic).* <br> - In case of a device access error, turn the main power off and check the SD card insertion status. <br> - If no problem is found, insert the SD card and turn the main power on. <br> - If an error occurs, use another SD card. <br> - If the error persists even after replacing the SD card, replace the controller board. |

* 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. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC868- <br> 02 | D | SD card access error |
|  |  | The SD controller returned an error during operation. <br> (An error occurred at the mount point of $/ \mathrm{mnt} / \mathrm{sd} 1$ ) |
|  |  | - SD card defective <br> - SD controller defective |
|  |  | SD card that starts an application <br> - Turn the main power off and check the SD card insertion status. <br> - If no problem is found, insert the SD card and turn the main power on. <br> - If an error occurs, replace the SD card. <br> - SD card for users <br> - In case of a file system error, reformat the SD card (using the "SD Formatter" made by Panasonic).* <br> - In case of a device access error, turn the main power off and check the SD card insertion status. <br> - If no problem is found, insert the SD card and turn the main power on. <br> - If an error occurs, use another SD card. <br> If the error persists even after replacing the SD card, replace the controller board. |

* 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.

| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC869- <br> $* *$ |  | Malfunction of the proximity sensor is detected |
| SC869- <br> 01 | C | Continuously detecting malfunction |
|  |  | The proximity sensor keeps in a detection state and accumulated time exceeds 24 hours. |
| 700 |  |  |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
|  |  | The proximity sensor is disabled and is in the detection state at all times. |
| $\begin{aligned} & \text { SC869- } \\ & 02 \end{aligned}$ | C | Continuously non-detecting malfunction |
|  |  | In the non-detection state, the following operations are detected 20 times continuously. <br> - Pressing "energy saver" key or touching the operation panel <br> - Opening/closing the plate cover or ADF <br> - Setting the original <br> - Opening the front cover <br> - Opening the paper feed tray |
|  |  | The proximity sensor is disabled and is in the non-detection state at all times. |
|  |  | 1. Go to the SP5-102-203 (input check SP for the proximity sensor). <br> 2. Cover the sensor with 10 sheets of plain paper, and then execute $S P$ to confirm if it becomes " 0 ". (Do not place your hand near the sensor even over the papers when covering the sensor) <br> 3. Remove the papers from the sensor and confirm if it becomes " 1 ". <br> 4. If there is no issue after the confirmation in step 2 and 3 , confirm that there are no possible factors around the machine that may cause the temperature change such as heater or fan. (Deal with the issue as necessary) <br> 5. Replace the proximity sensors and proximity sensor board if the abnormal value is detected after the confirmation in step 2 and 3. <br> 6. Turn on the main power on and perform step 1, 2, and 3 again. <br> 7. If SC is not solved, turn the main power off and replace the harness which connects proximity sensors and proximity sensor board. <br> 8. If SC is still not solved, there is a possibility that the other parts of the machine such as the connector at the controller side or the harness between proximity sensor board and IPU are broken. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC870- <br> 00 | B | Address Book data error (Anytime: Address Book Error.) |
| SC870- <br> 01 | B | Address Book data error (On startup: Media required for storing the Address Book is <br> missing.) |
| SC870- <br> 02 | B | Address Book data error (On startup: encryption is configured but the module required for <br> encryption (DESS) is missing.) |
| SC870- <br> 03 | B | Address Book data error (Initialization: Failed to generate a file to store internal Address <br> Book.) |
| SC870- <br> 04 | B | Address Book data error (Initialization: Failed to generate a file to store delivery sender.) |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC870- <br> 05 | B | Address Book data error (Initialization: Failed to generate a file to store delivery destination.) |
| $\begin{aligned} & \text { SC870- } \\ & 06 \end{aligned}$ | B | Address Book data error (Initialization: Failed to generate a file to store information required for LDAP search.) |
| $\begin{aligned} & \text { SC870- } \\ & 07 \end{aligned}$ | B | Address Book data error (Initialization: Failed to initialize entries required for machine operation.) |
| $\begin{aligned} & \text { SC870- } \\ & 08 \end{aligned}$ | B | Address Book data error (Machine configuration: HDD is present but the space for storing the Address Book is unusable.) |
| SC870- <br> 09 | B | Address Book data error (Machine configuration: Inconsistency in the NVRAM area used for storing settings required for Address Book configuration.) |
| SC870- <br> 10 | B | Address Book data error (Machine configuration: Cannot make a directory for storing the Address Book in the SD/USB FlashROM.) |
| $\begin{aligned} & \text { SC870- } \\ & 11 \end{aligned}$ | B | Address Book data error(On startup: Inconsistency in Address Book entry number.) |
| $\begin{aligned} & \text { SC870- } \\ & 20 \end{aligned}$ | B | Address Book data error (File I/O: Failed to initialize file.) |
| $\begin{aligned} & \text { SC870- } \\ & 21 \end{aligned}$ | B | Address Book data error (File I/O: Failed to generate file.) |
| $\begin{aligned} & \text { SC870- } \\ & 22 \end{aligned}$ | B | Address Book data error (File I/O: Failed to open file.) |
| $\begin{aligned} & \text { SC870- } \\ & 23 \end{aligned}$ | B | Address Book data error (File I/O: Failed to write to file.) |
| $\begin{aligned} & \text { SC870- } \\ & 24 \end{aligned}$ | B | Address Book data error (File I/O: Failed to read file.) |
| $\begin{aligned} & \mathrm{SC} 870- \\ & 25 \end{aligned}$ | B | Address Book data error (File I/O: Failed to check file size.) |
| $\begin{aligned} & \text { SC870- } \\ & 26 \end{aligned}$ | B | Address Book data error (File I/O: Failed to delete data.) |
| $\begin{aligned} & \text { SC870- } \\ & 27 \end{aligned}$ | B | Address Book data error (File I/O: Failed to add data.) |
| $\begin{aligned} & \text { SC870- } \\ & 30 \end{aligned}$ | B | Address Book data error (Search: Failed to obtain data from cache when searching in the machine Address Book. delivery destination/sender.) |
| $\begin{aligned} & \text { SC870- } \\ & 31 \end{aligned}$ | 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 WSScanner Address Book.) |
| SC870- | B | Address Book data error (Cache: failed to obtain data from cache.) |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :---: | :---: | :---: | :---: |
| 41 |  |  |  |
| SC870- $50$ | B | Address Book data error (On startup: Detected abnormality of the Address Book encryption status.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 51 \end{aligned}$ | B | Address Book data error (Encryption settings: Failed to create directory required for conversion between plaintext and encrypted text.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 52 \end{aligned}$ | B | Address Book data error (Encryption settings: Failed to convert from plaintext to encrypted text.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 53 \end{aligned}$ | B | Address Book data error (Encryption settings: Failed to convert from encrypted text to plaintext.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 54 \end{aligned}$ | B | Address Book data error (Encryption settings: Detected data inconsistency when reading the encrypted Address Book.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 55 \end{aligned}$ | B | Address Book data error (Encryption settings: Failed to delete file when changing encryption setting.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 56 \end{aligned}$ | 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.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 57 \end{aligned}$ | B | Address Book data error (Encryption settings: Failed to move a file during an attempt to change the encryption setting.) |  |
| $\begin{aligned} & \text { SC870- } \\ & 58 \end{aligned}$ | 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- $60$ | B | Address Book data error (Unable to obtain the on/off setting for administrator authentication ( 06 A and later).) |  |
|  |  | When an error related to the Address Book is detected during startup or operation. |  |
|  |  | - Software bug <br> - Inconsistency of Address Book source location (machine/delivery server/LDAP server) <br> - Inconsistency of Address Book encryption setting or encryption key (NVRAM or HDD was replaced individually without formatting the Address Book) <br> - Address Book storage device (SD/HDD) was temporarily removed or hardware configuration does not match the application configuration. <br> - Address Book data corruption was detected. |  |
|  |  | - Check the HDD connection. <br> - Initialize all UCS settings and address/authentication information (SP5-846-046). <br> - Initialize the Address Book partition (SP5-832-006). |  |
| No. |  | Type $\quad$ Error Name/Error Condition/Major Cause/Solution |  |
| SC871-01 |  | D | FCU error |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :--- |
|  | An error occurred when FCS detects FCU defective. <br>  | $\bullet$ Time-out error  <br>  $\bullet$ Abnormal Parameter <br>  $\bullet$ Turn the main power OFF/ON. <br>   $\bullet$ <br>   Update the firmware if more recent firmware was released. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC872-$00$ | B | HDD mail reception error |
|  |  | An error was detected on the HDD immediately after the machine was turned on. |
|  |  | - HDD defective <br> - Power was turned off while the machine used the HDD. |
|  |  | - Format the HDD (SP5-832-007). <br> - Replace the HDD. <br> When you do the above, the following information will be initialized. <br> - Partly received partial mail messages. <br> - Already-read statuses of POP3-received messages (All messages on the mail server are handled as new messages). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC873-00 | B | HDD mail reception error |
|  |  | An error was detected on the HDD immediately after the machine was turned on. |
|  |  | - HDD defective <br> - Power was turned of while the machine used the HDD. |
|  |  | - Format the HDD (SP5-832-007). <br> - Replace the HDD. <br> When you do the above, the following information will be initialized. <br> - Sender's mail text <br> - Default sender name/password (SMB/FTP/NCP) <br> - Administrator mail address <br> - Scanner delivery history |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC874-05 | D | Delete all error (Delete data area) : Read error |
| SC874-06 | D | Delete all error (Delete data area) : Write error |
| SC874-09 | D | Delete all error (Delete data area) : No response from HDD |
| SC874-10 | D | Delete all error (Delete data area) : Error in Kernel |
| SC874-12 | D | Delete all error (Delete data area) : No designated partition |


| No. | Type | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC874-13 | D | Delete all error (Delete data area) : No device file |
| 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 |
| $\begin{aligned} & \mathrm{SC} 874-61 \\ & \text { to }-65 \end{aligned}$ | 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 |
| SC874-68 | D | Delete all error (Delete data area) : HDD format failure (Normal) |
| SC874-69 | D | Delete all error (Delete data area) : HDD format failure (Abnormal) |
| 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 HDD or NVRAM. |
|  |  | - Error detected in HDD data delete program <br> - Error detected in NVRAM data delete program <br> - The "Delete All" option was not set |
|  |  | - 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 hard disk, the error will persist even after trying the above.) <br> - If the "Delete All" option is not installed when this error occurs, install the option. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC875- <br> 01 | D | Delete all error (HDD erasure) (hddchack -i error) |
| SC875- <br> 02 | D | Delete all error (HDD erasure) (Data deletion failure) |
|  | An error was detected before HDD/data erasure starts. (Failed to erase data/failed to <br> logically format HDD) |  |
|  | $\bullet$ <br> $\bullet$ <br> $\bullet$ | Turn the main power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC876- | D | Log Data Error 1 |
| 01 |  | An error was detected in the handling of the log data at power on or during machine |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
|  |  | operation. |
|  |  | Damaged log data file |
|  |  | Initialize the HDD (SP5-832-004). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC876-$02$ | D | Log Data Error 2 |
|  |  | An error was detected in the handling of the log data at power on or during machine operation. |
|  |  | Log encryption is enabled but encryption module is not installed. |
|  |  | - Replace or set again the encryption module. <br> - Disable the log encryption setting. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC87603 | D | Log Data Error 3 |
|  |  | An error was detected in the handling of the log data at power on or during machine operation. |
|  |  | Inconsistency of encryption key between NV-RAM and HDD. |
|  |  | - Disable the log encryption setting. <br> - Initialize LCS memory (SP5801-019). <br> - Initialize the HDD (SP5-832-004). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC876-$04$ | D | Log Data Error 4 |
|  |  | An error was detected in the handling of the log data at power on or during machine operation. |
|  |  | - Log encryption key is disabled but the $\log$ data file is encrypted. (NVRAM data corruption) <br> - Log encryption key is enabled but the log data file is not encrypted. (NVRAM data corruption) |
|  |  | Initialize the HDD (SP5-832-004). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC876- | D | Log Data Error 5 |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |  |
| :---: | :---: | :--- | :--- |
|  |  | $\bullet$ | Attach the original NV-RAM. |
|  |  | $\bullet$ | Attach the original HDD. |
|  |  | $\bullet$ | With the configuration that caused the SC, initialize the HDD (SP5-832-004). |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC876- | D | Log Data Error 99 |
|  |  | An error was detected in the handling of the log data at power on or during machine <br> operation. |
|  |  | Other causes |
|  |  | - |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC878-00 | D | TPM authentication error |
|  |  | TPM electronic recognition failure |
|  |  | - Update of system module attempted without correct update path <br> - USB flash memory not operating correctly |
|  |  | Replace the controller board. |

## Trusted Platform Module

- In computing, Trusted Platform Module (TPM) is both the name of a published specification detailing a secure crypto processor that can store cryptographic keys that protect information, as well as the general name of implementations of that specification, often called the "TPM chip" or "TPM Security Device" (as designated in certain Dell BIOS settings).

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :--- |
| SC878-01 | D | USB flash error |
|  |  | There is a problem in the file system of the USB flash memory. |
|  |  | USB Flash system files corrupted |
|  | Replace the controller board. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC878-02 | D | TPM error |
|  |  | An error occurred in either TPM or the TPM driver |
|  |  | TPM not operating correctly |
|  | Replace the controller board. |  |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC878-03 | D | TCSD dffof |
|  |  | An error occurred in the TPM software stack. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
|  |  | $\bullet$ |
|  |  | TPM, TPM software cannot start |
|  |  | A file required by TPM is missing |
|  |  | Replace the controller board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC880-00 | D | MLB error |
|  |  | Reply to MLB access was not returned within a specified time. |
|  |  | MLB defective |
|  |  | - Replace the MLB. <br> - Remove the MLB. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC881- } \\ & 01 \end{aligned}$ | D | Management area error |
|  |  | - A problem was detected in the software <br> - This error may occur even when an IC card option is not installed. |
|  |  | - This is caused by accumulation of abnormal authentication information in the software. (User operation will not directly cause it.) <br> - At login <br> Example: When a job is sent to the printer/when logged on from the operation panel/when logged on from a Web browser |
|  |  | Turn the main power off/on. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC899-00 | D | Software performance error (signal reception end) |
|  |  | Unknown software error occurred. |
|  |  | Occurs when an internal program behaves abnormally. |
|  |  | In case of a hardware defect <br> - Replace the hardware. <br> In case of a software error <br> - Turn the main power off/on. <br> - Try updating the firmware. |

## SC Tables: SC9xx (Others)

| SC900-00 to SC995-04 |  |  |
| :---: | :---: | :---: |
| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| $\begin{aligned} & \text { SC940- } \\ & 01 \end{aligned}$ | C | 1st Paper Feed Tray Pickup Solenoid Non-Drive Error |
| $\begin{aligned} & \text { SC940- } \\ & 02 \end{aligned}$ | C | 2nd Paper Feed Tray Pickup Solenoid Non-Drive Error |
| $\begin{aligned} & \text { SC940- } \\ & 03 \end{aligned}$ | C | Bypass Pickup Solenoid Non-Drive Error |
| $\begin{aligned} & \text { SC940- } \\ & 04 \end{aligned}$ | C | Paper Exit Switching Solenoid Non-Drive Error |
|  |  | When the solenoid is not moving, the registration value of the failure detection is " 0 " three times consecutively. |
|  |  | - Connector disconnected <br> - Harness broken <br> - Solenoid defective SC940-01: 1st Paper Feed Tray Pickup Solenoid SC940-02: 2nd Paper Feed Tray Pickup Solenoid SC940-03: Bypass Pickup Solenoid SC940-04: Paper Exit Switching Solenoid <br> - Driver defective (which drive the solenoid) |
|  |  | - Turn the main power off/on. <br> - Reconnect the connector on the BCU. <br> - Reconnect the relay connector and electronic connector. <br> - Replace the solenoid. <br> - Replace the BCU. <br> - Replace the harness. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC940- } \\ & 50 \end{aligned}$ | C | Key Counter Error |
|  |  | When the key counter is ON , the registration value of the key counter detection signal 2 is " 1 " three times consecutively. |
|  |  | - Driver defective (which drive the key counter) (open) |
|  |  | - Turn the main power off/on. <br> - Replace the BCU. |

## 6.Troubleshooting

| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC940- <br> 51 | C | 1st Paper Feed Tray Pickup Solenoid Drive Error |
| SC940- <br> 52 | C | 2nd Paper Feed Tray Pickup Solenoid Drive Error |
| SC940- <br> 53 | C | Bypass Pickup Solenoid Drive Error |
| SC940- <br> 54 | C | Paper Exit Switching Solenoid Drive Error |
|  |  | When the solenoid is moving, the registration value of the failure detection is "1" three <br> times consecutively. |
|  | •Driver defective (which drive the solenoid) | Turn the main power off/on. <br> $\bullet$ <br> Replace the BCU. <br> Replace the harness. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC990-00 | D | Software operation error |
|  |  | Software attempted an unexpected operation. |
|  |  | - Parameter error <br> - Internal parameter error <br> - Insufficient work memory <br> - Operation error caused by abnormalities that are normally undetectable. |
|  |  | - Turn the main power off/on. <br> - Reinstall the software of the controller and BCU board. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| SC991-00 | C | Recoverable software operation error |
|  |  | Software attempted an unexpected operation. <br> SC991 covers recoverable errors as opposed to SC990. |
|  |  | - Parameter error <br> - Internal parameter error <br> - Insufficient work memory <br> - Operation error caused by abnormalities that are normally undetectable. |
|  |  | Logging only |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :--- | :--- |
| SC995- | D | CPM setting error 1 |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| 01 |  | Comparison of machine serial number (11 digits) and machine identification code. Details: <br> - Machine serial number cannot be identified because of BICU replacement or malfunctioning. <br> - Machine serial number cannot be identified because of NV-RAM replacement |
|  |  | Machine serial number (11 digits) or machine identification code does not match. |
|  |  | - Enter the machine serial number using SP5-811, and then turn the power on/off. <br> - Attach the NV-RAM that was installed previously. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC995- | D | CPM setting error 2 |$\quad$| 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. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SC995- } \\ & 03 \end{aligned}$ | D | CPM setting error 3 |
|  |  | Comparison of machine serial number (11 digits) and machine identification code. <br> Details: <br> 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 compatible controller. |


| SC No. | Level | Error Name/Error Condition/Major Cause/Solution |
| :--- | :--- | :--- |
| SC995- | 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 <br> manual. |  |

## When SC549 Is Displayed

Troubleshooting Flowchart


Fusing Shield Check
Procedure 1: Operation check for the lower side of the shield detection feeler

1. Place the fusing unit on a flat place and tilt it towards the drawer connector [A].

2. Move the shield drive gear with your hands to put the upper surface of the feeler [A] in a horizontal position.

3. Keep your fingers off the shield drive gear.
4. Make sure that the shield detection feeler [A] moves down to the lowest point by its own weight.


- The feeler moves smoothly: OK
- The feeler does not move / stops during moving / moves but slowly: NG


## Procedure 2: Operation check for the upper side of the shield detection feeler

1. Place the fusing unit on a flat place with the drawer connector $[\mathrm{A}]$ turned up and the handle $[\mathrm{B}]$ touching a flat surface.

2. Move the shield drive gear with your hands to put the upper surface of the feeler [A] in a vertical position.

3. Keep your fingers off of the shield drive gear.
4. Make sure that the shield detection feeler [A] moves up to the highest point by its own weight.


- The feeler moves smoothly: OK
- The feeler does not move / stops during moving / moves but slowly: NG


## Results

- Both Procedure 1 and 2 are OK: No problem.
- Either Procedure 1 or 2 is NG: The mechanism is blocked.
- The shield detection feeler never moves while moving the shield drive gear by hands or fingers: Locked.


## Solution

By tilting the fusing unit, you can check whether the feeler does not move smoothly due to burrs on a part in the unit, and remove the burrs.

## 6.Troubleshooting

1. Tilt the fusing unit [A] approx. $30^{\circ}$.

2. Put the fusing unit back to the horizontal position.
3. Perform the checking procedures (Fusing Shield Check).

There is no blockage: Resolved
There is some blockage: Not resolved
4. Tilt the fusing unit [A] approx. $30^{\circ}$ in the opposite direction from step 1 .


There is no blockage: Resolved
There is some blockage: Not resolved

## Jam Detection

## Paper Jam Display

When a jam occurs, the location is displayed on the operation panel.


SP7-507 shows the paper jam history.
: : $4=11$
-・ト 7



- CODE: Indicates the jam code.
- SIZE: Indicates the paper size code.
- TOTAL: Indicates the total counter (SP7-502-001).
- DATE: indicates the date when the jam occurred.


## H1

- The 10 latest printer jams are displayed.
- Initial jams are not recorded.


## Jam Codes and Display Codes

## 판

- Jam code: Shows the cause of a jam. Appears in the log data.
- Position code: Shows the location of a jam. Appears on the operation panel.

These are lists of jam codes for the main machine and peripheral devices. Please note:

- 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.

Main Machine

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display <br> Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 001 | Transport Sensor 1 |  |  | - | A |
| 001 | Transport Sensor 2 |  |  | - | A |
| 001 | Registration Sensor |  |  | $\pm$ | B |
| 001 | Fusing Entrance Sensor |  |  | $\pm$ | C |
| 001 | Fusing Exit Sensor |  |  | - | C |
| 001 | Paper Exit Sensor |  |  | $\pm$ | C |
| 001 | Reverse Sensor |  |  | $\underline{+}$ | C |
| 001 | Duplex Exit Sensor |  |  | - | Z |
| 001 | Duplex Entrance Sensor |  |  | $\pm$ | Z |
| 003 | Paper not fed from tray 1 | $\pm$ |  |  | A1 |
| 004 | Paper not fed from tray 2 | 4 |  |  | A2 |
| 008 | Paper not fed from bypass tray | $\underline{1}$ |  |  | A |
| 009 | Paper not transported to duplex unit | $+$ |  |  | Z |
| 010 | Disappearance of the detection Timing <br> Only remaining paper position information displaye |  |  |  |  |
| 011 | Transport Sensor 1 | $+$ |  |  | A |
| 012 | Transport Sensor 2 | $\pm$ |  |  | A |
| 017 | Registration Sensor | $\pm$ |  |  | A |
| 018 | Fusing Entrance Sensor | $\pm$ |  |  | B |
| 019 | Fusing Exit Sensor | 4 |  |  | C |
| 020 | Paper Exit Sensor | $\underline{+}$ |  |  | C |
| 051 | Transport Sensor 1 (when paper not fed from Tray 1) |  | + |  | A |
| 052 | Transport Sensor 2 (when paper not fed from Tray 2) |  | $\pm$ |  | A |
| 057 | Registration Sensor |  | + |  | B |
| 060 | Paper Exit Sensor |  | + |  | C |
| 024 | Reverse Sensor | $\pm$ |  |  | C |
| 064 | Reverse Sensor |  | $\pm$ |  | C |
| 025 | Duplex Exit Sensor | $\pm$ |  |  | Z |
| 025 | Duplex Exit Sensor \& No Paper at Duplex Entrance Sensor | $\pm$ |  |  | Z |
| 065 | Duplex Exit Sensor |  | $+$ |  | Z |
| 027 | Duplex Entrance Sensor | $\pm$ |  |  | C |
| 027 | Duplex Entrance Sensor \& No Paper at Reverse | 4 |  |  | Z |


| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display <br> Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Sensor |  |  |  |  |
| 067 | Duplex Entrance Sensor |  |  |  | Z |
| 021 | Relay Exit Sensor |  |  |  | $D$ |
| 022 | Relay Transport Sensor |  |  |  | D |
| 061 | Relay Exit Sensor |  |  |  |  |
| 062 | Relay Transport Sensor |  | $D$ |  |  |

Paper Feed Unit PB3210/PB3220

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display <br> Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 005 | Paper not fed from tray 3 |  |  | Y1 |  |
| 013 | Transport Sensor 3 | Transport Sensor 3 (when paper not fed from <br> Tray 3) |  |  | Y |
| 053 | Transport Sensor 3 |  |  | Y |  |
| 001 | Paper not fed from tray 4 |  |  | Y |  |
| 006 | Transport Sensor 4 |  |  | Y |  |
| 014 | Transport Sensor 4 (when paper not fed from <br> Tray 4) |  |  | Y |  |
| 054 | Transport Sensor 4 |  |  |  |  |
| 001 |  |  |  |  |  |

Paper Feed Unit PB3150

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display <br> Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 005 | Paper not fed from tray 3 |  |  |  | Y1 |
| 013 | Transport Sensor 3 |  |  |  | Y |
| 053 | Transport Sensor 3 (when paper not fed from <br> Tray 3) |  |  | Y |  |
| 001 | Transport Sensor 3 |  |  |  | Y |

## LCIT RT3030

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display <br> Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 007 | Paper not fed from LCT |  |  |  | U1 |
| 015 | LCT Transport Sensor | UCT Transport Sensor (when paper not fed from <br> LCT) |  |  | U |
| 055 |  |  |  |  |  |


| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display <br> Code |
| :--- | :--- | :---: | :---: | :---: | :---: |
| 001 | LCT Transport Sensor |  |  |  | U |

## ARDF DF3090

| Cause Code | Cause of Jam | Late Jam | Lag Jam | Stay Jam | Display Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 014 | Skew Correction Sensor |  |  |  | P |
| 064 | Skew Correction Sensor |  |  |  |  |
| 016 | Registration Sensor |  |  | P |  |
| 066 | Registration Sensor |  |  | P |  |
| 017 | Exit Sensor |  |  | P |  |
| 067 | Exit Sensor |  |  | P |  |
| 239 | Misfeed: Original Removed |  |  |  |  |

SPDF DF3100

| Cause Code | Cause of Jam | Late Jam | Lag Jam | Stay Jam | Display Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 013 | Separation Sensor |  |  | P |  |
| 063 | Separation Sensor |  |  | P |  |
| 014 | Skew Correction Sensor |  |  | P |  |
| 064 | Skew Correction Sensor |  |  | P |  |
| 015 | Interval Sensor |  |  | P |  |
| 065 | Interval Sensor |  |  | P |  |
| 016 | Registration Sensor |  |  | P |  |
| 066 | Registration Sensor |  |  | P |  |
| 017 | Original Exit Sensor |  |  | P |  |
| 067 | Original Exit Sensor |  |  |  |  |
| 239 | Misfeed: Original Removed |  |  |  |  |
| 001 | Initial jam |  |  |  |  |
| 001 | Overload jam |  |  |  |  |

Booklet Finisher SR3240

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 001 | Entrance Sensor |  |  |  | R1-R5 |
| 001 | Horizontal Transport Sensor |  |  |  | R1-R5 |
| 001 | Switchback Transport Sensor |  |  |  | R1-R5 |
| 001 | Proof Exit Sensor |  |  | 4 | R1-R5 |
| 001 | Shift Tray Exit Sensor |  |  |  | R1-R5 |
| 001 | Booklet Exit Sensor 1 |  |  |  | R6-R11 |


| Cause Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 001 | Transport Path Paper Sensor |  |  | - | R1-R5 |
| 001 | Booklet Upper Transport Path Stack Sensor |  |  | $\pm$ | R6-R11 |
| 001 | Booklet Lower Transport Path Stack Sensor |  |  | $\pm$ | R6-R11 |
| 150 | Entrance Sensor | $\pm$ |  |  | R1-R5 |
| 151 | Entrance Sensor |  | - |  | R1-R5 |
| 152 | Horizontal Transport Sensor | $\pm$ |  |  | R1-R5 |
| 153 | Horizontal Transport Sensor |  | - |  | R1-R5 |
| 154 | Switchback Transport Sensor | - |  |  | R1-R5 |
| 155 | Switchback Transport Sensor |  | - |  | R1-R5 |
| 156 | Jam in proof exit unit | + |  |  | R1-R5 |
| 157 | Jam in proof exit unit |  | - |  | R1-R5 |
| 158 | Jam in shift exit unit | $+$ |  |  | R1-R5 |
| 159 | Jam in shift exit unit |  | - |  | R1-R5 |
| 160 | Jam in Booklet exit | + |  |  | R6-R11 |
| 161 | Jam in Booklet exit |  | 4 |  | R6-R11 |
| 162 | Jam in Entrance Transport Motor | 4 | 4 |  | R1-R5 |
| 163 | Jam in Horizontal Transport Motor | $\underline{+1}$ | - |  | R1-R5 |
| 164 | Jam in Pre-stack Transport Motor | - | - |  | R1-R5 |
| 165 | Jam in Relay Transport Motor | + | $+$ |  | R1-R5 |
| 166 | Jam in Upper Tray Exit Motor | $+$ | - |  | R1-R5 |
| 167 | Jam in Trailing Edge Pressure Plate Motor | $\pm$ | - |  | R1-R5 |
| 168 | Jam in Paper Exit Gate Motor | $\pm$ | - |  | R1-R5 |
| 169 | Jam in Punch Drive Motor | $\pm$ | 4 |  | R1-R5 |
| 170 | Jam in Punch Unit Movement Motor | 4 | - |  | R1-R5 |
| 171 | Jam in Punch Registration Motor | $\pm$ | - |  | R1-R5 |
| 172 | Jam in Lower Junction Gate Motor | $\pm$ | - |  | R1-R5 |
| 173 | Jam in Jogger Motor | - | - |  | R1-R5 |
| 174 | Jam in Positioning Roller Motor | $\pm$ | - |  | R1-R5 |
| 175 | Jam in Feed-out Belt Motor | $\pm$ | 4 |  | R1-R5 |
| 176 | Jam in Corner Stapler Movement Motor | $\pm$ | - |  | R1-R5 |
| 177 | Jam in Corner Stapler Motor | $\pm$ | - |  | R1-R5 |
| 178 | Jam in Booklet Jogger Motor | $\pm$ | $+$ |  | R6-R11 |
| 179 | Jam in Booklet Jogging Pawl Movement Motor | $\pm$ | - |  | R6-R11 |
| 180 | Jam in Booklet Bottom Fence Motor | - | - |  | R6-R11 |
| 181 | Jam in Booklet Stapler Motor | $\pm$ | - |  | R6-R11 |


| Cause Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 182 | Jam in Shift Roller Drive Motor | $\underline{1}$ | - |  | R6-R11 |
| 183 | Jam in Fold Transport Motor | $\pm$ | $\pm$ |  | R6-R11 |
| 184 | Jam in Press Fold Motor | - | - |  | R6-R11 |
| 185 | Jam in Tray Lift Motor | $\pm$ | - |  | R1-R5 |
| 186 | Jam in Shift Motor | $+$ | - |  | R1-R5 |
| 187 | Jam in Shift Jogger Front Motor | $+$ | $\pm$ |  | R1-R5 |
| 188 | Jam in Shift Jogger Rear Motor | 4 | - |  | R1-R5 |
| 189 | Jam in Shift Jogger Retreat Motor | $\pm$ | - |  | R1-R5 |
| 190 | Jam in Return Roller Motor | 4 | 4 |  | R1-R5 |
| 191 | Jam in Paper Stacking Holder Motor | $\pm$ | $\pm$ |  | R1-R5 |
| 192 | Jam in Positioning Roller Motor | 4 | - |  | R1-R5 |
| 193 | Jam in Paper Guide Motor | 4 | - |  | R1-R5 |
| 194 | Main instruction data defect | 4 | - |  | $\begin{aligned} & \text { R1-R5, R6- } \\ & \text { R11 } \end{aligned}$ |

Finisher SR3230

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 001 | Entrance Sensor |  |  | - | R1-R5 |
| 001 | Horizontal Transport Sensor |  |  | - | R1-R5 |
| 001 | Switchback Transport Sensor |  |  | - | R1-R5 |
| 001 | Proof Exit Sensor |  |  | - | R1-R5 |
| 001 | Shift Tray Exit Sensor |  |  | - | R1-R5 |
| 001 | Transport Path Paper Sensor |  |  | - | R1-R5 |
| 150 | Entrance Sensor | + |  |  | R1-R5 |
| 151 | Entrance Sensor |  | + |  | R1-R5 |
| 152 | Horizontal Transport Sensor | - |  |  | R1-R5 |
| 153 | Horizontal Transport Sensor |  | - |  | R1-R5 |
| 154 | Switchback Transport Sensor | - |  |  | R1-R5 |
| 155 | Switchback Transport Sensor |  | - |  | R1-R5 |
| 156 | Proof Exit Sensor | - |  |  | R1-R5 |
| 157 | Proof Exit Sensor |  | - |  | R1-R5 |
| 158 | Shift Tray Exit Sensor | $+$ |  |  | R1-R5 |
| 159 | Shift Tray Exit Sensor |  | - |  | R1-R5 |
| 162 | Jam in Entrance Transport Motor | - | $\underline{+}$ |  | R1-R5 |
| 163 | Jam in Horizontal Transport Motor | + | $\underline{1}$ |  | R1-R5 |


| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display <br> Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 164 | Jam in Pre-stack Transport Motor | - | - |  | R1-R5 |
| 165 | Jam in Relay Transport Motor | - | 4 |  | R1-R5 |
| 166 | Jam in Upper Tray Exit Motor | $\pm$ | $\pm$ |  | R1-R5 |
| 167 | Jam in Trailing Edge Pressure Plate Motor | - | $\pm$ |  | R1-R5 |
| 168 | Jam in Paper Exit Gate Motor | - | $\pm$ |  | R1-R5 |
| 169 | Jam in Horizontal registration unit displace motor | - | $\pm$ |  | R1-R5 |
| 170 | Jam in Punch Drive Motor | $+$ | $\pm$ |  | R1-R5 |
| 171 | Jam in Punch Registration Motor | - | 4 |  | R1-R5 |
| 172 | Jam in Lower Junction Gate Motor | - | $\pm$ |  | R1-R5 |
| 173 | Jam in Jogger Motor | $\pm$ | $\pm$ |  | R1-R5 |
| 174 | Jam in Positioning Roller Motor | - | $\pm$ |  | R1-R5 |
| 175 | Jam in Feed-out Belt Motor | $\pm$ | $+$ |  | R1-R5 |
| 176 | Jam in Corner Stapler Movement Motor | $\pm$ | $\pm$ |  | R1-R5 |
| 177 | Jam in Corner Stapler Motor | - | 4 |  | R1-R5 |
| 185 | Jam in Tray Lift Motor | $\pm$ | $\pm$ |  | R1-R5 |
| 186 | Jam in Shift Motor | - | $\pm$ |  | R1-R5 |
| 187 | Jam in Shift Jogger Front Motor | - | $\pm$ |  | R1-R5 |
| 188 | Jam in Shift Jogger Rear Motor | - | - |  | R1-R5 |
| 189 | Jam in Shift Jogger Retreat Motor | $\pm$ | - |  | R1-R5 |
| 190 | Jam in Return Roller Motor | - | 4 |  | R1-R5 |
| 191 | Jam in Paper Stacking Holder Motor | - | $\pm$ |  | R1-R5 |
| 192 | Jam in Positioning Roller Motor | - | - |  | R1-R5 |
| 193 | Jam in Paper Guide Motor | - | - |  | R1-R5 |
| 194 | Main instruction data defect | - | - |  | R1-R5 |

Booklet Finisher SR3220 / Finisher SR 3210

| Cause <br> Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | Stay <br> Jam | Display <br> Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 200 | Paper Entrance |  |  |  | R1-R4 |
| 201 | Paper Entrance |  |  |  | R1-R4 |
| 202 | Proof Exit |  |  |  | R1-R4 |
| 203 | Proof Exit |  |  |  | R1-R4 |
| 204 | Intermediate transport (right) |  |  | R1-R4 |  |
| 205 | Intermediate transport (left) |  |  |  | R1-R4 |
| 206 | Intermediate transport (left) |  |  |  |  |


| Cause Code | Cause of Jam | Late <br> Jam | Lag <br> Jam | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display <br> Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 207 | Shift Exit | - |  |  | R1-R4 |
| 208 | Shift Exit |  | $+$ |  | R1-R4 |
| 209 | Stack Transport | $\pm$ |  |  | R5-R10 |
| 210 | Rear Edge Stopper Transport | $\pm$ |  |  | R5-R10 |
| 211 | Rear Edge Stopper Transport |  | $+$ |  | R5-R10 |
| 212 | Paper did not reach middle folding exit | $\pm$ |  |  | R5-R10 |
| 213 | Middle Folding exit |  | $\pm$ |  | R5-R10 |
| 220 | Jam in entrance transport motor | $\underline{1}$ | $+$ | $\pm$ | R1-R4 |
| 221 | Jam in proof transport motor | - | $\pm$ | $\pm$ | R1-R4 |
| 222 | Jam in paper exit transport motor/positioning roller motor | - | $\pm$ | $\underline{1}$ | R1-R4 |
| 223 | Jam in shift motor | $\pm$ | $\pm$ | $\pm$ | R1-R4 |
| 224 | Jam in jogger motor | - | $+$ | - | R1-R4 |
| 225 | Jam in paper exit guide plate open/close motor | $\pm$ | $\pm$ | $\pm$ | R1-R4 |
| 226 | Jam in feedout pawl motor | 4 | $+$ | $\pm$ | R1-R4 |
| 227 | Jam in tray lift motor | - | $+$ | - | R1-R4 |
| 228 | Jam in positioning roller motor | - | $+$ | -1 | R1-R4 |
| 229 | Jam in stapler unit displacement motor | - | $+$ | - | R1-R4 |
| 230 | Jam in stapler motor | - | $+$ | - | R1-R4 |
| 231 | Jam in punch system motor | - | - | $\pm$ | R1-R4 |
| 232 | Jam in booklet transport motors | $+$ | $\pm$ | $\pm$ | R5-R10 |
| 233 | Jam in rear edge stopper motor | 4 | $+$ | $\pm$ | R5-R10 |
| 234 | Jam in folding blade motor | - | $+$ | -1 | R5-R10 |
| 235 | Jam in paper exit guide drive motor | - | $\pm$ | -1 | R1-R4 |
| 236 | Jam in stapleless stapler transfer motor | 4 | $+$ | $\underline{1}$ | R1-R4 |
| 237 | Jam in stapleless stapler motor | $\pm$ | $+$ | $\pm$ | R1-R4 |
| 238 | Jam in paper guide drive motor | $\pm$ | $\pm$ | $\pm$ | R1-R4 |
| 248 | Paper exit end is not responding | 4 | 4 |  | R1-R4 |
| 249 | Main instruction data defect | $\pm$ | $\pm$ |  | R1-R4 |

Internal Finisher SR3180

| Cause Code | Cause of Jam | Late Jam | Lag Jam | Stay Jam | Display Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 300 | Entrance sensor |  |  |  | R1-R2 |
| 301 | Entrance sensor |  |  | R1-R2 |  |
| 302 | Paper exit sensor |  |  | R1-R2 |  |
| 303 | Paper exit sensor |  |  | R1-R2 |  |


| Cause Code | Cause of Jam | Late Jam | Lag Jam | Stay Jam | Display Code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 304 | Shift motor |  |  |  | R1-R2 |
| 305 | Junction gate motor |  |  |  | R1-R2 |
| 306 | Paper Exit Pressure Motor |  |  |  | R1-R2 |
| 307 | Stapler Drive Motor |  |  | R1-R2 |  |
| 348 | Paper exit end not responding |  |  | R1-R2 |  |
| 349 | Main instruction data defect |  |  | R1-R2 |  |
| 308 | Exit Lag Jam |  |  | R1-R2 |  |

Internal Finisher SR3130

| Cause <br> Code | Cause of Jam | Late <br> Jam | $\begin{aligned} & \text { Lag } \\ & \text { Jam } \end{aligned}$ | $\begin{aligned} & \text { Stay } \\ & \text { Jam } \end{aligned}$ | Display <br> Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 100 | Entrance Sensor | - |  |  | R1-R2 |
| 101 | Entrance Sensor |  | $\underline{1}$ |  | R1-R2 |
| 102 | Transport Sensor | - |  |  | R1-R2 |
| 103 | Transport Sensor |  | 4 |  | R1-R2 |
| 104 | Paper Exit Unit |  | $\pm$ |  | R1-R2 |
| 105 | Jogger Fence Motor (Front) |  |  | - | R1-R2 |
| 106 | Jogger Fence Motor (Rear) |  |  | - | R1-R2 |
| 107 | Shift Motor |  |  | $\underline{+}$ | R1-R2 |
| 108 | Positioning Roller Motor |  |  | - | R1-R2 |
| 109 | Paper Exit Guide Plate Motor |  |  | $\pm$ | R1-R2 |
| 110 | Stapler Retreat Motor |  |  | - | R1-R2 |
| 111 | Tray Lift Motor |  |  | $+$ | R1-R2 |
| 112 | Stapler Motor |  |  | $\underline{+1}$ | R1-R2 |
| 113 | Stack Height Lever Motor |  |  | $\pm$ | R1-R2 |
| 114 | Punch Unit Motor |  |  | $\pm$ | R1-R2 |
| 115 | Horizontal Registration Movement Unit <br> Motor |  |  | $+$ | R1-R2 |
| 116 | Horizontal Registration Transport Unit Motor |  |  | $+$ | R1-R2 |
| 148 | Paper exit end not responding |  |  | $+$ | R1-R2 |
| 149 | Main instruction data defect |  |  | $+$ | R1-R2 |

Internal Multi-fold Unit FD3000

| Cause code | Cause of jam | Late <br> Jam | Lag Jam | Stay Jam | Display code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 350 | Registration sensor |  |  |  | N1 |
| 351 | Registration sensor |  |  |  | N1 |

## 6.Troubleshooting

| Cause code | Cause of jam | Late <br> Jam | Lag Jam | Stay Jam | Display code |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 352 | 1st Fold sensor |  |  |  | N2-N4 |
| 353 | 1st Fold sensor |  |  | N2-N4 |  |
| 354 | 2nd Fold Sensor |  |  | N6-N8 |  |
| 355 | 2nd Fold Sensor |  |  | N6-N8 |  |
| 356 | Crease Sensor |  |  | N6-N8 |  |
| 357 | Crease Sensor |  |  | N6-N8 |  |
| 358 | Folder Tray Exit Sensor |  | N2-N4 |  |  |
| 359 | Folder Tray Exit Sensor |  | N2-N4 |  |  |
| 360 | Horizontal Path Exit Sensor |  | N2-N4, N5 |  |  |
| 361 | Horizontal Path Exit Sensor |  |  | N1 |  |
| 370 | Jam in mechanisms driven by Registration Motor |  |  | N2-N4 |  |
| 371 | Jam in mechanisms driven by JG Crease Motor |  |  | N2-N4 |  |
| 372 | Jam in mechanisms driven by Transport Motor |  |  | N6-N8 |  |
| 373 | Jam in mechanisms driven by 1st Fold Motor |  |  | N6-N8 |  |
| 374 | Jam in mechanisms driven by 2nd Fold Motor |  |  |  |  |
| 375 | Jam in mechanisms driven by JG Crease Motor |  |  |  |  |
| 398 | Paper exit end is not responding |  |  |  |  |
| 399 | Main instruction data defect |  |  |  |  |

Sensor Locations


Paper Size Codes
Paper size codes are as follows.
Note: The unit of Main Scan/Sub Scan Length is 0.1 mm .

| Size Code | Paper Size Name | Orientation | Main Scan Length | Sub Scan Length |
| :--- | :--- | :--- | :--- | :--- |
| $132(84 \mathrm{H})$ | A3 | SEF | 2970 | 4200 |
| $005(05 \mathrm{H})$ | A4 | LEF | 2970 | 2100 |
| $133(85 \mathrm{H})$ | A4 | SEF | 2100 | 2970 |
| $141(8 \mathrm{DH})$ | B4 | SEF | 2570 | 3640 |
| $006(06 \mathrm{H})$ | A5 | LEF | 2100 | 1480 |
| $134(86 \mathrm{H})$ | A5 | SEF | 1480 | 2100 |


| Size Code | Paper Size Name | Orientation | Main Scan Length | Sub Scan Length |
| :---: | :---: | :---: | :---: | :---: |
| 014(0EH) | B5 | LEF | 2570 | 1820 |
| 142(8EH) | B5 | SEF | 1820 | 2570 |
| 135(87H) | A6 | SEF | 1050 | 1480 |
| 143(8FH) | B6 | SEF | 1280 | 1820 |
| 160(A0H) | 11"x17"(DLT) | SEF | 2794 | 4318 |
| 164(A4H) | $81 / 2 " \times 14 "($ LG ) | SEF | 2159 | 3556 |
| 166(A6H) | $81 / 2 " \times 11 "($ LT ) | SEF | 2159 | 2794 |
| 038(26H) | $81 / 2 " \times 11 "(\mathrm{LT})$ | LEF | 2794 | 2159 |
| 172(ACH) | $51 / 2 " \times 8$ 1/2"(HLT) | SEF | 1397 | 2159 |
| 175(AFH) | 12 " $\times 18$ " | SEF | 3048 | 4572 |

## Other Problems

When SC670 Is Displayed


When SC672 (Controller start up error) is displayed
Symptom:
Note: CTL = Controller
The following occur:

| SC672- | Communication error between operation panel and CTL after machine is powered on. |
| :--- | :--- |
| 00 |  |
| SC672- | Communication error (receive) between operation panel and CTL after machine is powered on. |
| 10 |  |
| SC672- <br> 11 | Communication error (send) between operation panel and CTL after machine is powered on. |
| SC672- <br> 12 | Communication error between operation panel and CTL after normal start-up. |
| SC672- <br> 13 | Communication error between operation panel and CTL after normal start-up; Operation panel not <br> detected. |
| SC672- | Operation panel cable error |
| 20 |  |
| SC672- | Controller board error |
| 21 |  |$\quad$.

## 6.Troubleshooting

## 반

- SC672 does not appear on the SMC report, as it is not logged.
- The Smart Operation Panel communicates with the controller via a USB cable and IPU. SC672 is triggered when the panel cannot communicate with the controller.

Cause:
Possible causes of SC672 include:

- USB communication path failure (USB cable, IPU)
- CTL boot up error and/or operation panel boot up error due to abnormal break in operations of CTL.

Possible causes of operation panel cannot light include:

- USB communication path failure (USB cable, IPU)
- Operation panel cannot communicate with CTL due to CTL boot-up error

[A]: Operation Panel
[B]: IPU
[C]: FCU
[D]: Controller
[E]: USB cable

Solution:

Do the following.

1. Turn the machine power $\mathrm{OFF} / \mathrm{ON}$.
2. Do the action in the flowchart below to determine the cause and best course of action when SC672 occurs.


- If the SC recurs after you do the action in this flowchart, do the following.
- If SC819 (cache error) appears in the SC history, replace the controller board.
- If SC991 (SCS: scs time count level c') appears in the SC history, replace the controller board and USB cable.


## Flowchart to determine parts to replace when SC672 occurs



Flowchart to determine parts to replace when no display on operation panel


| Parts | How to determine the cause |
| :--- | :--- |
| USB cable | LED on CTL blinks once every second |
| Operation panel | LED on CTL blinks once every second |


| Parts | How to determine the cause |
| :--- | :--- |
| IPU | Fuse 3 on the IPU |
| CTL | LED on CTL does not blink |
| Memory | LED on CTL does not blink |

[A]: LEDs on the controller board
Check the condition (lit, off, blinking) of the LED on the CTL.
Normal situation: POSTCODE LED 8 [A] and BIOS LED [B] blinking for 1 second


- The LED lit or off when there is a problem with the CPU.

[B]: Abnormal mode: LEDs on the controller board
POSTCODE LEDs 1 to 8 blink constantly


| LED |  |
| :--- | :--- |
| POSTCODE <br> $1-8$ | 1. For self-diagnosis code (BIOS). <br> 2. After the BIOS starts up, POSTCODE 4,5,7 turn off and POSTCODE $1,2,3,6$ turn on and <br> POSTCODE 8 blinks. POSTCODE 8 is lit or off when there is a problem with the CPU. |
| BIOS/OS | - LED is lit when the BIOS is running. <br> - LED blinks when the OS is running. |

1. Re-connect the USB cable between IPU board and operation panel.


When connecting the cable, hold the molded part of the cable as shown in the figure below so as not to apply excessive force on the connector part. Applying excessive force in the upper direction on the connector may cause connection failure.


Applied to the machine built in October 2016 and beyond:
A bracket [A] which covers the upper part of the cable will be added.


## PCB for the operation panel



## [FITM

- $\quad 1,3,6$, and 7 are ON for normal.



## USB connector [A] (IPU)


[D]: Replacing the Memory

1. Turn the machine power OFF.
2. Attach the memory on the CTL as shown (in a vertical orientation).

3. Lock the hook.

[E]: CMOS clear
4. Turn the machine power OFF.
5. Turn switch 5 ON for 10 seconds.
6. Turn switch 5 OFF.
7. Turn the machine power ON.

Locatoin of Switch 5 [A] (CTL)

[F]: Fuse on the IPU
Check that the switch $1[\mathrm{~A}]$ is operating normally.


## FITM

- In the normal operation, all of the switches in the SW1 block are OFF.
[G]: Replacing the USB cable and the operation panel

1. Remove the platen cover, or ARDF/SPDF. (ADF Removal)
2. Remove the rear cover [A].

3. Remove the scanner right cover [A].

4. Remove the scanner front cover [A].

5. Remove the scanner left cover $[\mathrm{A}]$.

6. Holding down both the sides of the operation panel upper cover [A], unhook the tabs (indicated by blue circles) and remove the cover.


## 6.Troubleshooting

7. Remove the USB cable connector [A] ( x 1 , x 2 ).

8. Remove the two screws ( x 2 ).

9. Remove the two connectors.

10. Remove the scanner unit $[\mathrm{A}]$ x11).


## [5]

- Never loosen or remove the following screw when you remove or re-attach the unit. This screw fixes the scanner cam in place. If the position of the scanner cam changes, the scanner will be misaligned. This will result in image skew and other image alignment issues.


11. Remove the USB cable.


- Make sure that there is no space between the machine frame and the following three areas of the scanner


If the symptom is not resolved, escalate the issue using the normal process, together with the following information for further investigation.

- $\quad$ SC sub code (SC672-10 or 99)
- Date/time of problem occurrence
- Factor(s) that trigger the problem (ex. SC672-11 occurred 3 minutes after tuning ON the main power switch.)
- Occurrence frequency (ex. One out of ten times when turning ON the main power switch)
- Parts replaced
- Date/time when parts were replaced


## Marks (Vertical Streaks) on Prints and Copies due to Scanning Problems

Marks on prints and copies are mostly due to dirt on the DF exposure glass [A], generally caused by adhesive contaminants (such as ball point pen ink and correction fluid).


Compared to non-adhesive contaminants (such as paper fragments and eraser dust), adhesive contaminants are more likely to lead to complaints from customers because of the following:

- Vertical streaks caused by adhesive contaminants are more visible in terms of image quality.
- Unless removed by cleaning, adhesive contaminants continue to produce vertical streaks, while non-adhesive contaminants stop producing streaks after they are dislodged.
- Many adhesive contaminants are difficult to remove by cleaning.

The ARDF DF3090 (D779) features a system (non-contact scanning) to reduce vertical streaks caused by adhesive contaminants.


The ARDF DF3090 (D779) can be converted from non-contact scanning to contact scanning for users who wish to reduce vertical streaks caused by non-adhesive contaminants.

| SP No. | Contact scanning | Non-contact scanning |
| :---: | :--- | :--- |
| SP4-688-001 (DF Density Adjustment ARDF) | $97 \%$ | $102 \%$ |

## Converting the ARDF DF3090 to Contact Scanning

- Turn OFF the main power and unplug the power cord from the wall socket, before starting the following procedure. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the ARDF front cover [A] ( x 1 ).

2. Remove the scanning guide plate $[B]([A] \times 1)$.

3. Remove the plastic guides [A] on the sides of the scanning guide plate ( x 1 ).

4. Attach the guides for contact scanning. Each guide has a hole [A].

5. Mount the scanning guide plate, taking care not to damage the sheet $[\mathrm{A}]$.

6. Peel off the gap sheet [A] from the DF exposure glass with your hands.

7. Clean the DF exposure glass [A] with alcohol.

To avoid paper jams, make sure adhesive is completely removed.

8. Turn the main switch on.
9. Start the SP mode.
10. Select SP4-688-001 (DF Density Adjustment ARDF) and change the setting to " 97 " for contact scanning.
11. Change the DF magnification (SP4-871-003) from [0.11\%] to [0.00\%].


- When returning the setting back to non-contact scanning, return the SP values also.

Converting the SPDF3100 to Contact Scanning

1. Open the SPDF and exchange the entrance lower guide unit [A] to a non-contact type part.


- Entrance lower guide unit for non-contact transport: The following areas are black [A].
- Entrance lower guide unit for contact transport: The following areas are clear and colorless [B].



2. Exchange the scanning guide plate [A] to a non-contact type part (hook x 1 ).


- [A] : The color of the marker of the non-contact type scanning guide plate for this machine is gray.
- [B]: The color of the marker of the contact type scanning guide plate for this machine is white.
- [C]: The color of the marker of the non-contact type scanning guide plate for previous machine is black.


3. Attach the scanning guide plate for contact transport [A] (hook x 1).
4. Attach the entrance lower guide unit for contact transport [B] ( x 2 ).

5. Peel off the gap sheet [A] from the DF exposure glass with your hands.

6. Clean the DF exposure glass [A] with alcohol.

To avoid paper jams, make sure adhesive is completely removed.

7. Turn the main switch on.
8. Enter the SP mode.
9. Change SP4-688-002 (Scan Image Density Adjustment 1-pass) from "101" to "96".
10. Change the DF magnification (SP4-871-003) from [0.11\%] to [0.00\%].


- When returning the setting back to non-contact scanning, return the SP values also.


## Finisher Registration Adjustment

A side-to-side registration error can be produced when the paper is being fed from the mainframe to the finisher.

For SR3240/SR3230
The docking bracket for SR3240/SR3230 [A] (and its screw [B]) can adjust the side-to-side registration.


To adjust the side-to-side registration:
Change the position of the standard bracket [B] by rotating it 90 degrees as shown by the arrow. This makes the docking bracket [A] easier to slide horizontally.
Then reattach the docking bracket [A] to the mainframe.


## If the paper shifts toward the front

Slide the docking bracket forward by the amount which corresponds to that of the shift, to move the finisher in the same direction.
e.g.: When paper has shifted by 4 mm from the center toward the front ( $2 \mathrm{~mm} /$ division of the scale), move the docking bracket toward the front by 4 mm ( 2 divisions).

[A]: Proof tray
[B]: Docking Bracket Screw

## If the paper shifts toward the rear

Slide the docking bracket backward by the amount which corresponds to that of the shift, to move the finisher in the same direction.
e.g.: When paper has shifted by 4 mm from the center toward the rear ( $2 \mathrm{~mm} /$ division of the scale), move the docking bracket backward by 4 mm (2 divisions).

[A]: Proof tray
[B]: Docking Bracket Screw

## 

- After the adjustment, check the side-to-side registration by feeding paper out to the proof tray. If the


## 6.Troubleshooting

shift has not been solved, adjust the docking bracket (screw for the docking bracket) slightly again.
For SR3220/SR3210
Side-to-side registration can be adjusted by the docking bracket for SR3220/SR3210 [A] (and the docking bracket screw [B]).


1. Eject a sheet of $A 4(L E F)$ or A3 paper to the proof tray and check how many divisions of the scale the edge of the paper has shifted from the center.

[A]: Scale marks for DLT
[B]: Scale marks for A3
[C]: 7 scale marks in 2 mm intervals
[D]: Center mark
2. Change the position of the standard bracket by rotating it 180 degrees as shown below. This makes the
docking bracket easier to slide horizontally. Then reattach the docking bracket to the mainframe.

[A]: Reverse

## If paper shifts toward the front

Slide the docking bracket backward by the amount which corresponds to that of the shift, in order to move the finisher in the same direction.
e.g.: When paper has shifted by 4 mm from the center toward the rear ( $2 \mathrm{~mm} /$ division of the scale), move the docking bracket backward by 4 mm (2 divisions).

[A]: Proof Tray
[B]: Docking Bracket Screw

## If paper shifts toward the rear

Slide the docking bracket backward by the amount which corresponds to that of the shift, in order to move the finisher in the same direction.
e.g.: When paper has shifted by 4 mm from the center toward the rear ( $2 \mathrm{~mm} /$ division of the scale), move the docking bracket backward by 4 mm (2 divisions).

[A]: Proof Tray
[B]: Docking Bracket Screw

## 

- After the adjustment, check the side-to-side registration by feeding paper out to the proof tray. If the shift has not been solved, adjust the docking bracket (screw for the docking bracket) slightly again.


## Stacking Problem at the 1000-sheet Finisher

Stacking problems may occur due to paper curl depending on the paper type / size. In this case, it is possible to avoid the problem by attaching the auxiliary tray.


Installation procedure for attaching the sheet

1. Clean the back [B] of the auxiliary tray [A] with alcohol

2. Attach the fixing sheets $[\mathrm{B}]$ to the auxiliary tray $[\mathrm{A}]$.


## 

- Place the sheets on the outer ends [A] of the auxiliary tray and hook the bent portion [B] at the edge of the tray.


Installation procedure for attaching the auxiliary tray to the 1000 -sheet finisher

1. Turn on the machine.
2. Manually lift the paper surface detection feeler [A] to keep the sensor "ON".

Keep lifting the feeler until step 4.

3. Open and close the upper cover [A] or the front cover [B]. The shift tray [C] starts to descend.

4. "JAM227" is displayed about 3 seconds later. The shift tray descent is stopped. Release your hand from the feeler.
5. Clean the place [A] to attach the fixing sheet with alcohol.

6. Place the auxiliary tray [A] on the shift tray.
7. Attach the fixing sheet $[B]$ on the shift tray and fasten the auxiliary tray.
8. Open and close the front cover or the upper cover. The shift tray starts to rise [C], and "JAM227" is cleared.


## Finisher Jogger Problem

Finisher Jogger Problem (For Booklet Finisher SR3220 (D3B9) / Finisher SR3210 (D3B8))


- Check the jogger width in the exposure glass reading mode.
- If a paper alignment problem occurs as below, do the following procedure to adjust the jogger width.


1. Place an A4 original (SEF) on the exposure glass.
2. Select [Staple] on the operation panel (you can select any staple location: top or bottom.)
3. Press [Start].
4. A copy is put out on the staple tray. Put the copy next to the bottom jogger [A].

5. Measure the distance between the aligning side of the top jogger and the edge of the copy with a scale.

6. Press the [\#] button.
7. Adjust the jogger width with SP6-143-004 (adjustable threshold: -1.5 to +1.5 mm for each paper size). SP6-143-004 (Jogger Pos Adj:1K FIN)


- Adjust the jogger width to be slightly narrower (approximately -0.5 mm ) than the paper width.

8. Repeat step 3 through step 6 to make the jogger width same as the paper width.

## Early Paper Tray Full Detection Mylar for Internal Finisher SR3130 (D690)

Paper curl may occur when the output tray is nearly full. Attach the mylar to the tray full detection feeler to detect tray full early before paper curl occurs.

Attaching the Mylar

1. Pull the finisher [A].

2. Remove the finisher front cover [A]. ( x 2 )

3. Remove the left lower cover [A]. ( x 2 )

4. Rotate the gear $[\mathrm{A}]$ to move down the movable tray [B].

5. Remove the paper exit tray [A]. ( x 2 )


## 6.Troubleshooting

6. Attach the mylar [A] on the tray full detection feeler [B].

7. Re-attach the paper exit tray. ( x 2 )
8. Move the movable tray [A] up and down to check that the mylar does go through the sensor properly.

9. Re-attach the left lower cover. ( $\times 2$ )
10. Re-attach the finisher front cover. ( ${ }^{-1 \times 2 \text { ) }}$

Paper Curl Problem for SR3180
When using mixed mode, with duplex (curls downwards) over simplex (curl upwards) and paper curl occurs, attach the auxiliary tray (D7667010), disable the tray full detection sensor, and paste the mylar.

1. Paper output cover $[\mathrm{A}]( \pm 2)$


## 6.Troubleshooting

2. Release the clamp and disconnect the harness of the paper exit full sensor $1[A](x 1, x 1)$.

3. Loop and clamp the harness $[\mathrm{A}]$ as shown ( x 1 ).



4. Loop and clamp the harness [A] as shown( x 1 ).


- If the harness cable [A] is too short to loop, clamp the harness without looping ( $\quad \mathrm{x} 1$ ).


6. Re-attach the paper output cover $\left({ }^{-1} \times 2\right)$
7. Attach the auxiliary tray (D7667010) [B] to the paper output tray [A]

8. Paste the mylars [A] on the frame of the finisher.


Maximum number of sheets for stapling and what happens when the job has too many pages

Behavior: When the number of sheets exceeds the maximum staple capability

## When corner stapling

Sheets are fed out without being stapled. First, the maximum number of sheets (50) is stacked in the staple tray and fed out. Following this, any remaining sheets that exceed this maximum are also stacked and fed out without being stapled, in the same way.
Example:
If 60 sheets are set to be stapled, the first 50 are stacked in the staple tray and then fed out without being stapled.
The remaining 10 are then stacked in the tray and fed out without being stapled.
When the maximum number of originals for a stapled set has been scanned, "Stapling capacity exceeded" is

## 6.Troubleshooting

displayed on the LCD.


There is no message displayed prompting the user to cancel or continue with the 51 st original.

## When booklet stapling

The following dialog is displayed when the maximum number of sheets in a stapled set is reached during the scanning of the originals. The user is prompted before printing begins.

[Stop] The job is canceled (no further scanning, no printing)
[Continue] Sets are stapled at maximum capacity as a batch and fed out.
Example:
The machine stops scanning after 20 out of 30 originals are scanned.
The message shown above is displayed.
If [Continue] is selected, printing starts and sheets are stapled in a batch of one 20 -sheet set and one 10 -sheet set.

Specifications: Maximum sheet capability for staple jobs

| Model | Corner Stapling | Booklet Stapling |
| :--- | :--- | :--- |
| Finisher SR3210 | 50 sheets | - |
| Booklet Finisher SR3220 | 50 sheets | 15 sheets |
| Booklet Finisher SR3240 | 50 sheets | 20 sheets |


| Model | Corner Stapling | Booklet Stapling |
| :--- | :--- | :--- |
| Finisher SR3230 | 50 sheets | - |
| Internal Finisher SR3130 | 50 sheets | - |

Fusing Offset Occurs at the Edge or Center of the Paper

## Symptom:

Fusing offset occurs at the edge or center of the paper.

## 

The customer may report a strange odor coming from the machine.

## Cause:

The temperature is too low at the edge or center of the paper when the paper enters the fusing unit.

## Solution:

If the symptom occurs, do the procedure in the Flowchart below.


- ETH


## Workaround A:

Change the paper tray setting (paper thickness setting) in User Tools to match the actual paper thickness.
*1: User Tools $>$ Tray paper setting $>$ page $2>$ Select tray $>$ Select paper thickness

## Workaround B:

Change the paper tray setting in User Tools.

## 险

- There is no workaround for Thick Paper 4.

Thin paper -> Plain paper
Plain paper -> Mid thick (For MP 5055/6055 models, Plain paper -> Thick paper 1)

## 

- The copy speed will be reduced from 60 cpm to 50 cpm on the MP 6055 model.

Mid thick -> Thick paper 1


- The copy speed will be reduced (See the chart below).

Thick paper 1 -> Thick paper 2


- The copy speed will be reduced (See the chart below).

Thick paper $2->$ Thick paper 3
Thick paper 3 -> Thick paper 4


- Auto duplex cannot be used (See the chart below).

Postcards: Thick paper 2 -> Thick paper 3
Side effects: The following may occur, depending on the paper thickness.

- Paper curl
- Decreased productivity


## Workaround C:

Increase the target fusing temperature by 5 degrees using the following SPs:

- SP 1-105-003
- SP 1-105-007
- SP 1-105-011
- SP 1-105-015

If the symptom occurs with 1200 dpi printing, also increase the target temperature by 5 degrees for these SPs as well:

- SP 1-105-107
- $\quad$ SP 1-105-137
- SP 1-105-111

Side effects: Paper curl may occur.

## Workaround D:

Change the target temperature using the following SPs as shown below.

- SP 1-105-019: 145 deg -> 150 deg
- SP 1- 105-023: 130 deg -> 140 deg
- SP 1- 105-027: $135 \mathrm{deg}->140 \mathrm{deg}$
- SP 1-105-141: $140 \mathrm{deg}->145 \mathrm{deg}$
- SP 1-105-115: 120 deg -> 125 deg (For 1200 dpi mode)

Side effects: Paper curl may occur.

## Workaround $C^{\prime}$ :

Increase the target fusing temperature by 5 more degrees using the following SPs:

- SP 1-105-003
- SP 1-105-007
- SP 1-105-011
- SP 1-105-015

For 1200 dpi printing:

- SP 1-105-107
- SP 1-105-137
- SP 1-105-111

Side effects: Paper curl may occur.

## Workaround D':

Increase the target fusing temperature by 5 more degrees using the following SPs:

- SP 1- 105-019: 145 deg -> 150 deg -> 155 deg
- SP 1- 105-023: 130 deg -> 140 deg -> 145 deg
- SP 1- 105-027: 135 deg -> 140 deg -> 145 deg
- SP 1- 105-141: 140 deg -> 145 deg -> 150 deg
- SP 1-105-115: $120 \mathrm{deg}->125 \mathrm{deg}$-> 130 deg (For 1200 dpi mode)

Side effects: Paper curl may occur.
CPM information

|  | MP2555 | MP3055 | MP3555 | MP4055 | MP5055 | MP6055 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Plain paper | 25 | 30 | 35 | 40 | 50 | 60 |
| Mid-thick | 25 | 30 | 35 | 40 | 50 | 50 |
| Thick paper 1 | 25 | 28 | 28 | 30 | 30 | 30 |
| Thick paper 2 | 18 | 18 | 18 | 18 | 18 | 18 |
| Thick paper 3 | 18 | 18 | 18 | 18 | 18 | 18 |
| Thick paper 4 | 18 | 18 | 18 | 18 | 18 | 18 |

## Troubleshooting for Toner Density

## Symptom:

The image density decreases with continuous printing, especially in solid image areas (though it is within specification).


- This does not occur in text areas.


## Cause:

This may occur due to the condition of the developer, and also occurs more easily when repeat prints are made from the same original.

## Solution:

Change the following SP modes as shown.

- SP3-629-001 (Vc Vsp): Set to 530
- SP3-629-101 (Vb Vsp): Set to 330

- This will increase the amount of toner used to develop the image.
- As a side effect, this will shorten the yield of the toner bottle.


## Troubleshooting for Blots on Middle Thick Glossy or Coated Paper

## Symptom:

Printed images contain blots when using middle thick (or thick) glossy or coated paper.

## 

- This may occur when paper weight is $82 \mathrm{~g} / \mathrm{m}^{2}$ or more and its smoothness is $100(\mathrm{~S})$ or more.


## Cause:

Glossy or coated paper contacts the PCU more closely than plain paper, and using middle thick or thick paper increases the transfer pressure.
So more dust or blots on the PCU may be transferred to the paper than usual.
These may result in more blots appearing on printouts.

## Solution:

1. Change the following SP modes as shown.

SP3-629-001 (Vc Vsp): Set to 630 (If the symptom still occurs, set to 680)
SP3-629-101 (Vb Vsp): Set to 430 (If the symptom still occurs, set to 480)
2. Enter SP3-011-001 (Manual ProCon :Exe), and then press [Execute].

1
Depending on the environment, the printout toner density may decrease.

## Blown Fuse Condition

Fuse: EU

| Name | Output connector | Capacity | Part number | Field replacement possible |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Voltage | Part name | Remarks |
| FU101 | CN902 (Fusing Lamp) | 8A | 11071346 | Yes |
|  |  | AC | FIH250V8A (EM/CR) | - |
| FU102 | CN904 (DHB) | 5A | 11071344 | Yes |
|  |  | AC | $\begin{aligned} & \text { FIH 250V } \\ & 5 \mathrm{~A}(\mathrm{TP} / \mathrm{CR}) \end{aligned}$ | - |
| FU105 | CN913-5, 12 (Zero cross circuit / DH <br> Heater) | 2A | - | No |
|  |  | AC | SCT250V2A | - |
| FU11 | CN911-3 (IPU) | 5A | - | No |
|  |  | 5 V | SLT250V5A | - |
| FU12 | CN912-5, 6 (SIO) | 10A | 11071216 | Yes |
|  |  | 24V | FBT250V10A (EM) | - |
| FU13 | CN912-7 (BCU) | 10A | 11071216 | Yes |
|  |  | 24 V | FBT250V10A (EM) | - |
| FU14 | CN912-8 (BCU) | 10A | 11071216 | Yes |
|  |  | 24 V | FBT250V10A (EM) | - |

Fuse: NA

| Name | Output connector | Capacity | Part number | Field replacement possible |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Voltage | Part name | Remarks |
| FU101 | CN902 (Fusing Lamp) | 15A | 11071241 | Yes |
|  |  | AC | TLC-15A-N4 | - |
| FU102 | CN904 (DHB) | 10A | 11071347 | Yes |
|  |  | AC | FIH 250V 10A(EM/CR) | - |
| FU105 | CN913-5, 12 (Zero cross circuit / DH heater) | 2A | - | No |
|  |  | AC | SLT250V2A | - |
| FU11 | CN911-3 (IPU) | 5A | - | No |
|  |  | 5 V | SLT250V5A | - |
| FU12 | CN912-5, 6 (SIO) | 10A | 11071216 | Yes |
|  |  | 24 V | FBT250V10A (EM) | - |
| FU13 | CN912-7 (BCU) | 10A | 11071216 | Yes |


| Name | Output connector | Capacity | Part number | Field replacement <br> possible |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  | Remarks |  |
|  |  | Voltage | Part name |  |
|  |  | 24 V | FBT250V10A (EM) | - |
| FU14 | CN912-8 (BCU) | 10 A | 11071216 | Yes |
|  |  | 24 V | FBT250V10A (EM) | - |

Fuse Location


## 7. Detailed Descriptions

## Guidance for Those Who are Familiar with Predecessor Products

## Changes from the Previous Machine

The difference between this model and the previous (MP 2554/3054/3554/4054/5054/6054) models are as follows:

Scanner

| Items | MP 2554/3054/3554/4054/5054/6054 | MP 2555/3055/3555/4055/5055/6055 |
| :--- | :--- | :--- |
| Scanner type | - | Short focus scanner, for distortion correction: <br> After replacing the scanner carriage, the correction <br> value specified on the supplied sheet in the SP <br> code must be entered. For details, see Scanner <br> Carriage. |
| Main scanning <br> magnification <br> adjustment | Not available | Magnification adjustment is available for the main <br> scanning direction with SP4-871-003, -004. |
| Scanner shipping <br> retainers | - | Provided |
| Oiling to guide <br> rails | Launa oil | Grease |
| Scanner drive | With wire drive | With belt drive |
| Paper size <br> detection <br> (main scanning <br> direction, width) | Reading all lamps | Reading half lamps in the front side |
| Paper size <br> detection <br> (sub scanning <br> direction, length) | Put one reflecting sensor in a vertical <br> direction. | Put one reflecting sensor in a horizontal direction. |
| Option heater | Attach the heater at an angle in the <br> center of the bottom plate. | Attach the heater horizontally in the left rear of the <br> bottom plate. |

Image Processing

| Items | MP <br> 2554/3054/3554/4054/5054/6054 | MP 2555/3055/3555/4055/5055/6055 |
| :--- | :--- | :--- |
| SIO | Available | Not available <br> The functions of this old board are built into <br> the IPU. |
| IPU SUB | Available | Not available <br> The functions of this old board are built into <br> the IPU. |
| Copy Data Security <br> Function | Available by option | Available by default on the IPU |

Toner Supply

| Items | MP <br> $2554 / 3054 / 3554 / 4054 / 5054 / 6054$ | MP 2555/3055/3555/4055/5055/6055 |
| :--- | :--- | :--- |
| Resetting the <br> Toner End <br> Counter | The toner end sensor detects "toner <br> remaining" once. | To prevent clearing of the toner end condition due to <br> erroneous detection, the counter is reset if the toner end <br> sensor detects "toner remaining" 4 times in a row. |
| Toner end <br> sensor's <br> operation <br> timing | When the development motor is <br> "on". | When the polygon motor is "on". |

Feed / Transport Part

| Items | $\begin{gathered} \text { MP } \\ 2554 / 3054 / 3554 / 4054 / 5054 / 6054 \end{gathered}$ | MP 2555/3055/3555/4055/5055/6055 |
| :---: | :---: | :---: |
| Bypass tray / Main machine jam code | - | The following codes are used to isolate the cause; <br> - JAM048: Transport Sensor Lag Jam from Bypass Tray <br> - JAM051: Transport Sensor Lag Jam from 1st Feed Tray |
| Main tray paper exit | - | - Improved stacking performance after feedout by adding resilience to the paper with the paper exit driven roller (drum shape). <br> - To prevent paper jam when the paper is delivered from the machine's paper exit to the internal exit peripherals, attach the paper support guide (supplied with the peripherals). <br> - Replaced the paper exit driven roller to a flat type |


| Items | $\begin{gathered} \text { MP } \\ 2554 / 3054 / 3554 / 4054 / 5054 / 6054 \end{gathered}$ | MP 2555/3055/3555/4055/5055/6055 |
| :---: | :---: | :---: |
|  |  | roller to prevent jamming when paper is fed to the internal exit peripherals. |
| Paper feed transport mechanism | The solenoid removes the pick-up roller from the paper. | Not available |

Electrical parts

| Items | MP 2554/3054/3554/4054/5054/6054 | MP 2555/3055/3555/4055/5055/6055 |
| :--- | :--- | :--- |
| SIO | Available | Not available <br> The functions for this old board are included on the IPU |
| OPU | 1st generation Smart Operation Panel | 2nd generation Smart Operation Panel |
| FFC | With hooks | Without hooks |

Exterior Cover/Air Flows (Fan Control)

| Items | $\begin{gathered} \text { MP } \\ 2554 / 3054 / 3554 / 4054 / 5054 / 6054 \end{gathered}$ | MP 2555/3055/3555/4055/5055/6055 |
| :---: | :---: | :---: |
| Rear Covers, Screws | 5 covers, 20 screws <br> (upper part:4 covers, 15 screws) <br> (lower part: 1 cover, 5 screws) | 2 covers, 12 screws <br> (upper part: 1 cover, 7 screws) <br> (lower part: 1 cover, 5 screws) |
| Main Power Switch | Main power switch cover (front side) | Right side of the 1st paper tray |
| Labyrinth Structure of the <br> Exterior | - | Available |
| Fusing Fan | 1 | 2 (MP $4055 \mathrm{SP} / 5055 \mathrm{SP} / 6055 \mathrm{SP}$ ) |
| Odor Filter | 1 | 2 (MP $4055 \mathrm{SP} / 5055 \mathrm{SP} / 6055 \mathrm{SP}$ ) |
| Particulate Filter | Not available | Available (MP 4055 SP/5055 SP/6055 SP) |

Others, Options

| Items | MP <br> 2554/3054/3554/4054/5054/6054 | MP 2555/3055/3555/4055/5055/6055 |
| :--- | :--- | :--- |
| Finisher paper exit guide <br> mechanism | - | Available |
| Ten key options | - | Available |
| Inner Finisher SR3180 | - | Available |
| Paper feed accuracy | - | Productivity Mode/Silent Mode (the UP <br> selection is available) |

## 7.Detailed Descriptions

| Items | MP <br> 2554/3054/3554/4054/5054/6054 | MP 2555/3055/3555/4055/5055/6055 |
| :--- | :--- | :--- |
| with all options | - | 15 seconds starting up (the UP selection is <br> available) |
| Replacing a paper exit <br> roller on the main unit side <br> when installing internal <br> paper exit options | - | Replace to the flat roller and attach the <br> paper support guide according to the <br> options. |
| NFC card R/W options | - | Available |
| Noise Control | - | Equipped with the sound absorbing <br> material and the sound insulation sheet. |

## Overview

Parts Layout

Scanner Unit


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Operation panel | 6 | Auto Paper Size (APS) sensor |
| 2 | Anti-condensation heater (Scanner heater) ${ }^{* 1}$ | 7 | Scanner lamp unit (LEDB) |
| 3 | Scanner HP sensor | 8 | Scanner motor |
| 4 | DF Position Sensor | 9 | Sensor Board Unit (SBU) |
| 5 | Auto Paper Size (APS) sensor |  |  |

*1: Service part


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | 1st paper feed sensor | 10 | 2nd paper feed sensor |
| 2 | 1st vertical transport sensor | 11 | 1st paper feed tray set switch |
| 3 | 1st paper end sensor | 12 | 1st paper feed tray lift motor |
| 4 | 1st paper feed tray limit sensor | 13 | 2nd paper feed tray set switch |
| 5 | 1st paper feed tray pick up solenoid | 14 | 2nd paper feed tray lift motor |
| 6 | 2nd paper feed tray pick up solenoid | 15 | Registration sensor |
| 7 | 2nd paper feed tray limit sensor | 16 | 1st paper feed tray size switch |
| 8 | 2nd vertical transport sensor | 17 | 2nd paper feed tray size switch |
| 9 | 2nd paper end sensor | 18 | Anti-condensation heater *Option |



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Laser Unit | 3 | TD sensor |
| 2 | Quenching lamp | 4 | PCL (Pre Cleaning Light) |




Duplex/Bypass Unit




| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Development bearing cooling fan (MP 4055 <br> SP/5055 SP/6055 SP only) | 4 | PSU cooling fan (MP 4055 SP/5055 <br> SP/6055 SP only) |
| 2 | Fusing fan | 5 | Development exhaust fan |
| 3 | Paper exit fan | 6 | Temperature/humidity sensor |




| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Interlock switch (Front Cover) | 6 | IPU |
| 2 | PSU | 7 | Controller Board |
| 3 | DHB (Option) | 8 | Interlock Switch (Right Cover) |
| 4 | BCU | 9 | Main power switch |
| 5 | HVP |  |  |

## Scanning

## Overview

The short focus scanner is realized by implementing a lens block (SBU, CCD, and Lens) on the carriage.
After the scanner lamp unit emits the light to the document, the light goes through the route shown below and reaches the CCD.

Scanner lamp unit (LED) -> Original -> 1st mirror (13) -> 2nd mirror (3) -> 3rd mirror (6) -> 2nd mirror (3) -> 4th mirror (5) $->$ 5th mirror (14) $->$ lens $->$ pre-sensor lens $->$ CCD


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Sheet-through exposure glass | 9 | Sensor board unit (SBU) |
| 2 | Exposure glass | 10 | CCD |
| 3 | 2nd mirror | 11 | Pre-sensor lens |
| 4 | Scanner lamp unit (LEDB) | 12 | Lens |
| 5 | 4th mirror | 13 | 1st mirror |
| 6 | 3rd mirror | 14 | 5th mirror |
| 7 | Scanner motor | 15 | Anti-condensation heater* (Scanner heater) |
| 8 | APS sensors |  |  |

*Service part

Reading system
Two scan modes are available: book mode (platen mode) and ADF mode (sheet-through method).
In book mode (platen mode), the scanner scans the document from left to right.
When the ADF is used (ADF mode), the scanner is fixed in the home position on the left side, and the document is transported and read (sheet-through method).

Scanner

## Scanner lamp

The light source is an LED. The LED emits little heat (low power consumption), and has excellent light output
rise characteristics.

## CCD

The 3 line color CCD converts shade in the document to 3 color ( $B, G$, and $R$ ) electrical signals. The use of a 4.7 $\mu \mathrm{m}$ image CCD achieves low-cost and compactness.

## Reflection plate (reflector)

The reflection plate reflects light from the scanner lamp, and collects light for the document read unit. The light which illuminates the document is adjusted to be the same on the left and right so as not to cast any shadow on the document.

## White reference seal

A white reference seal for shading correction is affixed to the underside of the scale on the left of the MFP. This is read by the scanner and CCD when the power is ON. The data read are temporarily stored in a RAM, and used for correction of document image data.

## Mechanism

Scanner drive
The scanner is driven by the scanner motor [D] via the timing belt [C]. For each mode, reading is completed in one pass.

Position control of the scanner carriage [B] is based on the scanner HP sensor [A].


Operation Flowchart

## Overall Flowchart



Scanner carriage storage control
To protect the scanner carriage, the carriage must be locked to the scanner frame before shipping. The scanner can be moved to the shipping lock position with SP4-806-001 (Scanner carriage storage operation) (Super SP mode). If pre-shipping check is required, make sure to move the scanner carriage to the right position with SP4-806-001 and mount the locking parts.

SC121-00 will occur when the power is turned on or scanning takes place while the carriage is locked.
Document size detection
In this MFP, for document size detection, two reflecting sensors are used for the sub scanning direction, and a

## 7.Detailed Descriptions

CCD is used for the main scanning direction.

## Sub scanning direction

The document size is detected by the ON/OFF states of the sensor (the CCD can also detect the length). The pressure plate open/closed sensor is used for document size detection timing. When the pressure plate open/closed sensor has changed from "no cover" to "cover," the size is detected.

## Main scanning direction

RGB color densities at 3 locations (S1, S2, S3) are detected by a CCD, and when any of the RGB densities is 12 digits or more, it is determined that a document is present.

The pressure plate open/closed sensor is used for document size detection timing. When the pressure plate open/closed sensor detects "no cover," the scanner lamp is moved to the right; when it detects "cover," the scanner lamp is moved to home position while lit, and during this time, the size is read.

-THTH. H.

| Document size |  |  | Sensor response |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size | Direction | Dimensions (main $\times$ sub) | S1 | S2 | S3 | L1 | L2 |
| A3 | SEF | 297x420 | - | - | 1 | 1 | 18 |
| B4 | SEF | 257x364 | - | $\underline{\square}$ | - | 18 | H |
| A4 | SEF | 210x297 | $\underline{\square}$ | - | - | 1 | - |
| A4 | LEF | 297x210 | - | - | $\square$ | - | - |
| B5 | SEF | $182 \times 257$ | - | - | - | [ | - |
| B5 | LEF | 257x182 |  | 1 | - | - | - |
| A5 | SEF | 148x210 | - | - | - | - | - |
| A5 | LEF | 210x148 | 1 | - | - | - | - |
| B6 | SEF | $128 \times 182$ | - | - | - | - | - |
| B6 | LEF | $182 \times 128$ | - | - | - | - | - |
| DLT | SEF | $11^{\prime \prime} \times 17{ }^{\prime \prime}$ | - | - | 1 | - | 1 |
| $10 \times 15$ | SEF | $10^{\prime \prime} \times 15^{\prime \prime}$ | - | $\underline{\square}$ | - | - | 1 |


| Document size |  |  | Sensor response |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| USB4 | SEF | $10 " \times 14^{\prime \prime}$ | - | $\square$ | - | - | [1] |
| LG | SEF | $81 / 2^{\prime \prime} \times 14^{\prime \prime}$ | E | - | - | - | E |
| Oficio | SEF | $81 / 2 " \times 13.4$ " | E | - | - | - | E |
| Foolscap | SEF | $81 / 2^{\prime \prime} \times 13^{\prime \prime}$ | [ | - | - | - | 1 |
| Folio | SEF | $81 / 4 " \times 13^{\prime \prime}$ | [ | - | - | - | 1 |
| F | SEF | $8{ }^{\prime \prime} \times 13^{\prime \prime}$ | $\square$ | - | - | - | $\square$ |
| LT | SEF | $81 / 2 " \times 11^{\prime \prime}$ | - | - | - | 1 | - |
| LT | LEF | $11 " \times 81 / 2^{\prime \prime}$ | - | - | $\underline{\square}$ | - | - |
| $8 \times 10$ | SEF | $8 " \times 10 "$ | E | - | - | E | - |
| $10 \times 8$ | LEF | $10 " \times 8$ " | - | - | - | - | - |
| Executive | SEF | $71 / 4$ "×10 1/2" | - | - | - | - | - |
| HLT | SEF | $51 / 2^{\prime \prime} \times 81 / 2^{\prime \prime}$ | - | - | - | - | - |
| HLT | LEF | $81 / 2^{\prime \prime} \times 51 / 2^{\prime \prime}$ | 1 | - | - | - | - |
| 8kai | SEF | $267 \times 388$ | - | - | - | - | $\underline{\square}$ |
| 16kai | SEF | $194 \times 267$ | - | - | - | [10 | - |
| 16kai | LEF | $267 \times 194$ | - | $\square$ | - | - | - |

판

- The document width (main scanning direction) is detected by the sensor indicated with ' $\quad$, .


## How to check the sensor state

- SP4-301 (Operation Check APS Sensor)

How to read the screen
(7)00000000(0)

0 : no document
1: document present
When the sensor responds, bit 0 is displayed as "1."

- SP4-310 (Scan Size Detect Value)

Viewed from the control panel, labeling positions from rear to front S1-S3 in that order, the RGB density at each position is displayed in digit units (the value just before scan is displayed).

## Other

- SP4-303 (Min Size for APS)

Sets the display when non-standard (small size) size original is detected.
0: Display message "Original size unknown".
1: Operate assuming the original size is A5 LEF (HLT LEF for inches).

- SP4-305-001(8K/16K Detection)

By changing this SP, you can change between A4 size/letter size or Chinese paper size $(8 \times 16)$.
0 : Normal setting. (Default)

## 7.Detailed Descriptions

1: When detecting A4/LT size $->$ Assume that it is A4 when SEF, LT when LEF.
2: When detecting A4/LT size $->$ Assume that it is LT when SEF, A4 when LEF.
3: Change to $8 \mathrm{~K} / 16 \mathrm{~K}$ settings.
A3, B4 -> 8K LEF
A4 LEF, B4 LEF, A5 LEF -> 16K LEF
A4 SEF, B4 SEF, A5 SEF -> 16K SEF

- SP5-126 (Set F-size Document)

Selects the paper size for the F-size original.
0 : When detecting Foolscap $->$ Assume that the size is $81 / 2 " x 13$ ". (Default)
1: When detecting Folio -> Assume that the size is $81 / 4$ "x13".
2: When detecting F $->$ Assume that the size is $8 " / 13^{\prime \prime}$.

- SP4-308 (Scan Size Detection)

Sets CCD original size detection and APS original size detection.
0 : Disable: Does not detect original size
1: Enable: Detects original size with the CCD unit
2: APS: APS sensor is used for detecting original size. (Do not select this option because this is for special order.)

- SP4-309-004 (Scan Size Detect:Setting LED PWM Duty)

If the user specifies that the pre-scan lamp is too bright, the brightness pre-scan can be reduced by decreasing the value of SP4-309-004 (Scan Size Detect:Setting LED PWM Duty). However, if the lamp brightness is reduced, size detection for a document with a large number of solid images will be less accurate.

- SP5-135 (LG_Oficio Change)

1: When detecting LG size $->$ Assume that the size is $81 / 2^{\prime \prime} \times 14$ ".
2: When detecting Oficio size $->$ Assume that the size is $81 / 2^{\prime \prime} \times 13.4$ ". (Default)
Improved tolerance to black lines when paper passes through ARDF/SPDF
The original document does not come in contact with the sheet-through exposure glass, which prevents adhesive dirt (ball pen ink) on the document from adhering to the sheet-through exposure glass.
ADF cross-section diagram, non-contact scanning

[A]: Sheet
[B]: Sheet-through exposure glass
[C]: Read position
[D]: Document

- Contact scanning

As the document comes in contact with the sheet-through exposure glass this is useful for dealing with adhesion of free dirt particles (paper scraps, etc.). (Self-cleaning mechanism using paper)
On the other hand, sticky dirt adhering to the document sticks to the sheet-through exposure glass, and may give rise to the appearance of black lines.

## ADF cross-section diagram, contact scanning


[A]: Sheet-through exposure glass
[B]: Read position
[C]: Document
If black lines due to free dirt particles appear within a short time, such as when users have documents with large amounts of paper scraps, you can change from the non-contact scanning system to the contact scanning system with the procedure in Troubleshooting - Vertical Streaks on Copies due to Scanning Problems.

- Reference (reading position correction)

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 control panel advising the user to perform target glass cleaning).

## Image diagram



## [A]: Read position

[B]: Sheet-through exposure glass
[C]: Dirt

- Dirt is detected when a document passes through, so the alert will not disappear until reading of the next document begins, even after the sheet-through exposure glass cleaning is performed.
- If dirt is detected not on the sheet-through 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 value 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 become.)
- It is prohibited to change the setting of SP4-020-003 (Dust Check Lvl Dust Reject:Lvl).

Difference between Non-contact Transport and Contact Transport in DF Scanning

| Transport <br> Method | Non-contact Transport | Contact Transport |
| :---: | :---: | :---: |
| Descriptions | Because of the film attached to the glass, the original doesn't contact the glass. | While passing, the original contacts the glass. |
| Merit | It almost never causes stripes on the image that arise from foreign substances transferring from the original to the glass. | It almost never causes stripes on the image that arise from dust on the glass, because the glass is cleaned by contact with the transported original. |
| Demerit | Compared with the contact method, stripes on the image caused by dust occur more often. | Compared with the non-contact method, stripes on the image caused by foreign substances transferred from the surface of an original to the glass occur more often. |
| Aim | To improve prevention of stripes in the image caused by sticky foreign substances. | Considering the target users of this machine, it's important to improve prevention of stripes caused by dust in the path |
| Note | 1. Be sure to replace the sheet-through glass with the film attached on the glass. <br> 2. When you attach the film on the glass, you need to keep the left scale attached on the glass in order to fix the location of the film.*1 | - |


| Transport <br> Method | Non-contact Transport | Contact Transport |
| :---: | :---: | :---: |
|  | 3. You can change the method (contact <br> method to non-contact, or vice versa) <br> by replacing some parts.*1 |  |

*1: For details, Vertical Streaks on Copies due to Scanning Problems.

## Anti-Condensation Heater

Under low temperature conditions, condensation may appear on optical parts (such as mirrors). This will cause image deletion, blacked out images, and gray images. As a countermeasure, there is an anti-condensation heater [A] that is an optional service part. This heater turns on automatically when the power source turns off.


| A | Anti-condensation heater |
| :--- | :--- |

## Image Processing

## Structural block diagram

For MP 2555 SP/3055 SP/3555 SP models


For MP 4055 SP/5055 SP/6055 SP models


## Mechanism

SBU

## Functions

Performs Black level correction and White level correction (AGC), Creating the SBU test pattern, and A/D conversion.

## 7.Detailed Descriptions

## Operation overview

Samples 2 analog signals (ODD, EVEN) from RGB output from the 3-line CCD by an analog ASIC: SCAT, and converts them to digital signals (output 10 bit) by a built-in 12-bit A/D converter.
The digital signals which are $\mathrm{A} / \mathrm{D}$ converted by the analog ASIC are output to the IPU as an LVDS signal.

## SP correction value storage

The SBU correction value is stored in an EEPROM of the BCU. This correction value must be re-adjusted when the lens block is replaced.

- SP4-008 (Sub Scan Magnification Adj)
- SP4-010 (Sub Scan Registration Adj)
- SP4-011 (Main Scan Reg)
- SP4-688-001 (DF Density Adjustment ARDF) or SP4-688-002 (Scan Image Density Adjustment 1-pass DF)


Dirty Background Adjustment When Using DF:

- The image density scanned by using the DF may be lower compared to the image density scanned by using the platen. The image density value of DF scanning can be adjusted by SP4-688-001 (DF Density Adjustment ARDF) or SP4-688-002 (Scan Image Density Adjustment 1-pass DF).


## IPU

## Image processing function overview

The image signals from the SBU are subjected to various image processing, and output to the controller (memory) via a PCI bus. The image signals from the controller (memory) are received via the PCI bus, and output to the LDB via a GAVD (the LDB is provided in the write unit).

For the direct fax transmission application, the image signals from the SBU are subjected to various image processing, and output to the FCU via the PCI bus.

## Image processing overview (copy application)

Digital signal data output from the SBU is subjected to shading correction and line interval correction, as well as image processing, which are performed by the IPU. Finally, the data is sent to the MFP unit as digital signals-2 bit/pixels.

| Image processing items | Details |
| :--- | :--- |
| Shading correction | Corrects for uneven scanner lamp lighting, and scatter in CCD light receiving <br> sensitivity. |
| Line interval correction | Line shift during subscanning magnification/reduction by scanner. Corrects <br> integer part. |
| Dot correction | Line shift during subscanning magnification/reduction by scanner. Corrects <br> below decimal point. |
| Vertical line correction | Corrects a vertical striped image during sheet-through ADF. |
| Image area separation | Determines text parts and photo parts of image. |


| Image processing items | Details |
| :--- | :--- |
| Scanner gamma correction | Corrects scatter of image data relative to exposure amount. <br> From reflectivity linear to density linear. |
| Filter | Performs image sharpness adjustment and removes moire. |
| ADS | Performs natural complexion removal in full color mode. |
| Color compensation <br> preprocessing | Determines hue in masking mode, and improves chromaticity. |
| Color compensation | Converts RGB data to density value CMYK data of color materials. |
| Image magnification change | Arbitrarily changes main scanning magnification, subscanning fixed image <br> reduction and magnification of scanner image. |
| Image shift function | Shifts image data in the main scanning or subscanning directions. |
| Image binarization function | In scanner mode, outputs a binary signal. |
| Image mask | Masks an area outside a frame of an arbitrary region in scanner or printer data. |
| Image <br> compression/expansion | Compresses or expands an image. |
| Printer gamma correction | Adjusts exposure amount of photosensitive body relative to image density. |
| Gradation processing | Applies 600dpi, 4bit 16 value gradation processing. |

## 7.Detailed Descriptions

## Plotter Process

Laser Exposure

Overview


- The LD drive board controls both the laser output and laser synchronization mechanism.
- The machine cuts off the power supply to the LD drive board if the front or right cover is opened.


The LD driver IC drives the laser diode. To prevent the intensity of the laser beam from changing because of the temperature, the machine monitors the current passing through the laser diode (LD). The machine adjusts the current to the laser diode by comparing it with the reference level from the reference circuit. This auto power control is done just after the machine is turned on and during printing. The laser diode power is adjusted on the production line.

## FIT-

- Do not touch the variable resistors on the LD unit in the field.

For MP 2555 SP/3055 SP/3555 SP models


For MP 4055 SP/5055 SP/6055 SP models

" +24 V " goes through the BCU and is converted to " +5 VS " on the IPU. " +5 VS " is supplied to the LD Board. The interlock switch turns off when the front cover or the right door is opened. As a result, the power supply ("+24VS") to the BCU is cut off.
This system prevents unexpected laser emission, and ensures user safety and technician safety.

## PCU

Overview

*1 New feature. The PCL decreases the electro-static adhesion force generated between the OPC drum and remaining toner to enhance cleaning efficiency.


The drum/waste toner motor [B] drives the OPC drum [A] through gears and the drum drive shaft [C].

Drum Charge


Charging to the drum is performed by the charge roller [B]. The charge roller always contacts the surface of the drum and applies a charge bias.
A power pack applies the bias to the charge roller via a receptacle and electrode terminal. Dirt can easily adhere to the charge roller because the roller always contacts to the drum with the pressure spring. Therefore, the brush roller [A] is in contact with the charge roller for cleaning.


A counter blade cleaning system is used for drum cleaning. A cleaning blade [B] removes toner on the drum by always contacting the drum against the drum rotation. Toner scraped off by the blade is transferred by the toner collection coil [A] from the front to the rear, to be discarded into the waste toner bottle via the transportation route [C] to the rear of the drum. Depending on the job conditions, used toner may be discarded by the toner recycle/discard switch mechanism. Paper dust that adheres to the edge of the cleaning blade is removed by rotating the drum [D] in reverse after job end.

## ID Sensor

The ID sensor is used to keep image density by changing the value of ID sensor standard, development bias, drum potential and LD power with Vsp and Vsg.

The ID sensor operats at the following times:

1. When the machine has been unused beyond the time determined and the printed sheet count has exceeded the predetermined value.
2. When the temperature and/or humidity has changed by more than a certain range, and the machine restarts the engine (i.e. the main power is turned on, warming-up after the fusing-off mode, and the front cover is closed.)
3. When the machine is processing a job that has more than a set number of sheets (job is interrupted) or when the machine has completed a job that has the set number of sheets.

Development

Overview


The development unit consists of the following parts.

|  | Description |  | Description |
| :--- | :--- | :--- | :--- |
| 1 | Doctor Blade | 4 | Mixing Auger 2 |
| 2 | OPC Drum | 5 | TD Sensor |
| 3 | Development Sleeve | 6 | Mixing Auger 1 |



This machine uses a dry two-component magnetic brush development system.
This machine uses 2 mixing augers [C] and [D] to keep the developer evenly mixed. Mixing auger 2 [C] transports excess developer, scraped off the development roller by the doctor blade [B], towards the rear of the machine. Mixing auger $1[\mathrm{D}]$ returns the excess developer, along with new toner, to the front of the mixing assembly. Here the developer is reapplied to the development roller.

The TD sensor [A] detects the toner density in the development unit.

Development Bias


Development bias is generated by a power pack and is applied to the development sleeve [A] via the development sleeve drive shaft and bias terminal [B].

Drive


The development motor [C] drives the mixing auger 1 [A], mixing auger 2 [E] and development sleeve [B] through a serration gear [D].

Toner Supply


When the toner bottle [A] is set, the transport nozzle [B] on the side of the main machine is inserted into the bottle (Hi-ACT system).
The drive of the toner supply motor is transmitted to the toner transport coil [F] through the drive gear [E], which transports the toner in the bottle horizontally. Transporting by a coil provides a stable and accurate toner supply
and low toner remaining.


Toner transported by the coil [A] falls directly into the development unit from the sub-hopper via the transport pipe [B]. To prevent toner from remaining, a coil is provided in the transport pipe.
When the PCDU is put in the machine, the sub-hopper [C] slides the shutter [D] on the bottle assembly and the toner goes to the entrance [E] of the development unit.

Toner Density Control
There is only one toner density control mode, called PID mode.

| Mode | Toner supply <br> decision | TD Sensor Reference Value | Toner Supply Amount | Toner End <br> Detection |
| :--- | :--- | :--- | :--- | :--- |
| PID | Compares Vt <br> with Vtref | ID sensor control corrects <br> the TD sensor reference <br> value. | The toner supply amount Is <br> calculated with the difference <br> between Vt and Vtref. | Available |

## Toner End Detection

The TD sensor detects toner near end.
If the difference between the TD sensor output and the target value is equal to or larger than the near end threshold, the machine detects that a "possible" toner near end exists. As the machine continues to operate, it starts to calculate an integrated value. If the integrated value is equal to or larger than the near end total threshold, the machine determines that a "true" toner near end exists. The toner near end indicator blinks on the operation panel at this time.

If the difference between the TD sensor output and the target value is less than the near end threshold twice in a row, the toner near end indicator is turned off.

## 7.Detailed Descriptions

If the difference between the TD sensor output and the target is equal to or larger than the end threshold, the machine detects that a "possible" toner end exists. As the machine continues to operate, it starts to calculate an integrated value. If the integrated value is equal or larger than the toner end total threshold, the machine determines that a "true" toner end exists.

## Toner End Recovery

In a toner end condition or toner near end condition, if the front cover is kept open for more than 5 seconds and then it is closed, the machine changes to a toner end recovery mode. You must keep the main power on when you replace the toner bottle or toner end recovery will not work.

## Transfer and Separation

Overview


|  | Description |  | Description |
| :--- | :--- | :--- | :--- |
| 1 | OPC Drum | 4 | Transfer Roller |
| 2 | Pick-off Pawl | 5 | ID Sensor |
| 3 | Discharge Plate |  |  |

The machine uses a transfer roller [4], which touches the surface of the OPC drum [1]. The high voltage supply board supplies a positive current to the transfer roller, which attracts the toner from the drum onto the paper. The current depends on the paper width, paper type, and paper feed tray.
The curvature of the drum and the discharge plate [3] help the paper to separate from the drum. The high voltage supply board also supplies a negative dc voltage to the discharge plate. The drum/waste toner motor drives the transfer roller through the OPC drum [1].


The high voltage supply board supplies a positive current to the transfer roller [A], which attracts the toner from the drum onto the paper. The current depends on the paper width, paper type, and paper feed tray.

The curvature of the drum and the discharge plate $[B]$ help the paper to separate from the drum. The high voltage supply board also supplies a negative dc voltage to the discharge plate [B], which helps the paper to separate from the drum.

Transfer Roller Contact and Release Mechanism
The transfer roller contact and release mechanism prevents dirt and distortion. A transfer roller contact cam [A] in the front right side of the mainframe is driven by the transfer roller contact motor [C]. The transfer roller contact cam moves the transfer roller contact arm [C] by its rotation. The transfer roller [D] and OPC drum [E] are separated by the movement of the transfer roller contact arm during process control, discarding toner, or when the main power is turned off.


## Fusing

Overview
This product uses a QSU-DH fusing system, in which a heater emits light to heat a fusing belt.


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Thermopile | 6 | Pressure Roller |
| 2 | Heating Sleeve Belt | 7 | Pressure Roller Thermistor |
| 3 | Stripper Plate | 8 | Fusing Entrance Guide Plate |
| 4 | Fusing Exit Guide Plate | 9 | Thermostat |
| 5 | Pressurizing/depressurizing Lever | 10 | NC Sensor |



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Thermopile (edge) | 6 | Thermistor (center) |
| 2 | Thermopile (center) | 7 | Thermostat (center) |


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 3 | Fusing lamp | 8 | Non-contact Thermistor (center) |
| 4 | Thermostat (edge) | 9 | Non-contact Thermistor (end) |
| 5 | Thermistor (edge) |  |  |

Mechanism

## QSU-DH Fixing System



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Halogen heater (Fusing Lamps) | 5 | Stay |
| 2 | Light Shielding Plate <br> (at both ends) | 6 | Nip Pad (heat conduction plate method) |
| 3 | Reflector | 7 | Pressure Roller |
| 4 | Heating Sleeve Belt |  |  |

The heating sleeve belt is driven by drag rotation following the pressure roller, and presses a nip pad against the pressure roller to fix toner to the paper.

The fusing lamp emits light, and the area of the fusing sleeve belt which is heated moves in an anticlockwise direction so that heat is transmitted up to the contact point with the pressure roller.

- Fusing lamp

There are two lamps
Lamp power:

| Center | 800 W |
| :--- | :--- |
| Edge | 412 W |

- Nip pad

Presses against the Pressure roller to form a fusing nip. The top surface is covered with a slippery sheet.

## Light Shielding plate and Heat Conduction Plate

The heating sleeve belt unit in this model has light shielding and heat conduction plates. These prevent the fusing sleeve from damage caused by temperature increase. Otherwise, this could happen at parts of the sleeve where paper does not pass by during a multi-page job using paper widths that are less than the full
width of the sleeve.

## When handling an A3 (SEF) or A4 (LEF) sheet

A cylindrical-shaped light shielding plate [C] covers the ends [D] of fusing lamp [A] where paper does not pass by, to prevent the temperature from rising at those places.


|  |  |
| :--- | :--- |
| $[A]$ | Area where the fusing lamp lights up |
| $[B]$ | Print width of A3 (SEF) / A4 (LEF) |
| $[\mathrm{C}]$ | Light shielding plates |
| $[\mathrm{D}]$ | Areas where paper does not pass by and that would heat up without the light shielding plates |

When handling an A4 (SEF) or smaller sheet
The machine lights up only the fusing lamp for center [A]. At this time, the temperature increases around the area [D] where paper does not pass. This is the gap between the lit part of the fusing lamp [A] and the edge of the sheet being fed.

To prevent the heating sleeve belt unit from damage caused by the temperature increase, heat conduction plates [C] which are made of a highly heat conductive material are attached to the nip pad [B] to release the heat.


|  |  | Description |
| :--- | :--- | :--- |
| $[A]$ | Area where the fusing lamp lights up |  |
| $[B]$ | Nip pad |  |


|  | Description |
| :--- | :--- |
| $[\mathrm{C}]$ | Heat conductive plates |
| $[\mathrm{D}]$ | Areas where paper does not pass by and that would heat up without the heat conducting plates |
| $[\mathrm{E}]$ | Print width of A4 (SEF) |
| $[\mathrm{F}]$ | Print width of small size |

- Reflector

Transmits heat efficiently to the left of the fusing belt.

- Flanges

Situated on both ends of the fusing belt. They maintain the shape of the belt.

## Fusing Drive

The pressure roller [B] is driven by the fusing motor or fusing/paper exit motor [A] (depending on the model). The fusing belt [C] is driven by the pressure roller (drag rotation).


## Pressure Release Mechanism



To easily remove paper in the event of a jam in the fusing unit, a pressure release mechanism is provided.

## 7.Detailed Descriptions

The pressing or releasing movement is applied together when the right cover [A] opens/closes: When the right cover is closed, pressure is applied. When the right cover is open, the pressure is released.

## Fusing Temperature Control

- Warm-up mode

After power ON, fusing warm-up begins. The fusing motor or fusing/paper exit motor is switched ON, the halogen heater is energized, and the fusing temperature is increased to the "reload target temperature." When the fusing warm-up is completed, the fusing motor or fusing/paper exit motor is switched ON for a certain time, and the fusing temperature is maintained at the "reload target temperature."

- Standby mode

After fusing reload, when a certain time has elapsed, power supply to the halogen heater is switched OFF, and the fusing motor or fusing/paper exit motor is switched OFF. At the same time, the temperature is maintained at the "standby target temperature (SP1107-001)" by the halogen heater.

In standby mode, the fusing motor or fusing/paper exit motor is switched ON intermittently.

- Printing ready mode

After returning to standby mode, the halogen heater is re-energized, and the fusing temperature is raised to the "printing ready target temperature." If printing is not required, the machine again enters the standby mode after a certain time has elapsed.
If printing is required during return to standby, the halogen heater is energized, the fusing temperature is increased to "target temperature after reload/after paper feed," and the print job starts.

## CPM Down Control

To maintain image quality and MFP quality, this MFP has a low-temperature CPM mode and high-temperature CPM mode, and implements 3 levels of CPM down according to the usage situation and MFP state.

- Low-temperature CPM mode

In a low-temperature environment, the fusing lamp cannot keep up, and it may be difficult to maintain the target temperature. To handle this, the detection temperature of the fusing center thermopile is checked at given intervals, and if the detected temperature is below a threshold value, the CPM is decreased by 1 level. This low temperature CPM reduction is performed in the following 3 levels:

CPM down level

| Mode | Level |
| :--- | :--- |
| Normal CPM | $100 \%$ |
| CPM down 1 | $80 \%$ |
| CPM down 2 | $65 \%$ |
| CPM down 3 | $50 \%$ |

- Hot CPM mode

To shorten warm-up time and reduce the TEC value, this MFP employs a fusing unit with a low heat capacity.

For this reason, the temperature of those parts of the fusing belt where paper does not pass easily increases, and outside of the paper width it may get extremely hot. In order to prevent the belt from breaking due to this
excessive temperature rise, CPM down is implemented depending on the usage conditions. CPM down can be implemented in the following 3 levels depending on the detected temperature at the temperature sensor, or the paper passage time.

## H

- The down level $\%$ is a value for the case where a typical paper (Normal paper: A3/DLT/LT/A4) passes through the SEF. There may be some differences depending on paper size/paper thickness.

CPM down level

| Mode | Level |
| :--- | :--- |
| Normal CPM | $100 \%$ |
| CPM down 1 | $80 \%$ |
| CPM down 2 | $50 \%$ |
| CPM down 3 | $30 \%$ |

CPM down determination using a temperature sensor
The temperature sensor is checked at given intervals, and if the detected temperature is above a threshold value, the CPM is decreased by 1 level.

Since the points at which temperature tends to increase depend on the paper size, the sensor used is changed depending on the paper size.

| Paper width | Sensor used |
| :--- | :--- |
| A3/DLT/B4 (SEF) | Fusing thermistor (pressure roller end) |
| LT/A4 (SEF) | Fusing thermopile (end) |
| B5/A5/B6/A6 (SEF) | Fusing thermistor (pressure roller center) |

- CPM down determination using paper passage time

Depending on the paper size, it may not be possible to use a sensor to determine the points on the fusing belt which tend to rise in temperature.

Therefore, time conditions are also used to determine CPM down, and if continuous paper passage time is above a threshold value, CPM is decreased by 1 level.
(When CPM down is performed by time conditions, CPM does not increase thereafter.)

## Waste Toner



| A: Silicone Pipe | C: PCDU |
| :--- | :--- |
| B: Waste Toner Transfer Coil | D: Waste Toner Bottle |

The waste toner transfer coil transfers waste toner from the PCU to the waste toner bottle via a silicone pipe. The silicone pipe is part of the main machine.

## Toner Discarding

## Overview

Printing with low toner coverage leaves a lot of uncharged toner in the development unit. This degrades developer more quickly. To keep toner in the development unit fresh, the machine makes a belt pattern on the drum at the end of a job when image coverage is less than $3 \%$, to make sure that the equivalent toner for $3 \%$ coverage is consumed. This supplies a certain amount of fresh toner to the development unit. The belt pattern is cleaned off the drum, and the waste toner is stored in the cleaning unit and from there it goes to the waste toner bottle.

For these examples, let us say that toner consumption at $3 \%$ is $10 \mathrm{mg} / \mathrm{m}$.

## 6\% Coverage (Toner consumption ratio $=\mathbf{2 0} \mathbf{~ m g} / \mathrm{m}$ )

In the first example, we have $6 \%$ coverage. $20 \mathrm{mg} / \mathrm{m}$ of toner is sent from the development unit to the drum. 17 $\mathrm{mg} / \mathrm{m}$ ends up on the paper and $3 \mathrm{mg} / \mathrm{m}$ is cleaned off the drum and goes to the waste toner bottle. $3 \mathrm{mg} / \mathrm{m}=20$ $\mathrm{mg} / \mathrm{m} \times 0.15$. This factor of 0.15 is a constant for this development mechanism. In other words, at all times, $15 \%$ of the toner applied to the drum does not get on the paper, and is discarded.


## $1.5 \%$ Coverage (Toner consumption ratio $=5 \mathrm{mg} / \mathrm{m}$ )

In this example, we have a lot less than $3 \%$ coverage. $1.5 \%$ coverage is only $5 \mathrm{mg} / \mathrm{m}$ of toner. The development unit sends $5 \mathrm{mg} / \mathrm{m}$ of toner to the drum. $4.25 \mathrm{mg} / \mathrm{m}$ of this gets on the paper, and $0.75 \mathrm{mg} / \mathrm{m}$ is cleaned off the drum and sent to the waste toner bottle (this is the $15 \%$ factor we talked about above). In this job, only $4.25 \mathrm{mg} / \mathrm{m}$ was consumed. The machine has to consume $10 \mathrm{mg} / \mathrm{m}$ for each job. So, to make this 4.25 up to $10 \mathrm{mg} / \mathrm{m}$ for the preceding job, the machine then consumes $5.75 \mathrm{mg} / \mathrm{m}$ by making patterns on the drum (shown in red in the diagram). This toner is cleaned off the drum and sent to the waste toner bottle.


- Red letters indicate the toner amount that the belt patterns forcibly consume.


## Waste Toner Bottle Drive Mechanism



When the recycling shutter solenoid [A] moves the recycling shutter, collected toner is transported to the left side by the waste toner transfer coil [B] and falls into the development unit.

The collected toner in the waste toner bottle is moved to the front side by the waste toner bottle coil [C]. As a result, the height of the collected toner is kept level.

The drum/waste toner motor drives the waste toner transfer coil [B] and waste toner bottle coil [C]. In this model, there is no set detection mechanism for the waste toner bottle.

## Toner Collection Full Detection Mechanism



The toner collection full sensor [A] is located above the feeler [B] of the waste toner bottle. When the amount of collected toner in the waste toner bottle reaches about $90 \%$, the feeler [B] is lifted and interrupts the toner collection full sensor. After the machine detects that the waste toner bottle is full based on the coverage counter or page counter, whichever comes first, the pixel counter calculates the remaining days for the waste toner bottle replacement. When the machine prints 7,500 sheets after detecting a bottle near full, the status is changed to bottle full. SP3-810-011 allows you to adjust the duration between bottle near full and bottle full.

The remaining day counter = 15 days: The machine informs the status via @remote (if connected).
The remaining day counter $=5$ days: The machine displays a message that indicates the near full condition on the operation panel.

The remaining day counter $=0$ days: The machine displays a warning on the operation panel and the machine stops.
(Reference) Waste Toner Bottle Life (Sheet count)
Coverage 3\%: 460K
Coverage 6\%: 320K
Coverage 10\%: 230K
*MP 5055 SP model / 5 pages per job

## Feed/ Transport part

Overview


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Pick-up roller (1st paper tray) | 4 | Feed roller (2nd paper tray) |
| 2 | Feed roller (1st paper tray) | 5 | Friction roller (2nd paper tray) |
| 3 | Friction roller (1st paper tray) | 6 | Pick-up roller (2nd paper tray) |

## Feed / transport part

The paper feed tray consists of 2 stages, i.e., a main double tray and a bypass feed tray. By using both the 1 st and 2nd tray as universal trays, a space-saving two-step feed is enabled.

| Tray | Paper size | Loading number of sheets | Corresponding paper thickness |
| :--- | :--- | :--- | :--- |
| 1st/2nd paper tray | A3 - postcard | 550 sheets | $60-300 \mathrm{~g} / \mathrm{m}^{2}$ |
| Bypass feed tray | $12 \times 18-$ postcard | 100 sheets | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ |
| Duplex unit | A3 - postcard | Interleave | $52-256 \mathrm{~g} / \mathrm{m}^{2}$ |

Tray bottom plate lifting
When the paper feed tray is set in the machine, the set switch at the rear of the tray switches ON, and it is detected that the tray is set.
The coupling between the shaft at the rear of the tray and the lift motor then engages, the motor rotates, and the tray bottom plate is lifted. The tray bottom plate lifts until the paper surface pushes up the pick-up roller, the upper limit sensor switches OFF (interrupt), and the machine enters the paper feed standby mode.
When the tray is removed, the coupling is released, and the tray bottom plate moves down. The lift motor then rotates until the coupling returns to the home position.


Paper feed mechanism


The paper feed unit employs an RF system.
In a conventional FRR system, transport of 2 sheets at a time is prevented by reverse rotation of the separating roller, but in the RF system, paper separation is assisted by the resistance of a separating roller with a torque limiter (reverse drive is not performed).
When the paper feed tray is set in the machine, an arm [A] is pressed, the friction roller [B] comes in contact with the feed roller, and the pick-up roller [C] contacts the top of the paper (to prevent paper remaining, when the paper feed tray is withdrawn, the arm returns and contact with the rollers is released).

The machine enters paper supply standby mode when the tray bottom plate moves up. When the paper feed motor is switched ON, the rollers rotate and paper is supplied.
The roller holder functions as a paper guide and roller clip ring. The roller holder prevents the paper from winding up.



Paper feed transport mechanism
In order to maintain a proper interval of each paper, this machine has a paper feed sensor near the paper feed roller to adjust the timing of paper feeding.

1. The Paper feed motor is switched ON, and the first sheet is supplied.
2. The paper feed motor switches OFF right before the rear edge of the first sheet completely passes the paper feed roller.
3. The pick-up arm lowers the pick-up roller, which makes the pick-up roller contacting with the surface of the paper when the rear edge of the first sheet finishes passing the paper feed roller.
4. The paper feed motor switches ON to supply the second sheet of paper when the first sheet is transported for a predetermined distance by the downstream transport roller.

Paper size detection (1st / 2nd paper tray)
The end fence interlocking rotation detection plate is an automatic detection system which recognizes patterns by a 4-position push switch.
Size is detected by the detection patterns of knobs $1,2,3$, and 4 . Tray set is detected by the tray set switch.
If there has been a change in the pattern, "machine tray automatic size detection" control is performed continuously.

If the paper size is selected manually by user setting, the automatic size detection is overridden.


## 7.Detailed Descriptions

| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Size detection switch | 3 | Tray set switch |
| 2 | Size detection feeler | 4 | End fence |

- Tray detection sizes:

SRA3, A3, B4, A4 SEF, LT SEF, B5 SEF, A4 LEF, B5 LEF, and A5 LEF

- Tray size detection patterns

| Size | Knob |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 4 | 3 | 2 | 1 |
| A3(DLT) | 0 | 1 | 0 | 0 |
| B4(LG) | 0 | 0 | 1 | 1 |
|  | 0 | 1 | 1 | 1 |
| A4 SEF | 1 | 1 | 1 | 0 |
| LT SEF | 1 | 1 | 0 | 0 |
| B5 SEF | 1 | 0 | 0 | 0 |
| A4 LEF (LT LEF) | 0 | 0 | 0 | 1 |
| B5 LEF (Exe LEF) | 0 | 0 | 1 | 0 |
| A5 LEF | 0 | 1 | 0 | 1 |

* " 0 " is switch ON (PUSH), " 1 " is switch OFF.
* The figures in parentheses are automatic detection sizes which can be switched over in SP mode (for SP settings, see "SP mode (paper supply transport)" : SP5-181-005 to 008, SP5-131-001).
* Exe LEF=10.5" x 7.25"
* If a pattern other than the above is detected, "Unknown Pattern" is displayed on the control panel.

Remaining paper detection
When the tray lift motor rotates, the remaining paper detection sensors $1,2[\mathrm{~A}]$ built into the motor switch ON (pass) or OFF (interrupt). Paper remaining in the paper feed tray is detected by a combination of this ON/OFF.


These are the following 4 remaining paper detection levels:

| Remaining paper status | $100 \%$ | $70 \%$ | $30 \%$ | $10 \%$ |
| :--- | :--- | :--- | :--- | :--- |
| Remaining paper status sensor 1 | ON | OFF | OFF | ON |
| Remaining paper status sensor 2 | ON | ON | OFF | OFF |
| Control panel remaining paper display | Bar 4 | Bar 3 | Bar 2 | Bar 1 |

Paper end detection
When there is no more paper in the paper feed tray, the leading edge of the paper end feeler falls into a notch in the tray bottom plate, and the paper end detection sensor at the rear edge of the end feeler switches ON (pass).



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Paper end sensor | 3 | Notch |
| 2 | End feeler |  |  |

Paper feed drive
The $1 \mathrm{st} / 2$ nd pick-up rollers and $1 \mathrm{st} / 2$ nd paper feed rollers are driven by the paper feed motor. The $1 \mathrm{st} / 2 \mathrm{nd}$ separating rollers are driven by the vertical transport motor.

A bypass transport roller is driven by a duplex/bypass motor, and the registration roller is driven by the registration motor.


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Paper feed motor | 6 | Bypass transport roller |
| 2 | Vertical transport motor | 7 | Vertical transport roller (2nd tray) |
| 3 | Pick-up roller (1st tray) | 8 | Paper feed roller (2nd tray) |
| 4 | Paper feed roller (1st tray) | 9 | Pick-up roller (2nd tray) |
| 5 | Vertical transport roller (1st tray) |  |  |

Registration roller corrects skews of paper to match a leading edge of an image on the drum with paper selections. The registration roller (Driven) employs a plastic roller to correct skews. The registration roller (Drive) employs a rubber roller to enhance its transport capability. Registration buckle for each tray or paper type can be adjustable with SP1-003.


Paper powder removal mechanism
The registration part of the machine removes paper scrap by 1 paper removal sheet in contact with the driven roller (resin). Paper scrap removed by the paper removal sheet is collected in a paper removal container.


| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Paper powder removal container | 3 | Registration roller (Driven) |
| 2 | Paper powder removal sheet | 4 | Registration roller (Drive) |

## Bypass feed section



Bypass feed paper/separation mechanism
The manual paper feed mechanism employs an FRR system. The bypass feed unit comprises a paper feed roller, reverse roller and bypass pick-up roller.
When the paper feed tray is selected and the machine is started, the bypass pick-up solenoid is switched OFF, and paper is supplied by the duplex/bypass motor (CCW).
*1 The bypass pick-up roller does not come in contact with the paper surface by default. It is opposite to the paper feed tray.

Bypass feed paper size detection
Paper size width detection is performed by a bypass feed size detection switch (rotary switch).
The bypass feed size detection switch has a rotation plate which rotates together with the side fence of the bypass feed table, and detects the paper size.
Paper portrait/landscape is determined by a length detection sensor.
Two feelers [A] for the bypass paper length sensor [B] are added to the rear of the tray to prevent a false detection in paper length detection caused by floating on the rear of paper when large size paper is set without pulling out the extension bypass tray.


Bypass feed paper end detection
To detect bypass feed paper end, a paper detection filler and bypass feed paper end sensor are provided.
When the paper is set, the bypass paper end sensor switches ON (interrupt), and paper set is detected.
When there is no more paper, a detection filler falls into a hole in the bypass feed table, the bypass paper end sensor switches OFF (pass), and paper end is detected.

Bypass paper feed drive
The paper feed roller, reverse roller and pick-up roller are driven by the duplex/bypass feed motor.

## Duplex section



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 1 | Reverse sensor | 6 | Duplex entrance roller 2 |
| 2 | Reverse roller | 7 | Duplex transport roller 1 |
| 3 | Junction gate | 8 | Duplex transport roller 2 |
| 4 | Duplex entrance roller 1 | 9 | Duplex exit roller |
| 5 | Duplex entrance sensor | 10 | Duplex exit sensor |

Transport reverse mechanism
The paper passes through the junction gate, and is transported to the reverse tray by the reverse roller. After the trailing edge of paper has left the fusing exit sensor, the junction gate is moved to the duplex path direction and the reverse motor starts rotating reversely.


Duplex drive
The rollers are driven by the following motors:

| Rollers | Drive sources |
| :--- | :--- |
| Reverse roller | Reverse motor |
| Duplex entrance roller 1 | Duplex entrance motor |
| Duplex entrance roller 2 | Duplex entrance motor |
| Duplex transport roller 1 | Duplex/bypass motor |
| Duplex exit roller | Duplex/bypass motor |

## Interleave mechanism

The duplex unit performs interleave to reduce the overall duplex copying time.
<Paper exit from machine>

| Length | No. of interleaves |
| :--- | :--- |
| Less than 216 mm | 3 |
| $216-432 \mathrm{~mm}$ | 2 |
| *When bypass/duplexing (regardless of paper sizes) | 1 |

<1bin exit from machine>

| Length | No. of interleaves |  |
| :--- | :--- | :--- |
| Less than 216 mm | 2 |  |
| $216-432 \mathrm{~mm}$ | 1 |  |

## 7.Detailed Descriptions

- 3 sheet leave


Back side of 1st sheet -> Back side of 2nd sheet -> Back side of 3rd sheet -> Front side of 1st sheet -> Back side of 4 th sheet $->$ Front side of 2 nd sheet

- 2 sheet leave

Back side of 1st sheet $->$ Back side of 2nd sheet $->$ Front side of 1st sheet $->$ Back side of 3rd sheet $->$ Front side of 2 nd sheet

## Paper exit unit



| No. | Description | No. | Description |
| :--- | :--- | :--- | :--- |
| 3 | Reverse roller | 8 | Paper exit roller |
| 4 | Junction gate | 9 | Paper exit full feeler |
| 5 | Duplex entrance roller |  |  |

## Delivery location change-over

The paper transported from the fusing unit is changed over by the junction gate in the "machine paper exit/bridge unit" direction or the "reverse tray/1 bin unit" direction.

## Machine paper exit/bridge unit direction

1. The registration sensor switches ON.
2. The fusing/ paper exit motor ( ${ }^{*} \mathrm{MP} 2555 \mathrm{SP} / 3055 \mathrm{SP} / 3555 \mathrm{SP}$ ) or the paper exit motor (*MP $4055 \mathrm{SP} / 5055$ SP/6055 SP) switches ON (CCW).
3. When the rear edge of the paper leaves the paper exit roller, the fusing/paper exit motor or the paper exit motor switches OFF.


| No. | Description |
| :--- | :--- |
| 1 | Paper exit roller |
| 2 | Paper exit sensor |
| 3 | Junction gate |

## Reverse tray/1 bin unit direction

1. Registration sensor switches ON.
2. The reverse motor switches ON (CCW).
3. Before the leading edge of the paper reaches the junction gate [A], the junction gate moves in the reverse tray/1 bin unit direction.

* If the junction gate is in the reverse tray/1 bin unit direction, the junction gate is not changed over.

4. After the trailing edge of the paper has left the fusing exit sensor [B], the exit junction solenoid switches OFF.
5. When the trailing edge of the paper leaves the reverse roller [C], the reverse motor switches OFF.


Paper Exit Full and Jam Detection

## The paper exit full sensor detects paper exit jam.

When outputs push up the paper exit full feeler, the paper exit full sensor detects that standard output tray is full of outputs and a jam message is displayed after a job end.

## Paper exit sensor

When a sheet of paper stays in the paper exit unit, the paper exit sensor detects the paper jam and a jam message is displayed.

## Paper Path and Sensor Locations



Intervals of Rollers

| Module | From | To | Interval (mm) |
| :--- | :--- | :--- | :--- |
| 1st Paper Feed Unit | Pick-up Roller (1st tray) | Feed Roller (1st tray) | 30.0 |
|  | Feed Roller (1st tray) | 1st Vertical Transport Roller | 43.0 |
|  | Pick-up Roller (2nd tray) | Feed Roller (2nd tray) | 30.0 |
|  | Feed Roller (2nd tray) | 2nd Vertical Transport Roller | 43.0 |
|  | 2nd Vertical Transport Roller | 1st Vertical Transport Roller | 96.9 |
| Registration Unit | 1st Vertical Transport Roller | Registration Roller | 84.8 |
|  | Registration Roller | Transfer Roller | 83.5 |
|  | Transfer Roller | Heating Sleeve Belt | 102.9 |
| Paper Exit Unit | Heating Sleeve Belt | Paper Exit Roller | 138.5 |
| Reverse Unit | Heating Sleeve Belt | Reverse Roller | 138.5 |

## 7.Detailed Descriptions

| Module | From | To | Interval (mm) |
| :--- | :--- | :--- | :--- |
| Duplex Unit | Reverse Roller | Duplex Entrance Roller 1 | 131.3 |
|  | Duplex Entrance Roller 1 | Duplex Entrance Roller 2 | 120.1 |
|  | Duplex Entrance Roller 2 | Duplex Transport Roller 1 | 89.6 |
|  | Duplex Transport Roller 1 | Duplex Transport Roller 2 | 84.0 |
|  | Duplex Transport Roller 2 | Duplex Exit Roller | 27.1 |
|  | Duplex Exit Roller | Registration Roller | 88.0 |
|  | Duplex Pick-up Roller | Duplex Feed Roller | 30.0 |
|  | Duplex Feed Roller | Duplex Transport Roller | 24.5 |
|  | Duplex Transport Roller | 1st Vertical Transport Roller | 56.0 |

Intervals of Sensors

| Module | From | To | Interval (mm) |
| :--- | :--- | :--- | :--- |
| 1st Paper Feed Unit | Feed Roller (1st tray) | 1st Paper Feed Sensor | 5.0 |
|  | 1st Vertical Transport Roller | 1st Vertical Transport Sensor | 16.8 |
|  | Feed Roller (2nd tray) | 2nd Paper Feed Sensor | 5.0 |
|  | 2nd Vertical Transport Roller | 2nd Vertical Transport Sensor | 24.3 |
|  | 2nd Vertical Transport Sensor | 1st Vertical Transport Sensor | 88.7 |
| Registration Unit | Registration Sensor | Registration Roller | 17.0 |
| Paper Exit Unit | Paper Exit Sensor | Paper Exit Roller | 17.0 |
| Reverse Unit | Reverse Roller | Reverse Sensor | 14.0 |
| Duplex Unit | Duplex Entrance Roller 1 | Duplex Entrance Sensor | 34.0 |
|  | Duplex Exit Roller | Duplex Exit Sensor | 17.1 |
| 1-bin Unit | Reverse Sensor | 1-bin Exit Roller | - |

## Air Flows (Fan Control)

## Overview

## Around the Development Unit / Laser Unit



| No. |  |
| :--- | :--- |
| 1 | Odor filter |
| 2 | Fusing fan Name |
| 3 | Paper exit fan |
| 4 | Development exhaust fan |
| 5 | Dust filter |

## 7.Detailed Descriptions

## Around the Fusing Unit and Development Unit



| No. |  |
| :--- | :--- |
| 1 | Odor filter |
| 2 | Fusing fan |
| 3 | Paper exit fan |
| 4 | Development bearing cooling fan (MP $4055 \mathrm{SP} / 5055 \mathrm{SP} / 6055 \mathrm{SP}$ only) |

## Around the PSU



## Mechanism

By installing the duct corresponding to each fan, the air flow is efficiently controlled to a cooling target.
Moreover, improvement in quietness and energy-saving efficiency is achieved by performing stepwise operation of the fan according to the imaging temperature.

Cooling of PSU
The PSU is cooled by the PSU cooling fan, cooling the PSU board directly. Note that the PCU cooling fan is installed on MP 4055 SP/5055 SP/6055 SP models only.

Cooling of Development Unit
The cooling for development unit is provided by a development bearing cooling fan that takes air in from the rear of the machine outside and applies the air to the bearing of mixing auger and bottom side of the development unit. Note that the development bearing cooling fan is installed on MP $4055 \mathrm{SP} / 5055 \mathrm{SP} / 6055 \mathrm{SP}$ models only.

## 7.Detailed Descriptions

Cooling of PCDU
Air taken in from the PCDU cleaning unit is taken out from the left rear exhaust. An air-flow duct is installed at between the fusing unit and the toner bottle, to suppress excessive temperature rise of the toner bottle.

Cooling of Fusing Unit
Air taken in from the paper exit fan at the front is discharged from the fusing fan at the rear to outside the machine. By cooling the paper immediately after fusing, it is used for not only cooling of the paper exit sensor but also reduction of stored heat of stack paper and reduction of curl are realized. This also serves to prevent dew condensation of the paper discharge guide sheet. As a measure against odor, an odor filter is installed downstream from the fusing fan.

Crisis management when temperature rises in the MFP
In order to suppress excessive temperature rise in the MFP and maintain equipment quality, a temperature detection sensor (imaging temperature sensor (thermistor)) [A] is installed in the MFP. The imaging temperature sensor (thermistor) detects the temperature environment in the MFP, and controls cooling operation ( $\mathrm{H}_{\mathrm{x}} \mathrm{x}$, x 1 ).


## Overview of cooling operation in the machine

The temperature in the machine is detected during output and after output, and the interior of the machine is cooled by fan operation (stepwise operation of fan, prolonged fan rotation after paper has passed through) according to the temperature inside the machine.

However, if the temperature inside the machine rises significantly due to passing a large volume of paper, in addition to fan operation, the CPM is specified to control the temperature in the machine.

## The Conditions of Fans Operation

The following table illustrates how/when the fans operate under the specific conditions of the main machine.

| Condition | Development <br> Exhaust Heat Fan | Paper Exit <br> Fan | Fusing Fan | Development Bearing <br> Cooling Fan*2 | PSU Cooling <br> Fan*2 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Warm-up | Stops | Stops | Stops | Stops | Stops |
| Standby | Rotates in low speed | Stops | Rotates in low <br> speed | Stops | Stops |
| During <br> printing | Rotates | Rotates | Rotates | Rotates | Rotates |
| After <br> printing | Rotates in low speed <br> $* 1$ | Stops*1 | Rotates in low <br> speed*1 | Stops*1 | Stops*1 |
| Abnormal <br> (Jams) | Stops | Stops | Stops | Stops | Stops |

*1 When the temperature in the machine reaches 45.5 degrees, these fans keep revolving until the temperature decreases by two degrees.
*2 MP $4055 \mathrm{SP} / 5055 \mathrm{SP} / 6055$ SP only

## Print Duty Control

1. The machine repeats a 16 -page-print and 25 -second-pause. The following two messages will alternatively appear on the operation panel.
"The printing speed is now being limited, because the internal cooling fan is active."
"Internal cooling fan is active."
2. All the fan motors in the machine works after printing and standby. The message will appear on the operation panel.
"Internal cooling fan is active."
3. If the temperature of the image processing unit reaches under the pre-set temperature, the machine turns to the normal control.

## Electrical parts

## Block diagram

For MP 2555 SP/3055 SP/3555 SP models


For MP 4055 SP/5055 SP/6055 SP models


Board outline
Controller
Controls the MFP system overall. Comprises an x86 CPU, controller ASIC, IO control ASIC, and RAM.
SBU
Read control circuit which performs analog signal processing and AD image conversion of the CCD read image. It also has an IPU I/F, and controls scanner input output signals according to CPU commands.

## 7.Detailed Descriptions

LDB
LD control circuit which drives the laser diode by a universal driver.
BCU
Controls the engine, as well as MFP engine sensor, motor and solenoid (The BCU has the IOB functions).

IPU
Processes digital signals by an IPU.

FCU
Controls the fax program.

OPU
Controls the control panel.

HVPS
Generates the high-voltage power required for process control. The HVPS consists of two units: TTS for transfer and CB for charging/developing.

PSU
Generates DC power from a commercial AC power supply, and supplies it to each control circuit. Comprises an $\mathrm{A} / \mathrm{C}$ drive circuit for controlling the fusing lamp.

Feed tray dehumidifier heater, Scanner/PCDU anti-condensation heater

Circuit configuration


If a heater is used in the main machine, it is required that the harness from the heater sub-board is connected to the BCU . When this harness is connected to the BCU, the supply power is controlled based on the main machine operation and the setting of SP5-805-001 as shown in the following table.

| Heater | $\begin{gathered} \text { SP5-805- } \\ 001 \end{gathered}$ | Plugin | Sleep <br> Mode | JAM/ <br> Door <br> Open/ <br> SC | Stand-by Mode/ <br> Fusing Unit Off <br> Mode | Printing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dehumidification Heater (Paper Feed Tray: Standard) | 0 (OFF) | On | On | Off | Off | Off |
|  | 1 (ON) | On | On | On | On | Off |
| Dehumidification Heater (Paper Feed Tray: Option) | 0 (OFF) | On | On | Off | Off | Off |
|  | 1 (ON) | On | On | On | On | Off |
| Anti-condensation heater (Scanner) | 0 (OFF) | On | On | Off | Off | Off |
|  | 1 (ON) | Disabled* |  |  |  |  |
| Anti-condensation heater | 0 (OFF) | On | On | Off | Off | Off |
| (PCDU) | 1 (ON) | Disable |  |  |  |  |

[^1]
## 7.Detailed Descriptions

- Malfunctions such as toner fixation
- Failure or deterioration of the stabilizer in the scanner due to temperature rise

H1

- As the heater circuit of this machine comprises of a single system, the machine cannot control the heaters for paper feed trays and for the main machine individually. If the SP is set to " 1 " (ON), all the heaters are turned on even though the machine is in "Sleep Mode" or "Fusing Unit Off Mode". Activating the anti-condensation heaters (Scanner and PCDU) in "Sleep Mode" or "Fusing Unit Off Mode" causes a part failure in the machine. Be sure to deactivate these heaters (Scanner and PCDU) beforehand.


## One-way Clutches

This machine adapts one-way clutches, used for paper feed mechanism.
Each one-way clutch locations are pointed below.


## Duplex



| No. |  |
| :--- | :--- |
| $(1)$ | Duplex exit roller |
| $(2)$ | Bypass Paper Feed Roller |
| $(3)$ | Bypass Pick-up Roller |

## 7.Detailed Descriptions

| No. |  |
| :--- | :--- |
| $(4)$ | Bypass Separation Roller Drive Shaft |
| $(5)$ | Bypass Separation Roller |

## Process Control

Image Density Control (Process Control)

Outline
Process control is a system that adjusts the image creation process to maintain a constant image density. Process control is executed at the following conditions.

|  | Trigger | Operative Condition | Notes |
| :---: | :---: | :---: | :---: |
| 1 | - Power ON <br> - Recovering from Energy Saver <br> - Closing the front cover | - When a certain time passes after the previous job end, and when a certain number of sheets are printed after the last process control at the previous Power ON, recovering from Energy Saver mode or closing the front cover. <br> - When a new PCDU is detected. <br> - When the TD sensor detects a toner end before turning the power on. | No retry if an SC occurs during adjusting. |
| 2 | Job End | When the job end counter becomes more than the threshold. | - Process <br> Control clears the Job end counter. |
| 3 | Job Interruption | When the job interrupt counter becomes more than the threshold. | Process control clears the job interrupt counter |
| 4 | Non-use (Idle) | - When the non-use time counter becomes more than the threshold. <br> - When significant environmental changes occur after the last job end. | Available only when the energy saver mode is off. |
| 5 | Manual process control | When SP 3-011-001 is executed. | - |

The process control consists of the following features.

- Potential Control (Charge/Development Bias and LD power Control)
- Vtref Compensation


## Flowchart: From Process Control to Printing



Potential Control
Potential Control adjusts Charge/Development bias and LD power to maintain a constant image output.
Charge roller, development roller, OPC drum and laser unit involve with imaging process.
Charge bias (Vc) is a bias for charge roller. Applying a charge bias to the OPC drum increases the potential of the OPC drum.
Development bias $(\mathrm{Vb})$ is a bias for development roller. When a development bias is applied to developer (carrier), the OPC drum which is charged the opposite bias from development part attracts toner.

Development potential $(\mathrm{Vd}-\mathrm{Vb})$ is the ability to attract the toner to the OPC drum. A larger development potential increases the amount of toner adhesion.
In image density adjusting, the potential control process creates an ID pattern patch using the "bias for ID pattern creation" which has a lower density and lower Charge/Development bias than for printing.

With the results of Vsp (the ID sensor output from ID pattern patch) and Vsg (the ID sensor output from bare surface of the OPC drum), the potential control process adjusts the development bias so that the amount of toner adhesion becomes a specified target value.
Charge/Development Bias is done with the following operation. The operation time differs depending on the line speed.

- ID sensor Vsg Adjustment

The machine adjusts the LED strength of the ID sensor so that the value of Vsg (the charge which is detected from the bare surface of the OPC drum) is in the range of $4.0 \mathrm{~V} \pm 0.5 \mathrm{~V}$. When Vsg is detected as not within the target range three times, SC370 (ID sensor error) appears.

- Developer Stirring ( 0 to 5 seconds)

The machine agitates the developer and reads the $\mu$ sensor output.

- Bias Compensation

The machine compensates the development bias $(\mathrm{Vb})$ using the $\mathrm{Vsp} / \mathrm{Vsg}$ ratio. The machine also
compensates charge bias (Vc) and LD power based on the Vb result.

| Vsp/Vsg | Toner Density | Vb Compensation SP |
| :--- | :--- | :--- |
| High | High | SP3-235-011 |
| Slightly high | Slightly high | SP3-235-012 |
| Correct | Correct | SP3-235-013 |
| Slightly low | Slightly low | SP3-235-014 |
| Low | Low | SP3-235-015 |

Fig. 1: Relation b/w Dev. bias and Toner adhesion amount


How: 1HAlte

## Vtref Compensation

To maintain a constant/proper toner density, the toner density in the developer must be controlled as well as the bias control. Vtref is the target of the toner density in the developer.

- Vtref Determination

With the output of ID sensor and $\mu$ sensor in ID sensor detection, the machine determines the Vtref used for the reference value for $\mu$ sensor.

TD Sensor Initial Setting When a New PCDU Is Installed
When a new PCDU is set in the mainframe, this is detected by the machine as a new PCDU, and the initial $\mu$ count (the output from the $\mu$ sensor of initial developer setting) is determined after entering the TD sensor initial setting mode. The TD sensor initial setting is done as follows.

- $\quad$ Starting the developer initial setting

The new unit detecting mechanism performs the TD sensor initial setting.

- Developer Agitation

The developer is stirred, with the development roller and the transport coil rotating (30 seconds).

## 7.Detailed Descriptions

- Initial $\mu$ Count Detection

The machine detects the $\mu$ sensor output while mixing the developer, and stores the output as the initial $\mu$ count. The followings are the stored data location in machine types.

- MP 2555 SP/3055 SP: SP3-030-062 Initial $\mu$ count (Line speed 3)
- MP 3555 SP/4055 SP: SP3-030-121 Initial $\mu$ count (Line speed 2)
- MP 5055 SP/6055 SP: SP3-030-061 Initial $\mu$ count (Line speed 1)
- Vt Calculation

The machine refers to the initial $\mu$ count with the above SP according to the machine type and calculates Vt with the difference of the present $\mu$ count.

- If the initial $\mu$ count detected is out of the upper/lower output limit, the machine displays a TD sensor calibration error (SC360-01).
- After replacing an AIT and performing the initial TD sensor setting, the machine forcibly executes the process control.


## Mechanism

Sensor Composition

| Sensor | Description |
| :--- | :--- |
| ID sensor | Used to measure the amount of toner that adhered on the OPC drum |
| TD Sensor | Used to measure the toner density in the developer |

ID Sensor
An ID sensor consists of a light-receiving element located at the opposite position of LED.
It detects the amount of toner adhered using reflection from the LED.


ID sensor is fixed in the right cover of the mainframe and detects the patch density formed on the center of the OPC drum.


In this model, a non-contact toner density (TD) sensor, which we call $\mu$ sensor, is used for the toner density control.

The TD sensor is attached on the lower side of the development unit. Unlike HST sensor, the board of TD sensor is exposed. So there is a cover around the sensor to protect the sensor and to maintain a good contact condition of the sensor and development unit.

The TD sensor measures the permeability of the developer without contacting from outside of the case, and converts the measured value to the toner density.
According to the toner density measured by this sensor, the proper amount of toner is supplied to the developer.
A counter corresponding to the frequency is used as the unit of TD sensor output. Thus, unlike HST sensor which directly detects Vt , the TD sensor output is converted into Vt for the toner supply control.
In the TD sensor, there is an ID chip storing the machine identification information, the running distance information of Development unit and PCU, and other information used by the image density control.

## 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.

Setting items that are related to Energy Saving
The user can set these timers with User Tools (System settings > Timer setting)

## Sleep Mode Timer

User Tools (System settings > Timer setting)
After a specified period has passed, or [Energy Saver] is pressed, the machine enters Sleep mode in order to conserve energy. Specify the time to elapse before Sleep mode.

Default: [1 minute(s)]
Sleep Mode Timer may not work when error messages appear.
Depending on which Embedded Software Architecture application is installed on it, the machine might take longer than indicated to enter Sleep mode.

## Fusing Unit Off Mode (Energy Saving) On/Off

User Tools (System settings > Timer setting)
Specifies whether Fusing Unit Off mode is enabled or not.
When Fusing Unit Off mode is enabled, the display is on but the fusing unit is off to save energy.
The machine requires roughly the same time as warm-up time to recover from Fusing Unit Off mode.

## Default: [Off]

If [Fusing Unit Off Mode (Energy Saving) On/Off] is set to [On], you can specify when to exit Fusing Unit Off mode and the time to elapse before entering Fusing Unit Off mode.
If [Exit Fusing Unit Off Mode] is set to [On Printing], the machine exits Fusing Unit Off mode when printing is performed.

If [Exit Fusing Unit Off Mode] is set to [On Operating Control Panel], the machine exits Fusing Unit Off mode when a key other than the copy function key is pressed on the control panel of the machine.
If printing is performed with the copy function or a key in the copy function is pressed on the control panel of the machine, the machine exits Fusing Unit Off mode regardless of this setting. If the timer is set to [On], you can set the time from 10 seconds to 240 minutes, using the number keys.

## Energy Saving Recvry. for Business Applicatn.

User Tools (System settings > General Settings)
Specify whether or not to enable low-energy recovery from Sleep mode to use applications independent of the machine, such as Address Book Management or Browser.
Default: [Off]
If [On (Energy Saving)] is selected, it takes longer than usual to be ready to use the machine.
Recovery Time/Reduced Electrical Consumption

## Reduced electrical consumption in Sleep mode

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| mainly Europe and Asia | 0.84 W | 0.84 W | 0.84 W | 0.82 W | 0.82 W | 0.82 W |
| mainly North America | 0.74 W | 0.74 W | 0.74 W | 0.79 W | 0.79 W | 0.79 W |

## Recovery time from Sleep mode

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| mainly Europe and Asia | 7.9 sec. | 7.9 sec. | 7.9 sec. | 8.0 sec. | 8.4 sec. | 8.8 sec. |
| mainly North America | 7.9 sec. | 7.9 sec. | 7.9 sec. | 7.9 sec. | 8.2 sec. | 8.7 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.

Power States of this Machine


". $=$ ". . ."

|  | State | Description |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | Standby/Printing | $\begin{array}{l}\bullet \\ \bullet \\ \mathbf{\bullet}\end{array}$ | $\begin{array}{l}\text { Printing state/Panel where normal operation is possible after warm-up } \\ \text { OFF }\end{array}$ | \(\left.\begin{array}{l}State when printing with the backlight of the operation panel turned off <br>

\hline \mathbf{3} <br>
Fusing OFF\end{array} $$
\begin{array}{l}\text { State where the Standby Fusing OFF state is entered when the time set with the } \\
\text { "Fusing Unit Off Mode (Energy Saving) On/Off" setting of the User Tools has } \\
\text { elapsed. } \\
\bullet \\
\text { - State where the operation panel is flashing and the fusing heater is OFF. }\end{array}
$$\right\}\)

|  | State | Description |
| :---: | :---: | :---: |
|  |  | "Sleep Mode Timer" of the User Tools has elapsed. This is a temporary energy saving state before entering sleep mode. <br> - Basically, no homing (initialization) of peripheral devices is performed. <br> - The bottom plate of the paper feed tray is raised. <br> - The fusing heater is turned OFF. |
| 5 | Engine OFF (Sleep mode) | Entered from Quiet state with internal timer. <br> - The relevant power systems $(24 \mathrm{~V}, 12 \mathrm{~V}, 5 \mathrm{~V})$ are turned OFF at the same time as the fusing heater. <br> - When receiving a fax or printing is performed in engine OFF state, warm-up is started and printing is performed while the backlight of the operation panel is turned OFF. |
| 6 | STR state (Sleep mode) | Supplying of power and clock to the CPU and peripheral chips on the controller board is stopped. |
| 7 | Pre-recovery | The Pre-recovery state is entered from STR state when the Proximity Sensor detects presence of a person. <br> This is the Energy Saving state where the power of the operation panel and HDD is ON and the power of the engine is OFF, but the backlight of the operation panel LCD is off. |

## Device state for each Energy Saving state

| State | Energy Saving LED | Operation <br> panel <br> LCD | Engine (Printer/Scanner) | HDD | CTL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Standby/Printing | ON | ON | ON | ON | ON |
| Printing state/Panel OFF | ON | OFF | ON <br> (Only scanner is in Quiet state) | ON | ON |
| fusing OFF | ON | ON | ON <br> (Both printer/scanner are in <br> Quiet state) | ON | ON |
| Quiet state | ON | OFF <br> ON*1 | ON <br> (Both printer/scanner are in <br> Quiet state) | ON | ON |
| Engine OFF | Blinking <br> gradually $\mathrm{ON} * 1$ | Sleep <br> OFF or $\mathrm{ON} * 1$ | OFF | $\begin{aligned} & \text { OFF } \\ & \mathbf{O N * 1} \end{aligned}$ | ON |
| STR state | Blinking gradually | Sleep | OFF | OFF | STR |
| Pre-recovery | ON | OFF | OFF | ON | ON |

## 7.Detailed Descriptions

| State | Energy Saving <br> LED | Operation <br> panel <br> LCD | Engine <br> (Printer/Scanner) | HDD | CTL |
| :--- | :---: | :---: | :--- | :--- | :--- |
|  |  | $\mathbf{O N * 1}$ |  |  |  |

*1 When [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)], ON/OFF is determined by the internal timer of the Smart Operation Panel.

## Transition of operation panel to Energy Saving when [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)]

Normally, the Energy Saving state of the operation panel LCD changes in step with the energy saving state of the MFP/LP main unit, but to support the scenario where an application that does not use the engine (printer/scanner) is executed from the operation panel, the Energy Saving state of the operation panel is transitioned through the three states ON, OFF, and Sleep with its internal timer when [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)].

## Verification of Up Time for each Energy Saving State

The up time for each power state of the machine can be checked with SP8-961 (Electricity Status). It is also output on the SMC sheet.

| SP | Name | Description |
| :--- | :--- | :--- |
| SP8-961- <br> 001 | Ctrl Standby Time | Cumulative time of Engine OFF mode, Quiet mode, and Standby mode |
| SP8-961- <br> 002 | STR Time | Cumulative time of STR mode |
| SP8-961- <br> 003 | Main Power Off <br> Time | Cumulative time of state in which the power plug is connected to the <br> outlet but the main power is off |
| SP8-961- <br> 004 | Reading and <br> Printing Time | Cumulative time of state in which both the plotter engine and scanner <br> engine are running or warming up |
| SP8-961- <br> 005 | Printing Time | Cumulative time of the state in which the plotter engine is running |
| SP8-961- <br> 006 | Reading Time | Cumulative time of the state in which the scanner engine is running |
| SP8-961- <br> 007 | Eng Waiting Time | Cumulative time of state in which the power state of the engine is Standby <br> state |
| SP8-961- <br> 008 | Low Power State <br> Time | Not used for this machine |
| SP8-961- <br> 009 | Quiet State Time | Cumulative time of the state in which the power state of the engine is <br> Quiet state |
| SP8-961- | Heater Off State | Cumulative time of the state in which the power state of the engine is |


| SP | Name | Description |
| :--- | :--- | :--- |
| 010 | Time | Fusing OFF state |
| SP8-961- <br> 011 | LCD on Time | Cumulative time of the state in which the backlight of the LCD is on. |

## Checking the Up time by Device State

SP 8941 (Machine Status) keeps a record of the amount of time that the machine spends in each mode.

|  |  |  |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { SP8-941- } \\ & 001 \end{aligned}$ | Operation <br> Time | Cumulative time of the state in which the engine state notification is enabled. The state in which the engine is not running (such as when storing to HD only with the controller) is excluded from the running state. |
| $\begin{aligned} & \text { SP8-941- } \\ & 002 \end{aligned}$ | Standby Time | Cumulative time of the state in which the engine state is not running. |
| $\begin{aligned} & \text { SP8-941- } \\ & 003 \end{aligned}$ | Low Power Time | Not used for this machine |
| $\begin{aligned} & \text { SP8-941- } \\ & 004 \end{aligned}$ | Sleep mode time | Cumulative time in Sleep Mode state. |
| $\begin{aligned} & \text { SP8-941- } \\ & 005 \end{aligned}$ | Off Mode Time | Cumulative time in which the Energy Saving state of the device is Engine OFF state. |
| $\begin{aligned} & \text { SP8-941- } \\ & 006 \text { to } 009 \end{aligned}$ | Down time | Cumulative time in which the device is disabled because itself or its component is in the following state. <br> - SP8-941-006: SC (excluding mode SC) <br> - SP8-941-007: Jam (plotter) <br> - SP8-941-008: Jam (scanner) <br> - SP8-941-009: Supply/PM unit end |

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 customer's 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 SP8-941-001 to 005.
- At the end of the measurement period, read the values of SP8-941-001 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)


## Recommendation

We recommend that the default settings related to energy saving 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.


## Adobe PS vs. Clone PS

## Overview

This machine is equipped with a clone program for emulating Adobe PostScript/PDF (hereafter "Clone PS") as a standard feature. So, by default, it can perform printing using PostScript 3 and PDF Direct Print, in addition to RPCS.

- What is Clone PS?

Based on the specifications of PostScript/PDF languages developed by Adobe, clone programs for interpretation of PostScript and PDF documents have been created by various companies other than Adobe. While the original program sold by the developer of the language is named Adobe PS, compatible programs made by other manufacturers are called clones. Strictly speaking, these clones must be fully compatible with the original program; however, they are called clones even if they have some differences, because they cannot completely imitate the original.

Clone PS is basically designed to perform similar functions to Adobe PS, except for several differences such as inability to use Adobe fonts.


- Adobe PS, previously offered as an optional product for past models, is available again as an option. (It comes in an SD card, as was the case for former models.)
- Clone PS and Adobe PS cannot be run simultaneously.
- The same printer driver can be used for Clone PS and Adobe PS.
- Clone PS emulates Adobe PostScript 3 version 3017. (The version of Adobe PS used in the SD card option is v. 3018.)
- For the PDF Direct Print function, Clone PS emulates Adobe PDF version 1.7.


## How to Distinguish Adobe PS from Clone PS

In the operation panel screen, it is difficult to tell whether Adobe PS or Clone PS is in use.
Both "PS3" and "PDF" are shown on the screen, regardless of whether Adobe PS or Clone PS is used.
Identification can be done as follows:

- Configuration Page

The description of the Firmware Version listed on the page varies as shown below:

| PS type | Description of Firmware Version |
| :--- | :--- |
| Adobe PS | RPCS [x.xx.xx] Adobe PostScript 3 [x.xx], Adobe PDF [x.xx] |
| Clone PS | RPCS [x.xx.xx] PS3 [x.xx], PDF [x.xx] |

## 7.Detailed Descriptions

The manufacturers name "Adobe" is shown in the list if Adobe PS is used.

- PS Configuration / Font Page

The "Adobe" logo is printed on the page if Adobe PS is used.


- Web Image Monitor

Go to Status/Information > Device Info, and open the Printer Language menu.
If Adobe PS is used, the screen shows the program name "Adobe PostScript 3" and "Adobe PDF".


- Operation Panel: Firmware Version

User Tools $>$ Machine Features $>$ System Settings $>$ Administrator Tools $>$ Firmware Version When PostScript3 Unit Type M29(Adobe PS) is installed:


## Clone PS only:



| No. | Module Name | Description |
| :--- | :--- | :--- |
| 1 | PDF (1st <br> page) | The Clone PS firmware number appears. <br> The clone PS firmware number starts with "D289". |
| 2 | PDF (2nd <br> page) | The Adobe PS firmware number "D3DW5733" appears. <br> This module name appears in the firmware list only if PostScript3 Unit Type M29 <br> is installed. |
| 3 | PS3 (Left) | The Clone PS firmware number appears. <br> The clone PS firmware number starts with "D289". |
| 4 | PS3 (Right) | The Adobe PS firmware number "D3DW5731". <br> This module name appears in the firmware list only if PostScript3 Unit Type M29 <br> is installed. |

- Font Change Confirmation screen

The "Font Change Confirmation" screen is accessible only when Clone PS is used.
On the Home screen, select the User Tools icon $>$ Machine Features $>$ Printer Features $>$ PS Menu $>$ Font Change Confirmation.


## Difference in Device Fonts

The variety and number of built-in fonts (device fonts) differ between Adobe PS and Clone PS.

| PS type | Number of European fonts |
| :--- | :--- |
| Adobe PS | 136 fonts |
| Clone PS | 93 fonts |

For license reasons, the device fonts for Adobe PS cannot be handled by Clone PS. Instead, Clone PS is equipped with fonts similar to Adobe device fonts under different names; when an Adobe PS font is specified in the data to be printed, Clone PS will replace it with a similar font.
Use of a substitute font sometimes leads to different printing results, as shown in the table below.

## Example 1

| PS type |  | Helvetica |
| :--- | :--- | :--- |
| Adobe <br> PS |  |  |
| Clone |  |  |
| PS |  |  |

## Example 2

| PS type |  | LetterGothic |
| :--- | :--- | :--- |
| Adobe <br> PS |  |  |
| Clone <br> PS | When LetterGothic is originally used, Clone PS substitutes it with LetterGothic-Regular. In this <br> case, the character spacing differs from that in the original data. |  |

## Example 3

| PS type | Chicago |
| :---: | :---: |
| Adobe PS |  |
| $\begin{aligned} & \text { Clone } \\ & \text { PS } \end{aligned}$ |  |
|  | Clone PS does not support alternative fonts for Chicago; instead, the Courier font (*) is used. (The font shape differs significantly from Chicago.) <br> * Since Courier itself is named among the Adobe PS device fonts, Clone PS substitutes it with an alternative font, NimbusMonoPS-Regular. |

## Font Change Confirmation Screen

Clone PS itself incorporates no Adobe fonts in it, and therefore replaces them with similar fonts when Adobe PS fonts are specified in the print data output to the printer.

However, there is a possibility that a substitute font not desired by the customer may be used; to cope with this issue, the operation panel shows a confirmation screen whenever an Adobe font is to be replaced by a similar font.


If the customer often prints data containing Adobe fonts that are almost the same in terms of spacing and shape as their substitutes, the confirmation screen appears every time printing is performed, making the printing operation cumbersome. In such a case, the font change confirmation screen can be hidden.

- User Tools icon on Home screen > Machine Features > Printer Features > PS Menu > Font Change

Confirmation


List of fonts and their replacements (Adobe PS -> Clone PS)

| No. | Adobe PS | Clone PS |
| :---: | :--- | :--- |
| 1 | Courier | NimbusMonoPS-Regular |

7.Detailed Descriptions

| No. | Adobe PS | Clone PS |
| :---: | :---: | :---: |
| 2 | Courier-Bold | NimbusMonoPS-Bold |
| 3 | Courier-BoldOblique | NimbusMonoPS-BoldItalic |
| 4 | Courier-Oblique | NimbusMonoPS-Italic |
| 5 | Helvetica | NimbusSans-Regular |
| 6 | Helvetica-Bold | NimbusSans-Bold |
| 7 | Helvetica-BoldOblique | NimbusSans-BoldOblique |
| 8 | Helvetica-Oblique | NimbusSans-Oblique |
| 9 | Symbol | StandardSymL |
| 10 | Times-Bold | NimbusRoman-Bold |
| 11 | Times-BoldItalic | NimbusRoman-BoldItalic |
| 12 | Times-Italic | NimbusRoman-Italic |
| 13 | Times-Roman | NimbusRoman-Regular |
| 14 | AlbertusMT | NimbusMonoPS-Regular |
| 15 | AlbertusMT-Italic | NimbusMonoPS-Regular |
| 16 | AlbertusMT-Light | NimbusMonoPS-Regular |
| 17 | AntiqueOlive-Roman | NimbusMonoPS-Regular |
| 18 | AntiqueOlive-Italic | AntiqueOlive-Italic |
| 19 | AntiqueOlive-Bold | AntiqueOlive-Bold |
| 20 | AntiqueOlive-Compact | NimbusMonoPS-Regular |
| 22 | Apple-Chancery | NimbusMonoPS-Regular |
| 22 | ArialMT | NimbusSansNo2-Regular |
| 23 | Arial-ItalicMT | NimbusSansNo2-Italic |
| 24 | Arial-BoldMT | NimbusSansNo2-Bold |
| 25 | Arial-BoldItalicMT | NimbusSansNo2-BoldItalic |
| 26 | AvantGarde-Book | URWGothic-Book |
| 27 | AvantGarde-BookOblique | URWGothic-BookOblique |
| 28 | AvantGarde-Demi | URWGothic-Demi |
| 29 | AvantGarde-DemiOblique | URWGothic-DemiOblique |
| 30 | Bodoni | NimbusMonoPS-Regular |
| 31 | Bodoni-Italic | NimbusMonoPS-Regular |
| 32 | Bodoni-Bold | NimbusMonoPS-Regular |
| 33 | Bodoni-BoldItalic | NimbusMonoPS-Regular |
| 34 | Bodoni-Poster | NimbusMonoPS-Regular |
| 35 | Bodoni-PosterCompressed | NimbusMonoPS-Regular |
| 36 | Bookman-Light | URWBookman-Light |
| 37 | Bookman-LightItalic | URWBookman-LightItalic |
| 38 | Bookman-Demi | URWBookman-Demi |


| No. | Adobe PS | Clone PS |
| :---: | :---: | :---: |
| 39 | Bookman-DemiItalic | URWBookman-DemiItalic |
| 40 | Carta | NimbusMonoPS-Regular |
| 41 | Chicago | NimbusMonoPS-Regular |
| 42 | Clarendon | NimbusMonoPS-Regular |
| 43 | Clarendon-Light | NimbusMonoPS-Regular |
| 44 | Clarendon-Bold | NimbusMonoPS-Regular |
| 45 | CooperBlack | NimbusMonoPS-Regular |
| 46 | CooperBlack-Italic | NimbusMonoPS-Regular |
| 47 | Copperplate-ThirtyTwoBC | NimbusMonoPS-Regular |
| 48 | Copperplate-ThirtyThreeBC | NimbusMonoPS-Regular |
| 49 | Coronet-Regular | NimbusMonoPS-Regular |
| 50 | Eurostile | NimbusMonoPS-Regular |
| 51 | Eurostile-Bold | NimbusMonoPS-Regular |
| 52 | Eurostile-ExtendedTwo | NimbusMonoPS-Regular |
| 53 | Eurostile-BoldExtendedTwo | NimbusMonoPS-Regular |
| 54 | Geneva | NimbusMonoPS-Regular |
| 55 | GillSans | NimbusMonoPS-Regular |
| 56 | GillSans-Italic | NimbusMonoPS-Regular |
| 57 | GillSans-Bold | NimbusMonoPS-Regular |
| 58 | GillSans-BoldItalic | NimbusMonoPS-Regular |
| 59 | GillSans-Condensed | NimbusMonoPS-Regular |
| 60 | GillSans-BoldCondensed | NimbusMonoPS-Regular |
| 61 | GillSans-Light | NimbusMonoPS-Regular |
| 62 | GillSans-LightItalic | NimbusMonoPS-Regular |
| 63 | GillSans-ExtraBold | NimbusMonoPS-Regular |
| 64 | Goudy | NimbusMonoPS-Regular |
| 65 | Goudy-Italic | NimbusMonoPS-Regular |
| 66 | Goudy-Bold | NimbusMonoPS-Regular |
| 67 | Goudy-BoldItalic | NimbusMonoPS-Regular |
| 68 | Goudy-ExtraBold | NimbusMonoPS-Regular |
| 69 | Helvetica-Condensed | NimbusMonoPS-Regular |
| 70 | Helvetica-Condensed-Oblique | NimbusMonoPS-Regular |
| 71 | Helvetica-Condensed-Bold | NimbusMonoPS-Regular |
| 72 | Helvetica-Condensed-BoldObl | NimbusMonoPS-Regular |
| 73 | Helvetica-Narrow | NimbusSansNarrow-Regular |
| 74 | Helvetica-Narrow-Oblique | NimbusSansNarrow-Oblique |
| 75 | Helvetica-Narrow-Bold | NimbusSansNarrow-Bold |

## 7.Detailed Descriptions

| No. | Adobe PS | Clone PS |
| :---: | :---: | :---: |
| 76 | Helvetica-Narrow-BoldOblique | NimbusSansNarrow-BoldOblique |
| 77 | HoeflerText-Regular | NimbusMonoPS-Regular |
| 78 | HoeflerText-Italic | NimbusMonoPS-Regular |
| 79 | HoeflerText-Black | NimbusMonoPS-Regular |
| 80 | HoeflerText-BlackItalic | NimbusMonoPS-Regular |
| 81 | HoeflerText-Ornaments | NimbusMonoPS-Regular |
| 82 | JoannaMT | NimbusMonoPS-Regular |
| 83 | JoannaMT-Italic | NimbusMonoPS-Regular |
| 84 | JoannaMT-Bold | NimbusMonoPS-Regular |
| 85 | JoannaMT-BoldItalic | NimbusMonoPS-Regular |
| 86 | LetterGothic | LetterGothic-Regular |
| 87 | LetterGothic-Slanted | NimbusMonoPS-Regular |
| 88 | LetterGothic-Bold | LetterGothic-Bold |
| 89 | LetterGothic-BoldSlanted | NimbusMonoPS-Regular |
| 90 | LubalinGraph-Book | NimbusMonoPS-Regular |
| 91 | LubalinGraph-BookOblique | NimbusMonoPS-Regular |
| 92 | LubalinGraph-Demi | NimbusMonoPS-Regular |
| 93 | LubalinGraph-DemiOblique | NimbusMonoPS-Regular |
| 94 | Marigold | Mauritius-Regular |
| 95 | Monaco | NimbusMonoPS-Regular |
| 96 | MonaLisa-Recut | NimbusMonoPS-Regular |
| 97 | NewCenturySchlbk-Roman | URWCenturySchoolbook-Roman |
| 98 | NewCenturySchlbk-Italic | URWCenturySchoolbook-Italic |
| 99 | NewCenturySchlbk-Bold | URWCenturySchoolbook-Bold |
| 100 | NewCenturySchlbk-BoldItalic | URWCenturySchoolbook-BdIta |
| 101 | NewYork | NimbusMonoPS-Regular |
| 102 | Optima | NimbusMonoPS-Regular |
| 103 | Optima-Italic | NimbusMonoPS-Regular |
| 104 | Optima-Bold | NimbusMonoPS-Regular |
| 105 | Optima-BoldItalic | NimbusMonoPS-Regular |
| 106 | Oxford | NimbusMonoPS-Regular |
| 107 | Palatino-Roman | Palladio-Roman |
| 108 | Palatino-Italic | Palladio-Italic |
| 109 | Palatino-Bold | Palladio-Bold |
| 110 | Palatino-BoldItalic | Palladio-BoldItalic |
| 111 | StempelGaramond-Roman | NimbusMonoPS-Regular |
| 112 | StempelGaramond-Italic | NimbusMonoPS-Regular |


| No. | Adobe PS | Clone PS |
| :---: | :---: | :---: |
| 113 | StempelGaramond-Bold | NimbusMonoPS-Regular |
| 114 | StempelGaramond-BoldItalic | NimbusMonoPS-Regular |
| 115 | Tekton | NimbusMonoPS-Regular |
| 116 | TimesNewRomanPSMT | NimbusRomanNo9-Regular |
| 117 | TimesNewRomanPS-ItalicMT | NimbusRomanNo9-Italic |
| 118 | TimesNewRomanPS-BoldMT | NimbusRomanNo9-Bold |
| 119 | TimesNewRomanPS-BoldItalicMT | NimbusRomanNo9-BoldItalic |
| 120 | Univers | NimbusMonoPS-Regular |
| 121 | Univers-Oblique | NimbusMonoPS-Regular |
| 122 | Univers-Bold | URWClassicSans-Bold |
| 123 | Univers-BoldOblique | NimbusMonoPS-Regular |
| 124 | Univers-Light | NimbusMonoPS-Regular |
| 125 | Univers-LightOblique | NimbusMonoPS-Regular |
| 126 | Univers-Condensed | NimbusMonoPS-Regular |
| 127 | Univers-CondensedOblique | NimbusMonoPS-Regular |
| 128 | Univers-CondensedBold | NimbusMonoPS-Regular |
| 129 | Univers-CondensedBoldOblique | NimbusMonoPS-Regular |
| 130 | Univers-Extended | NimbusMonoPS-Regular |
| 131 | Univers-ExtendedObl | NimbusMonoPS-Regular |
| 132 | Univers-BoldExt | NimbusMonoPS-Regular |
| 133 | Univers-BoldExtObl | NimbusMonoPS-Regular |
| 134 | Wingdings-Regular | URWDingbats |
| 135 | ZapfChancery-MediumItalic | URWChancery-MediumItalic |
| 136 | ZapfDingbats | Dingbats |

## Differences in Driver Functions

As shown below, there are differences in available driver functions between Adobe PS and Clone PS.

1. Font Substitution Table (Applicable only to driver for Windows OS)

Start $>$ Device and Printer $>$ Printer Properties $>$ Device Settings
For Clone PS, the Font Substitution Table under the Device Settings menu will not be displayed. Clone PS has font substitution table data similar to that of Adobe PS, and performs font replacement as appropriate.
To disable font replacement, go to Printing Preferences > Detailed Settings > "Print Quality: Option" > "True Type Font:" option, and select "Download as SoftFont".

2. Fonts used for unauthorized copy prevention (Common to drivers for Windows OS and Mac OS X) The watermark text used for unauthorized copy prevention consists of a device font. The range of available fonts varies between Adobe PS and Clone PS because of the difference in available device fonts.
Adobe PS provides a choice from 136 fonts while 3 fonts are selectable for Clone PS.

3. "User Setting" for dithering (Common to drivers for Windows OS and Mac OS X)

Clone PS ignores the "User Setting" option for dithering and performs dithering in the same manner as when the "Automatic" setting $\left({ }^{*}\right)$ is selected.


* "Text Priority" is selected for text, and "Photo" for graphic objects and image objects.

In the driver menu for Mac OS X, the "User Setting" option is shown at half brightness and cannot be selected.

# MP 2555/3055/3555/4055/5055/6055 Machine Code: D284/D285/D286/D287/D288/D289 <br> Appendices <br> Ver 1.0 

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## 1. Specifications

## Machine Specifications

## Mainframe

| Item | Spec. |
| :---: | :---: |
| Configuration | Desktop |
| Hard disk | 320 GB |
| Photosensitivity type | OPC drum |
| Original scanning | One-dimensional solid-state scanning system through CCD |
| Copy process | Laser beam scanning and electro-photographic printing |
| Development | Laser beam scanning and electro-photographic printing |
| Fusing | Direct Heating (DH) fusing |
| Resolution | - Scanning originals: 600 dpi <br> - Printing: 600 dpi |
| Exposure glass | Stationary original exposure type |
| Original reference position | Rear left corner |
| Warm-up time ( $23^{\circ} \mathrm{C}$ ( $73.4^{\circ} \mathrm{F}$ ), rated voltage) | - Normal mode: 54 seconds <br> - Quick mode: 20 seconds |
| Originals | Sheet, book, three-dimensional object |
| Maximum original size | - NA: 11x17 SEF <br> - EU/Asia: A3 SEF |
| Paper size (Tray 1-4) | Plain Paper 1-Thick Paper 4 <br> (Paper sizes that can be detected automatically.) <br> - NA <br> A4 SEF, A5 LEF,B5 JIS SEF, 11 x 17 SEF, $8 \frac{1}{2}$ " x 14 SEF, $8 \frac{1}{2}$ " x 11 <br> SEF/LEF, $7^{1 / 4 " \times 101 / 2 " L E F, ~} 81 / 2 " \times 13^{2} /{ }^{2}$ " SEF <br> - EU/Asia <br> A3 SEF, A4 SEF/LEF, A5 LEF, B4 JIS SEF,B5 JIS SEF/LEF, 8 1/2" x11 SEF <br> Plain Paper 1-Thick Paper 4 <br> (Select the paper size using the Tray Paper Settings menu. Adjust the supporting side fence before loading B4 JIS SEF, A3 SEF, or 11x17 SEF paper into Trays 3-4.) <br> - NA <br> A3 SEF, A4 LEF, A5 SEF, A6 SEF, B4 JIS SEF,B5 JIS LEF, B6 JIS SEF, $8^{1 / 2 "} \times 14$ SEF, $8 \frac{1}{2} / 2^{\prime \prime} \times 13 \mathrm{SEF}, 8 \frac{1}{4} " \mathrm{x} 13 \mathrm{SEF}, 8 \mathrm{x} 13 \mathrm{SEF}, 8 \mathrm{x} 10 \mathrm{SEF}, 7$ |


| Item | Spec. |
| :---: | :---: |
|  | $1 / 4 " \times 10^{1 / 2} / 2$ SEF, $51 / 2 " \times 81 / 2 "$ SEF, 8 K SEF, 16 K SEF/LEF, 11x15 SEF, 10x14 SEF <br> - EU/Asia <br> A5 SEF, A6 SEF, B6 JIS SEF, $11 \times 17$ SEF, $8 \frac{1}{2}$ " x14 SEF, $8 \frac{1}{2} / 2 \times 13 \mathrm{SEF}$, <br>  <br> $1 / 4 " \times 10^{1 / 2 "}$ "SEF/LEF, $51 / 2 " \times 81 / 2 "$ SEF, 8 K SEF, 16 K SEF/LEF, $11 \times 15$ <br> SEF, 10x14 SEF, $81 / 2 " \times 13^{2} / 5^{\prime \prime}$ SEF <br> Custom size <br> When loading paper with a vertical length of more than $279.4 \mathrm{~mm}(11.0$ inches) in Tray 1, use paper that has a horizontal width of $420 \mathrm{~mm}(16.6$ inches) or less. <br> - NA <br> Vertical: 3.55-11.69 inches <br> Horizontal: 5.83-17.00 inches <br> - EU/Asia <br> Vertical: 90.0-297.0 mm <br> Horizontal: 148.0-431.8 mm <br> Envelopes <br> $4^{1 / 8 "} \times 9^{1 / 2 "}$ SEF/LEF, $3^{7 / 8 "} \times 7{ }^{1 / 2 "}$ SEF, C5 Env SEF/LEF, C6 Env SEF/LEF, DL Env SEF/LEF |
| Paper size (Bypass tray) | Plain Paper 1-Thick Paper 4 <br> (Paper sizes that can be detected automatically.) <br> - NA <br>  $1 / 4 " \times 101 / 2 "$ LEF, $12 \times 18$ SEF <br> - EU/Asia <br> A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF,B5 JIS <br> SEF/LEF, B6 JIS SEF <br> Plain Paper 1-Thick Paper 4 <br> (Select the paper size using the Tray Paper Settings menu.) <br> - NA <br> A3 SEF, A4 SEF/LEF, A5 SEF, A6 SEF, B4 JIS SEF, B5 JIS LEF, B6 JIS <br>  SEF, $8 \times 10$ SEF, $7 \frac{1}{1} 4 " \times 10^{1 / 2 "}$ SEF, 8K SEF, 16K SEF/LEF, 11x15 SEF, 10x14 SEF, $8 \frac{1}{2} 2^{\prime \prime} \times 13^{2 / 5 "}$ SEF <br> - EU/Asia <br>  <br>  |


| Item | Spec. |
| :---: | :---: |
|  | x8 $1 / 2 "$ SEF, 8 K SEF, 16 K SEF/LEF, $12 \mathrm{x} 18 \mathrm{SEF}, 11 \mathrm{x} 15 \mathrm{SEF}, 10 \mathrm{x} 14 \mathrm{SEF}$, $8^{1 / 2 "} \times 13^{2 / 5 "}$ " SEF <br> Custom size <br> Vertical: <br> When only the Internal Multi-folding unit is installed, the vertical size range is limited to $90.0-297.0 \mathrm{~mm}$ (3.55-11.69 inches). <br> Horizontal: <br> (Paper that has a horizontal length of 432 mm (17.1 inches) or more is prone to creasing, feed failures, and jamming. <br> - NA <br> Vertical: 3.55-12.00 inches <br> Horizontal: 5.83-23.62 inches <br> - EU/Asia <br> Vertical: $90.0-304.8 \mathrm{~mm}$ <br> Horizontal: 148.0-600.0 mm <br> OHP transparencies <br> A4 SEF/LEF, 8 1/2" x11 SEF/LEF <br> Translucent paper <br> A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF <br> Label paper (adhesive labels) <br> A4 SEF/LEF, B4 JIS SEF <br> Envelopes <br> $4^{1 / 8 "} \times 9^{1 / 2} 2^{\prime \prime}$ SEF/LEF, $3^{7 / 8 "} \times 7$ ¹/2" SEF/LEF, C5 Env SEF/LEF, C6 Env <br> SEF/LEF, DL Env SEF/LEF |
| Paper size (Tray 3 (LCT)) | Plain Paper 1-Thick Paper 4 <br> - NA <br> $8^{1 / 2 "}$ " 11 LEF <br> - EU/Asia <br> A4 LEF <br> Plain Paper 1-Thick Paper 4 <br> (To load paper any of the sizes specified above, contact your service representative.) <br> - NA <br> A4 LEF <br> - EU/Asia <br> $8^{1 / 2 "}$ x 11 LEF |
| Paper size (Large capacity tray (LCT)) | Plain Paper 1-Thick Paper 4 <br> - NA |


| Item | Spec. |
| :---: | :---: |
|  | $8^{1 / 2 "}$ x11 LEF <br> - EU/Asia <br> A4 LEF <br> Plain Paper 1-Thick Paper 4 <br> (To load paper any of the sizes specified above, contact your service representative.) <br> - NA <br> A4 LEF, B5 JIS LEF <br> - EU/Asia <br> B5 JIS LEF, $8 \frac{1}{1} 2$ " x 11 LEF |
| Paper size (Duplex) | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF,B5 JIS SEF/LEF, B6 <br>  <br>  x $8 \frac{1}{1} 2 "$ SEF, 8 K SEF, 16 K SEF/LEF, $12 \times 18$ SEF, $11 \mathrm{x} 15 \mathrm{SEF}, 10 \mathrm{x} 14 \mathrm{SEF}, 8 \frac{1}{2} /{ }^{\prime \prime}$ x13 $2 / 5^{\prime \prime}$ SEF <br> - Custom size <br> Vertical: 90.0-297.0 mm (3.55-11.69 inches) <br> Horizontal: 148.0-431.8 mm (5.83-17.00 inches) |
| Paper weight | - Trays 1-4 <br> $60-300 \mathrm{~g} / \mathrm{m} 2(16 \mathrm{lb}$. Bond -110 lb. Cover) <br> - Bypass tray <br> $52-300 \mathrm{~g} / \mathrm{m} 2(14 \mathrm{lb}$. Bond- 110 lb . Cover) <br> - Tray 3 (LCT) <br> $60-300 \mathrm{~g} / \mathrm{m} 2(16 \mathrm{lb}$. Bond-110 lb. Cover) <br> - Large capacity tray (LCT) <br> $60-300 \mathrm{~g} / \mathrm{m} 2(16 \mathrm{lb}$. Bond-110 lb. Cover) <br> - Duplex <br> $52-256 \mathrm{~g} / \mathrm{m} 2(14 \mathrm{lb}$. Bond- 140 lb . Index) |
| Missing image area (Copier) | - Leading edge: $4.2 \pm 1.5 \mathrm{~mm}(0.17 \pm 0.06$ inches $)$ <br> - Trailing edge: $0.5-6.0 \mathrm{~mm}$ ( $0.02-0.24$ inches) <br> - Left edge: $0.5-4.0 \mathrm{~mm}$ (0.02-0.16 inches) <br> - Right edge: $0.5-4.0 \mathrm{~mm}(0.02-0.16$ inches) |
| First copy/print time (A4 LEF, 8 1/2" x 11 LEF, $100 \%$ reproduction, feeding from tray 1 , on the exposure glass) | MP 2555: 4.6 seconds <br> MP 3055: 4.6 seconds <br> MP 3555: 4.3 seconds <br> MP 4055: 4.0 seconds <br> MP 5055: 2.9 seconds <br> MP 6055: 2.9 seconds |


| Item | Spec. |
| :---: | :---: |
| Copy/print speed (A4 LEF, 8 1/2" x11 LEF) | MP 2555: 25 sheets/minute <br> MP 3055: 30 sheets/minute <br> MP 3555: 35 sheets/minute <br> MP 4055: 40 sheets/minute <br> MP 5055: 50 sheets/minute <br> MP 6055: 60 sheets/minute |
| Reproduction ratio (\%) | - NA <br> Enlargement: 400, 200, 155, 129, 121 <br> Full size: 100 <br> Reduction: 93, 85, 78, 73, 65, 50, 25 <br> - EU/Asia <br> Enlargement: 400, 200, 141, 122, 115 <br> Full size: 100 <br> Reduction: 93, 82, 75, 71, 65, 50, 25 <br> - Zoom: From $25-400 \%$ in increments of $1 \%$ |
| Maximum continuous copy run | 999 sheets |
| Paper capacity ( $80 \mathrm{~g} / \mathrm{m} 2,20$ <br> lb. Bond) | Trays 1-4 <br> - Plain Paper 1-Thick Paper 4 <br> 550 sheets <br> - Envelopes (LEF) <br> 50 sheets <br> - Envelopes (LEF) <br> Double flap: 15 sheets <br> Single flap: 25 sheets <br> Bypass tray <br> - Thin Paper-Thick Paper 4 <br> 100 sheets (up to 10 mm in height) <br> Thick Paper 1: 40 sheets <br> Thick Paper 2-Thick Paper 3: 20 sheets <br> Thick Paper 4: 16 sheets <br> - OHP transparencies <br> 50 sheets <br> - Translucent paper <br> 1 sheet <br> - Label paper (adhesive labels) <br> 30 sheets |


| Item | Spec. |
| :---: | :---: |
|  | - Envelopes <br> 10 sheets <br> Tray 3 (LCT) <br> 1000 sheets x 2 <br> Large capacity tray (LCT) <br> 500 sheets |
| Power requirements | - NA $120-127 \mathrm{~V}, 12 \mathrm{~A}, 60 \mathrm{~Hz}$ <br> - EU/Asia $220-240 \mathrm{~V}, 8 \mathrm{~A}, 50 / 60 \mathrm{~Hz}$ |
| Dimensions | NA <br> - Models equipped with the $\operatorname{ARDF}$ ( W x D x H up to ADF): <br> $587 \times 665 \times 913 \mathrm{~mm}(23.2 \times 26.2 \times 36.0$ inches $)$ <br> - Models equipped with the one-pass duplex scanning DF (W x D x H up to ADF): <br> $587 \times 665 \times 963 \mathrm{~mm}(23.2 \times 26.2 \times 38.0$ inches $)$ <br> EU <br> - Models equipped with the ARDF ( $\mathrm{W} \times \mathrm{D} \times \mathrm{H}$ up to ADF ): <br> $587 \times 665 \times 913 \mathrm{~mm}(23.2 \times 26.2 \times 36.0$ inches $)$ <br> - Models equipped with the one-pass duplex scanning ADF (W x D x H up to ADF): <br> $587 \times 665 \times 963 \mathrm{~mm}(23.2 \times 26.2 \times 38.0$ inches $)$ <br> Asia <br> - Models equipped with the exposure glass cover (W x D x H up to exposure glass): <br> $587 \times 665 \times 788 \mathrm{~mm}(23.2 \times 26.2 \times 31.1$ inches $)$ <br> - Models equipped with the ARDF (W x D x H up to ADF): <br> $587 \times 665 \times 913 \mathrm{~mm}(23.2 \times 26.2 \times 36.0$ inches $)$ <br> - Models equipped with the one-pass duplex scanning ADF (W x D x H up to ADF): <br> $587 \times 665 \times 963 \mathrm{~mm}(23.2 \times 26.2 \times 38.0$ inches $)$ |
| Space for main unit (W x D) <br> (including the paper trays, <br> bypass tray, and output trays) | - Models equipped with the ARDF <br> $1,149 \times 1,160 \mathrm{~mm}$ ( $45.3 \times 45.7$ inches) <br> - Models equipped with the one-pass duplex scanning ADF <br> $1,149 \times 1,205 \mathrm{~mm}$ ( $45.3 \times 47.5$ inches) <br> - Main unit without the ADF <br> $1,149 \times 1,104 \mathrm{~mm}$ ( $45.3 \times 43.5$ inches) |
| Weight | NA |


| Item | Spec. |
| :---: | :---: |
|  | - MP 2555/ 3055/ 3555 : <br> Approx. $62.5 \mathrm{~kg}(137.8 \mathrm{lb}$. <br> - MP 2555/ 3055/ 3555 (Models equipped with the ARDF): <br> Approx. $71.5 \mathrm{~kg}(157.6 \mathrm{lb}$. <br> - MP 4055/ 5055/ 6055: <br> Approx. $76.5 \mathrm{~kg}(168.7 \mathrm{lb}$. <br> EU <br> - MP 2555/ 3055/3555/4055/5055 (Models equipped with the ARDF): <br> Approx. $71.5 \mathrm{~kg}(157.6 \mathrm{lb}$. <br> - MP 2555/ 3055/3555/4055/ 5055 (Models equipped with the onepass duplex scanning ADF): <br> Approx. $76.5 \mathrm{~kg}(168.7 \mathrm{lb}$. <br> - MP 6055: <br> Approx. $76.5 \mathrm{~kg}(168.7 \mathrm{lb}$. <br> Asia <br> - MP 2555/ 3055/ 3555/4055/ 5055: <br> Approx. $62.5 \mathrm{~kg}(137.8 \mathrm{lb}$. <br> - MP 6055: <br> Approx. $76.5 \mathrm{~kg}(168.7 \mathrm{lb}$. |
| HDD |  |
| HDD | 73GB |
| Maximum | $9,000 \text { pages }$ <br> (The total number of pages that can be stored with all functions combined.) |
| Copier/A4 original | 9,000 pages |
| Printer/A4/600 dpi, 2 bits | 9,000 pages |
| Scanner/Full Color/A4/200 dpi, 8 bits/JPEG | 9,000 pages <br> (In the printer and scanner modes, the number of pages that can be stored depends on the print image and the original.) |
| Stored documents |  |
| maximum | 3,000 pages |
| Number of pages supported by memory sorting |  |
| Maximum | 2,000 pages |
| Copier/A4 original | 2,000 pages |
| Printer/A4/600 dpi, 2 bits | 2,000 pages <br> (In the printer mode, the number of pages that can be sorted depends on the print image.) |

## Sound power level (NA)

Main unit only

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $31.0 \mathrm{~dB}(\mathrm{~A})$ | $31.0 \mathrm{~dB}(\mathrm{~A})$ | $31.0 \mathrm{~dB}(\mathrm{~A})$ | $30.5 \mathrm{~dB}(\mathrm{~A})$ | $30.4 \mathrm{~dB}(\mathrm{~A})$ | $30.7 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $58.0 \mathrm{~dB}(\mathrm{~A})$ | $58.6 \mathrm{~dB}(\mathrm{~A})$ | $59.5 \mathrm{~dB}(\mathrm{~A})$ | $60.5 \mathrm{~dB}(\mathrm{~A})$ | $63.6 \mathrm{~dB}(\mathrm{~A})$ | $63.8 \mathrm{~dB}(\mathrm{~A})$ |

Complete system

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $33.2 \mathrm{~dB}(A)$ | $33.2 \mathrm{~dB}(A)$ | $33.2 \mathrm{~dB}(A)$ | $32.9 \mathrm{~dB}(A)$ | $33.0 \mathrm{~dB}(A)$ | $32.8 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $67.6 \mathrm{~dB}(\mathrm{~A})$ | $67.6 \mathrm{~dB}(\mathrm{~A})$ | $69.0 \mathrm{~dB}(\mathrm{~A})$ | $69.2 \mathrm{~dB}(\mathrm{~A})$ | $70.1 \mathrm{~dB}(\mathrm{~A})$ | $69.9 \mathrm{~dB}(\mathrm{~A})$ |

## Sound pressure level (NA)

Main unit only

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $22.7 \mathrm{~dB}(A)$ | $22.4 \mathrm{~dB}(A)$ | $22.6 \mathrm{~dB}(A)$ | $19.5 \mathrm{~dB}(A)$ | $19.4 \mathrm{~dB}(A)$ | $19.7 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $46.0 \mathrm{~dB}(\mathrm{~A})$ | $46.0 \mathrm{~dB}(\mathrm{~A})$ | $46.6 \mathrm{~dB}(\mathrm{~A})$ | $48.9 \mathrm{~dB}(\mathrm{~A})$ | $51.6 \mathrm{~dB}(\mathrm{~A})$ | $51.9 \mathrm{~dB}(\mathrm{~A})$ |

Complete system

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $18.8 \mathrm{~dB}(A)$ | $18.9 \mathrm{~dB}(A)$ | $18.9 \mathrm{~dB}(A)$ | $18.8 \mathrm{~dB}(A)$ | $18.9 \mathrm{~dB}(A)$ | $19.0 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $54.8 \mathrm{~dB}(\mathrm{~A})$ | $54.9 \mathrm{~dB}(\mathrm{~A})$ | $56.1 \mathrm{~dB}(\mathrm{~A})$ | $56.4 \mathrm{~dB}(\mathrm{~A})$ | $57.3 \mathrm{~dB}(\mathrm{~A})$ | $56.7 \mathrm{~dB}(\mathrm{~A})$ |

- Sound power level and sound pressure level are actual values measured in accordance with ISO 7779.
- Sound pressure level is measured from the position of the bystander.
- The complete system of MP $2555 / 3055 / 3555$ consists of the main unit, ARDF, lower paper trays, internal tray 2, bridge unit, and Booklet Finisher SR3220.
- The complete system of MP 4055/5055 consists of the main unit, ARDF, lower paper trays, internal tray 2, bridge unit, and Booklet Finisher SR3240.
- The complete system of MP 6055 consists of the main unit, one-pass duplex scanning ADF, lower paper trays, internal tray 2, bridge unit, and Booklet Finisher SR3240.


## Sound power level (EU/Asia)

Main unit only

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $31.0 \mathrm{~dB}(\mathrm{~A})$ | $31.0 \mathrm{~dB}(A)$ | $31.0 \mathrm{~dB}(A)$ | $30.9 \mathrm{~dB}(A)$ | $30.9 \mathrm{~dB}(A)$ | $31.0 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $58.0 \mathrm{~dB}(\mathrm{~A})$ | $58.6 \mathrm{~dB}(\mathrm{~A})$ | $59.5 \mathrm{~dB}(\mathrm{~A})$ | $61.0 \mathrm{~dB}(\mathrm{~A})$ | $63.2 \mathrm{~dB}(\mathrm{~A})$ | $63.8 \mathrm{~dB}(\mathrm{~A})$ |

Complete system

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $33.2 \mathrm{~dB}(A)$ | $33.1 \mathrm{~dB}(A)$ | $33.2 \mathrm{~dB}(A)$ | $32.9 \mathrm{~dB}(A)$ | $32.8 \mathrm{~dB}(A)$ | $32.9 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $67.6 \mathrm{~dB}(\mathrm{~A})$ | $67.6 \mathrm{~dB}(\mathrm{~A})$ | $69.0 \mathrm{~dB}(\mathrm{~A})$ | $69.4 \mathrm{~dB}(\mathrm{~A})$ | $70.0 \mathrm{~dB}(\mathrm{~A})$ | $69.8 \mathrm{~dB}(\mathrm{~A})$ |

## Sound pressure level (EU/Asia)

Main unit only

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $22.7 \mathrm{~dB}(A)$ | $22.4 \mathrm{~dB}(A)$ | $22.6 \mathrm{~dB}(A)$ | $21.1 \mathrm{~dB}(A)$ | $20.7 \mathrm{~dB}(A)$ | $21.0 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $46.0 \mathrm{~dB}(\mathrm{~A})$ | $46.0 \mathrm{~dB}(\mathrm{~A})$ | $46.6 \mathrm{~dB}(\mathrm{~A})$ | $49.0 \mathrm{~dB}(\mathrm{~A})$ | $51.7 \mathrm{~dB}(\mathrm{~A})$ | $52.0 \mathrm{~dB}(\mathrm{~A})$ |

Complete system

|  | MP 2555 | MP 3055 | MP 3555 | MP 4055 | MP 5055 | MP 6055 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Stand-by | $18.8 \mathrm{~dB}(\mathrm{~A})$ | $18.9 \mathrm{~dB}(\mathrm{~A})$ | $18.9 \mathrm{~dB}(\mathrm{~A})$ | $18.8 \mathrm{~dB}(\mathrm{~A})$ | $18.7 \mathrm{~dB}(\mathrm{~A})$ | $18.9 \mathrm{~dB}(\mathrm{~A})$ |
| Copying | $54.8 \mathrm{~dB}(\mathrm{~A})$ | $54.9 \mathrm{~dB}(\mathrm{~A})$ | $56.1 \mathrm{~dB}(\mathrm{~A})$ | $56.7 \mathrm{~dB}(\mathrm{~A})$ | $57.2 \mathrm{~dB}(\mathrm{~A})$ | $56.6 \mathrm{~dB}(\mathrm{~A})$ |

- Sound power level and sound pressure level are actual values measured in accordance with ISO 7779.
- Sound pressure level is measured from the position of the bystander.
- The complete system of MP $2555 / 3055 / 3555$ consists of the main unit, ARDF, lower paper trays, internal tray 2, bridge unit, and Booklet Finisher SR3220.
- The complete system of MP 4055/5055 consists of the main unit, ARDF, lower paper trays, internal tray 2, bridge unit, and Booklet Finisher SR3240.
- The complete system of MP 6055 consists of the main unit, one-pass duplex scanning ADF, lower paper trays, internal tray 2, bridge unit, and Booklet Finisher SR3240.


## Printer Specifications

| Item | Spec. |
| :---: | :---: |
| Resolution | 200 dpi, 300 dpi, 400 dpi, 600 dpi, 1200 dpi |
| Printing speed (A4 LEF, 8 1/2" x11 LEF, plain paper) | - MP 2555: 25 sheets/minute <br> - MP 3055: 30 sheets/minute <br> - MP 3555: 35 sheets/minute <br> - MP 4055: 40 sheets/minute <br> - MP 5055: 50 sheets/minute <br> - MP 6055: 60 sheets/minute <br> Printing speeds depend on the machine. Check which type of machine you have. See Read This First. |
| Interface | - Standard <br> Ethernet interface (1000BASE-T/100BASE-TX/10BASE-T) <br> USB 2.0 (Type A) port (on the control panel) <br> SD card slot (on the control panel) <br> - Option <br> IEEE 1284 parallel interface <br> IEEE $802.11 \mathrm{a} / \mathrm{b} / \mathrm{g} / \mathrm{n}$ wireless LAN interface <br> File Format Converter <br> Extended USB board |

## 1.Specifications

| Item | Spec. |
| :--- | :--- |
|  | USB device server |
| Network protocol | TCP/IP (IPv4, IPv6) |
| Printer language | $\bullet \quad$ Standard |
|  | RPCS, PCL 5e/6, PDF, MediaPrint(JPEG, TIFF), PostScript 3 |
|  | $\bullet \quad$ Option |
|  | RPCS, PCL 5e/6, PDF, MediaPrint(JPEG, TIFF), PostScript 3 |

- The maximum length for the cable connecting the machine to an Ethernet network is 100 meters.


## Scan Specifications

| Item | Spec. |
| :---: | :---: |
| Type | Full-color scanner |
| Scan method | Flatbed scanning |
| Image sensor type | CCD Image Sensor |
| Scan type | Sheet, book, three-dimensional object |
| Original sizes that can be scanned | - Length <br> 10-297 mm (0.4-11 inches) <br> - Width <br> $10-432 \mathrm{~mm}$ (0.4-17 inches) |
| Scan sizes automatically detectable from the exposure glass | - NA <br> 11x17 SEF, 8 1/2" x14 SEF, 8 1/2" x 13 2/5" SEF, 8 1/2" x11 SEF/LEF, 5 $1 / 2$ " x $81 / 2$ " LEF <br> - EU/Asia <br> A3 SEF, A4 SEF/LEF, A5 LEF, B4 JIS SEF, B5 JIS SEF/LEF, 8 1/2" x13 SEF |


| Item | Spec. |
| :---: | :---: |
| Scan sizes automatically detectable from the ADF | - NA <br> A3 SEF, A4 SEF/LEF, $11 \times 17$ SEF, 8 1/2" x14 SEF, 8 1/2" x13 2/5" SEF, 8 1/2" x11 SEF/LEF, 7 1/4" x 10 1/2" SEF, 5 1/2" x8 1/2" SEF/LEF, 10x14 SEF <br> - EU/Asia <br> A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF/LEF, 11x17 SEF, 8 1/2" x13 SEF, 8 1/2" x11 SEF/LEF |
| Scan speed (the machine equipped with the ARDF) | When using the E-mail, Scan to Folder, WSD (Push Type), or Scan to Removable device (Original size: A4 LEF, 8 ½" x11 LEF, Resolution: $200 \mathrm{dpi} / 300 \mathrm{dpi}$ ) <br> - Black and white: <br> 80 pages/minute (A4 LEF), 79 pages/minute ( $81 / 2$ " x11 LEF) <br> (Original Type: B \& W: Text / Line Art, Compression (Black \& White): <br> MMR, ITU-T No1 Chart) <br> - Full Color: <br> 80 pages/minute (A4 LEF), 79 pages/minute ( $81 / 2$ " x11 LEF) <br> (Original Type: Full Color: Text / Photo, Compression (Gray Scale / Full <br> Color): Default, Original Chart) |
| Scan speed (the machine equipped with the one-pass duplex scanning ADF) | When using the E-mail, Scan to Folder, WSD (Push Type), or Scan to Removable device (Original size: A4 LEF, 8 ½" x11 LEF, Resolution: $200 \mathrm{dpi} / 300 \mathrm{dpi}$ ) <br> - When scanning one-sided originals <br> Black and white: 110 pages/minute <br> - When scanning two-sided originals <br> Black and white: 180 pages/minute <br> (Original Type: B \& W: Text / Line Art, Compression (Black \& White): MMR, ITU-T No1 Chart) <br> - When scanning one-sided originals <br> Full Color: 110 pages/minute <br> - When scanning two-sided originals <br> Full Color: 180 pages/minute <br> (Original Type: Full Color: Text / Photo, Compression (Gray Scale / Full <br> Color): Default, Original Chart) <br> Scanning speed differs depending on the following; operating environment of the machine and computer, scan settings, and the content of originals (denser images require more time). |
| Tone | - Black and white: 2 tones <br> - Full color / Gray scale: 256 tones |
| Basic scanning resolution | 200 dpi |
| Image compression type | TIFF (MH, MR, MMR, JBIG2) |

## 1.Specifications

| Item | Spec. |
| :---: | :---: |
| for black and white (twovalue) |  |
| Image compression type for gray scale/full color | JPEG |
| Interface | - Standard <br> Ethernet interface (1000BASE-T/100BASE-TX/10BASE-T) <br> USB 2.0 (Type A) port (on the control panel) <br> SD card slot (on the control panel) <br> - Option <br> IEEE $802.11 \mathrm{a} / \mathrm{b} / \mathrm{g} / \mathrm{n}$ wireless LAN interface |
| Network protocol | TCP/IP |
| Selectable scanning resolutions when using the E-mail function | 100 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi |
| Protocol for sending e-mail | POP, SMTP, IMAP4 |
| Sendable file formats when using the E-mail function | TIFF, JPEG, PDF, High Compression PDF, PDF/A <br> When you select [PDF], [High Compression PDF], or [PDF/A] for the file format, you can attach a digital signature. You can also specify the security settings for [PDF] or [High Compression PDF]. For details, see "Specifying Digital Signature for PDF files", "Security Settings for PDF Files", Scan. |
| Selectable scanning resolutions when using the Scan to Folder function | 100 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi |
| Protocol for Scan to Folder | SMB, FTP |
| Sendable file formats when using the Scan to Folder function | TIFF, JPEG, PDF, High Compression PDF, PDF/A When you select [PDF], [High Compression PDF], or [PDF/A] for the file format, you can attach a digital signature. You can also specify the security settings for [PDF] or [High Compression PDF]. For details, see "Specifying Digital Signature for PDF files", "Security Settings for PDF Files", Scan. |
| WSD | Supported. |
| DSM | Supported. |
| Selectable scanning resolution when using TWAIN scanner | 100-1,200 dpi |
| Protocol for TWAIN scanner | TCP/IP |
| Operating system for | Windows Vista/7/8/8.1/10, Windows Server 2008/2008 R2/2012/2012 R2 |


| Item | Spec. |
| :--- | :--- |
| TWAIN scanner | (TWAIN scanner runs in 32-bit compatible mode on a 64-bit operating system, so <br> TWAIN scanner is not compatible with 64-bit applications. Use it with 32-bit <br> applications.) |
| Selectable scanning <br> resolutions when using <br> WIA scanner | 100-1,200 dpi |
| Protocol for WIA scanner | TCP/IP |
| Operating system for WIA <br> scanner | Windows Vista (SP1 or later)/7/8/8.1/10, Windows Server 2008/2008 <br> R2/2012/2012 R2 <br> (WIA scanner can function under both 32- and 64-bit operating systems.) |

- Specifications are subject to change without notice.
- The maximum length for the cable connecting the machine to an Ethernet network is 100 meters.


## Software Accessories

The printer drivers and utility software are provided on one CD-ROM. An auto-run installer allows you to select which components to install.

## Printer Drivers

| Operating System ${ }^{* 1}$ |  | Printer Language |  |  |
| :--- | :--- | :--- | :--- | :---: |
|  | PCL 5c |  | PCL 6 |  |
| Windows Vista ${ }^{* 2}$ | Supported | Supported | Supported |  |
| Windows 7 *3 $^{*}$ | Supported | Supported | Supported |  |
| Windows $8^{* 4}$ | Supported | Supported | Supported |  |
| Windows $8.1^{* 5}$ | Supported | Supported | Supported |  |
| Windows $10^{* 6}$ | Supported | Supported | Supported |  |
| Windows Server $2003^{* 7}$ | Supported | Supported | Supported |  |
| Windows Server $2008^{* 8}$ | Supported | Supported | Supported |  |
| Windows Server $2012{ }^{* 9}$ | Supported | Supported | Supported |  |
| OS X ${ }^{* 10}$ | Not available | Not available | Supported |  |

*1 Windows operating system supports both versions (32/64 bit).
*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/Microsoft Windows 8 Pro/Microsoft Windows 8 Enterprise
*5 Microsoft Windows 8.1/Microsoft Windows 8.1 Pro/Microsoft Windows 8.1 Enterprise
*6 Microsoft Windows 10 Home/Microsoft Windows 10 Pro/Microsoft Windows 10 Enterprise/Microsoft
Windows 10 Education
*7 Microsoft Windows Server 2003 Standard Edition/Microsoft Windows Server 2003 Enterprise
Edition/Microsoft Windows Server 2003 R2 Standard Edition/Microsoft Windows Server 2003 R2 Enterprise
Edition
*8 Microsoft Windows Server 2008 Standard/Microsoft Windows Server 2008 Enterprise/Microsoft Windows
Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise
*9 Microsoft Windows Server 2012 Foundation/Microsoft Windows Server 2012 Essentials/Microsoft Windows Server 2012 Standard/Microsoft Windows Server 2012 R2 Foundation/Microsoft Windows Server 2012 R2
Essentials/Microsoft Windows Server 2012 R2 Standard
*10 OS X 10.7 or later


- Some applications may require installation of the PCL 5c printer driver. In this case, you can install PCL 5c without having to install PCL 6.
- Adobe PostScript printer driver allows the computer to communicate with the printer using a
printer language. PPD files allow the printer driver to enable specific printer functions.
Scanner and LAN Fax Drivers

| Operating System | TWAIN*1 | PC-FAX |
| :--- | :--- | :--- |
| Windows Vista | Supported | Supported |
| Windows 7 | Supported | Supported |
| Windows 8 | Supported | Supported |
| Windows 8.1 | Supported | Supported |
| Windows 10 | Supported | Supported |
| Windows Server 2003/2003 R2 | Supported | Supported |
| Windows Server 2008/2008 R2 | Supported | Supported |
| Windows Server 2012/2012 R2 | Supported | Supported |
| OS X | Not available | Not available |

*1 TWAIN scanner runs on a 64-bit operating system, but is not compatible with 64-bit applications. Use it with 32-bit applications.

## Supported Paper Sizes

Original Size Detection

| Size ( $\mathrm{W}^{\text {x L }}$ ) [mm] | NA |  | EU/AP |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Book | ADF | Book | ADF |
| A3 SEF (297 x 420) | - | Y | $\mathrm{Y}^{* 4}$ | Y |
| B4 SEF ( 257 x 364 ) | - | - | $\mathrm{Y}^{* 4}$ | Y |
| A4 SEF ( $210 \times 297$ ) | $\mathrm{Y}^{* 5}$ | Y | $\mathrm{Y}^{* 4,5}$ | Y |
| A4 LEF (297 x 210) | $\mathrm{Y}^{* 5}$ | Y | $\mathrm{Y}^{* 4,5}$ | Y |
| B5 SEF (182 x 257) | - | - | $\mathrm{Y}^{* 4}$ | Y |
| B5 LEF (257 x 182) | - | - | $\mathrm{Y}^{* 4}$ | Y |
| A5 SEF (148 x 210) | - | - | $\mathrm{Y}^{* 2,4}$ | Y |
| A5 LEF ( $210 \times 148$ ) | - | - | $\mathrm{Y}^{* 4}$ | Y |
| B6 SEF (128 x 182) | - | - | - | Y |
| B6 LEF (182 x 128) | - | - | - | Y |
| DLT SEF (11" x 17") | Y | $\mathrm{Y}^{*} \mathrm{Db}$ | - | $\mathrm{Y}^{*} \mathrm{Df}$ |
| LG SEF (8½" x 14") | $\mathrm{Y}^{* 6}$ | $\mathrm{Y}^{*} \mathrm{Dc}, 6$ | - | - |
| Oficio SEF ( $8^{\left.1 / 22^{\prime \prime} \times 13.4 "\right)}$ | $\mathrm{Y}^{* 6}$ | $\mathrm{Y}^{*} \mathrm{Dc}, 6$ | - | - |
| LT SEF ( $8^{1 / 22^{\prime \prime} \text { x 11") }}$ | $\mathrm{Y}^{* 5}$ | $\mathrm{Y}^{*} \mathrm{Dd}$ | $\mathrm{Y}^{* 5}$ | $\mathrm{Y}^{*} \mathrm{Dg}$ |
| LT LEF ( $11{ }^{\prime \prime}$ x $8^{1 / 2} 2^{\prime \prime}$ ) | $\mathrm{Y}^{* 5}$ | $\mathrm{Y}^{*} \mathrm{De}$ | $\mathrm{Y}^{* 5}$ | $\mathrm{Y}^{*} \mathrm{Dh}$ |
|  | $\mathrm{Y}^{*}{ }^{2}$ | Y | - | - |
|  | Y | Y | - | - |
| F SEF (8" x 13") | - | - | $\mathrm{Y}^{* 3}$ | Y*S3 |
| Foolscap SEF ( $8^{1 / 22^{\prime \prime} \times 13} 1$ ) | - | $\mathrm{Y}^{*} \mathrm{Sc}$ | $\mathrm{Y}^{*} \mathrm{D} 3$ | $\mathrm{Y}^{*} \mathrm{D} 3$ |
| Folio SEF ( $8^{1 / 44^{\prime \prime} \times 13}$ ") | - | - | Y*S3 | Y ${ }^{* 3}$ |
| Folio SEF (11" x 15") | - | $\mathrm{Y}^{* S b}$ | - | - |
| Folio SEF (10" x 14") | - | Y | - | - |
| Folio SEF (8" x 10") | - | $\mathrm{Y}^{*} \mathrm{Sd}$ | - | - |
| US EXE SEF ( $\left.7^{1 / 4} 4^{\prime \prime} \times 10^{1 / 2} 2^{\prime \prime}\right)$ | - | Y | - | - |
| US EXE LEF ( $10^{1 / 2} 2 \times 71 / 4^{\prime \prime}$ ) | - | $\mathrm{Y}^{*} \mathrm{Se}$ | - | - |
| 8 K SEF ( 267 x 390 ) | - | - | $\mathrm{Y}^{* 4}$ | $\mathrm{Y}^{* S f}$ |
| 16K SEF (195 x 267) | - | - | $\mathrm{Y}^{* 4}$ | $\mathrm{Y}^{*} \mathrm{Si}$ |
| 16K LEF (267 x 195) | - | - | $\mathrm{Y}^{* 4 \mathrm{v}}$ | $\mathrm{Y}^{*} \mathrm{Sg}$ |

Sizes with letters (a to h) means only either size with the corresponding letter can be selected for size detection. " $D$ " is for default set sizes, and when setting " S " sizes for size detection from SP mode, " $D$ " sizes can no longer be detected.
(*2)For detected originals smaller then A5 size, with SP mode either "detect as A5" or "Detect as Unknown" can
be selected. (Default is "Detect as unknown")
(*3)F Sizes ( $8.5 " \times 13 "$ SEF, $8.25 " \times 13 "$ SEF, $8 " \times 13 "$ SEF) will be available by SP mode settings.
(*4)Switch Book scanner original detection between " $K$ " series and "A/B" series from SP mode.
(Can not set both to detect, but $8 \mathrm{~K} / 16 \mathrm{~K}$ detect can de set from SO mode)
8K SEF -> Switch between A3, B4 SEF
16K SEF -> Switch between A4, A5, B5 SEF
16K LEF -> Switch between A4, A5, B5 LEF *Can not switch only either size.
(*5)Can be selected with switching A4/LT from SP mode:

- Standard detect (default)
- When placing A4/LT size LEF, detect as A4 LEF. When placing SEF, detect as LT SEF.
- When placing A4/LT size LEF, detect as LT LEF. When placing SEF, detect as A4 SEF.
(*6)The machine can detect either LG or Oficio, depending on a UP mode setting. For the ADF, "C" sizes from SP should be set to "LG setting" in advance.


## Remarks:

| Y | Yes; available |
| :--- | :--- |
| - | Not available |

## Paper Feed

Tray 1 to 4, and the side LCT

| Size (W x L) [mm] | Tray 1 |  | Tray 2 |  | Tray 3/4 <br> 1 drawer <br> /2 drawers bank |  | Tray 3 <br> Tandem LCT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Region (EU/AA) | NA | EU/AA | NA | EU/AA | NA | EU/AA | NA | EU/AA |
| A3 SEF (297x 420) | G2 | A2 | G2 | A2 | G2 | A2 | - | - |
| A4 SEF (210 x 297) | A | A | A | A | A | A | - | - |
| A4 LEF (297 x 210) | G1 | A1 | G1 | A1 | G1 | A1 | K | H |
| A5 SEF (148 x 210) | B | B | B | B | B | B | - | - |
| A5 LEF (210 x 148 ) | A | A | A | A | A | A | - | - |
| A6 SEF (105 x 148) | B | B | B | B | B | B | - | - |
| B4 SEF ( 257 x 364 ) | G3 | A3 | G3 | A3 | G3 | A3 | - | - |
| B5 SEF (182 x 257) | A | A | A | A | A | A | - | - |
| B5 LEF (257 x 182 ) | G4 | A4 | G4 | A4 | G4 | A4 | - | - |
| B6 SEF (128 x 182 ) | B | B | B | B | B | B | - | - |
| DLT SEF (11" x 17") | A2 | G2 | A2 | G2 | A2 | G2 | - | - |
| Legal SEF ( $8^{1 / 22^{\prime \prime}}$ x 14") | A3 | G3 | A3 | G3 | A3 | G3 | - | - |
| Foolscap SEF (8½" x 13") | B | B | B | B | B | B | - | - |
| LT SEF ( $81 / 2^{\prime \prime}$ x 11") | A | A | A | A | A | A | - | - |


| Size (W x L) [mm] | Tray 1 |  | Tray 2 |  | Tray 3/4 <br> 1 drawer /2 drawers bank |  | Tray 3 <br> Tandem LCT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Region (EU/AA) | NA | EU/AA | NA | EU/AA | NA | EU/AA | NA | EU/AA |
| LT LEF (11" x 81/2") | A1 | G1 | A1 | G1 | A1 | G1 | H | K |
| Gov. LG SEF ( $8^{1 / 1} 4^{\prime \prime}$ x 14") | B | B | B | B | B | B | - | - |
| Folio SEF ( $8^{1 / 4 \prime}{ }^{\prime \prime}$ x 13") | B | B | B | B | B | B | - | - |
| F/GL SEF (8" x 13") | B | B | B | B | B | B | - | - |
| Eng Quatro SEF (8" x 10") | B | B | B | B | B | B | - | - |
| Executive SEF ( $\left.7^{1 / 4} 4^{\prime \prime} \times 10^{1 / 2} 2^{\prime \prime}\right)$ | B | B | B | B | B | B | - | - |
| Executive LEF ( $10^{1 / 2} 2^{\prime \prime} \times 71 / 4^{\prime \prime}$ ) | A4 | G4 | A4 | G4 | A4 | G4 | - | - |
| HLT SEF ( $5^{1 / 2} 2^{\prime \prime} \times 8{ }^{1 / 2} 2^{\prime \prime}$ ) | B | B | B | B | B | B | - | - |
| Com10 SEF (104.8 x 241.3) | B | B | B | B | B | B | - | - |
| Com10 LEF (241.3 x 104.8) | B | B | B | B | B | B | - | - |
| Monarch SEF (98.4 x 190.5) | B | B | B | B | B | B | - | - |
| Monarch LEF (190.5 x 98.4) | - | - | - | - | - | - | - | - |
| C5 SEF (162 x 229) | B | B | B | B | B | B | - | - |
| C5 LEF ( $229 \times 162$ ) | B | B | B | B | B | B | - | - |
| C6 SEF (114 x 162) | B | B | B | B | B | B | - | - |
| C6LEF (162 x 114) | B | B | B | B | B | B | - | - |
| DL Env SEF (110 x 220) | B | B | B | B | B | B | - | - |
| DL Env LEF (220 x 110) | B | B | B | B | B | B | - | - |
| 8K SEF (267 x 390) | B | B | B | B | B | B | - | - |
| 16K SEF (195 x 267 ) | B | B | B | B | B | B | - | - |
| 16K LEF (267 x 195 ) | B | B | B | B | B | B | - | - |
| 12" x 18" SEF | - | - | - | - | - | - | - | - |
| $11^{\prime \prime}$ x 15" SEF | B | B | B | B | B | B | - | - |
| 10 " x 14" SEF | B | B | B | B | B | B | - | - |
| $8.5 "$ x 13.4" SEF | A3 | B | A3 | B | A3 | B | - | - |

## Remarks:

| A | Auto detectable. Also can be selected with size button of initial setting. |
| :--- | :--- |
| B | Can be selected with size button from initial setting. |
| C | Select this size by setting the dial. |
| D | Set dial to "*", then select with size button from initial setting. |
| E | <Bypass setting> <br> Copy window/Bypass/Standard size/Size select or select with the print bypass paper size/size button from <br> initial setting. |
| F | Select with SP from preset paper sizes. |


|  | Cannot be selected from printer driver. |
| :--- | :--- |
| G | Switches which size to set as auto detect with SP. <br> *Example: The combination of A1-G1. <br> G (When not auto detectable) will be as same as B. <br> Combinations are only made from same region same tray. <br> *Example: The combination of G1 and J1. <br> G (When not auto detectable) will be as same as E. <br> Combinations are only made from same region same tray. |
| H | Size fixed when shipping. |
| I | <Bypass setting> <br> With bypass tray, after 1st sheet trailing edge goes through, auto detects size, then fixed to size detected <br> from the 2 ${ }^{\text {nd }}$ sheet. |
| J | <Bypass setting $>$ <br> Auto detect of Copy window/Bypass/Standard size/Select with size button. |
| K | Select with SP from preset paper sizes. <br> Can be selected from printer driver. |
| - | Not available |

Bypass Trays

| Size ( $\mathrm{W}^{\text {x }}$ L) $[\mathrm{mm}]$ | LCT |  | Bypass |  |
| :---: | :---: | :---: | :---: | :---: |
| Region (EU/AA) | NA | EU/AA | NA | EU/AA |
| A3 SEF (297 x 420) | - | - | E | J |
| A4 SEF (210 x 297) | - | - | E | J |
| A4 LEF (297 x 210) | K | H | E | J |
| A5 SEF (148 x 210) | - | - | E | J |
| A5 LEF ( $210 \times 148$ ) | - | - | J | J |
| A6 SEF (105 x 148) | - | - | E | J |
| B4 SEF ( 257 x 364 ) | - | - | E | J |
| B5 SEF (182 x 257) | - | - | J | J |
| B5 LEF ( 257 x 182 ) | K | K | E | J |
| B6 SEF (128 x 182 ) | - | - | E | J |
| DLT SEF (11" x 17") | - | - | J | E |
| Legal SEF ( $8^{1 / 2 \prime 2}$ x 14") | - | - | G1 | E |
| Foolscap SEF ( $8^{1 / 2} 2^{\prime \prime}$ x 13") | - | - | E | E |
| LT SEF ( $8^{1 / 2 " 2}$ x 11") | - | - | J1 | E |
| LT LEF (11" x 81/2") | H | K | J | E |
| Gov. LG SEF ( $8^{1 / 4} \mathbf{4}^{\prime \prime}$ x 14") | - | - | E | E |
| Folio SEF (81/4" x 13") | - | - | E | E |

## 1.Specifications

| Size (W x L) [mm] | LCT |  | Bypass |  |
| :---: | :---: | :---: | :---: | :---: |
| Region (EU/AA) | NA | EU/AA | NA | EU/AA |
| F/GL SEF (8" x 13") | - | - | E | E |
| Eng Quatro SEF (8" x 10") | - | - | E | E |
| Executive SEF ( $71 / 4^{\prime \prime} \times 10^{1 / 2} 2^{\prime \prime}$ ) | - | - | E | E |
|  | - | - | J | E |
| HLT SEF ( $5^{1 / 2 \prime 2} \times 8^{1 / 2} 2^{\prime \prime}$ ) | - | - | J | E |
| Com10 SEF (104.8 x 241.3) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| Com10 LEF (241.3 x 104.8) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| Monarch SEF (98.4 x 190.5) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| Monarch LEF (190.5 x 98.4) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| C5 SEF (162 x 229) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| C5 LEF ( $229 \times 162$ ) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| C6 SEF (114 x 162) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| C6LEF (162 x 114) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| DL Env SEF (110 x 220) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| DL Env LEF ( $220 \times 110$ ) | - | - | $\mathrm{E}^{* 1}$ | $\mathrm{E}^{* 1}$ |
| 8K SEF ( 267 x 390 ) | - | - | E | E |
| 16K SEF (195 x 267) | - | - | E | E |
| 16K LEF (267 x 195) | - | - | E | E |
| 12" x 18" SEF | - | - | J | E |
| 11" x 15" SEF | - | - | E | E |
| 10 " x 14" SEF | - | - | E | E |
| 8.5 " x 13.4" SEF | - | - | E | E |

## Remarks:

| A | Auto detectable. Also can be selected with size button of initial setting. |
| :--- | :--- |
| B | Can be selected with size button from initial setting. |
| C | Select this size by setting the dial. |
| D | Set dial to "*", then select with size button from initial setting. |
| E | <Bypass setting> <br> Copy window/Bypass/Standard size/Size select or select with the print bypass paper size/size button from <br> initial setting. |
| F | Select with SP from preset paper sizes. <br> Cannot be selected from printer driver. |
| G | Switches which size to set as auto detect with SP. <br> *Example: The combination of A1-G1. <br> G (When not auto detectable) will be as same as B. <br> Combinations are only made from same region same tray. |


|  | *Example: The combination of G1 and J1. <br> G (When not auto detectable) will be as same as E. <br> Combinations are only made from same region same tray. |
| :--- | :--- |
| H | Size fixed when shipping. |
| I | <Bypass setting $>$ <br> With bypass tray, after $1^{\text {st }}$ sheet trailing edge goes through, auto detects size, then fixed to size detected <br> from the $2^{\text {nd }}$ sheet. |
| J | $<$ Bypass setting $>$ <br> Auto detect of Copy window/Bypass/Standard size/Select with size button. |
| K | Select with SP from preset paper sizes. <br> Can be selected from printer driver. |
| - | Not available |

*1 Even the paper size is in the range or available sizes for duplex, envelopes cannot be done so.

## Paper Exit

Main unit tray, 1-bin tray, Internal shift tray SH3070, Side tray

| Size ( $\mathrm{W}^{\text {x L }}$ ) [mm] | Main unit tray | 1 bin tray | Internal shift traySH3070 |  | Side Tray |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Main unit tray | Upper tray | Shift | Shifting | Bridge upper exit | $\begin{aligned} & \text { Side } \\ & \text { tray } \end{aligned}$ |
| A3 SEF (297 x 420) | A | A | A | A | A | A |
| A4 SEF (210 x 297) | A | A | A | A | A | A |
| A4 LEF (297 x 210) | A | A | A | A | A | A |
| A5 SEF (148 x 210) | A | A | A | A | A | A |
| A5 LEF (210 x 148 ) | A | A | A | A | A | A |
| A6 SEF (105 x 148) | A | $\mathrm{B}^{* 1}$ | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1}$ | $\mathrm{A}^{* 1}$ |
| B4 SEF ( 257 x 364 ) | A | A | A | A | A | A |
| B5 SEF (182 x 257) | A | A | A | A | A | A |
| B5 LEF (257x 182 ) | A | A | A | A | A | A |
| B6 SEF (128 x 182 ) | A | $\mathrm{B}^{* 1}$ | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1}$ | $\mathrm{A}^{* 1}$ |
| DLT SEF (11" x 17") | A | A | A | A | A | A |
| Legal SEF ( $8^{1 / 22^{\prime \prime} \text { x 14") }}$ | A | A | A | A | A | A |
| Foolscap SEF (81/2" x 13") | A | A | A | A | A | A |
|  | A | A | A | A | A | A |
| LT LEF (11" x 81⁄2") | A | A | A | A | A | A |
| Gov. LG SEF (8¼' x 14") | A | A | A | A | A | A |


| Size ( $\mathrm{W}^{\text {x }} \mathrm{L}$ ) [mm] | Main unit tray | 1 bin tray | Internal shift tray <br> SH3070 |  | Side Tray |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Main unit tray | Upper tray | Shift | Shifting | Bridge upper exit | Side <br> tray |
| Folio SEF (81/4" x 13") | A | A | A | A | A | A |
| F/GL SEF (8" x 13") | A | A | A | A | A | A |
| Eng Quatro SEF (8" x 10") | A | A | A | A | A | A |
| Executive SEF ( $7^{1 / 1 / 4^{\prime \prime} \mathrm{x}}$ $\left.10^{1} / 2^{\prime \prime}\right)$ | A | A | A | A | A | A |
| Executive LEF ( $10^{1 / 22^{\prime \prime} \mathrm{x}}$ 71/4") | A | A | A | A | A | A |
| HLT SEF ( $5^{1 / 2 \prime 2} \times 8^{1 / 2} 2^{\prime \prime}$ ) | A | A | A | A | A | A |
| $\begin{aligned} & \text { Com10 SEF }(104.8 \mathrm{x} \\ & 241.3) \end{aligned}$ | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3}$ | B |
| $\begin{aligned} & \text { Com10 LEF }(241.3 \mathrm{x} \\ & 104.8) \end{aligned}$ | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3,4}$ | - |
| Monarch SEF (98.4 x 190.5) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3}$ | B |
| Monarch LEF (190.5 x 98.4) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3,4}$ | - |
| C5 SEF (162 x 229) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3}$ | B |
| C5 LEF (229 x 162) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3,4}$ | B |
| C6 SEF (114 x 162) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3}$ | B |
| C6LEF (162 x 114) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3,4}$ | - |
| DL Env SEF (110 x 220) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3}$ | B |
| DL Env LEF (220 x 110) | A | B | $\mathrm{A}^{* 1}$ | A | $\mathrm{A}^{* 1,3,4}$ | - |
| 8 K SEF (267 x 390) | A | A | A | A | A | A |
| 16K SEF (195 x 267 ) | A | A | A | A | A | A |
| 16K LEF (267 x 195 ) | A | A | A | A | A | A |
| 12" x 18" SEF | - | $\mathrm{A}^{* 1}$ | $\mathrm{A}^{* 1}$ | B | A | A |
| $11^{\prime \prime}$ x 15" SEF | A | A | A | A | A | A |
| $10^{\prime \prime} \times 14$ ' SEF | A | A | A | A | A | A |


| Size (W x L) [mm] | Main unit <br> tray | 1 bin tray | Internal shift tray <br> SH3070 |  | Side Tray |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | Main unit <br> tray | Upper <br> tray | Shift | Shifting | Bridge upper | Side <br> exit <br> tray |
| $8.5 " \times 13.4 "$ SEF | A | A | A | A | A | A |

Shift: The paper is fed out to the shift tray, but without shifting.
Shifting: The paper is fed out to the shift tray, and the shifting function is used.

Internal Finisher SR3130

| Size (W x L) [mm] | Paper exit |  | Staple |  | Punch |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Shift | Shifting | Single/Double size | Stapling amount | EU 2 <br> SC 4 <br> Holes | NA 3 <br> EU 4 <br> Holes | NA 2 <br> Holes | $\begin{gathered} \text { SC } 4 \\ \text { Holes } \end{gathered}$ |
| A3 SEF (297 x 420) | A | A | A | 30 | A | A | A | A |
| A4 SEF (210 x 297) | A | A | A | 50 | A | - | B | A |
| A4 LEF (297 x 210) | A | A | A | 50 | A | A | A | A |
| A5 SEF (148 x 210) | $\mathrm{A}^{* 1}$ | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - |
| A5 LEF ( $210 \times 148$ ) | $\mathrm{A}^{* 1}$ | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - |
| A6 SEF (105 x 148) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| B4 SEF ( 257 x 364 ) | A | A | A | 30 | A | - | - | A |
| B5 SEF (182 x 257) | A | A | A | 50 | A | - | - | A |
| B5 LEF ( 257 x 182 ) | A | A | A | 50 | A | - | - | A |
| B6 SEF (128 x 182 ) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| DLT SEF (11" x 17") | A | A | A | 30 | A | A | A | A |
| Legal SEF ( $8^{1 / 2 "}$ x 14") | A | A | A | 30 | A | - | A | A |
| Foolscap SEF ( $8^{1 / 2 "}$ x 13") | A | A | A | 30 | A | - | A | A |
| LT SEF ( $8^{1} / 2^{\prime \prime}$ x 11") | A | A | A | 50 | A | - | A | A |
| LT LEF (11" x 81/2") | A | A | A | 50 | A | A | A | A |
| Gov. LG SEF ( $8^{1 / 4 \prime \prime}$ x 14") | A | A | A | 30 | - | - | - | - |
| Folio SEF ( $8^{1 / 1 / 4}$ x 13") | A | A | A | 30 | - | - | - | - |
| F/GL SEF (8" x 13") | A | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - |
| Eng Quatro SEF (8" x 10") | A | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - |
| Executive SEF ( $7^{1 / 1 / 4}$ x $\left.10^{1} / 2^{\prime \prime}\right)$ | A | A | A | 50 | A | - | A | A |


| Size (W x L) [mm] | Paper exit |  | Staple |  | Punch |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Shift | Shifting | Single/Double size | Stapling amount | $\begin{gathered} \text { EU } 2 \\ \text { SC } 4 \\ \text { Holes } \end{gathered}$ | NA 3 <br> EU 4 <br> Holes | NA 2 <br> Holes | $\begin{gathered} \text { SC } 4 \\ \text { Holes } \end{gathered}$ |
| Executive LEF (10¹/2" $\text { x } 7^{1 / 2 "} \text { ") }$ | A | A | A | 50 | - | - | - | - |
| HLT SEF ( $5^{1 / 2 "}$ x 81/2") | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { Com10 SEF (104.8 x } \\ & 241.3) \end{aligned}$ | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { Com10 LEF }(241.3 \mathrm{x} \\ & 104.8) \end{aligned}$ | $\mathrm{A}^{* 1,3,4}$ | - | - | - | - | - | - | - |
| Monarch SEF (98.4 x 190.5) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| Monarch LEF (190.5 x 98.4) | $\mathrm{A}^{* 1,3,4}$ | - | - | - | - | - | - | - |
| C5 SEF (162 x 229) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| C5 LEF (229 x 162) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| C6 SEF (114 x 162) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| C6LEF (162 x 114) | $\mathrm{A}^{* 1,3,4}$ | - | - | - | - | - | - | - |
| DL Env SEF (110 x 220) | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - |
| DL Env LEF (220 x 110) | $\mathrm{A}^{* 1,3,4}$ | - | - | - | - | - | - | - |
| 8K SEF (267 x 390) | A | A | A | 30 | A | - | - | - |
| 16K SEF (195 x 267 ) | A | A | A | 50 | A | - | - | - |
| 16K LEF (267 x 195 ) | A | A | A | 50 | A | - | - | - |
| 12" x 18" SEF | A | - | - | - | - | - | - | - |
| $11^{\prime \prime}$ x 15" SEF | A | A | - | - | - | - | - | - |
| $10^{\prime \prime}$ x 14" SEF | A | A | - | - | - | - | - | - |
| $8.5 "$ x 13.4" SEF | A | A | A | 30 | A | - | A | A |

Finisher SR3230/SR3240

| $\begin{gathered} \text { Size (W } \\ \text { x L) } \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  | $\begin{gathered} \hline \begin{array}{c} \text { Half } \\ \text { fold } \end{array} \\ \hline \text { Middl } \\ \text { e fold } \end{gathered}$ | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proof/shif t | shiftin g | Hal <br> f <br> fold |  | Single <br> /Doubl <br> e stitch | Staplin <br> g <br> amount | Saddl <br> e stitch | Saddle stitch amoun <br> t | EU2 <br> SC4 <br> Hole <br> S | NA2 <br> Hole <br> S | NA3 <br> EU4 <br> Hole <br> S |
| $\begin{aligned} & \text { A3 SEF } \\ & (297 x \\ & 420) \end{aligned}$ | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | A |
| $\begin{aligned} & \text { A4 SEF } \\ & (210 \mathrm{x} \\ & 297) \end{aligned}$ | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | B | - |
| $\begin{aligned} & \text { A4 LEF } \\ & (297 \mathrm{x} \\ & 210) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | A |
| $\begin{aligned} & \text { A5 SEF } \\ & (148 \mathrm{x} \\ & 210) \end{aligned}$ | A | A | - | - | - | - | - | - | A | A | - |
| $\begin{aligned} & \text { A5 LEF } \\ & (210 \mathrm{x} \\ & 148) \end{aligned}$ | A | A | - | - | - | - | - | - | A | B | - |
| $\begin{aligned} & \text { A6 SEF } \\ & (105 \mathrm{x} \\ & 148) \end{aligned}$ | A | - | - | - | - | - | - | - | - | - | - |
| B4 SEF <br> (257 x <br> 364) | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | A |
| B5 SEF <br> (182 x <br> 257) | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | - |
| $\begin{aligned} & \text { B5 LEF } \\ & (257 \mathrm{x} \\ & 182) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | A |
| B6 SEF <br> (128 x <br> 182 ) | A | B | - | - | - | - | - | - | - | - | - |
| DLT | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | A |


| $\begin{gathered} \text { Size (W } \\ \text { x L) } \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  | $\begin{gathered} \text { Half } \\ \text { fold } \end{gathered}$ | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proof/shif t | shiftin g | $\begin{gathered} \text { Hal } \\ \mathrm{f} \\ \text { fold } \end{gathered}$ |  | Single <br> /Doubl <br> e stitch | Staplin <br> g <br> amount | Saddl <br> e stitch | Saddle stitch amoun t | EU2 <br> SC4 <br> Hole <br> S | NA2 <br> Hole <br> S | NA3 <br> EU4 <br> Hole <br> S |
| $\begin{aligned} & \text { SEF (11" } \\ & \text { x } 17 ") \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |
| Legal <br> SEF <br> ( $8^{1 / 2 "}$ x <br> 14") | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A |  |
| Foolscap SEF $\left(8^{1 / 2 "} \mathrm{x}\right.$ <br> 13") | A | A | - | - | A | 50 | - | - | A | A | - |
| LT SEF $\left(8^{1 / 2} 2^{\prime \prime} \mathrm{x}\right.$ <br> 11") | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A |  |
| LT LEF $\begin{aligned} & \left(11^{\prime \prime} \mathrm{x}\right. \\ & \left.8^{1 / 2} 2^{\prime \prime}\right) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | A |
| Gov. LG <br> SEF (81/4" x <br> 14") | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | - |
| Folio SEF $\left(8^{1 / 4 " ~ x}\right.$ <br> 13") | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | - |
| $\begin{aligned} & \text { F/GL } \\ & \text { SEF ( } 8 \text { " } \\ & \text { x } \left.13^{\prime \prime}\right) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | - |
| $\begin{aligned} & \text { Eng } \\ & \text { Quatro } \\ & \text { SEF ( } 8^{\prime \prime} \\ & \text { x 10") } \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | - |
| Executiv e SEF | A | A | - | - | A | 50 | - | - | A | A | - |


| $\begin{gathered} \text { Size (W } \\ \text { x L) } \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  | $\begin{gathered} \text { Half } \\ \text { fold } \end{gathered}$ | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proof/shif t | shiftin g | Hal <br> f <br> fold |  | Single <br> /Doubl <br> e stitch | Staplin <br> g <br> amount | Saddl e stitch | Saddle stitch amoun t | EU2 <br> SC4 <br> Hole <br> S | NA2 <br> Hole <br> S | NA3 <br> EU4 <br> Hole <br> S |
| $\begin{aligned} & \left(7^{1 / 4 " ~ x}\right. \\ & \left.10^{1 / 2} 2^{\prime \prime}\right) \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |
| Executiv <br> e LEF <br> ( $10^{1 / 2} 2^{\prime \prime} \mathrm{x}$ <br> 7/1/4") | A | A | - | - | A | 50 | - | - | A | A | A |
| HLT <br> SEF <br> ( $5^{1 / 2} 2^{\prime \prime} \mathrm{x}$ <br> $8^{1 / 2 ")}$ | A | A | - | - | - | - | - | - | A | A | - |
| Com10 <br> SEF <br> (104.8 x <br> 241.3) | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { Com10 } \\ & \text { LEF } \\ & (241.3 \mathrm{x} \\ & 104.8) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - |
| Monarch SEF $\begin{gathered} (98.4 \mathrm{x} \\ 190.5) \end{gathered}$ | - | - | - | - | - | - | - | - | - | - | - |
| Monarch LEF <br> (190.5 x <br> 98.4) | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { C5 SEF } \\ & (162 \mathrm{x} \\ & 229) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { C5 LEF } \\ & (229 \mathrm{x} \\ & 162) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - |
| C6 SEF | - | - | - | - | - | - | - | - | - | - | - |


| $\begin{gathered} \text { Size (W } \\ \text { x L) } \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  | Half <br> fold <br> Middl e fold | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proof/shif t | shiftin g | Hal <br> f <br> fold |  | Single <br> /Doubl e stitch | Staplin <br> g <br> amount | Saddl <br> e stitch | Saddle <br> stitch <br> amoun <br> t | EU2 <br> SC4 <br> Hole <br> S | NA2 <br> Hole <br> S | NA3 <br> EU4 <br> Hole <br> S |
| $\begin{aligned} & (114 x \\ & 162) \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { C6LEF } \\ & (162 \mathrm{x} \\ & 114) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - |
| DL Env <br> SEF (110 x 220) | - | - | - | - | - | - | - | - | - | - | - |
| DL Env LEF (220 x 110) | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { 8K SEF } \\ & (267 \mathrm{x} \\ & 390) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | A |
| 16K SEF $\begin{aligned} & (195 x \\ & 267) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | - |
| $\begin{aligned} & \text { 16K LEF } \\ & (267 \mathrm{x} \\ & 195) \end{aligned}$ | A | A | - | - | A | 50 | - | - | A | A | A |
| $\begin{aligned} & 12^{\prime \prime} \mathrm{x} \\ & 18^{\prime \prime} \mathrm{SEF} \end{aligned}$ | A | A | - | - | - | - | - | - | - | - | - |
| $11 " \text { x } 15 \text { " }$ <br> SEF | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | A |
| $\begin{aligned} & 10 " \mathrm{x} \\ & 14^{\prime \prime} \mathrm{SEF} \end{aligned}$ | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | A |
| $\begin{aligned} & 8.5 " \mathrm{x} \\ & 13.4 " \\ & \text { SEF } \end{aligned}$ | A | A | A | $\mathrm{A}^{* 2}$ | A | 50 | A | 20 | A | A | - |

Booklet Finisher SR3220

| $\begin{gathered} \text { Size (W } \\ \text { x L) } \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  |  | Half <br> fold <br> Midd <br> le <br> fold | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro of | Shi <br> ft | Shifti ng | Saddl e stitch |  | Single/Dou <br> ble stitch | Staple <br> amou <br> nt | Saddl <br> e <br> stitch | Saddl <br> e <br> stitch <br> amou <br> nt | EU2 <br> SC4 <br> Hole <br> s | NA2 <br> Hole <br> S | NA3 <br> EU4 <br> Hole <br> s |
| $\begin{aligned} & \text { A3 SEF } \\ & (297 \mathrm{x} \\ & 420) \end{aligned}$ | A | A | A | A | $\mathrm{A}^{* 5}$ | A | 30 | A | 15 | A | A | A |
| $\begin{aligned} & \text { A4 SEF } \\ & (210 \mathrm{x} \\ & 297) \end{aligned}$ | A | A | A | A | $\mathrm{A}^{* 5}$ | A | 50 | A | 15 | A | B | - |
| $\begin{aligned} & \text { A4 LEF } \\ & (297 \text { x } \\ & 210) \end{aligned}$ | A | A | A | - | - | A | 50 | - | - | A | A | A |
| $\begin{aligned} & \text { A5 SEF } \\ & (148 \mathrm{x} \\ & 210) \end{aligned}$ | A | A | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | A | A | - |
| $\begin{aligned} & \text { A5 LEF } \\ & (210 \mathrm{x} \\ & 148) \end{aligned}$ | A | A | A | - | - | - | - | - | - | A | B | - |
| $\begin{aligned} & \text { A6 SEF } \\ & (105 \mathrm{x} \\ & 148) \end{aligned}$ | A | B | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { B4 SEF } \\ & (257 \mathrm{x} \\ & 364) \end{aligned}$ | A | A | A | A | $\mathrm{A}^{* 5}$ | A | 30 | A | 15 | A | A | A |
| $\begin{aligned} & \text { B5 SEF } \\ & (182 \mathrm{x} \\ & 257) \end{aligned}$ | A | A | $A^{* 1}$ | A | $\mathrm{A}^{* 5}$ | A | 50 | A | 15 | A | A | - |
| $\begin{aligned} & \text { B5 LEF } \\ & (257 \mathrm{x} \\ & 182) \end{aligned}$ | A | A | A | - | - | A | 50 | - | - | A | A | A |
| $\begin{aligned} & \text { B6 SEF } \\ & (128 \mathrm{x} \\ & 182) \end{aligned}$ | A | A | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | - | - | - |


| Size (W | Paper exit |  |  |  | Half | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| [mm] | Pro <br> of | $\begin{gathered} \text { Shi } \\ \mathrm{ft} \end{gathered}$ | Shifti ng | Saddl <br> e <br> stitch | Midd <br> le <br> fold | Single/Dou ble stitch | Staple <br> amou <br> nt | Saddl <br> e <br> stitch | Saddl e stitch amou nt | EU2 <br> SC4 <br> Hole <br> s | NA2 <br> Hole <br> S | NA3 <br> EU4 <br> Hole <br> s |
| DLT <br> SEF <br> (11" x <br> 17") | A | A | A | A | $\mathrm{A}^{* 5}$ | A | 30 | A | 15 | A | A | A |
| Legal SEF <br> ( $8^{1 / 2} 2^{\prime \prime} \mathrm{x}$ <br> 14") | A | A | A | A | $\mathrm{A}^{* 5}$ | A | 30 | A | 15 | A | A | - |
| Foolsca <br> p SEF <br> ( $8^{1 / 2} 2^{\prime \prime} \mathrm{x}$ <br> 13") | A | A | A | - | - | A | 30 | - | - | A | A | - |
| LT SEF $\left(8^{1 / 2} 2^{\prime \prime} \mathrm{x}\right.$ <br> 11") | A | A | A | A | $\mathrm{A}^{* 5}$ | A | 50 | A | 15 | A | A | - |
| LT LEF $\begin{aligned} & (11 " x \\ & \left.8^{1 / 2 "}\right) \end{aligned}$ | A | A | A | - | - | A | 50 | - | - | A | A | A |
| Gov. <br> LG SEF $\left(8^{1 / 4} 4^{\prime \prime} \mathrm{x}\right.$ <br> 14") | A | A | A | - | - | A | 30 | - | - | A | A | - |
| Folio <br> SEF $\left(8^{1 / 2 "} \mathrm{x}\right.$ <br> 13") | A | A | A | - | - | A | 30 | - | - | A | A | - |
| $\begin{aligned} & \text { F/GL } \\ & \text { SEF ( } 8 \text { " } \\ & \text { x 13") } \end{aligned}$ | A | A | A | - | - | A | 30 | - | - | A | A | - |
| Eng <br> Quatro <br> SEF (8" | A | A | A | - | - | A | 50 | - | - | A | A | - |


| $\begin{gathered} \text { Size (W } \\ \text { x L) } \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  |  | Half | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro <br> of | $\begin{gathered} \text { Shi } \\ \mathrm{ft} \end{gathered}$ | Shifti ng | Saddl <br> e stitch | Midd le fold | Single/Dou ble stitch | Staple <br> amou <br> nt | Saddl <br> e stitch | Saddl <br> e <br> stitch <br> amou <br> nt | $\begin{gathered} \mathrm{EU} 2 \\ \mathrm{SC} 4 \\ \text { Hole } \\ \mathrm{s} \end{gathered}$ | NA2 <br> Hole <br> s | NA3 <br> EU4 <br> Hole <br> s |
| x 10") |  |  |  |  |  |  |  |  |  |  |  |  |
| Executi ve SEF $\begin{aligned} & \left(7^{1 / 4} 4^{\prime \prime} \mathrm{x}\right. \\ & \left.10^{1 / 2 "}\right) \end{aligned}$ | A | A | A | - | - | A | 50 | - | - | A | A | - |
| Executi ve LEF ( $10^{1 / 2 "}{ }^{\prime \prime}$ $\text { x } 7^{1 / 4 "} \text { ") }$ | A | A | A | - | - | A | 50 | - | - | A | A | A |
| HLT <br> SEF $\left(5^{1 / 21} \mathrm{x}\right.$ $8^{1 / 21} \text { ") }$ | A | A | $\mathrm{A}^{* 1}$ | - | - | - | - | - | - | A | A | - |
| Com10 SEF <br> (104.8 x <br> 241.3) | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { Com10 } \\ & \text { LEF } \\ & (241.3 \mathrm{x} \\ & 104.8) \\ & \hline \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - |
| Monarc <br> h SEF <br> (98.4 x <br> 190.5) | - | - | - | - | - | - | - | - | - | - | - | - |
| Monarc <br> h LEF <br> (190.5 x <br> 98.4) | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { C5 SEF } \\ & (162 \mathrm{x} \\ & 229) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - |


| Size (W <br> x L) <br> [mm] | Paper exit |  |  |  | $\begin{array}{c}\text { Half } \\ \text { fold }\end{array}$ <br> Midd <br> le <br> fold | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro of | Shi <br> ft | Shifti ng | Saddl e stitch |  | Single/Dou ble stitch | Staple <br> amou <br> nt | Saddl e stitch | Saddl <br> e <br> stitch <br> amou <br> nt | $\begin{gathered} \mathrm{EU} 2 \\ \mathrm{SC} 4 \\ \text { Hole } \\ \mathrm{s} \end{gathered}$ | NA2 <br> Hole <br> s | NA3 <br> EU4 <br> Hole <br> s |
| $\begin{aligned} & \text { C5 LEF } \\ & (229 \mathrm{x} \\ & 162) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { C6 SEF } \\ & (114 \mathrm{x} \\ & 162) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { C6LEF } \\ & (162 \mathrm{x} \\ & 114) \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - |
| DL Env SEF (110 x 220) | - | - | - | - | - | - | - | - | - | - | - | - |
| DL Env LEF $(220 \mathrm{x}$ 110) | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { 8K SEF } \\ & (267 \mathrm{x} \\ & 390) \end{aligned}$ | A | A | A | - | - | A | 30 | - | - | A | A | A |
| 16K SEF (195 x 267 ) | A | A | A | - | - | A | 50 | - | - | A | A | - |
| 16K <br> LEF <br> (267 x <br> 195 ) | A | A | A | - | - | A | 50 | - | - | A | A | A |
| $\begin{aligned} & 12^{\prime \prime} \mathrm{x} \\ & 18^{\prime \prime} \\ & \text { SEF } \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 l x | A | A | A | - | - | A | 30 | - | - | A | A | A |


| $\begin{gathered} \text { Size (W } \\ \times \mathbf{L}) \\ {[\mathrm{mm}]} \end{gathered}$ | Paper exit |  |  |  |  | Staple |  |  |  | Punch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro <br> of | $\begin{gathered} \mathrm{Shi} \\ \mathrm{ft} \end{gathered}$ | Shifti ng | Saddl <br> e stitch | Midd le fold | Single/Dou ble stitch | Staple <br> amou <br> nt | Saddl <br> e stitch | Saddl e stitch amou nt | EU2 <br> SC4 <br> Hole <br> s | NA2 <br> Hole <br> s | NA3 <br> EU4 <br> Hole <br> S |
| $\begin{aligned} & 15^{\prime \prime} \\ & \text { SEF } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 10 " \mathrm{x} \\ & 14^{\prime \prime} \\ & \text { SEF } \end{aligned}$ | A | A | A | - | - | A | 30 | - | - | A | A | A |
| $\begin{aligned} & 8.5^{\prime \prime} \mathrm{x} \\ & 13.4 " \\ & \text { SEF } \end{aligned}$ | A | A | A | A | $A^{* 5}$ | A | 30 | A | 15 | A | A | - |

Bridge Unit

| Size (W x L) [mm] | Paper exit | Bridge |
| :---: | :---: | :---: |
|  | Bridge upper paper exit | Finisher Bridge |
| A3 SEF (297 x 420) | A | A |
| A4 SEF (210 x 297) | A | A |
| A4 LEF (297 x 210) | A | A |
| A5 SEF (148 x 210) | A | A |
| A5 LEF (210 x 148 ) | A | A |
| A6 SEF (105 x 148) | A | A |
| B4 SEF (257 x 364) | A | A |
| B5 SEF (182 x 257) | A | A |
| B5 LEF ( 257 x 182 ) | A | A |
| B6 SEF (128 x 182 ) | A | A |
| DLT SEF (11" x 17") | A | A |
| Legal SEF ( $8^{1 / 22^{\prime \prime}}$ x 14") | A | A |
| Foolscap SEF ( $8^{1 / 2 \prime 2} \times 13$ ") | A | A |
| LT SEF ( $81 / 2^{\prime \prime}$ x 11") | A | A |
| LT LEF ( $11{ }^{\prime \prime} \times 1 / 1 / 2^{\prime \prime}$ ) | A | A |
| Gov. LG SEF ( $8^{1 / 4} \mathbf{4}^{\prime \prime}$ x 14") | A | A |
| Folio SEF ( $8^{1 / 4 \prime \prime}$ x 13") | A | A |
| F/GL SEF (8" x 13") | A | A |
| Eng Quatro SEF (8" x 10") | A | A |

## 1.Specifications

| Size ( $\mathbf{W} \times \mathrm{L}$ ) [mm] | Paper exit | Bridge |
| :---: | :---: | :---: |
|  | Bridge upper paper exit | Finisher Bridge |
| Executive SEF (71/4" x 10¹/2') | A | A |
|  | A | A |
| HLT SEF ( $5^{\left.1 / 22^{\prime \prime} \times 81 / 2 \text { ' }\right) ~}$ | A | A |
| Com10 SEF (104.8 x 241.3) | $\mathrm{A}^{* 1,3}$ | - |
| Com10 LEF (241.3 x 104.8) | $\mathrm{A}^{* 1,3,4}$ | - |
| Monarch SEF (98.4 x 190.5) | $\mathrm{A}^{* 1,3}$ | - |
| Monarch LEF (190.5 x 98.4) | $\mathrm{A}^{* 1,3,4}$ | - |
| C5 SEF (162 x 229) | $\mathrm{A}^{* 1,3}$ | - |
| C5 LEF (229 x 162) | $\mathrm{A}^{* 1,3,4}$ | - |
| C6 SEF (114 x 162) | $\mathrm{A}^{* 1,3}$ | - |
| C6LEF (162 x 114) | $\mathrm{A}^{* 1,3,4}$ | - |
| DL Env SEF (110 x 220) | $\mathrm{A}^{* 1,3}$ | - |
| DL Env LEF (220 x 110) | $\mathrm{A}^{* 1,3,4}$ | - |
| 8 K SEF (267 x 390) | A | A |
| 16K SEF (195 x 267 ) | A | A |
| 16K LEF (267 x 195 ) | A | A |
| 12" x 18" SEF | A | A |
| 11" x 15" SEF | A | A |
| 10" x 14" SEF | A | A |
| $8.5 "$ x 13.4" SEF | A | A |

Internal Finisher SR3180

| Size (W x L) [mm] | Paper exit |  | Staple |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Shift | Shifting | Single stitch | Staple amount |
| A3 SEF (297 x 420) | A | A | A | 5 |
| A4 SEF $(210 \times 297)$ | A | A | A | 5 |


| Size (W x L) [mm] | Paper exit |  | Staple |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Shift | Shifting | Single stitch | Staple amount |
| A4 LEF (297 x 210) | A | A | A | 5 |
| A5 SEF (148 x 210) | B | B | - | - |
| A5 LEF ( $210 \times 148$ ) | B | B | - | - |
| A6 SEF (105 x 148) | B | - | - | - |
| B4 SEF ( 257 x 364 ) | A | A | A | 5 |
| B5 SEF (182 x 257) | A | A | A | 5 |
| B5 LEF (257 x 182 ) | A | A | A | 5 |
| B6 SEF (128 x 182 ) | B | B | - | - |
| DLT SEF (11" x 17") | A | A | A | 5 |
| Legal SEF (81/2" x 14") | A | A | A | 5 |
| Foolscap SEF ( $8^{1 / 22^{\prime \prime} \times 13} 1$ ) | A | A | A | 5 |
| LT SEF ( $8^{1 / 22^{\prime \prime} \text { x 11") }}$ | A | A | A | 5 |
| LT LEF ( $11{ }^{\prime \prime}$ x 81/2") | A | A | A | 5 |
| Gov. LG SEF ( $8^{1 / 4} 4^{\prime \prime}$ x 14") | A | A | A | 5 |
| Folio SEF ( $8^{1 / 44^{\prime \prime} \times 13}$ ") | A | A | A | 5 |
| F/GL SEF (8" x 13") | B | B | - | - |
| Eng Quatro SEF (8" x 10") | B | B | - | - |
| Executive SEF ( $71 / 4^{\prime \prime} \times 10^{1 / 2} 2^{\prime \prime}$ ) | A | A | A | 5 |
| Executive LEF ( $10^{1 / 2} 2^{\prime \prime}$ x $71 / 4^{\prime \prime}$ ) | A | A | A | 5 |
| $\operatorname{HLT~SEF~(~} 5^{\left.1 / 22^{\prime \prime} \times 81 / 2 \text { " }\right) ~}$ | B | B | - | - |
| Com10 SEF (104.8 x 241.3) | B | - | - | - |
| Com10 LEF ( $241.3 \times 104.8$ ) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| Monarch SEF (98.4 x 190.5) | B | - | - | - |
| Monarch LEF (190.5 x 98.4) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| C5 SEF (162 x 229) | B | - | - | - |
| C5 LEF ( $229 \times 162$ ) | B | - | - | - |
| C6 SEF (114 x 162) | B | - | - | - |
| C6LEF (162 x 114) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| DL Env SEF (110 x 220) | B | - | - | - |
| DL Env LEF ( $220 \times 110$ ) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| 8 K SEF ( 267 x 390 ) | A | A | A | 5 |
| 16K SEF (195 x 267 ) | A | A | A | 5 |
| 16K LEF (267 x 195 ) | A | A | A | 5 |
| 12" x 18" SEF | B | - | - | - |
| $11^{\prime \prime}$ x 15" SEF | B | B | - | - |
| 10" x 14" SEF | B | B | - | - |


| Size (W x L) [mm] | Paper exit |  | Staple |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Shift |  | Shifting | Single stitch |
| Staple amount |  |  |  |  |
| $8.5 " \times 13.4 "$ SEF | A | A | A | 5 |

Internal Multi-Fold Unit FD3000

## For the unit without a finisher

| Size (W x L) [mm] | Paper exit | Fold-supporting paper size (for folding one sheet) |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Z-fold | Half fold | Letter fold in/Letter fold out |
| A3 SEF (297x 420) | A | A | A | A |
| A4 SEF (210 x 297) | A | A | A | A |
| A4 LEF (297 x 210) | A | - | - | - |
| A5 SEF (148 x 210) | A | - | - | - |
| A5 LEF ( $210 \times 148$ ) | A | - | - | - |
| A6 SEF (105 x 148) | A | - | - | - |
| B4 SEF ( 257 x 364 ) | A | A | A | - |
| B5 SEF (182 x 257) | A | - | - | - |
| B5 LEF ( 257 x 182 ) | A | - | - | - |
| B6 SEF (128 x 182 ) | A | - | - | - |
| DLT SEF (11" x 17") | A | A | A | A |
| Legal SEF ( $8^{1} / 2^{\prime \prime}$ x 14") | A | A | A | A |
| Foolscap SEF ( $8^{\left.1 / 22^{\prime \prime} \times 13 "\right)}$ | A | - | - | - |
| LT SEF ( $8^{1} / 2^{\prime \prime}$ x 11") | A | A | A | A |
| LT LEF (11" x 8 ${ }^{1 / 2}{ }^{\prime \prime}$ ) | A | - | - | - |
| Gov. LG SEF (81/4" x 14") | A | - | - | - |
| Folio SEF ( $8^{1 / 4 \prime}{ }^{\prime \prime}$ x 13") | A | - | - | - |
| F/GL SEF (8" x 13") | A | - | - | - |
| Eng Quatro SEF (8" x 10") | A | - | - | - |
| Executive SEF ( $71 / 4^{\prime \prime} \times 10^{1 / 2} 2^{\prime \prime}$ ) | A | - | - | - |
| Executive LEF ( $10^{1 / 22^{\prime \prime} \times 71 / 4 \text { ') }}$ | A | - | - | - |
| HLT SEF ( $5^{1 / 22^{\prime \prime} \times 81 / 2^{\prime \prime} \text { ) }}$ | A | - | - | - |
| Com10 SEF (104.8 x 241.3) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| Com10 LEF (241.3 x 104.8) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| Monarch SEF (98.4 x 190.5) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| Monarch LEF (190.5 x 98.4) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| C5 SEF (162 x 229) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| C5 LEF ( $229 \times 162$ ) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| C6 SEF (114 x 162) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| C6LEF (162 x 114) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |


| Size (W x L) [mm] | Paper exit | Fold-supporting paper size (for folding one sheet) |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Z-fold | Half fold | Letter fold in/Letter fold out |
| DL Env SEF (110 x 220) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| DL Env LEF (220 x 110) | $\mathrm{B}^{* 1,3,4}$ | - | - | - |
| 8K SEF ( 267 x 390 ) | A | A | A | - |
| 16K SEF (195 x 267 ) | A | - | - | - |
| 16K LEF (267 x 195 ) | A | - | - | - |
| 12" x 18" SEF | - | - | - | - |
| $11^{\prime \prime}$ x 15" SEF | A | - | - | - |
| 10 " x 14" SEF | A | - | - | - |
| $8.5 " \times 13.4 "$ SEF | A | A | A | A |

For the unit with a finisher

| Size (W x L) [mm] | Paper exit |  | Fold-supporting paper size (for folding one sheet) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fold tray | Finisher | Z-fold | Half fold | Letter fold in/Letter fold out |
| A3 SEF (297x 420) | $\mathrm{A}^{* 6}$ | A | A | A | A |
| A4 SEF ( $210 \times 297$ ) | $\mathrm{A}^{* 6}$ | A | A | A | A |
| A4 LEF (297 x 210) | $\mathrm{A}^{* 7}$ | A | - | - | - |
| A5 SEF (148 x 210) | - | A | - | - | - |
| A5 LEF (210 x 148 ) | $\mathrm{A}^{* 7}$ | A | - | - | - |
| A6 SEF (105 x 148) | - | A | - | - | - |
| B4 SEF (257 x 364) | $\mathrm{A}^{* 6}$ | A | A | A | - |
| B5 SEF (182 x 257) | - | A | - | - | - |
| B5 LEF ( 257 x 182 ) | $\mathrm{A}^{* 7}$ | A | - | - | - |
| B6 SEF (128 x 182 ) | - | A | - | - | - |
| DLT SEF (11" x 17") | $\mathrm{A}^{* 6}$ | A | A | A | A |
| Legal SEF (81/2" x 14") | $\mathrm{A}^{* 6}$ | A | A | A | A |
| Foolscap SEF ( $8^{1 / 2 \prime 2}$ x 13") | - | A | - | - | - |
|  | $\mathrm{A}^{* 6}$ | A | A | A | A |
| LT LEF ( $11{ }^{\prime \prime}$ x $8^{1 / 2} 2^{\prime \prime}$ ) | $\mathrm{A}^{* 7}$ | A | - | - | - |
| Gov. LG SEF ( $8^{1 / 4} 4^{\prime \prime}$ x 14") | - | A | - | - | - |
| Folio SEF ( $8^{1 / 44^{\prime \prime} \times 13}$ ") | - | A | - | - | - |
| F/GL SEF (8" x 13") | - | A | - | - | - |
| Eng Quatro SEF (8" x 10") | - | A | - | - | - |
| Executive SEF ( $71 / 4$ " x 10¹/2') | - | A | - | - | - |
|  | - | A | - | - | - |
| HLT SEF ( $5^{1 / 2 \prime 2} \times 8^{1 / 2} 2^{\prime \prime}$ ) | - | A | - | - | - |
| Com10 SEF (104.8 x 241.3) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| Com10 LEF (241.3 x 104.8) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |

## 1.Specifications

| Size (W x L) [mm] | Paper exit |  | Fold-supporting paper size (for folding one sheet) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fold tray | Finisher | Z-fold | Half fold | Letter fold in/Letter fold out |
| Monarch SEF (98.4 x 190.5) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| Monarch LEF (190.5 x 98.4) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| C5 SEF (162 x 229) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| C5 LEF ( $229 \times 162$ ) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| C6 SEF (114 x 162) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| C6LEF (162 x 114) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| DL Env SEF (110 x 220) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| DL Env LEF (220 x 110) | $\mathrm{B}^{* 1,3,4}$ | - | - | - | - |
| 8K SEF ( 267 x 390 ) | $\mathrm{A}^{* 6}$ | A | A | A | - |
| 16K SEF (195 x 267 ) | - | A | - | - | - |
| 16K LEF (267 x 195 ) | $\mathrm{A}^{* 7}$ | A | - | - | - |
| 12" x 18" SEF | $\mathrm{A}^{* 8}$ | A | - | A | - |
| $11^{\prime \prime}$ x 15" SEF | - | A | - | - | - |
| 10" x 14" SEF | - | A | - | - | - |
| $8.5 " \times 13.4 "$ SEF | $\mathrm{A}^{* 6}$ | A | A | A | A |

## Remarks:

| A | Paper through, paper exit available. |
| :--- | :--- |
| B | Will not guarantee, but paper can go through or exit. |
| - | Not available. |


| $* 1$ | Out of the true up precision guarantee. |
| :--- | :--- |
| $* 2$ | Multi folding can be done up to 5 sheets. |
| $* 3$ | Envelopes can only go through each at a time. |
| $* 4$ | Except envelopes with triangle flap. |
| $* 5$ | Only one sheet can be half folded with saddle stitch mode. <br> Therefore, multi sheets/sets must be paginated and exit one at a time. |
| $* 6$ | Paper exit is available when using a folding option. If not using a folding option, paper exit is not <br> available. |
| $* 7$ | Plain paper can be delivered to the tray only when Z-fold or half fold is partially specified in the job. |
| $* 8$ | Paper exit is not available even when using a folding option. |

## Option Specifications

ARDF DF3090 (D779-17, -21)

| Mode: | Batch mode, SADF mode, Mixed Sizes mode, Original Orientation mode, and Custom Size originals mode |
| :---: | :---: |
| Original Size: | - One-sided originals: A3 SEF-B6 JIS SEF/LEF, 11 x 17 SEF-8 $1 / 2 \times 11$ SEF/LEF <br> - Two-sided originals: A3 SEF-A5 SEF/LEF, 11 x 17 SEF-8 $1 / 2 \times 11$ SEF/LEF <br> NA <br> - One-sided originals: $11 \times 17$ SEF-5 $1 / 2 \times 81 / 2$ SEF/LEF, A3 SEF-A4 SEF/LEF <br> - Two-sided originals: $11 \times 17$ SEF-5 $1 / 2 \times 81 / 2$ SEF/LEF, A3 SEF-A4 SEF/LEF |
| Original weight: | - One-sided originals: $40-128 \mathrm{~g} / \mathrm{m} 2$ (11-34 lb. Bond) <br> - Two-sided originals: $52-128 \mathrm{~g} / \mathrm{m} 2(14-34 \mathrm{lb}$. Bond $)$ |
| Number of originals to be set (81 $\mathrm{g} / \mathrm{m} 2,20 \mathrm{lb}$. Bond): | 100 sheets |
| Maximum power consumption: | 42 W or less (Power is supplied from the main unit.) |
| Dimensions ( $\mathrm{W} \times \mathrm{D} \times \mathrm{H}$ ): | $565 \times 500 \times 125 \mathrm{~mm}$ ( $22.3 \times 19.7 \times 5.0$ inches) |
| Weight: | Approx. 9 kg (19.9 lb.) |

SPDF DF3100 (D3B0-17, -21)

| Configuration | Automatic document feed duplex scanner (one pass two-side scanning) |
| :---: | :---: |
| Mode: | Batch mode, SADF mode, Mixed Sizes mode, Original Orientation mode, and Custom Size originals mode |
| Original size | - One-sided originals: A3 SEF-B6 JIS SEF/LEF, $11 \times 17$ SEF-8 1/2 x $11 \mathrm{SEF} / \mathrm{LEF}$ <br> - Two-sided originals: A3 SEF-A5 SEF/LEF, $11 \times 17$ SEF-8 1/2 x 11 SEF/LEF <br> NA <br> - One-sided originals: $11 \times 17$ SEF-5 $1 / 2 \times 8$ 1/2 SEF/LEF, A3 SEF-A4 SEF/LEF <br> - Two-sided originals: $11 \times 17$ SEF-5 1/2 x 8 1/2 SEF/LEF, A3 SEF-A4 SEF/LEF |
| Scanning origin point | Origin at rear upper left corner |


| Original setting | Face-up on original tray |
| :--- | :--- |
| Original feed | Feeds from top of stack on original tray |
| Original separation | Feed belt and reverse roller separation by friction |
| Original scanning method | Through-sheet method (Front: White platen plate, Back: Color CIS and white <br> roller $)$ |
| Original tray capacity | 220 sheets $\left(80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}\right.$. Bond $)$ |
| Dimensions (w x d x h) | $587 \times 520 \times 175 \mathrm{~mm}(23.2 \times 20.5 \times 6.9 \mathrm{in})$. |
| Weight | Approx. $14 \mathrm{~kg}(30.9 \mathrm{lb})$. |
| Maximum power <br> consumption: | 55 W or less (Power is supplied from the main unit.) |

Internal Finisher SR3130 (D690)

| Paper size: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, $11 \times 17 \mathrm{SEF}, 81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 13 \mathrm{LEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}$, $81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10 \mathrm{SEF}, 71 / 4 \times 101 / 2 \mathrm{SEF} / \mathrm{LEF}, 51 / 2 \times 81 / 2 \mathrm{SEF}, 4$ 1/8 x 9 1/2 SEF/LEF, 3 7/8 x 7 1/2 SEF/LEF, C5 Env SEF/LEF, C6 Env SEF/LEF, DL Env SEF/LEF, 8K SEF, 16K SEF/LEF, $12 \times 18$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, SRA3 SEF, SRA4 SEF/LEF, custom size |
| :---: | :---: |
| Paper weight: | $60-300 \mathrm{~g} / \mathrm{m}^{2}$ (16 lb. Bond-110 lb. Cover) |
| Paper sizes that can be shifted: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, 8 1/2 x 14 SEF, $81 / 2 \times 13 \mathrm{LEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13$ SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, C5 Env SEF/LEF, 8K SEF, 16K SEF/LEF, $11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}$, SRA4 LEF, custom size |
| Paper weight that can be shifted: | $64-105 \mathrm{~g} / \mathrm{m}^{2}$ (17-28 lb. Bond) |
| Stack capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - 500 sheets: A4, $81 / 2 \times 11$ or smaller <br> - 250 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Staple paper size: | A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, 8 $1 / 2 \times 13$ LEF, $81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 71 / 4 \times 101 / 2$ SEF/LEF, 8K SEF, 16K SEF/LEF |
| Staple paper weight: | $64-105 \mathrm{~g} / \mathrm{m}^{2}(17-28 \mathrm{lb}$. Bond) |
| Staple capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - Without Mixed Size: <br> 30 sheets: <br> A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13 \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}$, $81 / 4 \times 13$ SEF, 8 K SEF <br> 50 sheets: <br> A4 SEF/LEF, B5 JIS SEF/LEF, 8 1/2 x 11 SEF/LEF, 7 1/4 x 10 1/2 SEF/LEF, 16K SEF/LEF |


|  | - With Mixed Size: <br> 30 sheets: <br> A3 SEF/ A4 LEF, B4 JIS SEF/ B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11 SEF |
| :---: | :---: |
| Stack capacity after stapling ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20$ <br> lb. Bond): | - 2-9 sheets: 55-46 sets (A4 LEF, B5 JIS LEF, 8 1/2 x 11 LEF) <br> - 10-50 sheets: 45-10 sets (A4 LEF, B5 JIS LEF, 8 1/2 x 11LEF) <br> - 2-9 sheets: 55-27 sets (A4 SEF, B5 JIS SEF, $81 / 2 \times 11$ SEF) <br> - $10-50$ sheets: $25-8$ sets (A4 SEF, B5 JIS SEF, $81 / 2 \times 11$ SEF) <br> - $2-9$ sheets: $55-27$ sets (A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2$ x 14 SEF) <br> - $\quad 10-30$ sheets: $25-8$ sets (A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2$ x 14 SEF) |
| Staple position: | Top 1, Bottom 1, Left 2, Top 2 |
| Power consumption: | - 50 W or less (without punch unit) (Power is supplied from the main unit.) <br> - 60 W or less (with punch unit) (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | $546 \times 523 \times 170 \mathrm{~mm}$ ( $21.5 \times 20.6 \times 6.7$ inches $)$ |
| Weight: | Approx. 13 kg ( 28.7 lb .) (without punch unit) Approx. 17 kg ( 37.5 lb .) (with punch unit) |

Finisher part specifications

| Item | Specification |
| :--- | :--- |
| Type | Case system |
| Shift tray | Yes |
| No. of sheets which can be <br> accommodated | $\mathrm{A} 4,8^{1} / 2 \times 11$ or smaller: $500 /$ height: lower than 57 mm <br> $\mathrm{~B} 4,8^{1} / 2 \times 14$ or larger: $250 /$ height: lower than 28.5 mm |
| Paper thicknesses which can be <br> handled | $52 \mathrm{~g} / \mathrm{m}^{2}-300 \mathrm{~g} / \mathrm{m}^{2}$ |
| Up/down shift function | No |
| Left/right shift function | Yes |
| Stapling function | Yes |
| Punching function | Option |
| Remainder detection | No |
| Full-load detection | Yes |
| Paper detection | No |
| Power consumption | Less than 47W (24V DC /2A) |
| Power source | $24 V$ DC (supplied from main printer), 5V SC (generated by FIN board), |


| Item | Specification |
| :--- | :--- |
|  | SELV (super-low voltage secondary power supply) |
| Dimensions <br> $($ width $\times$ depth $\times$ height $)$ | $546 \times 523 \times 170 \mathrm{~mm}$ |
| Mass | 12.8 kg or less |

Stapler unit specifications

| Item | Specification |
| :---: | :---: |
| No. of sheets which can be stitched | A3 SEF, B4 SEF, $11^{\prime \prime} \times 17^{\prime \prime} \mathrm{SEF}, 8^{1 / 2 "} \times 14^{" ~ S E F, ~} 8^{1 / 2 "} \times 13^{"} \mathrm{SEF}, 8^{1 / 4 "} \times 14^{\prime \prime} \mathrm{SEF}$, $8^{1 / 4 " \times 13 " \text { SEF: } 30}$ <br> A4 LEF / SEF, B5 LEF / SEF, $8^{1 / 21} 2^{\prime \prime} \times 11$ LEF / SEF, $7^{1 / 1 / 4 " \times 10^{1} / 2^{\prime \prime}}$ LEF / SEF: 50 When loading mixed widths: 30 |
| Sizes which can be stitched |  $8^{1 / 4 " \times 13 "}$ SEF <br> A4 LEF / SEF, B5 LEF / SEF, $8^{1 / 2} 2^{\prime \prime} \times 11^{\prime \prime}$ LEF / SEF, $7^{1 / 4 " \times 10^{1} / 2 " \mathrm{LEF} / \mathrm{SEF}}$ |
| Thicknesses which can be stitched | $52 \mathrm{~g} / \mathrm{m}^{2}-105 \mathrm{~g} / \mathrm{m}^{2}$ <br> The quality for sheets of paper which are thinner than $64 \mathrm{~g} / \mathrm{m}^{2}$ is not guaranteed. No. of sheets to be stitched decreases when sheets of paper are thicker than $64 \mathrm{~g} / \mathrm{m}^{2}$, depending on the weight. |
| Stitching position | Top, bottom, 2 positions on the left, 2 positions on the top |
| Staple supply | Refill charge to dedicated staple cartridge |
| Stitching capacity | 5000 / cartridge |

Finisher SR3210 (D3B8)

| Paper size for the finisher upper tray: | A3 SEF B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \mathrm{x}$ 13 LEF, $81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 13$ SEF, $8 \times 10$ SEF, $51 / 2 \times 81 / 2$ SEF, $71 / 4 \times 10$ 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, 8 1/2 x 13 2/5 LEF, custom size |
| :---: | :---: |
| Paper weight for the finisher upper tray: | $52-169 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond-90 lb. Index) |
| Stack capacity for the finisher upper tray ( 80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 250 sheets: A4, $81 / 2 \times 11$ or smaller 50 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Paper size for the finisher shift tray: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF, /LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times$ 13 LEF, $81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, $51 / 2 \times 81 / 2$ SEF, 8 K SEF, 16K SEF/LEF, SRA3 |


|  | SEF, SRA4 SEF/LEF, $81 / 2 \times 13$ 2/5 LEF, custom size |
| :---: | :---: |
| Paper weight for the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Paper sizes that can be shifted when delivered to the finisher shift tray: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, 12 x 18 SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13$ LEF, 8 $1 / 2 \times 11 \mathrm{SLF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}$, $8 \times 13$ SEF, $8 \times 10$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, $51 / 2 \times 81 / 2$ SEF, 8 K SEF, 16 K SEF/LEF, SRA4 LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| Paper weight that can be shifted when delivered to the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Stack capacity for the finisher shift tray (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 1,000 sheets: A4, $81 / 2 \times 11$ or smaller 500 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Staple paper size: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, $11 \times 15$ SEF, 10 x 14 SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ SEF/LEF, $71 / 4 \times 101 / 2$ SEF/LEF, $8 \times 13 \mathrm{SEF}$, $81 / 2 \times 13$ LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 10$ SEF, $12 \times 18$ SEF, 8 K SEF, 16K SEF/LEF, $81 / 2 \times 132 / 5 \mathrm{LEF}$, custom size |
| Staple paper weight: | - Stapling with staples: $52-105 \mathrm{~g} / \mathrm{m}^{2}(14-28 \mathrm{lb}$. Bond) <br> - Staple-free stapling: 64-80 g/m ${ }^{2}(17-20 \mathrm{lb}$. Bond) You can use two sheets of paper weighing up to $216 \mathrm{~g} / \mathrm{m}^{2}$ ( 80 lb . Cover) per set as cover sheets. |
| Staple capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - Without Mixed Size: <br> 30 sheets: <br> A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $8 \times 13 \mathrm{SEF}, 81 / 2 \times 13 \mathrm{LEF}$, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, 8 K SEF, $12 \times 18$ SEF, $81 / 2 \times 132 / 5$ LEF <br> 50 sheets: <br> A4 SEF/LEF, B5 JIS SEF/LEF, $81 / 2 \times 11$ SEF/LEF, $8 \times 10 \mathrm{SEF}, 71 / 4 \times 101 / 2$ SEF/LEF, 16K SEF/LEF <br> - With Mixed Size: <br> 22 sheets: <br> A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, $11 \times 17$ SEF/8 $1 / 2 \times 11$ SEF |
| Stack capacity after stapling ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. <br> Bond): | - Stapling with staples: <br> - $2-9$ sheets: 100 sets (A4 LEF, B5 JIS LEF, $81 / 2 \times 11$ LEF) <br> - 10-50 sheets: 100-20 sets (A4 LEF, B5 JIS LEF, $81 / 2 \times$ 11LEF) <br> - $\quad 10-50$ sheets: $50-10$ sets (A4 SEF, B5 JIS SEF, $81 / 2 \mathrm{x}$ 11SEF) |


|  | - 2-9 sheets: 50 sets (A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, $11 \times 17 \mathrm{SEF}, 81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 11 \mathrm{SEF}$ ) <br> - $10-30$ sheets: $50-10$ sets (A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF) <br> - Staple-free stapling: <br> - $2-5$ sheets: 100 sets (A4 SEF, B5 JIS SEF, $81 / 2 \times 11$ SEF) <br> - $2-5$ sheets: 50 sets (A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, $11 \times 17$ SEF, $81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 11$ LEF) |
| :---: | :---: |
| Staple position: | 3 positions (Top, Bottom, 2 Staples) |
| Power consumption: | 35.4 W (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | - Tray is folded: $575 \times 620 \times 960 \mathrm{~mm} \text { ( } 22.6 \times 24.5 \times 37.8 \text { inches })$ <br> - Tray is extended: $658 \times 620 \times 960 \mathrm{~mm}(25.9 \times 24.5 \times 37.8 \text { inches })$ |
| Weight: | Approx. $34 \mathrm{~kg}(75.0 \mathrm{lb}$. |

Booklet Finisher SR3220 (D3B9)

| Paper size for the finisher upper tray | A3 SEF, B4 JIS SEF, A4 SEF/LEF B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times$ 13 LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 13 \mathrm{SEF}, 8 \times 10$ SEF, $51 / 2 \times 81 / 2$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, 8 K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| :---: | :---: |
| Paper weight for the finisher upper tray: | $52-169 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond-90 lb. Index) |
| Stack capacity for the finisher upper tray ( 80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 250 sheets: A4, $81 / 2 \times 11$ or smaller 50 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Paper size for the finisher shift tray: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times$ 13 LEF, $81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, $51 / 2 \times 81 / 2$ SEF, 8 K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| Paper weight for the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Paper sizes that can be shifted when delivered to the finisher shift tray: | A3 SEF, A4 SEF/LEF, A5 SEF, B4 JIS SEF, B5 JIS SEF, B6 JIS SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13$ LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 13$ SEF, $8 \times 10$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, $51 / 2 \times 81 / 2$ SEF, 8 K SEF, 16 K SEF/LEF SRA4 LEF, $81 / 2 \times 132 / 5$ LEF |


| Paper weight that can be shifted when delivered to the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond-110 lb. Cover) |
| :---: | :---: |
| Stack capacity for the finisher shift tray (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 1,000 sheets: A4, $81 / 2 \times 14$ or smaller 500 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Staple paper size: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, 11 x 17 SEF, $11 \times 15$ SEF, 10 x 14 SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ SEF/LEF, $71 / 4 \times 10$ 1/2 SEF/LEF, $8 \times 13$ SEF, 8B $1 / 2 \times 13$ LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 10$ SEF, $12 \times 18$ SEF, 8K SEF, 16K SEF/LEF, $81 / 2 \times 132 / 5 \mathrm{LEF}$, custom size |
| Staple paper weight: | $52-105 \mathrm{~g} / \mathrm{m}^{2}(14-28 \mathrm{lb}$. Bond) <br> You can use two sheets of paper weighing up to $216 \mathrm{~g} / \mathrm{m}^{2}$ ( 80 lb . Cover) per set as cover sheets. |
| Staple capacity (80 <br> $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - Without Mixed Size: <br> 30 sheets: <br> A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $8 \times 13$ SEF, $81 / 2 \times 13$ LEF, <br> $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, 8 K SEF, $12 \times 18$ <br> SEF, $81 / 2 \times 132 / 5$ LEF <br> 50 sheets: <br> A4 SEF/LEF, B5 JIS SEF/LEF, $81 / 2 \times 11$ SEF/LEF, $8 \times 10$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, 16K SEF/LEF <br> - With Mixed Size: <br> 22 sheets: <br> A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, $11 \times 17$ SEF/8 1/2 x 11 SEF |
| Stack capacity after stapling ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. <br> Bond): | - Without Mixed Size: <br> - $2-9$ sheets: 100 sets (A4 LEF, B5 JIS LEF, $81 / 2 \times 11$ LEF) <br> - 10-50 sheets: 100-20 sets (A4 LEF, B5 JIS LEF, $81 / 2 \times 11$ LEF) <br> - 10-50 sheets: 50-10 sets (A4 SEF, B5 JIS SEF, $81 / 2 \times 11$ SEF) <br> - 2-9 sheets: 50 sets (A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, 11 x 17 SEF, $81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 11 \mathrm{SEF}$ ) <br> - $\quad 10-30$ sheets: $50-10$ sets (A3 SEF, B4 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF) <br> - With Mixed Size: <br> - 2-22 sheets: 22 sets (A3 SEF/ A4 LEF, B4 JIS SEF/B5 JIS SEF, $11 \times 17$ SEF/8 1/2 x 11 SEF ) |
| Staple position: | 3 positions (Top, Bottom, 2 Staples) |
| Saddle stitch paper size: | A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ LEF, 12 x 18 SEF |
| Saddle stitch paper | $52-105 \mathrm{~g} / \mathrm{m}^{2}(14-28 \mathrm{lb}$. Bond) |


| weight: |  |
| :---: | :---: |
| Saddle stitch capacity ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 1 set (15 sheets) |
| Stack capacity after saddle stitching (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | $2-5$ sheets: approx. 20 sets <br> $6-10$ sheets: approx. 10 sets <br> $11-15$ sheets: approx. 7 sets |
| Saddle stitch position: | Center 2 positions |
| Types of folds: | Half Fold |
| Half fold paper size: | A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ LEF, $12 \times 18$ SEF, $81 / 2 \times 132 / 5$ LEF |
| Half fold paper weight: | $52-105 \mathrm{~g} / \mathrm{m} 2$ (14-28 lb.Bond) |
| Power consumption: | 35.4 W (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | - Tray is folded: $575 \times 620 \times 960 \mathrm{~mm}(22.6 \times 24.5 \times 37.8 \text { inches })$ <br> - Tray is extended: $658 \times 620 \times 960 \mathrm{~mm}(25.9 \times 24.5 \times 37.8 \text { inches })$ |
| Weight: | Approx. 42 kg (92.6 lb.) |

Finisher SR3230 (D3BA)

| Paper size for the finisher upper tray: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times$ 13 LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 13$ SEF, $8 \times 10$ SEF, $51 / 2 \times 81 / 2$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| :---: | :---: |
| Paper weight for the finisher upper tray: | $52-220 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond-80 lb. Cover) |
| Stack capacity for the finisher upper tray ( 80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 250 sheets: A4, $81 / 2 \times 11$ or smaller 50 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Paper size for the finisher shift tray: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times$ $13 \mathrm{LEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10$ SEF, $51 / 2 \times 81 / 2$ SEF, $71 / 4 \times 10$ 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| Paper weight for the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond -110 lb . Cover) |
| Paper sizes that can be shifted when delivered | $\begin{aligned} & \text { A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, } 12 \\ & \text { x } 18 \mathrm{SEF}, 11 \times 17 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}, 81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 13 \mathrm{LEF}, 8 \end{aligned}$ |


| to the finisher shift tray: | $1 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10 \mathrm{SEF}, 51 / 2 \times$ 8 1/2 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, SRA4 LEF, 8 1/2 x 13 2/5 LEF, custom size |
| :---: | :---: |
| Paper weight that can be shifted when delivered to the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Stack capacity for the finisher shift tray (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - 3,000 sheets: A4 SEF, $81 / 2 \times 11$ SEF <br> - 1,500 sheets: A3 SEF, B4 JIS SEF, A4 LEF, B5 JIS SEF/LEF, 12 x 18 SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ LEF, SRA3LEF <br> - 500 sheets: A5 SEF <br> - 100 sheets: A5 LEF, B6 JIS SEF, A6 SEF, $51 / 2 \times 8$ 1/2 SEF |
| Staple paper size: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, $11 \times 15$ SEF, 10 x 14LEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ SEF/LEF, $71 / 4 \times 101 / 2$ SEF/LEF, $8 \times 13$ SEF, $81 / 2 \times 13$ LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 10$ SEF, 8 K SEF, 16 K SEF/LEF, $81 / 2 \times 132 / 5 \mathrm{LEF}$, custom size |
| Staple paper weight: | $52-105 \mathrm{~g} / \mathrm{m}^{2}(14-28 \mathrm{lb}$. Bond) <br> You can use two sheets of paper weighing up to $256 \mathrm{~g} / \mathrm{m}^{2}(140 \mathrm{lb}$. Index) per set as cover sheets. |
| Staple capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - Without Mixed Size: <br> 50 sheets: <br> A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, 8 1/2 x 14 SEF, $8 \times 13$ SEF, $81 / 2 \times 13$ LEF, $81 / 2 \times 11$ SEF/LEF, $8 \times 10$ SEF, $71 / 4 \times 10$ 1/2 SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, 8 K SEF, 16K SEF/LEF, 8 1/2 x 13 2/5 LEF <br> - With Mixed Size: <br> 50 sheets: <br> A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x 17 SEF/8 1/2 x 11 SEF |
| Stack capacity after stapling ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. <br> Bond): | Without Mixed Size: <br> - $2-19$ sheets: 150 sets (A4 LEF, $81 / 2 \times 11$ LEF) <br> - 20-50 sheets: $150-46$ sets (A4 LEF, $81 / 2 \times 11$ LEF) <br> - $2-14$ sheets: 100 sets (A4 SEF, B5 JIS SEF/SEF, $81 / 2 \times 11$ SEF) <br> - $15-50$ sheets: $100-23$ sets (A4 SEF, B5 JIS SEF/SEF, $81 / 2 \mathrm{x}$ 11 ;SEF) <br> - $\quad 2-14$ sheets: 100 sets (other size paper) <br> - 15-50 sheets: 100-23 sets (other size paper) <br> With Mixed Size: <br> - 2-50 sheets: 23 sets (A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS SEF, 11 x $17 \mathrm{SEF} / 81 / 2 \times 11 \mathrm{SEF}$ ) |
| Staple position: | 4 positions (Top, Top Slant, Bottom, 2 Staples) |


| Power consumption: | 64 W (Power is supplied from the main unit.) |
| :--- | :--- |
| Dimensions (W x D x | $657 \times 613 \times 960 \mathrm{~mm}(25.9 \times 24.2 \times 37.8$ inches) |
| $\mathrm{H}):$ | • Approx. $34 \mathrm{~kg}(75.0 \mathrm{lb}$.$) (without punch unit)$ <br> Weight:$\quad$ Approx. $39 \mathrm{~kg}(86.0 \mathrm{lb}$.$) (with punch unit)$ |

Booklet Finisher SR3240 (D3BB)

| Paper size for the finisher upper tray: | A3 SEF, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5 SEF/LEF, B6 JIS SEF, A6 SEF, $12 \times 18$ SEF, $11 \times 17$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times$ 13 LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 13$ SEF, $8 \times 10$ SEF, $51 / 2 \times 81 / 2$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, 8 K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| :---: | :---: |
| Paper weight for the finisher upper tray: | $52-220 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-80 lb. Cover) |
| Stack capacity for the finisher upper tray ( 80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - 250 sheets: A4, $81 / 2 \times 11$ or smaller <br> - 50 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Paper size for the finisher shift tray: | A3 SEF 1, B4 JIS SEF, A4 SEF/LEF, B5 JIS SEF/LEF, A5, B6 JIS SEF, A6, $12 \times 18 \mathrm{SEF}, 11 \times 17 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}, 81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 13 \mathrm{SEF}$, 81/2 x $11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10 \mathrm{SEF}, 51 / 2 \times$ 81/2 SEF, $71 / 4 \times 101 / 2$ SEF/LEF, 8 K SEF, 16K SEF/LEF, SRA3 SEF, SRA4 SEF/LEF, $81 / 2 \times 132 / 5$ LEF, custom size |
| Paper weight for the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Paper sizes that can be shifted when delivered to the finisher shift tray: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, 12 x 18 SEF, $11 \times 17 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}, 81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 13 \mathrm{LEF}, 8$ 1/2 x 11 SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, 8 x 13 SEF, $8 \times 10$ SEF, $51 / 2 \times$ $81 / 2$ SEF, $71 / 4 \times 10$ 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF SRA4 LEF, $81 / 2 \times 13$ 2/5 LEF, custom size |
| Paper weight that can be shifted when delivered to the finisher shift tray: | $52-300 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond-110 lb. Cover) |
| Stack capacity for the finisher shift tray (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - 2,000 sheets: A4 LEF, 8 1/2 x 11 LEF <br> - 1,000 sheets: A3 SEF, B4 JIS SEF, A4 SEF, B5 JIS SEF/LEF, 11 x 17 SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ SEF, $12 \times 18$ SEF, SRA3 SEF <br> - 500 sheets: A5 LEF <br> - 100 sheets: A5 SEF, B6 JIS SEF, A6 SEF, $51 / 2 \times 8$ 1/2 SEF |
| Staple paper size: | A3 SEF, B4 JIS SEF, A4 SEF/LEF B5 JIS SEF/LEF, $11 \times 17$ SEF, $11 \times 15$ SEF, 10 x |


|  | 14 SEF, $81 / 2 \times 14 \mathrm{SEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 71 / 4 \times 101 / 2 \mathrm{SEF} / \mathrm{LEF}, 8 \times 13 \mathrm{SEF}, 8$ 1/2 x 13 LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $8 \times 10$ SEF, 8 K SEF, 16K SEF/LEF, 8 1/2 $\times 13$ 2/5 LEF, custom size |
| :---: | :---: |
| Staple paper weight: | $52-105 \mathrm{~g} / \mathrm{m}^{2}$ (14-28 lb. Bond) <br> You can use two sheets of paper weighing up to $256 \mathrm{~g} / \mathrm{m}^{2}$ (140 lb. Index) per set as cover sheets. |
| Staple capacity (80 <br> $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - Without Mixed Size: <br> 50 sheets: <br> A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, $8 \times 13$ SEF, $81 / 2 \times 13 \mathrm{LEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 8 \times 10 \mathrm{SEF}, 71 / 4 \times 10$ 1/2 SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times 13$ SEF, $11 \times 15 \mathrm{v}$, $10 \times 14$ SEF, 8 K SEF, 16K SEF/LEF, 8 1/2 x 13 2/5 LEF <br> - With Mixed Size: <br> 50 sheets: <br> A3 SEF /A4 LEF, B4 JIS SEF /B5 JIS SEF, $11 \times 17$ SEF /81/2 x 11 SEF |
| Stack capacity after stapling ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. <br> Bond): | Without Mixed Size: <br> - $2-12$ sheets: 150 sets (A4 LEF, $81 / 2 \times 11$ LEF) <br> - 13-50 sheets: 150-30 sets (A4 LEF, $81 / 2 \times 11$ LEF) <br> - $2-9$ sheets: 100 sets (A4 SEF, B5 JIS SEF/LEF, $81 / 2 \times 11 \mathrm{SEF}$ ) <br> - $10-50$ sheets: $100-15$ sets (A4 SEF, B5 JIS SEF/LEF, $81 / 2 \times 11$ SEF) <br> - 2-9 sheets: 100 sets (other size paper) <br> - $10-50$ sheets: $100-15$ sets (other size paper) <br> With Mixed Size: <br> - 2-50 sheets: 23 sets (A3 SEF /A4 LEF, B4 JIS SEF /B5 JIS SEF, 11 x $17 \mathrm{SEF} / 81 / 2 \times 11 \mathrm{SEF}$ ) |
| Staple position: | 4 positions (Top, Top Slant, Bottom, 2 Staples) |
| Saddle stitch paper size: | A3 SEF, B4 JIS SEF, A4 LEF, B5 JIS LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$ LEF, $81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 12 \times 18 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}, 81 / 2$ x 13 2/5 LEF, custom size |
| Saddle stitch paper weight: | $64-105 \mathrm{~g} / \mathrm{m}^{2}(17-28 \mathrm{lb}$. Bond) <br> You can use a sheet of paper weighing up to $216 \mathrm{~g} / \mathrm{m} 2$ ( 80 lb . Cover) per set as a cover sheet. |
| Saddle stitch capacity ( $80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 1 set (20 sheets) |
| Stack capacity after saddle stitching (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | - $2-5$ sheets: approx. 30 sets <br> - 6-10 sheets: approx. 15 sets <br> - $11-15$ sheets: approx. 10 sets <br> - 16-20 sheets: approx. 6 sets |

## 1.Specifications

| Saddle stitch position: | Center 2 positions |
| :---: | :---: |
| Types of folds: | Half Fold |
| Half fold paper size: | A3 SEF, A4 LEF, B4 JIS SEF, B5 JIS LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 11$, $81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 12 \times 18 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}, 81 / 2 \times 13$ 2/5 LEF |
| Half fold paper weight: | - 1 sheet: <br> $64-216 \mathrm{~g} / \mathrm{m} 2(17 \mathrm{lb}$. Bond -80 lb . Cover) <br> - 2-5 sheets: <br> $64-90 \mathrm{~g} / \mathrm{m} 2(17-24 \mathrm{lb}$. Bond) |
| Power consumption: | 64 W (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | $657 \times 613 \times 960 \mathrm{~mm}$ ( $25.9 \times 24.2 \times 37.8$ inches ) |
| Weight: | - Approx. 53 kg ( 116.9 lb .) (without punch unit) <br> - Approx. 57 kg ( 125.7 lb .) (with punch unit) |

Side Tray Type M3 (D725)

| Paper size: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13$ LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times$ $13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10 \mathrm{SEF}, 71 / 4 \times 101 / 2 \mathrm{SEF} / \mathrm{LEF}, 51 / 2 \times 81 / 2 \mathrm{SEF}, 41 / 8 \times 91 / 2$ SEF/LEF, 3 7/8 x 7 1/2 SEF/LEF, C5 Env SEF/LEF, C6 Env SEF/LEF, DL Env SEF/LEF, 8K SEF, 16 K SEF/LEF, $12 \times 18 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}$, SRA3 SEF, SRA4 SEF/LEF, custom size |  |
| :---: | :---: | :---: |
| Paper weight: | $52-300 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond -110 lb . Cover) |  |
| Paper capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. <br> Bond): | - Internal tray 1: <br> 250 sheets: A4, $81 / 2 \times 11$ or smaller <br> 125 sheets: B4 JIS, $81 / 2 \times 14$ or larger <br> - External tray: <br> 125 sheets |  |
| Power consumption: | 12 W (Power is supplied from the main unit.) |  |
| Dimensions (W x D x H): | $800 \times 549 \times 156 \mathrm{~mm}$ ( $31.5 \times 21.7 \times 6.2$ inches) |  |
| Weight: | Approx. 4 kg (8.9 lb.) |  |
| Item |  | Specification |
| Linear velocity |  | $73-450 \mathrm{~mm} / \mathrm{sec}$ |
| Sizes which can be handled |  | Upper paper output: Paper width $90-320 \mathrm{~mm}$, Paper feed direction length 148600 mm |


| Item | Specification |
| :--- | :--- |
|  | Left paper output: Paper width $90-320 \mathrm{~mm}$, Paper feed direction length 148 - <br> 457.2 mm |
| Paper thicknesses | Upper paper output and left paper output are $52-300 \mathrm{~g} / \mathrm{m}^{2}$. |
| Upper paper output capacity | 250 sheets $\left(\mathrm{A} 4,8^{1} / 2^{\prime \prime} \times 11\right.$ " or smaller), $80 \mathrm{~g} / \mathrm{m}^{2}$ <br> 125 sheets $\left(\mathrm{B} 4,8^{1 / 2} \times 14\right.$ " or larger), $80 \mathrm{~g} / \mathrm{m}^{2}$ |
| Left paper output capacity | 125 sheets, $80 \mathrm{~g} / \mathrm{m}^{2}$ |
| Power source | Supplied from main printer (24V DC $\pm 10 \%, 5 \mathrm{~V}$ DC $\pm 5 \%)$. |
| Maximum power <br> consumption | Less than 12 W |
| Dimensions <br> $($ width $\times$ depth $\times$ height $)$ | Smaller than $800 \times 549 \times 156 \mathrm{~mm}$ |
| Weight | Less than $3.8 \mathrm{~kg}($ not including paper, packaging materials, and other items in <br> package) |

## Internal Finisher SR3180 (D766)

Finisher part specifications

| Item | $\quad$ Specification |
| :--- | :--- |
| Type | Case system |
| Shift tray | Yes |
| No. of sheets which can be <br> accommodated | A4, $8^{1} / 2 \times 11$ or smaller: 250 <br> B4, $8^{1} / 2 \times 14$ or larger: 125 |
| Paper thicknesses which can be <br> handled | $52 \mathrm{~g} / \mathrm{m}^{2}-300 \mathrm{~g} / \mathrm{m}^{2}$ |
| Up/down shift function | No |
| Left/right shift function | Yes |
| Stapling function | Yes |
| Punching function | No |
| Remainder detection | No |
| Full-load detection | Yes |
| Paper detection | No |
| Power consumption | Less than 30 W |
| Power source | 24 V DC (supplied from main frame), 5 V SC (generated by FIN board), |
| SELV (super-low voltage secondary power supply) |  |
| Dimensions <br> (width $\times$ depth $\times$ height | $435 \times 515 \times 150 \mathrm{~mm}$ |
| Mass | Less than 9.8 kg |

Stapler unit specifications

| Item | Specification |
| :--- | :--- |
| No. of sheets which can be stitched | 2 to 5 sheets |
| Sizes which can be stitched | A3 SEF - B5 SEF / DLT SEF - LT SEF |
| Thicknesses which can be stitched | $54 \mathrm{~g} / \mathrm{m} 2-80 \mathrm{~g} / \mathrm{m} 2$ |
| Stitching position | 1 position (Top Slant) |
| Staple supply | No |
| Stitching capacity | No |

Internal Shift Tray SH3070 (D691)

| Paper size: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13$ LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times$ $13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10 \mathrm{SEF}, 71 / 4 \times 101 / 2 \mathrm{SEF} / \mathrm{LEF}, 51 / 2 \times 81 / 2 \mathrm{SEF}, 41 / 8 \times 91 / 2$ SEF/LEF, 3 7/8 x 7 1/2 SEF/LEF, C5 Env SEF/LEF, C6 Env SEF/LEF, DL Env SEF/LEF, 8 K SEF, 16 K SEF/LEF, $12 \times 18 \mathrm{SEF}, 11 \times 15 \mathrm{SEF}, 10 \times 14 \mathrm{SEF}$, SRA3 SEF, SRA4 SEF/LEF, custom size |
| :---: | :---: |
| Paper weight: | $60-300 \mathrm{~g} / \mathrm{m}^{2}$ (16 lb. Bond-110 lb. Cover) |
| Paper sizes that can be shifted: | A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13$ LEF, $81 / 2 \times 11$ SEF/LEF, $81 / 4 \times 14$ SEF, $81 / 4 \times$ 13 SEF, $8 \times 13$ SEF, $8 \times 10$ SEF, $71 / 4 \times 101 / 2$ SEF/LEF, $51 / 2 \times 81 / 2$ SEF, $41 / 8 \times 91 / 2$ SEF/LEF, $37 / 8 \times 7$ 1/2 SEF/LEF, C5 Env SEF/LEF, C6 Env SEF/LEF, DL Env SEF/LEF, 8K SEF, 16K SEF/LEF, $12 \times 18$ SEF, $11 \times 15$ SEF, $10 \times 14$ SEF, SRA3 SEF, SRA4 SEF/LEF, custom size |
| Paper weight that can be shifted: | $60-300 \mathrm{~g} / \mathrm{m}^{2}$ (16 lb. Bond-110 lb. Cover) |
| Stack capacity ( 80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. <br> Bond): | - 250 sheets: A4, $81 / 2 \times 11$ or smaller <br> - 125 sheets: B4 JIS, $81 / 2 \times 14$ or larger |
| Power consumption: | 4.3 W (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | $420 \times 489 \times 107 \mathrm{~mm}$ ( $16.6 \times 19.3 \times 4.3$ inches) |
| Weight: | Approx. 2 kg (4.5 lb.) |


| Item | Specification |
| :--- | :--- |
| Type | Case installation, paper ejection tray displacement system |
| Linear velocity | $73-450 \mathrm{~mm} / \mathrm{sec}$ |
| Sizes which can be | A3 SEF, A4 SEF, A4 LEF, A5 SEF, A5 LEF, A6 SEF, B4 SEF, B5 SEF, B5 |


| Item | Specification |
| :---: | :---: |
| accommodated | LEF, B6 SEF, $11^{\prime \prime \times} \times 17^{\prime \prime} \mathrm{SEF}, 8^{1 / 2 "} \times 14^{\prime \prime} \mathrm{SEF}, 8^{1 / 2 "} \times 11^{\prime \prime} \mathrm{SEF}, 8^{1 / 2 "} \times 11^{\prime \prime} \mathrm{LEF}$, $5^{1 / 2 "} \times 8^{1 / 2} 2^{\prime \prime}$ SEF, $12 " \times 18^{\prime \prime}$ SEF, undefined size |
|  | Width: $90-320 \mathrm{~mm}$, length ${ }^{* 2}$ : 148-600 mm (stack quality is guaranteed to 432 mm) |
| Paper thicknesses which can be accommodated | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ |
| Sizes which can be shifted | A3 SEF, A4 LEF, A4 SEF, A5 LEF, A5 SEF, A6 SEF, B4 SEF, B5 LEF, B5 SEF, B6 SEF, $11^{\prime \prime} \times 17^{\prime \prime}$ SEF, $8^{1 / 2 " ~} \times 14$ " SEF, $8^{1 / 2 "} \times 11^{\prime \prime}$ LEF, $8^{1 / 2 "} \times 11^{\prime \prime}$ SEF, $5^{1 / 2 "} \times 8^{1} / 2^{\prime \prime}$ SEF, $12 " \times 18^{\prime \prime}$ SEF |
|  | Width: $90-320 \mathrm{~mm}$, length ${ }^{* 2}$ : 148-600 mm (stack quality is guaranteed to 432 mm ) |
| No. of bins | 1 bin (can be shifted) |
| No. of sheets which can be accommodated* ${ }^{*}$ | A4, $8^{1 / 2 "} \times 11$ " or smaller: 250 B4, $8^{1 / 2 " \times 14 " ~ o r ~ l a r g e r: ~} 125$ |
| Power source | Supplied from main printer ( $24 \mathrm{~V} \mathrm{DC} \pm 10 \%$, 5 V DC $\pm 5 \%$ ). |
| Maximum power consumption | 4.3 W |
| Dimensions <br> (width $\times$ depth $\times$ height) | $420 \times 489 \times 107 \mathrm{~mm}$ (except for projecting parts) |
| Weight | Less than 1.4 kg <br> (not including packaging materials and other items in package) |
| Service life | 1200 k sheets or 5 years |

* $180 \mathrm{~g} / \mathrm{m}^{2}$ or less (paper exceeding $80 \mathrm{~g} / \mathrm{m}^{2}$ is calculated by weight)
*2 Up to 1280 mm in SP mode.

1 Bin Tray BN3110 (D3CQ)

| Number of bins: | 1 |
| :---: | :---: |
| Paper size: | A3 SEF A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF B5 JIS SEF/LEF, $11 \times 17$ SEF, $81 / 2$ x 14 SEF, $81 / 2 \times 13 \mathrm{LEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}$, $8 \times 10$ SEF, $71 / 4 \times 10$ 1/2 SEF/LEF, $51 / 2 \times 81 / 2$ SEF, 8 K SEF, 16 K SEF/LEF, $11 \times 15$ SEF, $10 \times 14$ SEF, SRA3 SEF, SRA4 SEF/LEF, custom size |
| Paper weight: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Paper capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 125 sheets |
| Power consumption: | 1 W or less (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | $444 \times 450 \times 150 \mathrm{~mm}$ ( $17.5 \times 17.8 \times 6.0$ inches) |

## 1.Specifications

| Weight: | Approx. $2 \mathrm{~kg}(4.5 \mathrm{lb})$. |
| :--- | :--- |


| Item | Specification |
| :---: | :---: |
| Type | Cabinet installation, paper received from right |
| Linear velocity | $73-512 \mathrm{~mm} / \mathrm{sec}$ |
| Sizes which can be accommodated | SRA3 SEF, A3 SEF, A4 SEF, A4 LEF, A5 SEF, A5 LEF, A6 SEF, B4 SEF, B5 SEF, B5 LEF, B6 SEF, $12^{\prime \prime} \times 18^{\prime \prime}$ SEF, $11^{\prime \prime} \times 17^{\prime \prime}$ SEF, $8^{1 / 2 "} \times 14$ " SEF, $8^{1 / 2 "} \times 11^{\prime \prime}$ SEF, $8^{1 / 2} 2^{\prime \prime} \times 11^{\prime \prime} \mathrm{LEF}, 5^{1 / 2} 2^{\prime \prime} \times 8^{1 / 2} 2^{\prime \prime} \mathrm{SEF}$, undefined size |
| Paper thicknesses which can be accommodated | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ |
| No. of bins | 1 bin |
| No. of sheets which can be accommodated | 125 (up to $80 \mathrm{~g} / \mathrm{m}^{2}$ ) |
| Power source | Supplied from main machine ( $\mathrm{DC} 5 \mathrm{~V} \pm 5 \%$ ). |
| Maximum power consumption | For copy: 0.15 W |
| Dimensions (width x depth x height) | $444 \times 450 \times 150 \mathrm{~mm}$ (except for projecting parts) |
| Weight | Less than 1.4 kg (not including decals, paper, packaging materials and other items in package) |
| Service life | 3000 k sheets or 5 years |

Bridge Unit BU3070 (D685)

| Stack capacity $\left(80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}\right.$. Bond $):$ | $\bullet \quad 250$ sheets: A4, $81 / 2 \times 11$ or smaller |
| :--- | :---: |
|  | \begin{tabular}{\|l|}
\hline
\end{tabular} |
| Power consumption: | 15 W (Power is supplied from the main unit.) |
| Dimensions (W x D x H): | $412 \times 466 \times 143 \mathrm{~mm}(16.3 \times 18.4 \times 5.7$ inches $)$ |
| Weight: | Approx. $4 \mathrm{~kg}(8.9 \mathrm{lb})$. |

## Punch Unit PU3040 NA/EU/SC (D716)

| Paper <br> size: | Punch unit type | Paper size |
| :--- | :--- | :--- |
|  | $2 \& 4$ holes type: 2 <br> holes | SEF: A3, A4, B4 JIS, B5 JIS, $11 \times 17,81 / 2 \times 14,81 / 2 \times 13,81 / 2 \times 11,7$ <br> $1 / 4 \times 101 / 2,8 \mathrm{~K}, 16 \mathrm{~K}$ |
|  | $2 \& 4$ holes type: 2 <br> holes | LEF: A4, B5 JIS, $81 / 2 \times 11,16 \mathrm{~K}$ |
|  | $2 \& 4$ holes type: 4 | SEF: A3, $11 \times 17$ |


|  | holes |  |
| :--- | :--- | :--- |
|  | $2 \& 4$ holes type: 4 <br> holes | LEF: A4, $81 / 2 \times 11$ |
|  | 4 holes type: 4 holes | SEF: A3, A4, B4 JIS, B5 JIS, $11 \times 17,81 / 2 \times 14,81 / 2 \times 13,81 / 2 \times 11,7$ <br> $1 / 4 \times 101 / 2$ |
|  | 4 holes type: 4 holes <br> holes | LEF: A4, B5 JIS, $81 / 2 \times 11$ |
|  | $2 \& 3$ holes type: 2 <br> holes | LEF: A4, $81 / 2 \times 11$ |
|  | $2 \& 3$ holes type: 3 <br> holes | SEF: A3, $11 \times 17$ |
|  | $2 \& 3$ holes type: 3 <br> holes | LEF: A4, $81 / 2 \times 11$ |


| Paper weight: | $60-169 \mathrm{~g} / \mathrm{m}^{2}(16 \mathrm{lb}$. Bond -90 lb . Index $)$ |
| :--- | :--- |

Punch Unit PU3050 NA/EU/SC (D717)

| Paper <br> size: | Punch unit type | Paper size |
| :---: | :---: | :---: |
|  | $2 \& 4$ holes type: 2 holes | $\begin{aligned} & \text { SEF: A3, B4 JIS, A4, B5 JIS, A5, } 11 \times 17,81 / 2 \times 14,81 / 2 \times 11,51 / 2 \times 81 / 2,7 \\ & 1 / 4 \times 101 / 2,8 \times 13,81 / 2 \times 13,81 / 4 \times 13,8 \mathrm{~K}, 16 \mathrm{~K}, 81 / 4 \times 14,8 \times 10,11 \times 15,10 \\ & \times 14 \end{aligned}$ |
|  | $2 \& 4$ holes type: 2 holes | LEF: A4, B5 JIS, A5, $81 / 2 \times 11,71 / 4 \times 10$ 1/2, 16K |
|  | $2 \& 4$ holes type: 4 holes | SEF: A3, B4 JIS, $11 \times 17,11 \times 15,8 \mathrm{~K}$ |
|  | 2 \& 4 holes type: 4 holes | LEF: A4, B5 JIS, $81 / 2 \times 11,71 / 4 \times 10$ 1/2, 16K |
|  | 4 holes type: 4 holes | $\begin{aligned} & \text { SEF: A3, B4 JIS, A4, B5 JIS, A5, } 11 \times 17,81 / 2 \times 14,81 / 2 \times 11,51 / 2 \times 81 / 2,7 \\ & 1 / 4 \times 101 / 2,8 \times 13,81 / 2 \times 13,81 / 4 \times 13,8 \text { K, } 16 \mathrm{~K}, 81 / 4 \times 14,8 \times 10,11 \times 15,10 \\ & \times 14 \end{aligned}$ |
|  | 4 holes type: 4 holes | LEF: A4, B5 JIS, A5, $81 / 2 \times 11,71 / 4 \times 10$ 1/2, 16K |
|  | $2 \& 3$ holes type: 2 holes | SEF: A3, B4 JIS, B5 JIS, A5, $11 \times 17,81 / 2 \times 14,81 / 2 \times 11,51 / 2 \times 81 / 2,71 / 4 \times$ $101 / 2,8 \times 13,81 / 2 \times 13,81 / 4 \times 13,8 \mathrm{~K}, 16 \mathrm{~K}, 81 / 4 \times 14,8 \times 10,11 \times 15,10 \times 14$ |
|  | $2 \& 3$ holes type: 2 holes | LEF: A4, B5 JIS, $81 / 2 \times 11,71 / 4 \times 101 / 2,16 \mathrm{~K}$ |

## 1.Specifications

|  | $2 \& 3$ holes <br> type: 3 holes | SEF: A3, B4 JIS, $11 \times 17,11 \times 15,10 \times 14,8 \mathrm{~K}$ |
| :--- | :--- | :--- |
|  | $2 \& 3$ holes <br> type: 3 holes | LEF: A4, B5 JIS, $81 / 2 \times 11,71 / 4 \times 101 / 2,16 \mathrm{~K}$ |


| Paper weight: | $52-256 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond-140 lb. Index $)$ |
| :--- | :--- |

## Punch Unit PU3060 NA/EU/SC (D706)

| Paper size: | Punch unit type | Paper size |
| :---: | :---: | :---: |
|  | $2 \& 4$ holes type: 2 holes | $\begin{aligned} & \text { SEF: A3, B4 JIS, A4, B5 JIS, A5, } 11 \times 17,8^{1 / 2} \times 14,8^{1 / 2} \times 11,5^{1 / 2} \times 8^{1 / 2} 2,7^{1 / 4} \times \\ & 10^{1 / 2}, 8 \times 13,8^{1 / 2} \times 13,8^{1 / 4} \times 13,8 \mathrm{~K}, 16 \mathrm{~K}, 8^{1 / 4} \times 14,8 \times 10,11 \times 15,10 \times 14, \\ & \text { custom size } \end{aligned}$ |
|  | $2 \& 4$ holes type: 2 holes | LEF: A4, B5 JIS, A5, $8^{1 / 2} \times 11,7 \frac{1}{4} \times 10^{1 / 2}, 16 \mathrm{~K}$, custom size |
|  | $2 \& 4$ holes type: 4 holes | SEF: A3, B4 JIS, $11 \times 17,11 \times 15,8 \mathrm{~K}$, custom size |
|  | $2 \& 4$ holes type: 4 holes | LEF: A4, B5 JIS, $8^{1 / 2} \times 11,7 \frac{1}{4} \times 10^{1 / 2}$, 16 K , custom size |
|  | 4 holes type: 4 holes | $\begin{aligned} & \text { SEF: A3, B4 JIS, A4, B5 JIS, A5, } 11 \times 17,8^{1 / 2} \times 14,8^{1 / 2} \times 11,5^{1 / 2} \times 8^{1 / 2}, 7^{1 / 4} \times \\ & 10^{1 / 2}, 8 \times 13,8^{1 / 2} \times 13,8^{1 / 4} \times 13,8 \mathrm{~K}, 16 \mathrm{~K}, 8^{1 / 4} \times 14,8 \times 10,11 \times 15,10 \times 14, \\ & \text { custom size } \end{aligned}$ |
|  | 4 holes type: 4 holes | LEF: A4, B5 JIS, A5, $81 / 2 \times 11,7 \frac{1}{4} \times 10^{1 / 2}, 16 \mathrm{~K}$, custom size |
|  | 2 \& 3 holes type: 2 holes | $\begin{aligned} & \text { SEF: A3, B4 JIS, B5 JIS, A5, } 11 \times 17,8^{1 / 2} \times 14,8^{1 / 2} \times 11,5^{1 / 2} \times 8^{1 / 2}, 7^{1 / 1} 4 \times 10^{1 / 2}, 8 \\ & \times 13,8^{1 / 2} \times 13,8^{1 / 4} \times 13,8 \mathrm{~K}, 16 \mathrm{~K}, 8^{1 / 4} \times 14,8 \times 10,11 \times 15,10 \times 14 \text {, custom size } \end{aligned}$ |
|  | 2 \& 3 holes type: 2 holes | LEF: A4, B5 JIS, $8^{1 / 2} \times 11,7^{1 / 4} \times 10^{1 / 2}, 16 \mathrm{~K}$, custom size |
|  | $2 \& 3$ holes type: 3 holes | SEF: A3, B4 JIS, $11 \times 17,11 \times 15,10 \times 14,8 \mathrm{~K}$, custom size |
|  | $2 \& 3$ holes type: 3 holes | LEF: A4, B5 JIS, $8^{1 / 2} \times 11,7 \frac{1}{4} \times 10^{1 / 2} 2,16 \mathrm{~K}$, custom size |


| Paper weight: | $52-256 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond- 140 lb. Index $)$ |
| :--- | :--- |

Internal Multi-fold Unit FD3000 (M482)

| Item |  |
| :--- | :--- |
| Fold type | Half Fold, Letter Fold-out, Letter Fold-in, Z-fold |
| 58 |  |


| Item | Specification |
| :---: | :---: |
| Paper size: | - With Z-fold: <br> A3 SEF, A4 SEF, B4 SEF, $11 \times 17 \mathrm{SEF}, 8^{1 / 2} \times 14 \mathrm{SEF}, 8^{1 / 2} \times 11 \mathrm{SEF}, 8 \mathrm{~K} \mathrm{SEF}, 8^{1 / 2}$ $\times 13^{2} / 5 \mathrm{SEF}$ <br> - With Half Fold: <br> A3 SEF, A4 SEF, B4 SEF, $11 \times 17 \mathrm{SEF}, 8^{1 / 2} \times 14 \mathrm{SEF}, 8^{1 / 2} \times 11 \mathrm{SEF}, 8 \mathrm{~K} \mathrm{SEF}, 12$ $\times 18 \mathrm{SEF}^{*}$, SRA $3 \mathrm{SEF}^{*}, 8 \frac{1}{2} \times 13^{2} / 5 \mathrm{SEF}$ <br> $* 12 \times 18$ SEF and SRA3 SEF papers can be delivered only if the finisher is connected beyond the internal multi-fold unit. <br> - With Letter Fold-out, and Letter Fold-in: <br> A3 SEF, A4 SEF, $11 \times 17 \mathrm{SEF}, 8^{1 / 2} \times 14 \mathrm{SEF}, 8^{1 / 2} \times 11 \mathrm{SEF}, 81 / 2 \times 13^{2} / 5 \mathrm{SEF}$ |
| Paper weight: | $64-105 \mathrm{~g} / \mathrm{m} 2(17-28 \mathrm{lb}$. Bond) |
| Power requirements: | Power is supplied from the main unit. |
| Power consumption: | 40 W |
| $\begin{aligned} & \text { Dimensions }(\mathrm{W} \times \mathrm{D} \\ & \times \mathrm{H}) \text { : } \end{aligned}$ | - Without Finisher: <br> - When the tray is stowed: $612 \times 555 \times 184 \mathrm{~mm}(9.5 \times 21.9 \times 7.3 \text { inches })$ <br> - When the tray is extended: $714 \times 555 \times 242 \mathrm{~mm}(28.2 \times 21.9 \times 9.6 \text { inches })$ <br> - With Finisher: $420 \times 555 \times 152 \mathrm{~mm}(16.6 \times 21.9 \times 6.0 \text { inches })$ |
| Weight: | Approx. 15 kg ( 33.1 lb .) |

Paper Feed Unit PB3150 (D694)

| Paper size: | A3 SEF, A4 SEF/LEF, A5 SEF, B4 JIS SEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13$ LEF, $81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4$ x $13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8 \times 10 \mathrm{SEF}, 7 \mathrm{l} / 4 \times 10$ 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 10 x 14 SEF, 4 1/8 x 9 1/2 SEF, C5 Env SEF, SRA3 SEF, custom size |
| :---: | :---: |
| Paper weight: | $52-300 \mathrm{~g} / \mathrm{m}^{2}$ (14 lb. Bond-110 lb. Cover) |
| Paper capacity ( 80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 550 sheets x 1 tray |
| Power consumption: | 19 W or less (Power is supplied from the main unit.) |
| $\begin{aligned} & \text { Dimensions (W x D } \\ & \text { x H): } \end{aligned}$ | $587 \times 685 \times 120 \mathrm{~mm}$ ( $23.2 \times 27.0 \times 4.8$ inches) |
| Weight: | Approx. 11 kg (24.3 lb.) |

## 1.Specifications

Paper Feed Unit PB3220/PB3210 (D787-17, -18)

| Paper size: | A3 SEF, A4 SEF/LEF, A5 SEF, B4 JIS SEF, B5 JIS SEF/LEF, $11 \times 17$ SEF, $81 / 2 \times 14$ SEF, $81 / 2 \times 13 \mathrm{LEF}, 81 / 2 \times 11 \mathrm{SEF} / \mathrm{LEF}, 81 / 4 \times 14 \mathrm{SEF}, 81 / 4 \times 13 \mathrm{SEF}, 8 \times 13 \mathrm{SEF}, 8$ x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, $12 \times 18$ SEF, $11 \times 15 \mathrm{SEF}, 10$ x 14 SEF, 4 1/8 x 9 1/2 SEF, C5 Env SEF, SRA3 SEF, custom size |
| :---: | :---: |
| Paper weight: | $60-300 \mathrm{~g} / \mathrm{m}^{2}$ (16 lb. Bond-110 lb. Cover) |
| Paper capacity (80 $\mathrm{g} / \mathrm{m}^{2}, 20 \mathrm{lb}$. Bond): | 550 sheets x 2 trays |
| Power consumption: | 21 W or less (Power is supplied from the main unit.) |
| Dimensions ( W x D x H): | $587 \times 685 \times 247 \mathrm{~mm}$ ( $23.2 \times 27.0 \times 9.8$ inches) |
| Weight: | Approx. $22.0 \mathrm{~kg}(48.5 \mathrm{lb}$. |

LCIT PB 3170 (D695)

| Paper size: | A4 LEF, $81 / 2 \times 11 \mathrm{LEF}$, |
| :--- | :--- |
| Paper weight: | $52-300 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond- 110 lb. Cover $)$ |
| Paper capacity $\left(80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}\right.$. Bond $):$ | 1,000 sheets $\times 2$ trays |
| Power consumption: | 15 W or less (Power is supplied from the main unit. $)$ |
| Dimensions (W x D x H): | $587 \times 685 \times 247 \mathrm{~mm}(23.2 \times 27.0 \times 9.8$ inches $)$ |
| Weight: | Approx. $20 \mathrm{~kg}(44.1 \mathrm{lb})$. |

LCIT RT 3030 (D696)

| Paper size: | A4 LEF, B5 JIS LEF, $81 / 2 \times 11 \mathrm{LEF}$ |
| :--- | :--- |
| Paper weight: | $52-300 \mathrm{~g} / \mathrm{m}^{2}(14 \mathrm{lb}$. Bond- 110 lb. Cover $)$ |
| Paper capacity $\left(80 \mathrm{~g} / \mathrm{m}^{2}, 20 \mathrm{lb}\right.$. Bond $):$ | 1,500 sheets |
| Power consumption: | 13 W or less (Power is supplied from the main unit. $)$ |
| Dimensions $(\mathrm{W} \times \mathrm{D} \times \mathrm{H}):$ | $340 \times 540 \times 290 \mathrm{~mm}(13.4 \times 21.3 \times 11.5$ inches $)$ |
| Weight: | Approx. $10 \mathrm{~kg}(22.1 \mathrm{lb})$. |

## 2. Preventive Maintenance

## Preventive Maintenance

## Preventive Maintenance Items

- The amounts mentioned as the PM interval indicate the number of prints.

Chart: A4/LT (LEF) / 6\%
Mode:
MP 2555/3055: 3 copies/original (prints/job)
MP 3555/4055/5055/6055: 5 copies/original (prints/job)
Environment: Normal temperature and humidity
Yield may change depending on circumstances and print conditions.
Symbol keys: C: Clean, R: Replace, L: Lubricate, I: Inspect

Mainframe: MP 3555/3055/2555

| Item | 120K | 240K | 360 K | EM | Life | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Scanner |  |  |  |  |  |  |
| Exposure Glass | - | C/I/L | - | $\mathrm{C} / \mathrm{I} / \mathrm{L}$ | - | Clean with a cleaning cloth. <br> Do not clean with alcohol. Doing so may leave |
| Sheet-through <br> Exposure Glass | - | C/I/L | - | C/I/L | - | a whitish trace that affects image scanning. |
| Shield Glass | - | - | - | C/I/L |  | Clean with an optics cloth. |
| PCU |  |  |  |  |  |  |
| Developer | R | - | - | - | - | Clear the PM counter. |
| Development Roller | C/I/L | - | - | - | - | Clean |
| Development Filter | R | - | - | - | - | Clear the PM counter. |
| Development Case | C/I/L | - | - | - | - | Clean the guide plate and remove spots where toner adheres. |
| Development <br> Entrance Seal | C/I/L | - | - | C/I/L | - | Remove dust. |
| Development Side Seal | R | - | - | - | - |  |
| Doctor Blade | C/I/L | - | - | - | - | Remove adhering developer. |
| Development Bearing | - | R | - | - | - |  |

## 2.Preventive Maintenance

| Item | 120K | 240K | 360K | EM | Life | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Charge Roller | R | - | - | - | - | Clear the PM counter. |
| Charge Roller Cleaner | R | - | - | - | - |  |
| Cleaning Blade | R | - | - | - | - |  |
| Cleaning Blade Side Seal | C/I/L | - | - | - | - |  |
| Cleaning Entrance <br> Seal | C/I/L | - | - | - | - |  |
| OPC Drum | R | - | - | - | - | Clear the PM counter. |
| Pick-off Pawl | R | - | - | - | - |  |
| Waste Toner Bottle | R | - | - |  | - | Replace when waste toner bottle full is detected. <br> Clear the PM counter. |
| Quenching Lamp | C/I/L | - | - | - | - |  |
| Transfer |  |  |  |  |  |  |
| Transfer Unit | R | - | - | - | - | Clear the PM counter. |
| Fusing Exit Guide | C/I/L | - | - | - | - |  |
| ID Sensor | C/I/L | - | - | C/I/L | - | Use a blower brush. <br> Initialize the ID sensor after cleaning. |


| Fusing |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Heating Sleeve Belt Unit | - | R | - | - | 260k | Clear the PM counter. |
| Fusing Entrance Guide Plate | - | - | - | C/I/L | - | Remove adhering toner. |
| Fusing Exit Guide Plate | - | - | - | C/I/L | - |  |
| Stripper Plate | - | - | - | C/I/L | - |  |
| Pressure Roller | - | R | - |  | 260k | Clear the PM counter. |
| Pressure Roller Bearing | - | R | - |  | 260k | Lubricate (FLUOTRIBO MG GREASE) after replacing the bearing. |
| Thermopile | - | C/I/L | - | C/I/L | - | Clean with a dry cloth. |
| Pressure Roller Gear | - | - | - | C/I/L | - | Replace when the gear is worn out. |
| Idler Gear | - | - | - | C/I/L | - |  |
| Fusing Entrance Sensor | C/I/L | - | - | C/I/L | - | Clean the sensor part with a blower brush. |
| Fusing Exit Sensor | C/I/L | - | - | C/I/L | - |  |

Mainframe: MP 6055/5055/4055

| Item | 160K | 320K | 480K | EM | Life | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Scanner |  |  |  |  |  |  |
| Exposure Glass | - | C/I/L | - | C/I/L | - | Clean with a cleaning cloth. <br> Do not clean with alcohol. Doing so may leave a whitish trace that affects image scanning. |
| Sheet-through <br> Exposure Glass | - | C/I/L | - | C/I/L | - |  |
| Shield Glass | - | - | - | C/I/L | - | Clean with an optics cloth. |
| PCU |  |  |  |  |  |  |
| Developer | R | - | - | - | - | Clear the PM counter. |
| Development Roller | C/I/L | - | - | - | - | Clean |
| Development Filter | R | - | - | - | - | Clear the PM counter. |
| Development Case | C/I/L | - | - | - | - | Clean guide plate and spots where toner adheres. |
| Development <br> Entrance Seal | C/I/L | - | - | C/I/L | - | Remove dust. |
| Development Side <br> Seal | R | - | - | - | - |  |
| Doctor Blade | C/I/L | - | - | - | - | Remove adhering developer. |
| Development Bearing | - | R | - | - | - | Clear the PM counter. |
| Charge Roller | R | - | - | - | - |  |
| Charge Roller <br> Cleaner | R | - | - | - | - |  |
| Cleaning Blade | R | - | - | - | - |  |
| Cleaning Blade Side <br> Seal | C/I/L | - | - | - | - |  |
| Cleaning Entrance <br> Seal | C/I/L | - | - | - | - |  |
| OPC Drum | R | - | - | - | - | Clear the PM counter. |
| Pick-off Pawl | R | - | - | - | - |  |
| Waste Toner Bottle | R | - | - | - | - | Replace when waste toner full is detected. Clear the PM counter. |
| Quenching Lamp | C/I/L | - | - | - | - |  |
| Transfer |  |  |  |  |  |  |
| Transfer Unit | R | - | - | - | - | Clear the PM counter. |
| Fusing Exit Guide | C/I/L | - | - | - | - |  |
| ID Sensor | C/I/L | - | - | C/I/L | - | Use a blower brush. <br> Initialize the ID sensor after Cleaning. |

## 2.Preventive Maintenance

| Item | 160K | 320K | 480K | EM | Life | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fusing |  |  |  |  |  |  |
| Heating Sleeve Belt Unit | - | R | - | - | 350k | Clear the PM counter. |
| Fusing Entrance Guide Plate | - | - | - | C/I/L | - | Remove adhering toner. |
| Fusing Exit Guide Plate | - | - | - | C/I/L | - |  |
| Stripper Plate | - |  | - | C/I/L | - |  |
| Pressure Roller | - | R | - | - | 350k | Clear the PM counter. |
| Pressure Roller Bearing | - | R | - | - | 350k | Lubricate (FLUOTRIBO MG GREASE) after replacing the bearing. |
| Thermopile | - | C/I/L | - | C/I/L | - | Clean with a dry cloth. |
| Pressure Roller Gear | - | - | - | C/I/L | - | Replace if the gear is worn out. |
| Idler Gear | - | - | - | C/I/L | - |  |
| Fusing Entrance Sensor | C/I/L | - | - | C/I/L | - | Clean the sensor part with a blower brush. |
| Fusing Exit Sensor | C/I/L | - | - | C/I/L | - |  |

## Optional Peripheral Devices

## ARDF DF3090

| Item | $\mathbf{E M}$ | $\mathbf{1 2 0 K}$ | $\mathbf{2 4 0 K}$ | $\mathbf{3 6 0 K}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pick-up Roller | C | R | R | R | Wipe with a cloth dampened with ethyl alcohol. |
| Feed Belt | C | R | R | R | Nipe with a cloth dampened with ethyl alcohol. |
| Separation Roller | C | R | R | R | Wipe with a cloth dampened with ethyl alcohol. |
| Sensors | C | - | - | - | Clean with a blower brush. |
| Gears | L | - | - | - | Lubricate, if necessary. |
| Platen Sheet | C | - | - | - | Wipe with a cloth dampened with ethyl alcohol. |
| Other Rollers | C | - | - | - |  |
| Scanner Guide Plate | C | - | - | - |  |

## SPDF DF3100

| Item | EM | 120 K |  |
| :--- | :--- | :--- | :--- |
| Pick-up roller | C | R | Wipe with a cloth dampened with ethyl alcohol. |
| Feed belt | C | R | Wipe with a cloth dampened with ethyl alcohol or water. |
| Separation roller | C | R | Wipe with a cloth dampened with ethyl alcohol. |
| CIS (Glass area) | C | - | Clean with the RICOH's glass cleaner. |
| Sensors | C | - | Clean with a blower brush. |


| Item | EM | 120 K |  |
| :--- | :--- | :--- | :--- |
| Gears | L | - | Lubricate, if necessary. |
| Platen sheet | C | - | Wipe with a cloth dampened with ethyl alcohol. |
| Other rollers | C | - |  |
| Scanner guide plate | C | - |  |

## Paper Feed Unit PB3150/PB3210/PB3220

| Item | EM |  |
| :--- | :--- | :--- |
| Paper Feed Roller | C | Wipe with a cloth dampened with ethyl alcohol. |
| Pick-up Roller | C |  |
| Separation Roller | C |  |
| Relay Rollers | C |  |
| Bottom Plate Pad | C | Remove dust with dry cloth. |
| Sensors | C |  |

## LCIT PB3170/PB3230/RT3030

| Item | EM |  |
| :--- | :--- | :--- |
| Paper Feed Roller | C | Wipe with a cloth dampened with ethyl alcohol. |
| Pick-up Roller | C |  |
| Separation Roller | C |  |
| Relay Rollers | C |  |
| Bottom Plate Pad | C | Remove dust with dry cloth. |
| Sensors | C |  |

## 1 Bin Tray BN3110

| Item | EM | Note |
| :--- | :--- | :--- |
| Rollers | C | Wipe with a cloth dampened with ethyl alcohol. |
| Copy Tray | C | Clean with a damp cloth, and then wipe with a dry cloth. |
| Sensors | C | Clean with a blower brush. |
| Bearings | C | Lubricate with silicone oils when noise occurred. |

## Bridge Unit BU3070

| Item | EM | Note |
| :--- | :--- | :--- |
| Rollers | C | Wipe with a cloth dampened with ethyl alcohol. |

## Internal Shift Tray SH3070

| Item | EM | Note |
| ---: | :--- | :--- |
| Exit Tray | C | Clean with a damp cloth, and then wipe with a dry cloth. |

## 2.Preventive Maintenance

## Side Tray Type M3

| Item | EM | Note |
| :--- | :--- | :--- |
| Rollers | C | Wipe with a cloth dampened with ethyl alcohol. |
| Sensors | C | Remove dusts with dry cloth. |

## Internal Multi-Fold Unit FD3000

| Item | EM |  |
| :--- | :--- | :--- |
| Bearings | C | Lubricate with Silicone Grease G-501 when noise occurs. |
| Driven rollers | C | Wipe with a damp cloth, then a dry cloth. |
| Fold rollers | C |  |
| Paper exit rollers | C |  |
| Paper sensor | C | Remove paper dust with a blower brush or the corner of a triangular-folded <br> cloth. |
| Paper transport <br> rollers | C | Wipe with a damp cloth, then a dry cloth. |
| Trays | C |  |

Booklet Finisher SR3220 / Finisher SR3210

| Item | EM | 500 K |  |
| :--- | :--- | :--- | :--- |
| Drive rollers | C | - | Wipe with a cloth dampened with ethyl alcohol. |
| Driven rollers | C | - |  |
| Quenching <br> brush | C | - |  |
| Bearings | C | - | Lubricate with Silicone Grease G-501 when noise occurs. |
| Sensors | C | - | Clean with a blower brush. |
| Jogger fences | C | - | Lubricate with Silicone Grease G-501 when abnormal noise is generated or <br> abnormal operation occurs. |
| Stapler | - | R | Replace when the staple counter in the logging data reached 500k. |

## Booklet Finisher SR3230 / Finisher SR3240

| Item | EM |  |
| :--- | :--- | :--- |
| Drive rollers | C | Wipe with a cloth dampened with ethyl alcohol. |
| Driven rollers | C |  |
| Quenching <br> brush | C |  |
| Bearings | C |  |
| Sensors | C |  |
| Stapler <br> $($ Corner $)$ | R | Replace when the staple counter in the logging data reached 500k. <br> Staple a few times to test after replacement. |


| Item | EM | Note |
| :--- | :--- | :--- |
| Punch | R | Replace the unit when the punch reaches the end of life, i.e., when the number of <br> punched sheets exceeds one million. |
| Punch dust | C | Discard paper dust when the hopper is detected to be full. |

## Punch Unit Type PU3060 (D706)

This Punch Unit is for the Booklet Finisher SR3240 (D3BB)/Finisher SR3230 (D3BA)

|  | $\mathbf{2 4 0 0 K}$ | $\mathbf{3 0 0 0 K}$ | $\mathbf{4 0 0 0 K}$ | EM | Note |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Punch Waste Hopper | I | I | I | I | Remove and empty |
| Punch Unit |  |  |  | C | Replace after 1000k punches. |

## Internal Finisher SR3130

| Item | EM | Notes |
| :--- | :--- | :--- |
| Rollers | C | Wipe with a cloth dampened with ethyl alcohol. |
| Sensors | C | Clean with a blower brush. |
| Stapler | R | Replace when staple counter on logging data reached 200 thousand times. |
| Bearings | C | Lubricate with silicone oils when noise occurred. |

## Internal Finisher SR3180

| Item | EM | Notes |
| :--- | :--- | :--- |
| Rollers | C | Wipe with a cloth dampened with ethyl alcohol. |
| Sensors | C | Clean with a blower brush. |
| Stapler | R | Replace when staple counter on logging data reached 200 thousand times. |

## Related SP Codes

This is a list of the PM related SP codes.

| SP7803 | PM Counter Display | Displays the PM count since the last PM. |
| :--- | :--- | :--- |
| SP7804 | PM Counter Reset | Resets the PM count. |

Others Yield Parts

Some of the parts mentioned in these tables have a target yield. However, the total copy/print volume made by the machine will not reach the target yield within the machine's targeted lifetime if the machine is used under the target usage conditions (ACV, color ratio, $\mathrm{P} / \mathrm{J}$, and $\mathrm{C} / \mathrm{O}$ ). So, these parts are categorized not as PM parts but as yield parts (EM parts). The parts with "(R)" in this table are yield parts.
Chart: A4 (LT)/5\%
Mode: 4 copies / original (prints/job)
Ratio 30\%
Environment: Normal temperature and humidity
Yield may change depending on circumstances and print conditions.

## Hix

Symbol keys: C: Clean, R: Replace, L: Lubricant, I: Inspect, U: Unique for this model,

## Mainframe:

| Description | Q'ty/Unit | Expected Yield (Pages) | Unique or Common |
| :---: | :--- | :--- | :--- |
| Development Unit | 1 | MP2555/MP3055/MP3555: 420k <br> MP4055/MP5055/MP6055: 900k | U |

ARDF DF3090/SPDF DF3100:

| Description | Q'ty/Unit | Expected Yield (Pages) | Unique or Common |  |
| :--- | :--- | :--- | :--- | :---: |
| Paper Feed Belt | 1 | 120k | C |  |
| Pick-up Roller | 1 |  |  |  |
| Reverse Roller | 1 |  |  |  |

## 3. SP Mode Tables

## SP Group 1000

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 001 \end{aligned}$ | Leading Edge <br> Registration | Trayl: Thin | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 002 \end{aligned}$ | Leading Edge <br> Registration | Tray1: Plain | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 003 \end{aligned}$ | Leading Edge <br> Registration | Tray1: Mid-thick | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 004 \end{aligned}$ | Leading Edge <br> Registration | Tray1: Thick 1 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 005 \end{aligned}$ | Leading Edge <br> Registration | Tray1: Thick 2 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 006 \end{aligned}$ | Leading Edge <br> Registration | Tray1: Thick 3 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 007 \end{aligned}$ | Leading Edge <br> Registration | Tray1: Thick 4 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 008 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Thin | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 009 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Plain | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 010 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Mid-thick | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 011 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Thick 1 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 012 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Thick 2 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 013 \end{aligned}$ | Leading Edge Registration | Tray2: Thick 3 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 014 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Thick 4 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 015 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thin | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 016 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Plain | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 017 \end{aligned}$ | Leading Edge Registration | By-pass: Mid-thick | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 018 \end{aligned}$ | Leading Edge Registration | By-pass: Thick 1 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 019 \end{aligned}$ | Leading Edge Registration | By-pass: Thick 2 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 020 \end{aligned}$ | Leading Edge Registration | By-pass: Thick 3 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 021 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thick 4 | ENG | [-9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 022 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Thin | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 023 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Plain | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 024 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Mid-thick | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 025 \end{aligned}$ | Leading Edge Registration | Duplex: Thick 1 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 026 \end{aligned}$ | Leading Edge Registration | Duplex: Thick 2 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 027 \end{aligned}$ | Leading Edge Registration | Duplex: Thick 3 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 028 \end{aligned}$ | Leading Edge Registration | Tray1: Thin:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 029 \end{aligned}$ | Leading Edge Registration | Tray1: Plain:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 030 \end{aligned}$ | Leading Edge Registration | Tray1: Mid-thick:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 031 \end{aligned}$ | Leading Edge Registration | Tray1: Thick 1:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 032 \end{aligned}$ | Leading Edge Registration | Tray1: Thick 2:1200 | ENG | [ -9 to 9 / 0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 033 \end{aligned}$ | Leading Edge Registration | Tray1: Thick 3:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 034 \end{aligned}$ | Leading Edge Registration | Tray1: Thick 4:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 035 \end{aligned}$ | Leading Edge Registration | Tray2: Thin:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 036 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Plain:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 037 \end{aligned}$ | Leading Edge Registration | Tray2: Mid-thick:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 038 \end{aligned}$ | Leading Edge Registration | Tray2: Thick 1:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 039 \end{aligned}$ | Leading Edge Registration | Tray2: Thick 2:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 040 \end{aligned}$ | Leading Edge Registration | Tray2: Thick 3:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 041 \end{aligned}$ | Leading Edge <br> Registration | Tray2: Thick 4:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 042 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thin:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 043 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Plain:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 044 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Mid-thick:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 045 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thick 1:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 046 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thick 2:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 047 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thick 3:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 048 \end{aligned}$ | Leading Edge <br> Registration | By-pass: Thick 4:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 049 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Thin:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 050 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Plain:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 051 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Mid-thick:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 052 \end{aligned}$ | Leading Edge <br> Registration | Duplex: Thick 1:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 053 \end{aligned}$ | Leading Edge Registration | Duplex: Thick 2:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 054 \end{aligned}$ | Leading Edge Registration | Duplex: Thick 3:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 055 \end{aligned}$ | Leading Edge Registration | Tray3: Thin | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 056 \end{aligned}$ | Leading Edge Registration | Tray3: Plain | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 057 \end{aligned}$ | Leading Edge Registration | Tray3: Mid-thick | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 058 \end{aligned}$ | Leading Edge <br> Registration | Tray3: Thick 1 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 059 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 2 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 060 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 3 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 061 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 4 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 062 \end{aligned}$ | Leading Edge Registration | Tray3: Thin:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 063 \end{aligned}$ | Leading Edge Registration | Tray3: Plain:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 064 \end{aligned}$ | Leading Edge Registration | Tray3: Mid-thick:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 065 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 1:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 066 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 2:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 067 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 3:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 068 \end{aligned}$ | Leading Edge Registration | Tray3: Thick 4:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 069 \end{aligned}$ | Leading Edge Registration | Tray4: Thin | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 070 \end{aligned}$ | Leading Edge Registration | Tray4: Plain | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 071 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Mid-thick | ENG | [ -9 to 9 / 0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 072 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Thick 1 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 073 \end{aligned}$ | Leading Edge Registration | Tray4: Thick 2 | ENG | [ -9 to 9 / 0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 074 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Thick 3 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 075 \end{aligned}$ | Leading Edge Registration | Tray4: Thick 4 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 076 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Thin:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 077 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Plain:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 078 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Mid-thick:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 079 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Thick 1:1200 | ENG | [ -9 to 9 / 0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 080 \end{aligned}$ | Leading Edge Registration | Tray4: Thick 2:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 081 \end{aligned}$ | Leading Edge <br> Registration | Tray4: Thick 3:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 082 \end{aligned}$ | Leading Edge Registration | Tray4: Thick 4:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 083 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Thin | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 084 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Plain | ENG | [ -9 to 9 / 0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 085 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Mid-thick | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 086 \end{aligned}$ | Leading Edge <br> Registration | Tray5(LCT): Thick 1 | ENG | [ -9 to 9 / 0 / 0.1mm] |
| 1-001- $087$ | Leading Edge Registration | Tray5(LCT): Thick 2 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 088 \end{aligned}$ | Leading Edge <br> Registration | Tray5(LCT): Thick 3 | ENG | [ -9 to 9/0 / 0.1mm] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 089 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Thick 4 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 090 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Thin:1200 | ENG | [ -9 to 9/0 / 0.1mm] |
| $\begin{aligned} & 1-001- \\ & 091 \end{aligned}$ | Leading Edge <br> Registration | Tray5(LCT): Plain:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & \hline 1-001- \\ & 092 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Mid-thick:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 093 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Thick 1:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 094 \end{aligned}$ | Leading Edge <br> Registration | Tray5(LCT): Thick 2:1200 | ENG | [ -9 to $9 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-001- \\ & 095 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Thick 3:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-001- \\ & 096 \end{aligned}$ | Leading Edge Registration | Tray5(LCT): Thick 4:1200 | ENG | [ -9 to 9/0/0.1mm] |
| $\begin{aligned} & 1-002- \\ & 001 \end{aligned}$ | Side-to-Side <br> Registration | By-pass Tray | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-002- \\ & 002 \end{aligned}$ | Side-to-Side <br> Registration | Paper Tray 1 | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-002- \\ & 003 \end{aligned}$ | Side-to-Side <br> Registration | Paper Tray 2 | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-002- \\ & 004 \end{aligned}$ | Side-to-Side <br> Registration | Paper Tray 3 | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| 1-002- <br> 005 | Side-to-Side <br> Registration | Paper Tray 4 | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-002- \\ & 006 \end{aligned}$ | Side-to-Side <br> Registration | Duplex | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-002- \\ & 007 \end{aligned}$ | Side-to-Side <br> Registration | Large Capacity Tray | ENG* | [ -4 to $4 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 001 \end{aligned}$ | Paper Buckle | Paper Trayl: Thin | ENG | [ -4 to 5 / $0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 002 \end{aligned}$ | Paper Buckle | Paper Trayl: Plain | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 003 \end{aligned}$ | Paper Buckle | Paper Tray 1: Mid-thick | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-003- \\ & 004 \end{aligned}$ | Paper Buckle | Paper Tray1: Thick1 | ENG | [ -4 to $5 /-2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 005 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Thin | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 006 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Plain | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 007 \end{aligned}$ | Paper Buckle | Tray 2/3/4/5/LCT: Mid-thick | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 008 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Thick 1 | ENG | [ -4 to $5 /-2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 009 \end{aligned}$ | Paper Buckle | By-pass: Thin | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 010 \end{aligned}$ | Paper Buckle | By-pass: Plain | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 011 \end{aligned}$ | Paper Buckle | By-pass: Mid-thick | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 012 \end{aligned}$ | Paper Buckle | By-pass:Thick1 | ENG | [ -4 to $5 /-1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 013 \end{aligned}$ | Paper Buckle | Duplex:Thin | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 014 \end{aligned}$ | Paper Buckle | Duplex:Plain | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 015 \end{aligned}$ | Paper Buckle | Duplex: Mid-thick | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 016 \end{aligned}$ | Paper Buckle | Duplex:Thick1 | ENG | [ -4 to $5 /-1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 017 \end{aligned}$ | Paper Buckle | Paper Tray1: Thin:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 018 \end{aligned}$ | Paper Buckle | Paper Tray1: Plain:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 019 \end{aligned}$ | Paper Buckle | Paper Tray 1: Mid-thick:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 020 \\ & \hline \end{aligned}$ | Paper Buckle | Paper Tray1: Thick1:1200 | ENG | [ -4 to $5 /-2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 021 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Thin:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-003- \\ & 022 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Plain:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 023 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Mid:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 024 \end{aligned}$ | Paper Buckle | Tray2/3/4/5/LCT: Thick 1:1200 | ENG | [ -4 to $5 /-2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 025 \end{aligned}$ | Paper Buckle | By-pass: Thin:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 026 \end{aligned}$ | Paper Buckle | By-pass: Plain:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 027 \end{aligned}$ | Paper Buckle | By-pass: Mid-thick:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 028 \end{aligned}$ | Paper Buckle | By-pass:Thick1:1200 | ENG | [ -4 to $5 /-1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 029 \end{aligned}$ | Paper Buckle | Duplex:Thin:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 030 \end{aligned}$ | Paper Buckle | Duplex:Plain:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 031 \end{aligned}$ | Paper Buckle | Duplex: Mid-thick:1200 | ENG | [ -4 to $5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-003- \\ & 032 \end{aligned}$ | Paper Buckle | Duplex:Thick1:1200 | ENG | [ -4 to $5 /-1 / 0.1 \mathrm{~mm}$ ] |
| 1-007- <br> 001 | By-Pass Size Detection | Switch LT SEF/LG SEF | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: 8.5 \times 11 \mathrm{SEF} \\ & 1: 8.5 \times 14 \mathrm{SEF} \end{aligned}$ |
| $\begin{aligned} & 1-007- \\ & 002 \end{aligned}$ | By-Pass Size Detection | By-Pass Jam Detection Set | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Normal } \\ & \text { 1: Simple Detect } \end{aligned}$ |
| $\begin{aligned} & 1-009- \\ & 001 \end{aligned}$ | Initial Operation Setting | Registration Gear Backlash Cut | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-010- \\ & 001 \end{aligned}$ | Feed Pickup SOL Initial Movement | Control ON/OFF 0:OFF/1:ON | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 001 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray1: Thin | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \end{aligned}$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1: ON |
| $\begin{aligned} & 1-011- \\ & 002 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray1: Plain | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 003 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray1: Thick | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 004 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray2: Thin | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 005 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray2: Plain | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 006 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray2: Thick | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 007 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray3: Thin | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 008 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray3: Plain | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 009 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray3: Thick | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| 1-011- $010$ | Pickup SOL Separate Setting | Paper Tray4: Thin | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 011 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray4: Plain | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & \text { 1-011- } \\ & 012 \end{aligned}$ | Pickup SOL Separate Setting | Paper Tray4: Thick | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 013 \end{aligned}$ | Pickup SOL Separate Setting | Paper LCT: Thin | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \end{aligned}$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1: ON |
| $\begin{aligned} & 1-011- \\ & 014 \end{aligned}$ | Pickup SOL Separate Setting | Paper LCT: Plain | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-011- \\ & 015 \end{aligned}$ | Pickup SOL Separate Setting | Paper LCT: Thick | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 1-012- \\ & 001 \end{aligned}$ | Operation Setting | Paper Exit Speed | ENG | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 1-012- \\ & 002 \end{aligned}$ | Operation Setting | ExitLineSpdSetting: AfterSpdDown | ENG | $\begin{aligned} & {[0 \text { to } 3 / 1 / 1]} \\ & 0: \text { Standard Speed } \\ & 1: 150 \mathrm{~mm} / \mathrm{s} \\ & 2: 128 \mathrm{~mm} / \mathrm{s} \\ & 3: 75 \mathrm{~mm} / \mathrm{s} \end{aligned}$ |
| $\begin{aligned} & 1-101- \\ & 030 \end{aligned}$ | Flicker Control | Flicker Control | ENG* | [ 0 to $0 / 0 / 1$ ] |
| $\begin{aligned} & 1-105- \\ & 003 \end{aligned}$ | Print Target Temp. | Plain1:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / * / 1 \mathrm{deg}] \\ & \text { *MP 2555: } 123 \\ & \text { *MP 3055: } 123 \\ & \text { *MP 3555: } 130 \\ & \text { *MP 4055: } 130 \\ & \text { *MP 5055: } 147 \\ & \text { *MP 6055: } 147 \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 007 \end{aligned}$ | Print Target Temp. | Plain2:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / * / 1 \mathrm{deg}] \\ & \text { *MP 2555: } 128 \\ & \text { *MP 3055: } 128 \\ & \text { *MP 3555: } 135 \\ & \text { *MP 4055: } 135 \\ & \text { *MP 5055: } 157 \\ & \text { *MP 6055: } 157 \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 011 \end{aligned}$ | Print Target Temp. | Thin:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / \text { / / 1deg] } \\ & \text { *MP 2555: } 119 \\ & \text { *MP 3055: } 119 \\ & \text { *MP 3555: } 120 \\ & \text { *MP 4055: } 120 \\ & \text { *MP 5055: } 132 \end{aligned}$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | *MP 6055: 132 |
| $\begin{aligned} & 1-105- \\ & 015 \end{aligned}$ | Print Target Temp. | M-thick:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / \text { */ } 1 \mathrm{deg}] \\ & \text { *MP 2555: } 140 \\ & \text { *MP 3055: } 140 \\ & \text { *MP 3555: } 143 \\ & \text { *MP 4055: } 143 \\ & \text { *MP 5055: } 157 \\ & \text { *MP 6055: } 157 \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 019 \end{aligned}$ | Print Target Temp. | Thick1:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / 145 / \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 023 \end{aligned}$ | Print Target Temp. | Thick2:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / 140 / \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 027 \end{aligned}$ | Print Target Temp. | Thick3:BW:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 140 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 031 \end{aligned}$ | Print Target Temp. | Special1:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / * / 1 \mathrm{deg}] \\ & \text { *MP 2555: } 123 \\ & \text { *MP 3055: } 123 \\ & \text { *MP 3555: } 130 \\ & \text { *MP 4055: } 130 \\ & \text { *MP 5055: } 152 \\ & \text { *MP 6055: } 152 \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 035 \end{aligned}$ | Print Target Temp. | Special2:BW:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 145 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 039 \end{aligned}$ | Print Target Temp. | Special3:BW:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / 130 / \\ & \text { 1deg] } \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 041 \end{aligned}$ | Print Target Temp. | Envelop:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 135 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 053 \end{aligned}$ | Print Target Temp. | Special1:BW:Center:Middle Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 140 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 057 \end{aligned}$ | Print Target Temp. | Special2:BW:Center:Middle Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 145 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 061 \end{aligned}$ | Print Target Temp. | Special3:BW:Center:Middle Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 150 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 103 \end{aligned}$ | Print Target Temp. | Plain1:BW:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 110 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| 1-105- | Print Target Temp. | Plain2:BW:Center:Low Speed | ENG* | [ 100 to 180 / 110 / |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 107 |  |  |  | 1 deg ] |
| $\begin{aligned} & 1-105- \\ & 111 \end{aligned}$ | Print Target Temp. | M-thick:BW:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 115 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 115 \end{aligned}$ | Print Target Temp. | Thick1:BW:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 120 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 119 \end{aligned}$ | Print Target Temp. | Special1:BW:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 110 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 123 \end{aligned}$ | Print Target Temp. | Special2:BW:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 120 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 125 \end{aligned}$ | Print Target Temp. | Plain1:Glossy:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / 110 / \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 127 \end{aligned}$ | Print Target Temp. | Plain2:Glossy:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 110 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 129 \end{aligned}$ | Print Target Temp. | M-thick:Glossy:Center | ENG* | $\begin{aligned} & \text { [ } 100 \text { to } 180 / 115 / \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 131 \end{aligned}$ | Print Target Temp. | OHP:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 160 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 133 \end{aligned}$ | Print Target Temp. | Envelop:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 135 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 137 \end{aligned}$ | Print Target Temp. | Thin:BW:Center:Low Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 110 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 141 \end{aligned}$ | Print Target Temp. | Thick4:BW:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 140 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 143 \end{aligned}$ | Print Target Temp. | Postcard:Center | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 130 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-105- \\ & 147 \end{aligned}$ | Print Target Temp. | Special3:BW:Center:Middle Speed | ENG* | $\begin{aligned} & {[100 \text { to } 180 / 130 /} \\ & 1 \mathrm{deg}] \end{aligned}$ |
| $\begin{aligned} & 1-106- \\ & 001 \end{aligned}$ | Fusing Temp. Display | Heat Center | ENG | [ -10 to $250 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-106- \\ & 002 \end{aligned}$ | Fusing Temp. Display | Heat End | ENG | [ -10 to $250 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-106- \\ & 003 \end{aligned}$ | Fusing Temp. Display | Press Center | ENG | [ -10 to $250 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-106- \\ & 004 \end{aligned}$ | Fusing Temp. Display | Press End | ENG | [ -10 to $250 / 0 / 1 \mathrm{deg}$ ] |
| 1-113- | Curl Correction | Execute Pattern | ENG* | [ 0 to $2 / 0 / 1$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  | $\begin{aligned} & \text { 0: OFF } \\ & \text { 1: ON(No Decurl) } \\ & \text { 2: ON } \end{aligned}$ |
| $\begin{aligned} & 1-133- \\ & 001 \end{aligned}$ | Voltage Detection | Voltage Detection | ENG* | [ 0 to 350/97/0.1V] |
| $\begin{aligned} & 1-133- \\ & 002 \end{aligned}$ | Voltage Detection | Max | ENG* | [ 0 to $350 / 0 / 0.1 \mathrm{~V}$ ] |
| $\begin{aligned} & 1-133- \\ & 003 \end{aligned}$ | Voltage Detection | Min | ENG* | [ 0 to $350 / 350 / 0.1 \mathrm{~V}$ ] |
| $\begin{aligned} & 1-133- \\ & 004 \end{aligned}$ | Voltage Detection | Last | ENG* | [ 0 to $350 / 0 / 0.1 \mathrm{~V}$ ] |
| $\begin{aligned} & 1-133- \\ & 005 \end{aligned}$ | Voltage Detection | SC | ENG* | [ 0 to $350 / 0 / 0.1 \mathrm{~V}$ ] |
| $\begin{aligned} & 1-133- \\ & 006 \end{aligned}$ | Voltage Detection | Threshold Voltage | ENG* | [ 0 to $255 / 80 / 1 \mathrm{~V}$ ] |
| $\begin{aligned} & 1-135- \\ & 001 \end{aligned}$ | Inrush Control | Inrush Control | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-141- \\ & 001 \end{aligned}$ | Fusing SC Error Time Info | SC Number | ENG* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 1-141- \\ & 101 \end{aligned}$ | Fusing SC Error Time Info | Htg Roller:Ctr Det1 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 102 \end{aligned}$ | Fusing SC Error Time Info | Htg Roller:End Det1 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 103 \end{aligned}$ | Fusing SC Error Time Info | Press Roller:Ctr Det1 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 104 \end{aligned}$ | Fusing SC Error Time Info | Press Roller:End Det1 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 151 \end{aligned}$ | Fusing SC Error Time Info | Htg Roller:Ctr Det2 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 152 \end{aligned}$ | Fusing SC Error Time Info | Htg Roller:End Det2 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 153 \end{aligned}$ | Fusing SC Error Time Info | Press Roller:Ctr Det2 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 154 \end{aligned}$ | Fusing SC Error Time Info | Press Roller:End Det2 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| 1-141- | Fusing SC Error Time | Htg Roller:Ctr Det3 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 201 | Info |  |  |  |
| $\begin{aligned} & 1-141- \\ & 202 \end{aligned}$ | Fusing SC Error Time Info | Htg Roller:End Det3 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 203 \end{aligned}$ | Fusing SC Error Time Info | Press Roller:Ctr Det3 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-141- \\ & 204 \end{aligned}$ | Fusing SC Error Time Info | Press Roller:End Det3 | ENG* | [ -5 to $300 / 0 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-142- \\ & 001 \end{aligned}$ | Fusing Jam Detection | SC Display | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \mathrm{ON} \end{aligned}$ |
| $\begin{aligned} & 1-152- \\ & 001 \end{aligned}$ | Fusing Nip Band Check | Execute | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-153- \\ & 001 \end{aligned}$ | Abnormal Noise <br> Confirmation | Unit: Execute | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-153- \\ & 002 \end{aligned}$ | Abnormal Noise <br> Confirmation | No Unit: Execute | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-153- \\ & 003 \end{aligned}$ | Abnormal Noise <br> Confirmation | Operation Line Speed | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| $\begin{aligned} & 1-153- \\ & 004 \end{aligned}$ | Abnormal Noise <br> Confirmation | Operation Time | ENG | [ 0 to $240 / 60 / 1 \mathrm{sec}$ ] |
| $\begin{aligned} & 1-154- \\ & 006 \end{aligned}$ | Switch:Rotation Start/Stop | Overshoot Prevent Temp.:SC | ENG* | [ 0 to $250 / * / 1 \mathrm{deg}$ ] <br> *MP 2555: 185 <br> *MP 3055: 185 <br> *MP 3555: 185 <br> *MP 4055: 195 <br> *MP 5055: 200 <br> *MP 6055: 200 |
| $\begin{aligned} & 1-301- \\ & 001 \end{aligned}$ | Paper Thick Error <br> Detect | Tray1 (0:Off 1:On) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-301- \\ & 002 \end{aligned}$ | Paper Thick Error <br> Detect | Tray2 (0:Off 1:On) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-301- \\ & 003 \end{aligned}$ | Paper Thick Error <br> Detect | Tray3 (0:Off 1:On) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| 1-301- | Paper Thick Error | Tray4 (0:Off 1:On) | ENG* | [ 0 to $1 / 0 / 1$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 | Detect |  |  |  |
| $\begin{aligned} & 1-301- \\ & 005 \end{aligned}$ | Paper Thick Error <br> Detect | LCT (0:Off 1:On) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-301- \\ & 006 \end{aligned}$ | Paper Thick Error <br> Detect | Bypass Tray (0:Off 1:On) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-303- \\ & 001 \end{aligned}$ | Paper Thick <br> Error Rank | Tray1 | ENG* | [ 1 to $8 / 3 / 1$ ] |
| $\begin{aligned} & 1-303- \\ & 002 \end{aligned}$ | Paper Thick <br> Error Rank | Tray2 | ENG* | [ 1 to $8 / 3 / 1$ ] |
| $\begin{aligned} & 1-303- \\ & 003 \end{aligned}$ | Paper Thick <br> Error Rank | Tray 3 | ENG* | [ 1 to $8 / 3 / 1$ ] |
| $\begin{aligned} & 1-303- \\ & 004 \end{aligned}$ | Paper Thick <br> Error Rank | Tray 4 | ENG* | [ 1 to $8 / 3 / 1$ ] |
| $\begin{aligned} & 1-303- \\ & 005 \end{aligned}$ | Paper Thick <br> Error Rank | LCT | ENG* | [ 1 to $8 / 3 / 1$ ] |
| $\begin{aligned} & 1-303- \\ & 006 \end{aligned}$ | Paper Thick <br> Error Rank | Bypass Tray | ENG* | [ 1 to $8 / 3 / 1$ ] |
| $\begin{aligned} & 1-306- \\ & 001 \end{aligned}$ | Num. of Sheets to Shift to Err | Num. of Sheets to Shift to Err | ENG* | [ 1 to $999 / 1 / 1$ ] |
| $\begin{aligned} & 1-307- \\ & 003 \end{aligned}$ | Paper Thick Standard Value | Middle Thick | ENG* | [ 0 to $999 / 82 / 1]$ |
| $\begin{aligned} & 1-307- \\ & 004 \end{aligned}$ | Paper Thick Standard Value | Thick1 | ENG* | [ 0 to 999 / $106 / 1$ ] |
| $\begin{aligned} & 1-307- \\ & 005 \end{aligned}$ | Paper Thick Standard Value | Thick2 | ENG* | [ 0 to $999 / 170 / 1]$ |
| $\begin{aligned} & 1-307- \\ & 006 \end{aligned}$ | Paper Thick Standard Value | Thick3 | ENG* | [ 0 to $999 / 221 / 1$ ] |
| $\begin{aligned} & 1-307- \\ & 007 \end{aligned}$ | Paper Thick Standard Value | Thick4 | ENG* | [ 0 to 999 / 257 / 1] |
| $\begin{aligned} & 1-308- \\ & 001 \end{aligned}$ | Paper Thikness Error Times | Trayl | ENG* | [ 0 to $999 / 0 / 1$ ] |
| $\begin{aligned} & 1-308- \\ & 002 \end{aligned}$ | Paper Thikness Error Times | Tray2 | ENG* | [ 0 to $999 / 0 / 1$ ] |
| $\begin{aligned} & 1-308- \\ & 003 \end{aligned}$ | Paper Thikness Error Times | Tray 3 | ENG* | [ 0 to $999 / 0 / 1$ ] |
| 1-308- | Paper Thikness Error | Tray 4 | ENG* | [ 0 to $999 / 0 / 1$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 | Times |  |  |  |
| $\begin{aligned} & 1-308- \\ & 005 \end{aligned}$ | Paper Thikness Error Times | LCT | ENG* | [ 0 to $999 / 0 / 1$ ] |
| $\begin{aligned} & 1-308- \\ & 006 \end{aligned}$ | Paper Thikness Error Times | Bypass Tray | ENG* | [ 0 to $999 / 0 / 1$ ] |
| $\begin{aligned} & 1-314- \\ & 001 \end{aligned}$ | Paper Size | Tray1 | ENG* | [ 0 to $10 / 0 / 1$ ] |
| $\begin{aligned} & 1-314- \\ & 002 \end{aligned}$ | Paper Size | Tray2 | ENG* | [ 0 to $10 / 0 / 1$ ] |
| $\begin{aligned} & 1-314- \\ & 003 \end{aligned}$ | Paper Size | Tray 3 | ENG* | [ 0 to $10 / 0 / 1$ ] |
| $\begin{aligned} & 1-314- \\ & 004 \end{aligned}$ | Paper Size | Tray 4 | ENG* | [ 0 to $10 / 0 / 1$ ] |
| $\begin{aligned} & 1-314- \\ & 005 \end{aligned}$ | Paper Size | LCT | ENG* | [ 0 to $10 / 0 / 1$ ] |
| $\begin{aligned} & 1-314- \\ & 006 \end{aligned}$ | Paper Size | Bypass Tray | ENG* | [ 0 to $10 / 0 / 1$ ] |
| $\begin{aligned} & 1-316- \\ & 001 \end{aligned}$ | Paper Thick Start Time | Tray1 | ENG* | [ -50 to $50 / 0 / 1 \mathrm{msec}$ ] |
| $\begin{aligned} & 1-316- \\ & 002 \end{aligned}$ | Paper Thick Start Time | Tray2 | ENG* | [ -50 to $50 / 0 / 1 \mathrm{msec}$ ] |
| $\begin{aligned} & 1-316- \\ & 003 \end{aligned}$ | Paper Thick Start Time | Tray 3 | ENG* | $\begin{aligned} & {[-50 \text { to } 50 /-20 /} \\ & 1 \mathrm{msec}] \end{aligned}$ |
| $\begin{aligned} & 1-316- \\ & 004 \end{aligned}$ | Paper Thick Start Time | Tray4 | ENG* | [ -50 to $50 /-20$ / $1 \mathrm{msec}]$ |
| $\begin{aligned} & 1-316- \\ & 005 \end{aligned}$ | Paper Thick Start Time | LCT | ENG* | $\begin{aligned} & {[-50 \text { to } 50 /-20 /} \\ & 1 \mathrm{msec}] \end{aligned}$ |
| $\begin{aligned} & 1-316- \\ & 006 \end{aligned}$ | Paper Thick Start Time | Bypass Tray | ENG* | [ -50 to $50 /-20$ / $1 \mathrm{msec}]$ |
| $\begin{aligned} & 1-907- \\ & 029 \end{aligned}$ | Paper Feed Timing Adj. | By-pass Size Decision Timing | ENG* | [ 1 to $3 / 3 / 1$ ] |
| $\begin{aligned} & 1-907- \\ & 030 \end{aligned}$ | Paper Feed Timing Adj. | ExitLineSpdUp EndPos:StdSpd | ENG | [ -30 to $15 / 0 / 1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-907- \\ & 031 \end{aligned}$ | Paper Feed Timing Adj. | ExitLineSpdUp EndPos:MidSpd | ENG | [ -30 to $15 / 0 / 1 \mathrm{~mm}$ ] |
| 1-907- | Paper Feed Timing Adj. | ExitLineSpdUp EndPos:LowSpd | ENG | [ -30 to $15 / 0 / 1 \mathrm{~mm}$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 032 |  |  |  |  |
| $\begin{aligned} & 1-907- \\ & 033 \end{aligned}$ | Paper Feed Timing Adj. | ExitLineSpdUp <br> EndPos:LowSpd:1200:Plain | ENG | [ -30 to $15 / 0 / 1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-907- \\ & 109 \end{aligned}$ | Paper Feed Timing Adj. | Bypass Emvlp. Regist. Stop Timing | ENG | [ 0 to $40 / 0 / 1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 1-955- \\ & 008 \end{aligned}$ | Fan Control | Fusing Exit Fan High Temp Op Sw Temp | ENG* | [ 0 to $100 / 40 / 0.1 \mathrm{deg}$ ] |
| $\begin{aligned} & 1-955- \\ & 021 \end{aligned}$ | Fan Control | Front Development Cooling Fan | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-955- \\ & 022 \end{aligned}$ | Fan ON/OFF Switch Set | Toner Bottle Cooling Fan | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-955- \\ & 031 \end{aligned}$ | Fan Control | Fusing Exit Fan Low Speed Op DUTY | ENG* | [ 0 to $100 / 30 / 1 \%$ ] |
| $\begin{aligned} & 1-955- \\ & 032 \end{aligned}$ | Fan Control | Fusing Exit Fan Middle Speed Op DUTY | ENG* | [ 0 to $100 / * / 1 \%$ ] <br> *MP 2555: 60 <br> *MP 3055: 60 <br> *MP 3555: 60 <br> *MP 4055 <br> (NA/TWN/KOR): 60 <br> *MP 4055 <br> (EU/AP/CHN): 65 <br> *MP 5055 <br> (NA/TWN/KOR): 60 <br> *MP 5055 <br> (EU/AP/CHN): 65 <br> *MP 6055 <br> (NA/TWN/KOR): 60 <br> *MP 6055 <br> (EU/AP/CHN): 65 |
| $\begin{aligned} & 1-955- \\ & 033 \end{aligned}$ | Fan Control | Fusing Exit Fan Full Speed Op DUTY | ENG* | [ 0 to $100 / * / 1 \%$ ] <br> *MP 2555: 60 <br> *MP 3055: 60 <br> *MP 3555: 60 <br> *MP 4055 <br> (NA/TWN/KOR): 60 <br> *MP 4055 <br> (EU/AP/CHN): 80 |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & \text { *MP } 5055 \\ & \text { (NA/TWN/KOR): } 60 \\ & \text { *MP } 5055 \\ & \text { (EU/AP/CHN): } 80 \\ & \text { *MP } 6055 \\ & \text { (NA/TWN/KOR): } 60 \\ & \text { *MP } 6055 \\ & \text { (EU/AP/CHN): } 80 \end{aligned}$ |
| $\begin{aligned} & 1-955- \\ & 041 \end{aligned}$ | Fan Control | Extra Fan Op Decision time | ENG* | $\begin{aligned} & {[0 \text { to } 10000 / 480 /} \\ & 1 \text { sec }] \end{aligned}$ |
| $\begin{aligned} & 1-955- \\ & 042 \end{aligned}$ | Fan Control | Fusing Exit Fan Extra Cooling Time Set | ENG* | [ 0 to $900 / * / 1 \mathrm{sec}$ ] <br> *MP 2555: 0 <br> *MP 3055: 0 <br> *MP 3555: 0 <br> *MP 4055 <br> (NA/TWN/KOR): 0 <br> *MP 4055 <br> (EU/AP/CHN): 120 <br> *MP 5055 <br> (NA/TWN/KOR): 0 <br> *MP 5055 <br> (EU/AP/CHN): 120 <br> *MP 055 <br> (NA/TWN/KOR): 0 <br> *MP 055 <br> (EU/AP/CHN): 120 |
| $\begin{aligned} & 1-955- \\ & 043 \end{aligned}$ | Fan Control | Paper Exit Cooling Extra Cooling Time Set | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 900 \text { / * / 1sec] } \\ & \text { *MP 2555: } 0 \\ & \text { *MP 3055: } 0 \\ & \text { *MP 3555: } 0 \\ & \text { *MP } 4055 \\ & \text { (NA/TWN/KOR): } 0 \\ & \text { *MP 4055 } \\ & \text { (EU/AP/CHN): } 120 \\ & \text { *MP 5055 } \\ & \text { (NA/TWN/KOR): } 0 \\ & \text { *MP } 5055 \end{aligned}$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & \text { (EU/AP/CHN): } 120 \\ & \text { *MP } 055 \\ & \text { (NA/TWN/KOR): } 0 \\ & \text { *MP } 055 \\ & \text { (EU/AP/CHN): } 120 \end{aligned}$ |
| $\begin{aligned} & 1-955- \\ & 051 \end{aligned}$ | Fan Control | AntiCondens.Fan Op Execution Temp | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 1-955- \\ & 052 \end{aligned}$ | Fan Control | AntiCondens.Fan Op ON/OFF Setting | ENG* | [ 0 to $30 / 3 / 0.1 \mathrm{deg}$ ] |

3.SP Mode Tables

## SP Group 2000

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 2-101- \\ & 001 \end{aligned}$ | Reistration Correction | Main Dot | ENG* | [ -512 to 511/0/1dot] |
| $\begin{aligned} & 2-102- \\ & 001 \end{aligned}$ | LSU Adjustment | Main Mag. | ENG* | [ -1 to $1 / 0 / 0.1 \%$ ] |
| $\begin{aligned} & 2-103- \\ & 001 \end{aligned}$ | Erase Margin <br> Adjustment | Lead Edge Width | ENG | [ 0 to $9.9 / 4.2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 002 \end{aligned}$ | Erase Margin <br> Adjustment | Trail. Edge Width | ENG | [ 0 to $9.9 / 4.2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 003 \end{aligned}$ | Erase Margin <br> Adjustment | Left | ENG | [ 0 to $9.9 / 2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & \text { 2-103- } \\ & 004 \end{aligned}$ | Erase Margin <br> Adjustment | Right | ENG | [ 0 to $9.9 / 2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 006 \end{aligned}$ | Erase Margin <br> Adjustment | Duplex Trail. L Size | ENG | [ -4 to 4 / $1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 007 \end{aligned}$ | Erase Margin <br> Adjustment | Duplex Trail. M Size | ENG | [ -4 to $4 / 0.8 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 008 \end{aligned}$ | Erase Margin Adjustment | Duplex Trail. S Size | ENG | [ -4 to $4 / 0.6 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 009 \end{aligned}$ | Erase Margin Adjustment | Duplex Left Edge | ENG | [ 0 to $1.5 / 0.3 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 010 \end{aligned}$ | Erase Margin <br> Adjustment | Duplex Right Edge | ENG | [ 0 to $1.5 / 0.3 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 011 \end{aligned}$ | Erase Margin Adjustment | Duplex Trail. L Size:Thick | ENG | [ -4 to $4 / 1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 012 \end{aligned}$ | Erase Margin Adjustment | Duplex Trail. M Size:Thick | ENG | [ -4 to $4 / 0.8 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 013 \end{aligned}$ | Erase Margin Adjustment | Duplex Trail. S Size:Thick | ENG | [ -4 to $4 / 0.6 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & \text { 2-103- } \\ & 014 \end{aligned}$ | Erase Margin <br> Adjustment | Duplex Left Edge:Thick | ENG | [ 0 to $1.5 / 0.3 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 015 \end{aligned}$ | Erase Margin Adjustment | Duplex Right Edge:Thick | ENG | [ 0 to $1.5 / 0.3 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & \text { 2-103- } \\ & 016 \end{aligned}$ | Erase Margin <br> Adjustment | Duplex Trail. L Size:Thin | ENG | [ -4 to $4 / 1 / 0.1 \mathrm{~mm}$ ] |
| 2-103- | Erase Margin | Duplex Trail. M Size:Thin | ENG | [ -4 to $4 / 0.8 / 0.1 \mathrm{~mm}$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 017 | Adjustment |  |  |  |
| $\begin{aligned} & 2-103- \\ & 018 \end{aligned}$ | Erase Margin <br> Adjustment | Duplex Trail. S Size:Thin | ENG | [ -4 to $4 / 0.6 / 0.1 \mathrm{~mm}$ ] |
| 2-103- <br> 019 | Erase Margin Adjustment | Lead Edge Width:Thin | ENG | [ 0 to $9.9 / 4.2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-103- \\ & 020 \end{aligned}$ | Erase Margin <br> Adjustment | Trail. Edge Width:Thin | ENG | [ 0 to $9.9 / 4.2 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-109- \\ & 003 \end{aligned}$ | Test Pattern | Pattern Selection | ENG | [ 0 to $24 / 0 / 1$ ] <br> 0 : None <br> 1: 1dot Vertical <br> 2: 2dot Vertical <br> 3: 1dot Horizontal Line <br> 4: 2dot Horizontal Line <br> 5: Grid Vert <br> 6: Grid Horizontal <br> 7: Grid Pattern Small <br> 8: Grid Pattern Large <br> 9: Argyle Pattern Small <br> 10: Argyle P:L <br> 11: 1dot Ind. Pttrn <br> 12: 2dot Ind. Pttrn <br> 13: 4dot Ind. Pttrn <br> 14: Trimming Area <br> 15: HoundstoothH <br> 16: Houndstooth V <br> 17: Black Band H <br> 18: Black Band V <br> 19: Checker Flag Pattern <br> 20: Grayscale V <br> 21: Grayscale H <br> 22: 2 Beam Density Pttrn <br> 23: Full Dot Pattern <br> 24: All White Pattern |
| $\begin{aligned} & 2-109- \\ & 006 \end{aligned}$ | Test Pattern | Density | ENG | [ 0 to $15 / 15 / 1$ ] |
| $\begin{aligned} & 2-110- \\ & 001 \end{aligned}$ | LD Driver | Error | ENG* | [ 0x0000 to 0xFFFF / $0 \times 0000 / 1]$ |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 2-110- \\ & 005 \end{aligned}$ | LD Driver | Memory Transfer | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 2-152- \\ & 001 \end{aligned}$ | Shad. Correct Setting | Strandard Speed | ENG* | [ 50 to $150 / 100 / 0.1 \%$ ] |
| $\begin{aligned} & 2-152- \\ & 005 \end{aligned}$ | Shad. Correct Setting | Middle Speed | ENG* | [ 50 to $150 / 100 / 0.1 \%$ ] |
| $\begin{aligned} & 2-152- \\ & 009 \end{aligned}$ | Shad. Correct Setting | Low Speed | ENG* | [ 50 to $150 / 100 / 0.1 \%$ ] |
| $\begin{aligned} & 2-160- \\ & 001 \end{aligned}$ | Vertical Line Width | 600dpi:Indet | ENG* | [ 10 to $15 / 15 / 1]$ |
| $\begin{aligned} & 2-160- \\ & 002 \end{aligned}$ | Vertical Line Width | 1200dpi:Indet | ENG* | [ 10 to $15 / 15 / 1]$ |
| $\begin{aligned} & 2-242- \\ & 100 \end{aligned}$ | TS Operation Env. Log | Log Clear | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 2-250- \\ & 001 \end{aligned}$ | Interval DownMode | ON/OFF | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 2-400- \\ & 002 \end{aligned}$ | Paper Transfer Roller Settings | Detatch timing in waiting | ENG* | [ 0 to $600 / 240 / 1 \mathrm{~min}$ ] |
| 2-906- <br> 004 | Tailing Control | Shift Range | ENG* | [ 0 to $1 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 2-906- \\ & 005 \end{aligned}$ | Tailing Control | Number of Sheets | ENG* | [ 0 to $10 / 0 / 1$ sheet] |
| 2-970- <br> 004 | Interrupt Transfer CL | Low-temperature, low-humidity | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 2-970- \\ & 005 \end{aligned}$ | Interrupt Transfer CL | Moderate temperature and humidity | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 2-970- \\ & 006 \end{aligned}$ | Interrupt Transfer CL | High-temperature, high-humidity | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 2-980- \\ & 001 \end{aligned}$ | Drum Idling | Idle Time: Low-temperature, lowhumidity | ENG* | [ 0 to $60 / 0 / 1 \mathrm{sec}$ ] |
| $\begin{aligned} & 2-980- \\ & 002 \end{aligned}$ | Drum Idling | Idle Time: Moderate temperature and humidity | ENG* | [ 0 to $60 / 0 / 1 \mathrm{sec}$ ] |
| $\begin{aligned} & 2-980- \\ & 003 \end{aligned}$ | Drum Idling | Idle Time: High-temperature, high-humidity | ENG* | [ 0 to $60 / 0 / 1 \mathrm{sec}$ ] |
| 2-990- | Print Duty Control | Forced CPM Down Thresh: No | ENG* | [ 0 to $5000 / 0 / 1$ page] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  | Duty Control:MM |  |  |
| 2-990- <br> 007 | Print Duty Control | Forced CPM Down Thresh: Duty Control | ENG* | [ 0 to 5000/16/1page] |
| $\begin{aligned} & 2-990- \\ & 008 \end{aligned}$ | Print Duty Control | Down-time_BW: Duty Control | ENG* | $\begin{aligned} & {[0 \text { to } 240000 / 25000 /} \\ & 10 \mathrm{msec}] \end{aligned}$ |
| $\begin{aligned} & 2-990- \\ & 011 \end{aligned}$ | Print Duty Control | Execution Temp. Threshold | ENG* | [ 20 to $70 / 45.5 / 0.1 \mathrm{deg}$ ] |
| $\begin{aligned} & 2-990- \\ & 101 \end{aligned}$ | Print Duty Control | Forced CPM Down Thresh: No Duty Control: LL | ENG* | [ 0 to 5000/0/1page] |
| $\begin{aligned} & 2-990- \\ & 102 \end{aligned}$ | Print Duty Control | Forced CPM Down Thresh: No Duty Control: ML | ENG* | [ 0 to 5000/0/1page] |
| $\begin{aligned} & 2-990- \\ & 103 \end{aligned}$ | Print Duty Control | Forced CPM Down Thresh: No <br> Duty Control: HH | ENG* | [ 0 to 5000/0/1page] |

## SP Group 3000

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 3-011- \\ & 001 \end{aligned}$ | Manual ProCon :Exe | Normal ProCon | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 001 \end{aligned}$ | ProCon OK? | History:Last | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 002 \end{aligned}$ | ProCon OK? | History:Last 2 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 003 \end{aligned}$ | ProCon OK? | History:Last 3 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 004 \end{aligned}$ | ProCon OK? | History:Last 4 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 005 \end{aligned}$ | ProCon OK? | History:Last 5 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 006 \end{aligned}$ | ProCon OK? | History:Last 6 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 007 \end{aligned}$ | ProCon OK? | History:Last 7 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 008 \end{aligned}$ | ProCon OK? | History:Last 8 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 009 \end{aligned}$ | ProCon OK? | History:Last 9 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-012- \\ & 010 \end{aligned}$ | ProCon OK? | History:Last 10 | ENG* | [ 0 to $99 / 0 / 1$ ] |
| $\begin{aligned} & 3-030- \\ & 001 \end{aligned}$ | Init TD Sensor :Exe | Execute | ENG | [ 0 to $1 / 0 / 1$ ] |
| 3-030- <br> 071 | InitTDSensor : Exe | Init Temp: K | ENG* | [ -100 to $100 / 23 / 0.1 \mathrm{deg}$ ] |
| $\begin{aligned} & 3-030- \\ & 081 \end{aligned}$ | InitTDSensor : Exe | Init Rel Hum: K | ENG* | [ 0 to $100 / 50 / 0.1 \% \mathrm{RH}$ ] |
| $\begin{aligned} & 3-030- \\ & 091 \end{aligned}$ | InitTDSensor : Exe | Init Abs Hum: K | ENG* | [ 0 to $100 / 10.3 / 0.01 \mathrm{~g} / \mathrm{m} 3$ ] |
| $\begin{aligned} & 3-030- \\ & 101 \end{aligned}$ | InitTDSensor :Exe | Init Coverage: K | ENG* | [ 0 to 2147483647 / 0 / 1\%] |
| 3-030- <br> 111 | InitTDSensor :Exe | Total DC: Dev: K | ENG* | [ 0 to 2147483647 / 0 / 1\%] |
| 3-031- | TD Sens Init OK? | K | ENG* | [ 0 to $9 / 0 / 1$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 3-050- \\ & 001 \end{aligned}$ | Force Tnr Supply :Exe | Execute | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-050- \\ & 021 \end{aligned}$ | Force Tnr Supply :Exe | Supply Quantity | ENG* | [ 0 to $5 / 0.5 / 0.1 \mathrm{wt} \%$ ] |
| $\begin{aligned} & 3-072- \\ & 001 \end{aligned}$ | T Sensor: Check | Execute Check | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-073- \\ & 001 \end{aligned}$ | T Sensor Measurement Value: | mu count | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 3-074- \\ & 001 \end{aligned}$ | ID.Sens Check | Execute | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-075- \\ & 001 \end{aligned}$ | ID.Sens Measurement Value: | Vsg reg | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-075- \\ & 011 \end{aligned}$ | ID.Sens Measurement Value: | Voffset | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-100- \\ & 001 \end{aligned}$ | Tonner End Detection: Set | ON/OFF | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Enable } \\ & \text { 1: Disable } \end{aligned}$ |
| $\begin{aligned} & 3-100- \\ & 003 \end{aligned}$ | Tonner End Detection: Set | TE Detection | ENG* | $\begin{aligned} & {[0 \text { to } 2 / 1 / 1]} \\ & 0: \text { Page \& Vt } \\ & \text { 1: Vt Only } \\ & \text { 2: Page Counter Only } \end{aligned}$ |
| $\begin{aligned} & 3-101- \\ & 001 \end{aligned}$ | Toner Status : Disp | K | ENG* | [ 0 to $2 / 2 / 1$ ] |
| $\begin{aligned} & 3-133- \\ & 001 \end{aligned}$ | TE Detect :Set | Set Sheets | ENG* | [ 0 to $5000 / 90 / 1$ sheets] |
| $\begin{aligned} & 3-133- \\ & 011 \end{aligned}$ | TE Detect :Set | Page Cnt:K | ENG* | [ 0 to $5000 / 0 / 1$ sheets] |
| $\begin{aligned} & 3-200- \\ & 001 \end{aligned}$ | TnrDensity | K | ENG* | [ 0 to $25.5 / 0 / 0.1 \mathrm{wt} \%$ ] |
| $\begin{aligned} & 3-201- \\ & 001 \end{aligned}$ | TnrDensity | Upper TC | ENG* | [ 1 to $15 / 5.5 / 0.1 \mathrm{wt} \%$ ] |
| $\begin{aligned} & 3-201- \\ & 002 \end{aligned}$ | TnrDensity | Lower TC | ENG* | [ 1 to $15 / 2.7 / 0.1 \mathrm{wt} \%$ ] |
| $\begin{aligned} & 3-210- \\ & 001 \end{aligned}$ | TD.Sens:Vt : Disp | Current | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 3-230- \\ & 001 \end{aligned}$ | Vtref : Disp/Set | Current | ENG* | [ 0 to $5 / 2.5 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-250- \\ & 001 \end{aligned}$ | ImgArea :Disp | ImgArea | ENG* | [ 0 to 9999 / 0 / 1cm2] |
| $\begin{aligned} & 3-251- \\ & 001 \end{aligned}$ | DotCoverage : Disp | DotCoverage | ENG* | [ 0 to $100 / 0 / 0.01 \%$ ] |
| $\begin{aligned} & 3-252- \\ & 001 \end{aligned}$ | AccumImgArea :Disp | ImgArea | ENG* | [ 0 to $65535 / 0 / 1 \mathrm{~cm}^{\wedge} 2$ ] |
| $\begin{aligned} & 3-260- \\ & 001 \end{aligned}$ | Temperature/Humidity: Display | Temperature | ENG | [ -5 to $45 / 0 / 0.1 \mathrm{deg}$ ] |
| $\begin{aligned} & 3-260- \\ & 002 \end{aligned}$ | Temperature/Humidity: Display | Relative Humidity | ENG | [ 0 to $100 / 0 / 0.1 \% \mathrm{RH}$ ] |
| $\begin{aligned} & 3-260- \\ & 003 \end{aligned}$ | Temperature/Humidity: Display | Absolute Humidity | ENG | [ 0 to $100 / 0 / 0.01 \mathrm{~g} / \mathrm{m} 3$ ] |
| $\begin{aligned} & 3-310- \\ & 001 \end{aligned}$ | ID.Sens :Voffset | Voffset reg | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-310- \\ & 021 \end{aligned}$ | ID.Sens :Voffset | Voffset TM(Front) | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-320- \\ & 001 \end{aligned}$ | Vsg Adj: Execute | P Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-320- \\ & 011 \end{aligned}$ | Vsg Adj: Execute | Vsg Error Counter | ENG* | [ 0 to $99 / 0 / 1$ times] |
| $\begin{aligned} & 3-321- \\ & 001 \end{aligned}$ | Adjusted Vsg | Vsg reg | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-322- \\ & 001 \end{aligned}$ | Adjusted Ifsg | Ifsg | ENG* | [ 0 to $50 / 10 / 0.001 \mathrm{~mA}$ ] |
| $\begin{aligned} & 3-322- \\ & 011 \end{aligned}$ | Adjusted Ifsg | Ifsg Min | ENG* | [ 0 to $50 / 27 / 0.001 \mathrm{~mA}$ ] |
| $\begin{aligned} & 3-323- \\ & 001 \end{aligned}$ | Vsg Adj OK? | Latest | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 002 \end{aligned}$ | Vsg Adj OK? | Latest 2 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 003 \end{aligned}$ | Vsg Adj OK? | Latest 3 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 004 \end{aligned}$ | Vsg Adj OK? | Latest 4 | ENG* | [ 0 to $9 / 0 / 1$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 3-323- \\ & 005 \end{aligned}$ | Vsg Adj OK? | Latest 5 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 006 \end{aligned}$ | Vsg Adj OK? | Latest 6 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 007 \end{aligned}$ | Vsg Adj OK? | Latest 7 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 008 \end{aligned}$ | Vsg Adj OK? | Latest 8 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 009 \end{aligned}$ | Vsg Adj OK? | Latest 9 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-323- \\ & 010 \end{aligned}$ | Vsg Adj OK? | Latest 10 | ENG* | [ 0 to $9 / 0 / 1$ ] |
| $\begin{aligned} & 3-331- \\ & 061 \end{aligned}$ | ID.Sens Coef :Set | Vsp Coef | ENG* | [ 0.5 to $1.5 / 1 / 0.001$ ] |
| $\begin{aligned} & 3-331- \\ & 071 \end{aligned}$ | ID.Sens Coef :Set | Vsdp Coef | ENG* | [ 0.5 to $1.5 / 1 / 0.001$ ] |
| $\begin{aligned} & 3-400- \\ & 001 \end{aligned}$ | Toner Supply Type | K | ENG* | $\begin{aligned} & {[0 \text { to } 2 / 2 / 1]} \\ & \text { 0: FIXED } \\ & \text { 2: PID } \end{aligned}$ |
| $\begin{aligned} & 3-411- \\ & 001 \end{aligned}$ | Toner Supply Qty | K | ENG | [ 0 to $40000 / 0 / 0.1 \mathrm{mg}$ ] |
| $\begin{aligned} & 3-440- \\ & 001 \end{aligned}$ | Fixed Supply Mode | Fixed Rate | ENG* | [ 0 to $100 / 10 / 1 \%$ ] |
| $\begin{aligned} & 3-500- \\ & 002 \end{aligned}$ | ImgQltyAdj :ON/OFF | ProCon | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 3-510- \\ & 031 \end{aligned}$ | ImgQltyAdj :ExeFlag | Init Toner Replenish: K | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-520- \\ & 001 \end{aligned}$ | ImgQltyAdj :Interval | During Job | ENG* | [ 0 to $100 / 30 / 1$ pages] |
| $\begin{aligned} & 3-520- \\ & 002 \end{aligned}$ | ImgQltyAdj :Interval | During Stand-by | ENG* | [ 0 to $100 / 5 / 1$ minute] |
| $\begin{aligned} & 3-529- \\ & 006 \end{aligned}$ | ProCon Interval Control :Set | Page Cnt:BW | ENG* | [ 0 to $5000 / 0 / 1$ sheets] |
| $\begin{aligned} & 3-530- \\ & 001 \end{aligned}$ | PowerON ProCon : Set | Non-use Time Setting | ENG* | [ 0 to 1440 / $360 / 1$ minute] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 3-530- \\ & 002 \end{aligned}$ | PowerON ProCon :Set | Temperature Range | ENG* | [ 0 to $99 / 10 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 3-530- \\ & 003 \end{aligned}$ | PowerON ProCon : Set | Relative Humidity Range | ENG* | [ 0 to $99 / 50 / 1 \% \mathrm{RH}$ ] |
| $\begin{aligned} & 3-530- \\ & 004 \end{aligned}$ | PowerON ProCon :Set | Absolute Humidity Range | ENG* | [ 0 to $99 / 6 / 1 \mathrm{~g} / \mathrm{m} 3$ ] |
| $\begin{aligned} & 3-530- \\ & 005 \end{aligned}$ | PowerON ProCon : Set | Interval:BW | ENG* | [ 0 to 5000/100/1sheets] |
| $\begin{aligned} & 3-530- \\ & 007 \end{aligned}$ | PowerON ProCon : Set | Page Cnt:BW | ENG* | [ 0 to $5000 / 0 / 1$ sheets] |
| $\begin{aligned} & 3-531- \\ & 001 \end{aligned}$ | Non-useTime Procon : Set | Non-use Time Setting | ENG* | [ 0 to 1440 / $360 / 1$ minute] |
| $\begin{aligned} & 3-531- \\ & 002 \end{aligned}$ | Non-useTime Procon : Set | Temperature Range | ENG* | [ 0 to $99 / 10 / 1 \mathrm{deg}$ ] |
| $\begin{aligned} & 3-531- \\ & 003 \end{aligned}$ | Non-useTime Procon : Set | Relative Humidity Range | ENG* | [ 0 to $99 / 50 / 1 \% \mathrm{RH}$ ] |
| $\begin{aligned} & 3-531- \\ & 004 \end{aligned}$ | Non-useTime Procon : Set | Absolute Humidity Range | ENG* | [ 0 to $99 / 6 / 1 \mathrm{~g} / \mathrm{m} 3$ ] |
| $\begin{aligned} & 3-531- \\ & 005 \end{aligned}$ | Non-useTime Procon : Set | Maximum Execution Number | ENG* | [ 0 to $99 / 10 / 1$ times] |
| $\begin{aligned} & 3-533- \\ & 001 \end{aligned}$ | Interrupt ProCon : Set | Interval:Set:BW | ENG* | [ 0 to 5000/100/1sheets] |
| $\begin{aligned} & 3-533- \\ & 002 \end{aligned}$ | Interrupt ProCon :Set | Interval:Disp:BW | ENG* | [ 0 to 5000/100/1sheets] |
| $\begin{aligned} & 3-533- \\ & 003 \end{aligned}$ | Interrupt ProCon :Set | Corr(Short): BW | ENG* | [ 0 to $1 / 0.5 / 0.01$ ] |
| $\begin{aligned} & 3-533- \\ & 004 \end{aligned}$ | Interrupt ProCon :Set | Corr(Mid):BW | ENG* | [ 0 to $1 / 1 / 0.01$ ] |
| $\begin{aligned} & 3-534- \\ & 001 \end{aligned}$ | JobEnd ProCon : Set | Interval:Set:BW | ENG* | [ 0 to 5000/100/1sheets] |
| $\begin{aligned} & 3-534- \\ & 002 \end{aligned}$ | JobEnd ProCon : Set | Interval:Disp:BW | ENG* | [ 0 to 5000/100/1sheets] |
| $\begin{aligned} & 3-534- \\ & 003 \end{aligned}$ | JobEnd ProCon : Set | Corr(Short): BW | ENG* | [ 0 to $1 / 0.5 / 0.01$ ] |
| $\begin{aligned} & 3-534- \\ & 004 \end{aligned}$ | JobEnd ProCon : Set | Corr(Mid):BW | ENG* | [ 0 to $1 / 1 / 0.01$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 3-551- \\ & 010 \end{aligned}$ | Select Recycle/Waste | Select Status | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-600- \\ & 001 \end{aligned}$ | Select ProCon | Potential Control | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 3-611- \\ & 001 \end{aligned}$ | Chrg DC Control | Std Speed | ENG* | [ 300 to $2000 / 790$ / 1-V] |
| $\begin{aligned} & 3-612- \\ & 001 \end{aligned}$ | Dev DC Control | Std Speed | ENG* | [ 200 to $800 / 590$ / 1-V] |
| $\begin{aligned} & 3-613- \\ & 101 \end{aligned}$ | LD Power Control | PrcsCntrlCorrect | ENG* | [ 0 to $200 / 130 / 1 \%$ ] |
| $\begin{aligned} & 3-623- \\ & 101 \end{aligned}$ | LD Power :Set | UpperLimit | ENG* | [ 100 to $200 / 132 / 1 \%$ ] |
| $\begin{aligned} & 3-623- \\ & 111 \end{aligned}$ | LD Power :Set | LowerLimit | ENG* | [ 0 to $100 / 67 / 1 \%$ ] |
| $\begin{aligned} & 3-630- \\ & 001 \end{aligned}$ | Vsp :Disp/Set | Current | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-630- \\ & 011 \end{aligned}$ | Dev gamma :Disp/Set | Target:K | ENG* | $\begin{aligned} & \hline[0.5 \text { to } 2.55 / 0.95 / \\ & 0.01 \mathrm{mg} / \mathrm{cm} 2 /-\mathrm{kV}] \\ & \hline \end{aligned}$ |
| $\begin{aligned} & 3-630- \\ & 061 \end{aligned}$ | Dev gamma :Disp/Set | TnrDensity | ENG* | [ 0 to $25.5 / 0 / 0.1 \mathrm{wt} \%$ ] |
| $\begin{aligned} & 3-631- \\ & 001 \end{aligned}$ | Vsdp :Disp | Current | ENG* | [ 0 to $5.5 / 0 / 0.01 \mathrm{~V}$ ] |
| $\begin{aligned} & 3-700- \\ & 001 \end{aligned}$ | New Unit Detection | ON/OFF Setting | ENG* | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 002 \end{aligned}$ | Manual New Unit Set | \#PCU | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 009 \end{aligned}$ | Manual New Unit Set | Cleaning Blade | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 018 \end{aligned}$ | Manual New Unit Set | Charge Roller | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 019 \end{aligned}$ | Manual New Unit Set | Cleaner:Charge Roller | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 021 \end{aligned}$ | Manual New Unit Set | OPC | ENG* | [ 0 to $1 / 0 / 1$ ] |
| 3-701- | Manual New Unit Set | Separation Pawl | ENG* | [ 0 to $1 / 0 / 1$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 022 |  |  |  |  |
| $\begin{aligned} & 3-701- \\ & 023 \end{aligned}$ | Manual New Unit Set | \#Development Unit | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 024 \end{aligned}$ | Manual New Unit Set | Development | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 025 \end{aligned}$ | Manual New Unit Set | Development Filter | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 028 \end{aligned}$ | Manual New Unit Set | Bearing:Development Screw | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 108 \end{aligned}$ | Manual New Unit Set | \#PTR Unit | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 115 \end{aligned}$ | Manual New Unit Set | \#Fusing Unit | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 116 \end{aligned}$ | Manual New Unit Set | Fusing Belt | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 118 \end{aligned}$ | Manual New Unit Set | Pressure Roller | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 119 \end{aligned}$ | Manual New Unit Set | Pressure Roller Bearings | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 142 \end{aligned}$ | Manual New Unit Set | Waste Toner bottle | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 206 \end{aligned}$ | Manual New Unit Set | ADF:Pick-up Roller | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 207 \end{aligned}$ | Manual New Unit Set | ADF:Feeding Belt | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 3-701- \\ & 208 \end{aligned}$ | Manual New Unit Set | ADF:Reverse Roller | ENG* | [ 0 to $1 / 0 / 1$ ] |
| 3-710- <br> 011 | mu Concentration Control: Set | mu sensor resolution | ENG* | [ 0 to $3 / 1 / 1$ ] |
| $\begin{aligned} & 3-710- \\ & 012 \end{aligned}$ | mu Concentration Control: <br> Set | Ini mu count offset | ENG* | [ 0 to $10000 / 5912 / 1]$ |
| 3-800014 | Waste Toner Full Detection | Threshold : Remainder days | ENG* | [ 1 to $255 / 15 / 1$ day] |
| $\begin{aligned} & 3-903- \\ & 001 \end{aligned}$ | Adjust Toner Remains | Bottle Motor Time | ENG* | [ 0 to 99999999 / $0 / 1 \mathrm{msec}$ ] |
| 3-903- | Adjust Toner Remains | Toner Level | ENG* | [ 0 to $100 / 100 / 1 \%$ ] |


| SP No. | Large Category | Small Category | ENG or <br> CTL | [Min to Max/Init./Step] |
| :--- | :--- | :--- | :--- | :--- |
| 002 |  |  |  |  |
| $3-903-$ <br> 004 | Adjust Toner Remains | Reset-Bottle Motor Time | ENG | $[0$ to $1 / 0 / 0]$ |
| $3-903-$ <br> 005 | Adjust Toner Remains | $0:$ OFF 1:ON | ENG* | $[0$ to $1 / 0 / 1]$ |

## SP Group 4000

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 4-008- \\ & 001 \end{aligned}$ | Sub Scan Magnification Adj |  | ENG* | [ -1 to $1 / 0 / 0.1 \%$ ] |
| $\begin{aligned} & 4-010- \\ & 001 \end{aligned}$ | Sub Scan Registration Adj |  | ENG* | [ -2 to $2 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-011- \\ & 001 \end{aligned}$ | Main Scan Reg |  | ENG* | [ -2.5 to $2.5 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-012- \\ & 001 \end{aligned}$ | Set Scale Mask | Book:Sub LEdge | ENG | [ 0 to $3 / 1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-012- \\ & 002 \end{aligned}$ | Set Scale Mask | Book:Sub TEdge | ENG | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-012- \\ & 003 \end{aligned}$ | Set Scale Mask | Book:Main:LEdge | ENG | [ 0 to $3 / 1 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-012- \\ & 004 \end{aligned}$ | Set Scale Mask | Book:Main:TEdge | ENG | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| 4-012- $005$ | Scanner Erase Margin: Scale | ADF: Leading Edge | ENG* | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-012- \\ & 007 \end{aligned}$ | Scanner Erase Margin: <br> Scale | ADF: Right | ENG* | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-012- \\ & 008 \end{aligned}$ | Scanner Erase Margin: <br> Scale | ADF: left | ENG* | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| 4-013- <br> 001 | Scanner Free run | Book mode :Lamp Off | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & \hline 4-013- \\ & 002 \\ & \hline \end{aligned}$ | Scanner Free run | Book mode :Lamp On | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 4-020- \\ & 001 \end{aligned}$ | DF Dust Check | Dust Detect:On/Off | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 4-020- \\ & 002 \end{aligned}$ | DF Dust Check | Dust Detect:Lvl | ENG | [ 0 to $8 / 4 / 1$ ] |
| $\begin{aligned} & 4-020- \\ & 003 \end{aligned}$ | DF Dust Check | Dust Reject:Lvl | ENG | [ 0 to $4 / 0 / 1$ ] |
| 4-020- $011$ | DF Dust Check | Dust Detect Level:Rear | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 4-020- \\ & 012 \end{aligned}$ | DF Dust Check | Correction Level:Rear | ENG | [ 0 to $8 / 4 / 1$ ] |
| 4-201- | LoCPP edge level:K | 600dpi 1bit edge1 | ENG* | [ 0 to $15 / 11 / 1]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 4-201- \\ & 006 \end{aligned}$ | LoCPP edge level:K | 600dpi 1bit edge23 | ENG* | [ 0 to $15 / 11 / 1]$ |
| $\begin{aligned} & 4-201- \\ & 011 \end{aligned}$ | LoCPP edge lv:K | 1200dpilbit edge 12 | ENG* | [ 0 to $15 / 12 / 1]$ |
| $\begin{aligned} & 4-201- \\ & 012 \end{aligned}$ | LoCPP edge lv:K | 1200dpilbit edge34 | ENG* | [ 0 to $15 / 12 / 1]$ |
| $\begin{aligned} & 4-301- \\ & 001 \end{aligned}$ | Operation Check APS <br> Sensor |  | ENG | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 4-303- \\ & 001 \end{aligned}$ | Min Size for APS |  | ENG* | [ 0 to $1 / 0 / 1$ ] <br> 0: No Original <br> 1: A5-Lengthwise |
| $\begin{aligned} & 4-305- \\ & 001 \end{aligned}$ | 8K/16K Detection |  | ENG* | $\begin{aligned} & {[0 \text { to } 3 / 0 / 1 \text { ] }} \\ & 0: \text { Normal Dtct } \\ & \text { 1: A4-LEF LT-SEF } \\ & \text { 2: LT-LEF A4-SEF } \\ & \text { 3: } 8 \mathrm{~K} 16 \mathrm{~K} \end{aligned}$ |
| $\begin{aligned} & 4-308- \\ & 001 \end{aligned}$ | Scan Size Detection | Detection ON/OFF | ENG* | $\begin{aligned} & {[0 \text { to } 2 / 1 / 1]} \\ & \text { 0: OFF } \\ & \text { 1: ON } \\ & \text { 2: APS } \end{aligned}$ |
| $\begin{aligned} & 4-309- \\ & 001 \end{aligned}$ | Scan Size Detect:Setting | Original Density Thresh | ENG* | [ 0 to $255 / 26 / 1$ digit] |
| $\begin{aligned} & 4-309- \\ & 002 \end{aligned}$ | Scan Size Detect:Setting | Detection Time | ENG* | $\text { [ } 20 \text { to } 100 / 60 /$ <br> $20 \mathrm{msec}]$ |
| $\begin{aligned} & 4-309- \\ & 003 \end{aligned}$ | Scan Size Detect:Setting | Lamp ON:Delay Time | ENG* | [ 40 to $200 / 40$ / $10 \mathrm{msec}]$ |
| $\begin{aligned} & 4-309- \\ & 004 \end{aligned}$ | Scan Size Detect:Setting | LED PWM Duty | ENG* | [ 0 to $100 / 45 / 1$ ] |
| $\begin{aligned} & 4-310- \\ & 001 \end{aligned}$ | Scan Size Detect Value | S1:R | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-310- \\ & 002 \end{aligned}$ | Scan Size Detect Value | S1:G | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-310- \\ & 003 \end{aligned}$ | Scan Size Detect Value | S1:B | ENG | [ 0 to $255 / 0 / 1$ digit] |
| 4-310- | Scan Size Detect Value | S2:R | ENG | [ 0 to $255 / 0 / 1$ digit] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 4-310- \\ & 005 \end{aligned}$ | Scan Size Detect Value | S2:G | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-310- \\ & 006 \end{aligned}$ | Scan Size Detect Value | S2:B | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-310- \\ & 007 \end{aligned}$ | Scan Size Detect Value | S3:R | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-310- \\ & 008 \end{aligned}$ | Scan Size Detect Value | S3:G | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-310- \\ & 009 \end{aligned}$ | Scan Size Detect Value | S3:B | ENG | [ 0 to $255 / 0 / 1$ digit] |
| $\begin{aligned} & 4-400- \\ & 001 \end{aligned}$ | Org Edge Mask | Book:Sub:LEdge(Left) | ENG | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-400- \\ & 002 \end{aligned}$ | Org Edge Mask | Book:Sub:TEdge(Right) | ENG | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-400- \\ & 003 \end{aligned}$ | Org Edge Mask | Book:Main:LEdge(Rear) | ENG | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-400- \\ & 004 \end{aligned}$ | Org Edge Mask | Book:Main:Tedge(Front) | ENG | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-400- \\ & 005 \end{aligned}$ | Scanner Erase Margin | ADF:Sub:LEdge(Left) | ENG* | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-400- \\ & 007 \end{aligned}$ | Scanner Erase Margin | ADF:Main:LEdge(Rear) | ENG* | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-400- \\ & 008 \end{aligned}$ | Scanner Erase Margin | ADF:Main:TEdge(Front) | ENG* | [ 0 to $3 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-417- \\ & 001 \end{aligned}$ | IPU Test Pattern | Test Pattern | ENG | [ 0 to $8 / 0 / 1$ ] <br> 0: Scan Image <br> 1: Gradation:Main A <br> 2: Patch 16C <br> 3: Grid pattern A <br> 4: Slant grid pattern B <br> 5: Argyle P:C <br> 6: Argyle P:D <br> 7: Scanned+Argyle P:C <br> 8: Scanned+Argyle P:D |
| 4-429- | Select Copy Data Security | Copying | ENG | [ 0 to $3 / 3 / 1$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 4-429- \\ & 002 \end{aligned}$ | Select Copy Data Security | Scanning | ENG | [ 0 to $3 / 3 / 1$ ] |
| $\begin{aligned} & 4-429- \\ & 003 \end{aligned}$ | Select Copy Data Security | Fax Operation | ENG | [ 0 to $3 / 3 / 1$ ] |
| 4-600001 | SBU Version Display | SBU ID | ENG | [ 0 x 00 to $0 \mathrm{xFF} / 0 / 1$ ] |
| $\begin{aligned} & 4-609- \\ & 001 \end{aligned}$ | Gray Balance Set: R | Book Scan | ENG* | $\begin{aligned} & {[-384 \text { to } 255 /-100 /} \\ & \text { 1digit] } \end{aligned}$ |
| $\begin{aligned} & 4-609- \\ & 002 \end{aligned}$ | Gray Balance Set: R | DF Scan | ENG* | $\begin{aligned} & {[-384 \text { to } 255 /-100 /} \\ & \text { 1digit] } \end{aligned}$ |
| 4-610- $001$ | Gray Balance Set: G | Book Scan | ENG* | $\begin{aligned} & {[-384 \text { to } 255 /-100 /} \\ & \text { 1digit] } \end{aligned}$ |
| $\begin{aligned} & 4-610- \\ & 002 \end{aligned}$ | Gray Balance Set: G | DF Scan | ENG* | $\begin{aligned} & {[-384 \text { to } 255 /-100 /} \\ & \text { 1digit] } \end{aligned}$ |
| $\begin{aligned} & 4-611- \\ & 001 \end{aligned}$ | Gray Balance Set: B | Book Scan | ENG* | $\begin{aligned} & {[-384 \text { to } 255 /-100 /} \\ & \text { 1digit] } \end{aligned}$ |
| $\begin{aligned} & 4-611- \\ & 002 \end{aligned}$ | Gray Balance Set: B | DF Scan | ENG* | $\begin{aligned} & {[-384 \text { to } 255 /-100 /} \\ & \text { 1digit] } \end{aligned}$ |
| $\begin{aligned} & 4-635- \\ & 001 \end{aligned}$ | SSCG Correction Set | Mode Selection | ENG* | [ 0 to $3 / 1 / 1$ ] |
| $\begin{aligned} & 4-646- \\ & 001 \end{aligned}$ | Scan Adjust Error | White level | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 4-646- \\ & 002 \end{aligned}$ | Scan Adjust Error | Black level | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 4-646- \\ & 003 \end{aligned}$ | Scan Adjust Error | SSCG Correction | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 4-647- \\ & 001 \end{aligned}$ | Scanner Hard Error | Power-ON | ENG | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 4-688- \\ & 001 \end{aligned}$ | DF Density Adjustment | ARDF | ENG* | [ 80 to $120 / 106 / 1 \%$ ] |
| $\begin{aligned} & 4-688- \\ & 002 \end{aligned}$ | Scan Image Density <br> Adjustment | 1-pass DF | ENG* | [ 80 to $120 / 101 / 1 \%$ ] |
| $\begin{aligned} & 4-699- \\ & 001 \end{aligned}$ | SBU Test Pattern Change |  | ENG | [ 0 to $255 / 0 / 1$ ] |
| 4-700- | CIS ID Display |  | ENG | [ 0 x 00 to $0 \mathrm{xFF} / 0 / 1]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 4-712- \\ & 001 \end{aligned}$ | CIS GB Adj. Value: R |  | ENG* | $\text { [ } 0 \text { to } 2048 \text { / } 1023 \text { / }$ <br> 1digit] |
| $\begin{aligned} & 4-713- \\ & 001 \end{aligned}$ | CIS GB Adj. Value: G |  | ENG* | $\text { [ } 0 \text { to } 2048 \text { / } 1023 \text { / }$ <br> 1digit] |
| $\begin{aligned} & 4-714- \\ & 001 \end{aligned}$ | CIS GB Adj. Value: B |  | ENG* | $\begin{aligned} & {[0 \text { to } 2048 / 1023 /} \\ & \text { 1digit] } \end{aligned}$ |
| $\begin{aligned} & 4-730- \\ & 001 \end{aligned}$ | FROM ADF Factory Setting | CIS Parameter | ENG | [ 0 to $1 / 0 / 0$ ] |
| $\begin{aligned} & 4-730- \\ & 002 \end{aligned}$ | FROM Main Factory Setting | Execution ON/OFF | ENG | [ 0 to $1 / 0 / 0$ ] |
| $\begin{aligned} & 4-730- \\ & 003 \end{aligned}$ | FROM Main Factory Setting | Execution Flag | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 4-730- \\ & 004 \end{aligned}$ | FROM Data Update |  | ENG | [ 0 to $1 / 0 / 0$ ] |
| $\begin{aligned} & 4-745- \\ & 001 \end{aligned}$ | CIS Image Level Error Flag |  | ENG | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 4-746- \\ & 001 \end{aligned}$ | CIS GB Adj Error Flag |  | ENG | [ 0 to $7 / 0 / 1$ ] |
| $\begin{aligned} & 4-747- \\ & 001 \end{aligned}$ | CIS Hard Error Flag |  | ENG | [ 0 to $15 / 0 / 1$ ] |
| $\begin{aligned} & 4-796- \\ & 001 \end{aligned}$ | Low Density Color Correction | Front Side | ENG* | $\begin{aligned} & {[0 \text { to } 3 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: WEAK } \\ & \text { 2: MEDIUM } \\ & \text { 3: STRONG } \end{aligned}$ |
| $\begin{aligned} & 4-796- \\ & 002 \end{aligned}$ | Low Density Color Correction | Rear Side | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 3 / 0 / 1 \text { ] } \\ & \text { 0: OFF } \\ & \text { 1: WEAK } \\ & \text { 2: MEDIUM } \\ & \text { 3: STRONG } \end{aligned}$ |
| $\begin{aligned} & 4-797- \\ & 002 \end{aligned}$ | Rear Side: Digital AE | Background Erase Level | ENG* | [ 512 to $1535 / 932 / 1]$ |
| $\begin{aligned} & 4-799- \\ & 001 \end{aligned}$ | CIS TEST Pattern | select | ENG | [ 0 to $5 / 0 / 1$ ] <br> 0: Normal Scan <br> 1: Fix Value Output |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 2: EO Fix Value Output <br> 3: Main Scan Gradation <br> 4: Sub Scan Gradation <br> 5: Grid Pattern |
| $\begin{aligned} & 4-799- \\ & 002 \end{aligned}$ | CIS TEST Pattern | Even Output Level Setting | ENG | [ 0 to $1023 / 0 / 1$ digit] |
| $\begin{aligned} & 4-799- \\ & 003 \end{aligned}$ | CIS TEST Pattern | Odd Output Level Setting | ENG | [ 0 to 1023 / 0 / 1digit] |
| $\begin{aligned} & 4-803- \\ & 001 \end{aligned}$ | Home Position Adj Value |  | ENG* | [ -2 to $2 / 0 / 0.1 \mathrm{~mm}$ ] |
| $\begin{aligned} & 4-853- \\ & 001 \end{aligned}$ | Partial LED ON | ON/OFF(Scan) | ENG* | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 4-853- \\ & 002 \end{aligned}$ | Partial LED ON | ON/OFF(Size Detection) | ENG* | [ 0 to $1 / 1 / 1$ ] |
| 4-860- <br> 001 | Scan Size Detect:Setting | Shading Data | ENG* | [ 512 to 1023 / $800 /$ 1digit] |
| $\begin{aligned} & 4-871- \\ & 001 \end{aligned}$ | Distortion Correction | Distortion Correction ON/OFF | ENG | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 4-871- \\ & 002 \end{aligned}$ | Distortion Correction | Distortion Initialization | ENG | [ 0 to $21 / 0 / 1$ ] |
| $\begin{aligned} & 4-871- \\ & 003 \end{aligned}$ | Distortion Correction | Magnification Adjust(DF) | ENG* | $\begin{aligned} & {[-0.35 \text { to } 0.35 / 0.11 /} \\ & 0.01 \%] \end{aligned}$ |
| $\begin{aligned} & 4-871- \\ & 004 \end{aligned}$ | Distortion Correction | Magnification Adjust(FB) | ENG* | $\begin{aligned} & {[-0.35 \text { to } 0.35 / 0 /} \\ & 0.01 \%] \end{aligned}$ |
| $\begin{aligned} & 4-903- \\ & 001 \end{aligned}$ | Filter Setting | Ind Dot Erase: Text | ENG* | [ 0 to $7 / 0 / 1$ ] |
| $\begin{aligned} & 4-903- \\ & 002 \end{aligned}$ | Filter Setting | Ind Dot Erase: Generation Copy | ENG* | [ 0 to $7 / 0 / 1$ ] |
| $\begin{aligned} & 4-907- \\ & 001 \end{aligned}$ | Gamma Correction | Stamp Entry | ENG | [ 0 to $2 / 1 / 1$ ] |
| $\begin{aligned} & 4-938- \\ & 005 \end{aligned}$ | ACS:Edge Mask | Scan:Sub LEdge | ENG* | [ 0 to $31 / 15 / 1$ ] |
| $\begin{aligned} & 4-938- \\ & 006 \end{aligned}$ | ACS:Edge Mask | Scan:Sub TEdge | ENG* | [ 0 to $31 / 15 / 1$ ] |
| $\begin{aligned} & 4-938- \\ & 007 \end{aligned}$ | ACS:Edge Mask | Scan:Main LEdge | ENG* | [ 0 to $31 / 15 / 1]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 4-938- \\ & 008 \end{aligned}$ | ACS:Edge Mask | Scan:Main TEdge | ENG* | [ 0 to $31 / 15 / 1]$ |
| $\begin{aligned} & 4-939- \\ & 001 \end{aligned}$ | ACS:Color Range |  | ENG* | [ -2 to $2 / 0 / 1$ ] |
| $\begin{aligned} & 4-954- \\ & 005 \end{aligned}$ | Restore Test Chart | Chromaticity Rank | ENG* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 4-958- \\ & 005 \end{aligned}$ | Restore Test Chart: Rear | Chromaticity Rank | ENG* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 4-994- \\ & 001 \end{aligned}$ | Adj Txt/Photo Recog <br> Level | High Compression PDF | ENG | [ 0 to $2 / 1 / 1$ ] |
| $\begin{aligned} & 4-996- \\ & 001 \end{aligned}$ | White Paper Detection Level |  | ENG | [ 0 to $6 / 3 / 1$ ] |

## SP Group 5000

| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 009- \\ & 201 \end{aligned}$ | Add display language | 1-8 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 009- \\ & 202 \end{aligned}$ | Add display language | 9-16 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 009- \\ & 203 \end{aligned}$ | Add display language | 17-24 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 009- <br> 204 | Add display language | 25-32 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 009- \\ & 205 \end{aligned}$ | Add display language | 33-40 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 009- \\ & 206 \end{aligned}$ | Add display language | 41-48 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 009- \\ & 207 \end{aligned}$ | Add display language | 49-56 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 024- <br> 001 | mm/inch Display Selection | 0:mm 1:inch | CTL* | $\begin{aligned} & {[0 \text { to } 1 / * / 1]} \\ & \text { *NA: } 1 \\ & \text { *EU/AP/CHN/TWN/KOR: } 0 \\ & 0: \mathrm{mm} \\ & \text { 1: inch } \end{aligned}$ |
| 5- <br> 045- <br> 001 | Accounting counter | Counter Method | CTL* | $\begin{aligned} & {[0 \text { to } 7 / 0 / 1]} \\ & 0: \text { Developments } \\ & \text { 1: Prints } \\ & \text { 2: Coverage } \\ & \text { 7: Coverage (YMC) } \end{aligned}$ |
| 5- 047- $001$ | Paper Display | Backing Paper | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 055- \\ & 001 \end{aligned}$ | Display IP address |  | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 061- \\ & 001 \end{aligned}$ | Toner Remaining Icon Display Change |  | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Not display <br> 1: Display |
| $\begin{aligned} & 5- \\ & 061- \\ & 101 \end{aligned}$ | Toner Remaining Window Display Change |  | CTL* | [ 0 to $255 / 3 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 002 \end{aligned}$ | Part Replacement Alert Display | \#PCU | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 009 \end{aligned}$ | Part Replacement Alert Display | Cleaning Blade | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 018 \end{aligned}$ | Part Replacement Alert Display | Charge Roller | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 019 \end{aligned}$ | Part Replacement Alert Display | Cleaner:Charge Roller | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 021 \end{aligned}$ | Part Replacement Alert Display | OPC | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 022 \end{aligned}$ | Part Replacement Alert Display | Stripper | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 023 \end{aligned}$ | Part Replacement Alert Display | \#Dev Unit | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 024 \end{aligned}$ | Part Replacement Alert Display | Developer | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 025 \end{aligned}$ | Part Replacement Alert Display | Development Filter | CTL* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG <br> or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 062- \\ & 028 \end{aligned}$ | Part Replacement Alert Display | Bearing:Development Screw | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 062- <br> 108 | Part Replacement Alert Display | \#Paper Transfer Roller Unit | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 062- \\ & 115 \end{aligned}$ | Part Replacement Alert Display | \#Fusing Unit | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not display } \\ & \text { 1: Display } \end{aligned}$ |
| 5- <br> 062- <br> 116 | Part Replacement Alert Display | Fusing Belt | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Not display <br> 1: Display |
| $\begin{aligned} & 5- \\ & 062- \\ & 118 \end{aligned}$ | Part Replacement Alert Display | Pressure Roller | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Not display <br> 1: Display |
| 5- <br> 062- <br> 119 | Part Replacement Alert Display | Bearing:Pressure Roller | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5-062142 | Part Replacement Alert Display | \#Waste Toner Bottle | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not display } \\ & \text { 1: Display } \end{aligned}$ |
| 5-062206 | Part Replacement Alert Display | \#ADF Pick-up Roller | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Not display <br> 1: Display |
| 5- <br> 062- $207$ | Part Replacement Alert Display | \#ADF Paper Supply Belt | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not display } \\ & \text { 1: Display } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 062- \\ & 208 \end{aligned}$ | Part Replacement Alert Display | \#ADF Reverse Roller | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Not display <br> 1: Display |
| $\begin{aligned} & 5- \\ & 066- \\ & 001 \end{aligned}$ | PM Parts Display |  | CTL* | $\begin{aligned} & \hline[0 \text { to } 1 / 0 / 1] \\ & 0: \text { Not display } \\ & \text { 1: Display } \\ & \hline \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 067- \\ & 002 \end{aligned}$ | Part Replacement Operation Type | \#PCU | CTL* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| 5-067009 | Part Replacement Operation Type | Cleaning Blade | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 018 \end{aligned}$ | Part Replacement Operation Type | Charge Roller | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 019 \end{aligned}$ | Part Replacement Operation Type | Cleaner:Charge Roller | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 021 \end{aligned}$ | Part Replacement Operation Type | OPC | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 022 \end{aligned}$ | Part Replacement Operation Type | Stripper | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 023 \end{aligned}$ | Part Replacement Operation Type | \#Dev Unit | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 024 \end{aligned}$ | Part Replacement Operation Type | Developer | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 025 \end{aligned}$ | Part Replacement Operation Type | Development Filter | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 028 \end{aligned}$ | Part Replacement Operation Type | Bearing:Development Screw | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 108 \end{aligned}$ | Part Replacement Operation Type | \#Paper Transfer Roller Unit | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 067- <br> 115 | Part Replacement Operation Type | \#Fusing Unit | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Service } \\ & \text { 1: User } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 067- \\ & 116 \end{aligned}$ | Part Replacement Operation Type | Fusing Belt | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Service } \\ & \text { 1: User } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 067- \\ & 118 \end{aligned}$ | Part Replacement Operation Type | Pressure Roller | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Service } \\ & \text { 1: User } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 067- \\ & 119 \end{aligned}$ | Part Replacement Operation Type | Bearing:Pressure Roller | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 067- \\ & 142 \end{aligned}$ | Part Replacement Operation Type | \#Waste Toner Bottle | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { Service } \\ & \text { 1: User } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 067- \\ & 206 \end{aligned}$ | Part Replacement Operation Type | \#ADF Pick-up Roller | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Service } \\ & \text { 1: User } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 067- \\ & 207 \end{aligned}$ | Part Replacement Operation Type | \#ADF Paper Supply Belt | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Service } \\ & 1: \text { User } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 067- \\ & 208 \end{aligned}$ | Part Replacement Operation Type | \#ADF Reverse Roller | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Service } \\ & \text { 1: User } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 071- \\ & 001 \end{aligned}$ | Set Bypass Paper Size Display |  | CTL | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Off } \\ & \text { 1: On } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 073- \\ & 001 \end{aligned}$ | Supply Part Replacement Operation Type | Waste Tonner Bottle | CTL* | [ 0 to $1 / 0 / 1$ ] 0:No Display 1:Display |
| 5-074002 | Home Key Customization | Login Setting | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5-074050 | Home Key Customization | Show Home Edit Menu | CTL* | [ 0 to $2 / 0 / 1$ ] |
| 5-074091 | Home Key Customization | Function Setting | CTL* | [ 0 to $2 / 0 / 1$ ] <br> 0 : Function disable <br> 1: SDK application <br> 2: Legacy application (reserved) |
| 5- | Home Key Customization | Product ID | CTL* | [ 0 to 0xffffffff / 0 / 1] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| $\begin{aligned} & 074- \\ & 092 \end{aligned}$ |  |  |  |  |
| 5- <br> 074- <br> 093 | Home Key Customization | Application Screen ID | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 075- <br> 003 | USB Keyboard | Display setting | CTL* | $\begin{array}{\|l} \hline[0 \text { to } 1 / 0 / 1] \\ 0: \text { Disable } \\ \text { 1: } \text { Enable } \end{array}$ |
| 5- <br> 081- <br> 001 | ServiceSP Entry Code Setting |  | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 083- \\ & 001 \end{aligned}$ | LED Light Switch Setting | Toner Near End | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| 5- <br> 083- <br> 002 | LED Light Switch Setting | Waste Toner Near End | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 101- <br> 202 | Copy Auto Clear Setting | Auto Clear Timer Setting (0:ON 1:OFF) | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 113- <br> 001 | Optional Counter Type | Default Optional Counter Type | CTL* | [ 0 to $12 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 113- \\ & 002 \end{aligned}$ | Optional Counter Type | External Optional Counter Type | CTL* | [ 0 to 3/0/1] |
| 5- <br> 114- <br> 001 | Optional Counter I/F | MF Key Card Extension | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Not installed <br> 1: Installed (scanning accounting) |
| 5- <br> 118- <br> 001 | Disable Copying |  | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Not disabled <br> 1: Disabled |
| 5- <br> 120- <br> 001 | Mode Clear Opt. Counter Removal | 0:Yes 1:StandBy 2:No | CTL* | $\begin{array}{\|l} {[0 \text { to } 2 / 0 / 1]} \\ 0: \text { Yes (removed) } \\ \text { 1: Standby (installed but not } \end{array}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | used) <br> 2: No (not removed) |
| 5- 121- $001$ | Counter Up Timing | 0:Feed 1:Exit | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Feed } \\ & \text { 1: Exit } \end{aligned}$ |
| 5- <br> 126- <br> 001 | Set F-size Document |  | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: 81 / 2 \times 13 \\ & 1: 81 / 4 \times 13 \\ & 2: 8 \times 13 \end{aligned}$ |
| 5- <br> 127- <br> 001 | APS OFF Mode |  | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not disabled } \\ & \text { 1: Disabled } \end{aligned}$ |
| 5-131001 | Paper Size Type Selection |  | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 2 / 0 / 1 \text { ] } \\ & 0: \mathrm{JP} \\ & \text { 1: NA } \\ & \text { 2: EU } \end{aligned}$ |
| 5-135001 | LG_Oficio Change |  | ENG* | [ 0 to $1 / 0 / 1$ ] |
| 5- $150-$ $001$ | Length Setting | Bypass(0:OFF 1:Long) | CTL | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \mathrm{ON} \end{aligned}$ |
| 5- $167-$ $001$ | Fax Printing Mode at Optional Counter Off |  | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Automatic printing <br> 1: No automatic printing |
| 5-169001 | CE Login |  | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Disabled } \\ & \text { 1: Enabled } \end{aligned}$ |
| 5- <br> 181- <br> 001 | Size Adjust | TRAY 1: 1 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { A4 LEF } \\ & 1: 81 / 2 \times 11 \mathrm{LEF} \end{aligned}$ |
| 5- <br> 181- <br> 002 | Size Adjust | TRAY 1: 2 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \mathrm{A} 3 \\ & 1: 11 \times 17 \end{aligned}$ |
| 5- 181- | Size Adjust | TRAY 1: 3 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { B4 } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  | 1: $81 / 2 \mathrm{x} 14$ SEF |
| 5-181004 | Size Adjust | TRAY 1: 4 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { B5 LEF } \\ & 1: 71 / 4 \times 101 / 2 \text { LEF } \end{aligned}$ |
| 5-181005 | Size Adjust | TRAY 2: 1 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { A4 LEF } \\ & 1: 81 / 2 \times 11 \mathrm{LEF} \end{aligned}$ |
| 5-181006 | Size Adjust | TRAY 2: 2 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \mathrm{A} 3 \\ & 1: 11 \times 17 \end{aligned}$ |
| 5-181007 | Size Adjust | TRAY 2: 3 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \mathrm{B} 4 \\ & 1: 81 / 2 \times 14 \mathrm{SEF} \end{aligned}$ |
| 5- <br> 181- <br> 008 | Size Adjust | TRAY 2: 4 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: B5 LEF } \\ & 1: 71 / 4 \times 101 / 2 \text { LEF } \end{aligned}$ |
| 5-181009 | Size Adjust | TRAY 3/T-LCT: 1 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0: A4LEF } \\ & \text { 1: LTLEF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 010 \end{aligned}$ | Size Adjust | TRAY 3: 2 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { A3 } \\ & \text { 1: DLT } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 011 \end{aligned}$ | Size Adjust | TRAY 3: 3 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0: B4 } \\ & \text { 1: LG } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 012 \end{aligned}$ | Size Adjust | TRAY 3: 4 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0: B5LEF } \\ & \text { 1: ExeLEF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 013 \end{aligned}$ | Size Adjust | TRAY 3: 5 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: 12.6 \times 17.7 \\ & 1: 12 \times 18 \end{aligned}$ |
| 5-181014 | Size Adjust | TRAY 4: 1 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0: A4LEF } \\ & \text { 1: LTLEF } \end{aligned}$ |
| 5- | Size Adjust | TRAY 4: 2 | ENG* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| $\begin{aligned} & 181- \\ & 015 \end{aligned}$ |  |  |  | $\begin{aligned} & 0: \mathrm{A} 3 \\ & 1: \text { DLT } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 016 \end{aligned}$ | Size Adjust | TRAY 4: 3 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: B4 } \\ & \text { 1: LG } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 017 \end{aligned}$ | Size Adjust | TRAY 4: 4 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: B5LEF } \\ & \text { 1: ExeLEF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 018 \end{aligned}$ | Size Adjust | TRAY 4: 5 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: 12.6 \times 17.7 \\ & 1: 12 \times 18 \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 019 \end{aligned}$ | Size Adjust | TRAY 5: 1 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: A4LEF } \\ & \text { 1: LTLEF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 020 \end{aligned}$ | Size Adjust | TRAY 5: 2 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: A3 } \\ & \text { 1: DLT } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 021 \end{aligned}$ | Size Adjust | TRAY 5: 3 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: B4 } \\ & \text { 1: LG } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 022 \end{aligned}$ | Size Adjust | TRAY 5: 4 | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: B5LEF } \\ & \text { 1: ExeLEF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 023 \end{aligned}$ | Size Adjust | TRAY 5: 5 | ENG* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: 12.6 \times 17.7 \\ & 1: 12 \times 18 \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 181- \\ & 024 \end{aligned}$ | Size Adjust | LCT | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 2 / 0 / 1 \text { ] } \\ & \text { 0: A4LEF } \\ & \text { 1: LTLEF } \\ & \text { 2: B5LEF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 186- \\ & 001 \end{aligned}$ | RK4 |  | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 188- \\ & 001 \end{aligned}$ | Copy Nv Version |  | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| $\begin{aligned} & 5- \\ & 191- \\ & 001 \end{aligned}$ | Mode Set | Power Str Set | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & \text { 0: OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 195- \\ & 001 \end{aligned}$ | Limitless SW |  | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0: Productivity Precede <br> 1: Use paper up |
| $\begin{aligned} & 5- \\ & 199- \\ & 001 \end{aligned}$ | Paper Exit After Staple End | Staple(1:Without 2:After 0:Auto) | CTL | [ 0 to $2 / 0 / 1$ ] |
| 5-199002 | Paper Exit After Staple End | Saddle(1:Without 2:After 0 :Auto) | CTL | [ 0 to $2 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 199- \\ & 003 \end{aligned}$ | Paper Exit After Staple End | Stapless(1:Without 2:After 0 :Auto) | CTL | [ 0 to $2 / 0 / 1$ ] |
| 5- <br> 212- <br> 003 | Page Numbering | Duplex Printout Left/Right <br> Position of Left/Right Facing | CTL* | [ -1000 to $1000 / 0 / 0.01 \mathrm{~mm}$ ] |
| $\begin{aligned} & 5- \\ & 212- \\ & 004 \end{aligned}$ | Page Numbering | Duplex Printout Top/Bottom Position of Left/Right Facing | CTL* | [ -1000 to $1000 / 0 / 0.01 \mathrm{~mm}$ ] |
| $\begin{aligned} & 5- \\ & 212- \\ & 018 \end{aligned}$ | Page Numbering | Duplex Printout Left/Right <br> Position of Top/Bottom <br> Facing | CTL* | [ -1000 to $1000 / 0 / 0.01 \mathrm{~mm}$ ] |
| $\begin{aligned} & 5- \\ & 212- \\ & 019 \end{aligned}$ | Page Numbering | Duplex Printout Top/Bottom <br> Position of Top/Bottom <br> Facing | CTL* | [ -1000 to $1000 / 0 / 0.01 \mathrm{~mm}$ ] |
| 5- $227-$ $201$ | Page Numbering | Allow Page No. Entry | CTL* | [ 2 to $9 / 9 / 1$ ] |
| 5-227202 | Page Numbering | Zero Surplus Setting | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0:OFF } \\ & \text { 1:ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 302- \\ & 002 \end{aligned}$ | Set Time | Time Difference | CTL* | $[-1440 \text { to } 1440 / * / 1]$ <br> *NA: -300 <br> *EU: 60 |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & \text { *AP/CHN/TWN: } 480 \\ & \text { *KOR: } 540 \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 305- \\ & 101 \end{aligned}$ | Auto Off Set | Auto Off Limit Set | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 307- \\ & 001 \end{aligned}$ | Daylight Saving Time | Setting | CTL* | $[0 \text { to } 1 / * / 1]$ <br> *NA/EU: 1 <br> *AP/CHN/TWN/KOR: 0 <br> 0: Disabled <br> 1: Enabled |
| $\begin{aligned} & 5- \\ & 307- \\ & 003 \end{aligned}$ | Daylight Saving Time | Rule Set(Start) | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 0 x f f f f f f f f \text { / } / 1 \text { ] } \\ & \text { *NA: 0x03200210 } \\ & \text { *EU: 0x03500010 } \\ & \text { *AP: 0x10500010 } \\ & \text { *CHN/TWN/KOR: } 0 \end{aligned}$ |
| 5- <br> 307- <br> 004 | Daylight Saving Time | Rule Set(End) | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 0 x f f f f f f f f \text { / } / 1 \text { ] } \\ & \text { *NA: } 0 x 11100200 \\ & \text { *EU: } 0 x 10500100 \\ & \text { *AP: 0x03100000 } \\ & \text { *CHN/TWN/KOR: } 0 \end{aligned}$ |
| 5- <br> 401- <br> 103 | Access Control | Default Document ACL | CTL* | [ 0 to $3 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 401- \\ & 104 \end{aligned}$ | Access Control | Authentication Time | CTL* | [ 0 to $255 / 0 / 1 \mathrm{sec}$ ] |
| 5-401162 | Access Control | Extend Certification Detail | CTL* | [ 0 to 0xff / 0 / 1] |
| 5-401- $200$ | Access Control | SDK1 UniqueID | CTL* | [ 0 to 0xFFFFFFFF / $0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 401- \\ & 201 \end{aligned}$ | Access Control | SDK1 Certification Method | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- | Access Control | SDK2 UniqueID | CTL* | [ 0 to 0xFFFFFFFF / $0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 401- \\ & 210 \end{aligned}$ |  |  |  |  |
| $\begin{aligned} & 5- \\ & 401- \\ & 211 \end{aligned}$ | Access Control | SDK2 Certification Method | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 401- <br> 220 | Access Control | SDK3 UniqueID | CTL* | [ 0 to 0xFFFFFFFF / 0 / 1] |
| 5- <br> 401- <br> 221 | Access Control | SDK3 Certification Method | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 401- <br> 230 | Access Control | SDK Certification Device | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 0 x f f / 0 / 1 \text { ] } \\ & 0-1: \text { SDK authentication } \\ & \text { available } \\ & 0-0 \text { : Disable all functions } \\ & \text { 1-1: SKB Display } \\ & \text { 1-0: Disable } \\ & \text { 2-1: Administrator login } \\ & \text { 2-0: Disable } \\ & 3 \text { to 7-0: Reserved (set " } 0 \text { " } \\ & \text { only) } \end{aligned}$ |
| 5- <br> 401- <br> 240 | Access Control | Detail Option | CTL* | [ 0 to $0 x f f / 0 / 1$ ] <br> 0 : Logout confirm option <br> -1: ON, 0: OFF <br> 2 to 1: Auto-logout timer(retry timer) <br> -11: 30sec, 10: 20sec, 01 : <br> 10sec, 00: 60sec <br> 3: personal authority / Group authority and operation <br> -1: ON, 0: OFF <br> 4: Skip password entry <br> -1: ON, 0: OFF <br> 5: Set the display of the remaining Frequence <br> -1: ON, 0: OFF |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 6 to 7: Set the display time -1: ON, 0: OFF |
| 5- <br> 402- <br> 101 | Access Control | SDKJ1 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 402- \\ & 102 \end{aligned}$ | Access Control | SDKJ2 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 103 | Access Control | SDKJ3 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 104 | Access Control | SDKJ4 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 105 | Access Control | SDKJ5 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 106 | Access Control | SDKJ6 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 402- \\ & 107 \end{aligned}$ | Access Control | SDKJ7 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5-402108 | Access Control | SDKJ8 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 109 | Access Control | SDKJ9 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 110 | Access Control | SDKJ10 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 402- \\ & 111 \end{aligned}$ | Access Control | SDKJ11 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 402- \\ & 112 \end{aligned}$ | Access Control | SDKJ12 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 402- \\ & 113 \end{aligned}$ | Access Control | SDKJ13 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 114 | Access Control | SDKJ14 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 115 | Access Control | SDKJ15 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 402- \\ & 116 \end{aligned}$ | Access Control | SDKJ16 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 117 | Access Control | SDKJ17 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 118 | Access Control | SDKJ18 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 119 | Access Control | SDKJ19 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5-402120 | Access Control | SDKJ20 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 121 | Access Control | SDKJ21 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 122 | Access Control | SDKJ22 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |
| 5- <br> 402- <br> 123 | Access Control | SDKJ23 Limit Setting | CTL* | [ 0 to $0 \mathrm{xFF} / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 402- \\ & 124 \end{aligned}$ | Access Control | SDKJ24 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 125 | Access Control | SDKJ25 Limit Setting | CTL* | [ 0 to $0 x$ FFF / $0 / 1$ ] |
| 5- <br> 402- <br> 126 | Access Control | SDKJ26 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 127 | Access Control | SDKJ27 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 128 | Access Control | SDKJ28 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| 5- <br> 402- <br> 129 | Access Control | SDKJ29 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 402- \\ & 130 \end{aligned}$ | Access Control | SDKJ30 Limit Setting | CTL* | [ 0 to $0 x F F / 0 / 1$ ] |
| $\begin{aligned} & \hline 5- \\ & 402- \\ & 141 \end{aligned}$ | Access Control | SDKJ1 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5-402- <br> 142 | Access Control | SDKJ2 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 143 | Access Control | SDKJ3 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| $\begin{aligned} & 5- \\ & 402- \\ & 144 \end{aligned}$ | Access Control | SDKJ4 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 145 | Access Control | SDKJ5 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 402- \\ & 146 \end{aligned}$ | Access Control | SDKJ6 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 147 | Access Control | SDKJ7 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| $\begin{aligned} & 5- \\ & 402- \\ & 148 \end{aligned}$ | Access Control | SDKJ8 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 149 | Access Control | SDKJ9 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5-402150 | Access Control | SDKJ10 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 151 | Access Control | SDKJ11 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 152 | Access Control | SDKJ12 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| $\begin{aligned} & 5- \\ & 402- \\ & 153 \end{aligned}$ | Access Control | SDKJ13 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 154 | Access Control | SDKJ14 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5-402155 | Access Control | SDKJ15 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 156 | Access Control | SDKJ16 ProductID | CTL* | [ 0 to 0xffffffff / 0/1] |
| 5- <br> 402- <br> 157 | Access Control | SDKJ17 ProductID | CTL* | [ 0 to 0xffffffff / 0/1] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 402- \\ & 158 \end{aligned}$ | Access Control | SDKJ18 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 159 | Access Control | SDKJ19 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 160 | Access Control | SDKJ20 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 161 | Access Control | SDKJ21 ProductID | CTL* | [ 0 to 0xffffffff / 0/1] |
| $\begin{aligned} & 5- \\ & 402- \\ & 162 \end{aligned}$ | Access Control | SDKJ22 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| $\begin{aligned} & 5- \\ & 402- \\ & 163 \end{aligned}$ | Access Control | SDKJ23 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5-402164 | Access Control | SDKJ24 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 165 | Access Control | SDKJ25 ProductID | CTL* | [ 0 to 0xffffffff / 0/1] |
| 5-402166 | Access Control | SDKJ26 ProductID | CTL* | [ 0 to 0xffffffff / 0/1] |
| 5- <br> 402- <br> 167 | Access Control | SDKJ27 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 402- <br> 168 | Access Control | SDKJ28 ProductID | CTL* | [ 0 to 0xffffffff / 0/1] |
| 5- <br> 402- <br> 169 | Access Control | SDKJ29 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 402- \\ & 170 \end{aligned}$ | Access Control | SDKJ30 ProductID | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5-404- <br> 001 | User Code Count Clear | User Code Count Clear | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 404- <br> 101 | User Code Count Clear | User Code Count Clear Permit Setting | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5-411004 | LDAP-Certification | Simplified Authentication | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & \text { 1: On } \\ & 0: \text { Off } \end{aligned}$ |
| 5- <br> 411- $005$ | LDAP-Certification | Password Null Not Permit | CTL* | [ 0 to $1 / 1 / 1$ ] <br> 0: Password NULL not permitted. <br> 1: Password NULL permitted. |
| 5- <br> 411- <br> 006 | LDAP-Certification | Detail Option | CTL* | $\begin{aligned} & {[0 \text { to } 0 x f f / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| 5- <br> 412- <br> 100 | Krb-Certification | Encrypt Mode | CTL* | [ 0 to $0 \times \mathrm{xFF} / 0 \times 1 \mathrm{~F} / 1$ ] |
| $\begin{aligned} & 5- \\ & 413- \\ & 001 \end{aligned}$ | Lockout Setting | Lockout On/Off | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: Off } \\ & \text { 1: On } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 413- \\ & 002 \end{aligned}$ | Lockout Setting | Lockout Threshold | CTL* | [ 1 to $10 / 5 / 1]$ |
| $\begin{aligned} & 5- \\ & 413- \\ & 003 \end{aligned}$ | Lockout Setting | Cancelation On/Off | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Off (no wait time, lockout not cancelled) <br> 1: On (system waits, cancels lockout if correct user ID and password are entered) |
| 5-413- | Lockout Setting | Cancelation Time | CTL* | [ 1 to 9999 / 60 / 1min] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| 5- <br> 414- <br> 001 | Access Mitigation | Mitigation On/Off | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| 5- <br> 414- <br> 002 | Access Mitigation | Mitigation Time | CTL* | [ 0 to $60 / 15 / 1 \mathrm{~min}$ ] |
| $\begin{aligned} & \hline 5- \\ & 415- \\ & 001 \end{aligned}$ | Password Attack | Permissible Number | CTL* | [ 0 to $100 / 30 / 1$ ] |
| 5- <br> 415- <br> 002 | Password Attack | Detect Time | CTL* | [ 1 to $10 / 5 / 1]$ |
| 5- <br> 416- <br> 001 | Access Information | Access User Max Num | CTL* | [ 50 to $200 / 200 / 1$ ] |
| 5- <br> 416- <br> 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- <br> 417- <br> 001 | Access Attack | Access Permissible Number | CTL* | [ 0 to $500 / 100 / 1$ ] |
| 5- <br> 417- <br> 002 | Access Attack | Attack Detect Time | CTL* | [ 10 to $30 / 10 / 1 \mathrm{sec}$ ] |
| 5- <br> 417- <br> 003 | Access Attack | Productivity Fall Waite | CTL* | [ 0 to $9 / 3 / 1 \mathrm{sec}$ ] |
| 5-417004 | Access Attack | Attack Max Num | CTL* | [ 50 to $200 / 200 / 1$ ] |
| 5- | User Authentication | Copy | CTL* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 420- \\ & 001 \end{aligned}$ |  |  |  | $\begin{aligned} & 0: \text { On } \\ & \text { 1: Off } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 420- \\ & 011 \end{aligned}$ | User Authentication | DocumentServer | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { On } \\ & \text { 1: Off } \end{aligned}$ |
| 5- <br> 420- <br> 021 | User Authentication | Fax | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: On } \\ & \text { 1: Off } \end{aligned}$ |
| 5- <br> 420- <br> 031 | User Authentication | Scanner | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { On } \\ & \text { 1: Off } \end{aligned}$ |
| $\begin{aligned} & \hline 5- \\ & 420- \\ & 041 \end{aligned}$ | User Authentication | Printer | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { On } \\ & \text { 1: Off } \end{aligned}$ |
| 5- <br> 420- <br> 051 | User Authentication | SDK1 | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: ON } \\ & \text { 1: OFF } \end{aligned}$ |
| 5- <br> 420- <br> 061 | User Authentication | SDK2 | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { ON } \\ & \text { 1: OFF } \end{aligned}$ |
| 5- <br> 420- <br> 071 | User Authentication | SDK3 | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { ON } \\ & \text { 1: OFF } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 420- \\ & 081 \end{aligned}$ | User Authentication | Browser | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: ON } \\ & \text { 1: OFF } \end{aligned}$ |
| 5- <br> 430- <br> 001 | Auth Dialog Message Change | Message Change On/Off | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 430- <br> 002 | Auth Dialog Message Change | Message Text Download | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 430- \\ & 003 \end{aligned}$ | Auth Dialog Message Change | Message Text ID | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 431- \\ & 010 \end{aligned}$ | External Auth User Preset | Tag | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 011 | External Auth User Preset | Entry | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 012 | External Auth User Preset | Group | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 020 | External Auth User Preset | Mail | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 030 | External Auth User Preset | Fax | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 031 | External Auth User Preset | FaxSub | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5-431032 | External Auth User Preset | Folder | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 033 | External Auth User Preset | ProtectCode | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 034 | External Auth User Preset | SmtpAuth | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5-431035 | External Auth User Preset | LdapAuth | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 036 | External Auth User Preset | Smb Ftp Fldr Auth | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 431- <br> 037 | External Auth User Preset | AcntAcl | CTL* | [ 0 to $1 / 1 / 1$ ] |


| SP <br> No. | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-431038 | External Auth User Preset | DocumentAcl | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5-431040 | External Auth User Preset | CertCrypt | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 431- <br> 050 | External Auth User Preset | UserLimitCount | CTL* | [ 0 to $1 / 1 / 1]$ |
| 5- <br> 481- <br> 001 | Authentication Error Code | System Log Disp | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Off } \\ & \text { 1: On } \end{aligned}$ |
| 5- <br> 481- <br> 002 | Authentication Error Code | Panel Disp | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & \text { 1: On } \\ & 0: \text { Off } \end{aligned}$ |
| 5- <br> 490- <br> 001 | MF KeyCard | Job Permit Setting | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0: Disabled. Cancels operation without a user code. 1: Enabled. Allows operation without a user code. |
| 5- <br> 491- <br> 001 | Optional Counter | Detail Option | CTL* | [ 0 to 0xff / 0/1] |
| 5- <br> 501- <br> 001 | PM Alarm | PM Alarm Level | CTL* | [ 0 to $9999 / 0 / 1$ ] 0 : Alarm off 1 to $9999:$ Alarm goes off when Value (1 to 9999) x $1000>$ PM counter |
| 5-504001 | Jam Alarm |  | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 3 / 3 / 1 \text { ] } \\ & 0: \mathrm{Z} \\ & \text { 1: L } \\ & \text { 2: M } \\ & \text { 3: H } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 504- \\ & 002 \end{aligned}$ | Jam Alarm | Threshold | CTL | [ 1 to $99 / 10 / 1]$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5- 505- $001$ | Error Alarm |  | CTL* | $\begin{aligned} & \text { [ } 0 \text { to 255 / * / 1] } \\ & \text { *MP 2555: } 20 \\ & \text { *MP 3055: } 25 \\ & \text { *MP 3555: } 35 \\ & \text { *MP 4055: } 45 \\ & \text { *MP 5055: } 60 \\ & \text { *MP 6055: } 75 \\ & \text { 0: Alarm Off } \end{aligned}$ |
| 5- 505- $002$ | Error Alarm | Threshold | CTL | [ 1 to $99 / 5 / 1$ ] |
| 5- <br> 507- <br> 001 | Supply/CC Alarm | Paper Supply Alarm | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| 5- <br> 507- <br> 002 | Supply/CC Alarm | Staple Supply Alarm | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| 5- <br> 507- <br> 003 | Supply/CC Alarm | Toner Supply Alarm | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 507- \\ & 080 \end{aligned}$ | Supply/CC Alarm | Toner Call Timing | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Toner bottle replacement <br> 1: Less than toner threshold |
| $\begin{aligned} & 5- \\ & 507- \\ & 081 \end{aligned}$ | Supply/CC Alarm | Toner Call Threshold | CTL* | [ $10 / 10 /$ Fixed value] <br> This program enables only if SP5-507-080 is " 1 ". <br> The threshold for triggering a Toner Call is fixed at $10 \%$, and cannot be changed. Therefore, the timing of the toner autodelivery service and alerts on the operation panel also cannot be changed. |
| 5- <br> 507- <br> 128 | Supply/CC Alarm | Interval: Others | CTL* | [ 250 to $10000 / 1000 / 1]$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5- $507-$ $132$ | Supply/CC Alarm | Interval: A3 | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| 5-507133 | Supply/CC Alarm | Interval: A4 | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| 5- <br> 507- <br> 134 | Supply/CC Alarm | Interval: A5 | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| 5- <br> 507- <br> 141 | Supply/CC Alarm | Interval: B4 | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| 5- <br> 507- <br> 142 | Supply/CC Alarm | Interval: B5 | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| $\begin{aligned} & 5- \\ & 507- \\ & 160 \end{aligned}$ | Supply/CC Alarm | Interval: DLT | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| 5- <br> 507- <br> 164 | Supply/CC Alarm | Interval: LG | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| $\begin{aligned} & 5- \\ & 507- \\ & 166 \end{aligned}$ | Supply/CC Alarm | Interval: LT | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| 5-507- <br> 172 | Supply/CC Alarm | Interval: HLT | CTL* | [ 250 to $10000 / 1000 / 1]$ |
| $\begin{aligned} & 5- \\ & 508- \\ & 001 \end{aligned}$ | CC Call | Jam Remains | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 508- \\ & 002 \end{aligned}$ | CC Call | Continuous Jams | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |
| 5- <br> 508- <br> 003 | CC Call | Continuous Door Open | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 508- \\ & 011 \end{aligned}$ | CC Call | Jam Detection: Time Length | CTL* | [ 3 to $30 / 10 / 1$ ] |
| $\begin{aligned} & 5- \\ & 508- \\ & 012 \end{aligned}$ | CC Call | Jam Detection: Continuous Count | CTL* | [ 2 to $10 / 5 / 1]$ |
| $\begin{aligned} & 5- \\ & 508- \\ & 013 \end{aligned}$ | CC Call | Door Open: Time Length | CTL* | [ 3 to $30 / 10 / 1$ ] |
| 5-513001 | PartsAlermlevelCount | Normal | CTL | [ 1 to 9999 / $300 / 1$ ] |
| 5- <br> 513- <br> 002 | PartsAlermlevelCount | Df | CTL | [ 1 to 9999 / $300 / 1$ ] |
| $\begin{aligned} & 5- \\ & 514- \\ & 001 \end{aligned}$ | PartsAlermlev | Normal | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 5- \\ & 514- \\ & 002 \end{aligned}$ | PartsAlermlev | Df | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 515- \\ & 001 \end{aligned}$ | SC/Alarm Setting | SC Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & \hline 5- \\ & 515- \\ & 002 \end{aligned}$ | SC/Alarm Setting | Service Parts Near End Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & \hline 5- \\ & 515- \\ & 003 \end{aligned}$ | SC/Alarm Setting | Service Parts End Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| 5- <br> 515- <br> 004 | SC/Alarm Setting | User Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 515- \\ & 006 \end{aligned}$ | SC/Alarm Setting | Communication Test Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-515007 | SC/Alarm Setting | Machine Information Notice | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & \text { 0: OFF } \\ & \text { 1: ON } \end{aligned}$ |
| 5- <br> 515- <br> 008 | SC/Alarm Setting | Alarm Notice | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 515- \\ & 010 \end{aligned}$ | SC/Alarm Setting | Supply Automatic Ordering Call | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 1 / 1] \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 515- \\ & 011 \end{aligned}$ | SC/Alarm Setting | Supply Management Report Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 515- \\ & 012 \end{aligned}$ | SC/Alarm Setting | Jam/Door Open Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 515- \\ & 050 \end{aligned}$ | SC/Alarm Setting | Timeout:Manual Call | CTL* | [ 1 to $255 / 5 / 1 \mathrm{~min}$ ] |
| $\begin{aligned} & 5- \\ & 515- \\ & 051 \end{aligned}$ | SC/Alarm Setting | Timeout:Other Call | CTL | [ 1 to $255 / 10 / 1 \mathrm{~min}$ ] |
| $\begin{aligned} & 5- \\ & 517- \\ & 061 \end{aligned}$ | Get Machine Information | AutoDiscovery Execution Setting | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 517- \\ & 062 \end{aligned}$ | Get Machine Information | AutoDiscovery Execution Interval | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 517- \\ & 063 \end{aligned}$ | Get Machine Information | AutoDiscovery Execution Weekday | CTL | [ 0 to $6 / 0 / 1$ ] |
| 5- <br> 517- <br> 064 | Get Machine Information | AutoDiscovery Execution Hour | CTL | [ 0 to $23 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 517- \\ & 065 \end{aligned}$ | Get Machine Information | AutoDiscovery Execution Minute | CTL | [ 0 to $59 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-517066 | Get Machine Information | AutoDiscovery SNMP Community Name | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-728001 | Network Setting | NAT Machine Portl | CTL* | [ 1 to $65535 / 49101 / 1]$ |
| 5- <br> 728- <br> 002 | Network Setting | NAT UI Port1 | CTL* | [ 1 to $65535 / 55101 / 1]$ |
| 5- <br> 728- <br> 003 | Network Setting | NAT Machine Port2 | CTL* | [ 1 to $65535 / 49102 / 1]$ |
| 5- <br> 728- <br> 004 | Network Setting | NAT UI Port2 | CTL* | [ 1 to $65535 / 55102 / 1]$ |
| 5- <br> 728- <br> 005 | Network Setting | NAT Machine Port3 | CTL* | [ 1 to $65535 / 49103 / 1]$ |
| $\begin{aligned} & 5- \\ & 728- \\ & 006 \end{aligned}$ | Network Setting | NAT UI Port3 | CTL* | [ 1 to $65535 / 55103 / 1]$ |
| 5- <br> 728- <br> 007 | Network Setting | NAT Machine Port4 | CTL* | [ 1 to $65535 / 49104 / 1]$ |
| $\begin{aligned} & 5- \\ & 728- \\ & 008 \end{aligned}$ | Network Setting | NAT UI Port4 | CTL* | [ 1 to $65535 / 55104 / 1]$ |
| 5-728009 | Network Setting | NAT Machine Port5 | CTL* | [ 1 to $65535 / 49105 / 1]$ |
| $\begin{aligned} & 5- \\ & 728- \\ & 010 \end{aligned}$ | Network Setting | NAT UI Port5 | CTL* | [ 1 to $65535 / 55105 / 1]$ |
| $\begin{aligned} & 5- \\ & 728- \\ & 011 \end{aligned}$ | Network Setting | NAT Machine Port6 | CTL* | [ 1 to $65535 / 49106 / 1]$ |


| $\begin{array}{l}\text { SP } \\ \text { No. }\end{array}$ | Large Category | Small Category | ENG | [Min to Max/Init./Step] |
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| or |  |  |  |  |
| CTL |  |  |  |  |$]$


| SP <br> No. | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-728104 | Network Setting | PacketCapture:length | CTL | [ 54 to $65535 / 128 / 1]$ |
| 5-728105 | Network Setting | PacketCapture:broadcast | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 728- <br> 106 | Network Setting | PacketCapture:specify port | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5-728107 | Network Setting | PacketCapture:portnumber | CTL | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 728- \\ & 108 \end{aligned}$ | Network Setting | PacketCapture:time | CTL | [ 0 to 0xffffffff / 0 / 1] |
| $\begin{aligned} & 5- \\ & 730- \\ & 001 \end{aligned}$ | Extended Function Setting | JavaTM Platform setting | CTL* | $\text { [ } 0 \text { to } 1 / 1 / 1]$ <br> 0: Disable, 1: Enable |
| $\begin{aligned} & 5- \\ & 730- \\ & 010 \end{aligned}$ | Extended Function Setting | Expiration Prior Alarm Set | CTL* | [ 0 to 999 / 20 / 1days] |
| 5- <br> 731- <br> 001 | Counter Effect | Change Mk1 Cnt(Paper- <br> $>$ Combine) | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 734- <br> 001 | PDF Setting | PDF/A Fixed | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5-741001 | Node Authentication Timuout |  | CTL* | [ 1 to $255 / 60 / 1 \mathrm{sec}$ ] |
| 5- <br> 745- <br> 211 | DeemedPowerConsumption | Controller Standby | CTL* | [ 0 to 9999 / 0 / 1] |
| $\begin{aligned} & 5- \\ & 745- \\ & 212 \end{aligned}$ | DeemedPowerConsumption | STR | CTL* | [ 0 to 9999 / 0 / 1] |


| SP <br> No. | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-745213 | DeemedPowerConsumption | Main Power Off | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| 5- <br> 745- <br> 214 | DeemedPowerConsumption | Scanning and Printing | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| 5- <br> 745- <br> 215 | DeemedPowerConsumption | Printing | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| 5- <br> 745- <br> 216 | DeemedPowerConsumption | Scanning | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 745- \\ & 217 \end{aligned}$ | DeemedPowerConsumption | Engine Standby | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| 5- <br> 745- <br> 218 | DeemedPowerConsumption | Low Power Consumption | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| 5-745219 | DeemedPowerConsumption | Silent condition | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| 5- <br> 745- <br> 220 | DeemedPowerConsumption | Heater Off | CTL* | [ 0 to $9999 / 0 / 1$ ] |
| $\begin{aligned} & \hline 5- \\ & 748- \\ & 101 \end{aligned}$ | OpePanel Setting | Op Type Action Setting | CTL | [ 0 to $255 / 0 / 1$ ] $0:$ Normal operation panel (1: Reconnect, $0:$ Not recconect) 1: Smart operation panel (1: Job stop, $0:$ Job duration) 2: Smart Operation Panel mode settings (1: Secure boot, 0 : Normal boot) |
| $\begin{array}{\|l\|} \hline 5- \\ 748- \\ 201 \end{array}$ | OpePanel Setting | Cheetah Panel Connect Setting | CTL | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & \text { 1: ON } \end{aligned}$ |
| 5- | Import/Export | Export | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 749- \\ & 001 \end{aligned}$ |  |  |  | Target: System, Printer, Fax, Scanner Option: Unique, Secret Copy config: Encryption, Encryption key (if selected) |
| 5- <br> 749- <br> 101 | Import/Export | Import | CTL | $\text { [ } 0 \text { to } 0 / 0 / 0]$ <br> Option: Unique <br> Copy config: Encryption, <br> Encryption key (if selected) |
| 5- 751- $001$ | Key Event Encryption Setting | Password | CTL | [ 0 to $255 / 0 / 1$ ] |
| 5- 752- $001$ | Copy:FlairAPI Setting | 0x00-0xff | CTL* | [ 0 to $255 / 0 / 1$ ] <br> bit 0: Start of FlairAPI Server (0: Off, 1: On) <br> bit 1: Access Perrmission of FlairAPI from outside of the machine (0: Disabled, 1 : <br> Enabled) <br> bit 2: Reserved <br> bit 3: Reserved <br> bit 4: Simple UI Function (0: <br> Disabled, 1: Enabled) <br> bit 5: Accessing permission of Simple UI from outside of the machine ( 0 : Disabled, 1 : <br> Enabled) <br> bit 6: Reserved <br> bit 7: Reserved |
| 5-755001 | Display Setting | Disp Administrator <br> Password Change Scrn | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 755- \\ & 002 \end{aligned}$ | Display Setting | Hide Administrator <br> Password Change Scrn | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- | RemoteUI Setting | Authentication | CTL | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 758- \\ & 001 \end{aligned}$ |  |  |  |  |
| 5- 759- $001$ | Machine Limit Count | Machine Limit Count Setting | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 759- \\ & 051 \end{aligned}$ | Machine Limit Count | Limit Count | CTL | [ 0 to 99999999 / 0 / 1] |
| 5- 761- $001$ | SmartOperationPanel Setting | Restore the default Home screen | CTL | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 001 \end{aligned}$ | Memory Clear | All Clear | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 002 \end{aligned}$ | Memory Clear | Engine | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 801- <br> 003 | Memory Clear | SCS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 004 \end{aligned}$ | Memory Clear | IMH Memory Clr | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 801- <br> 005 | Memory Clear | MCS | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-801006 | Memory Clear | Copier application | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 801- <br> 007 | Memory Clear | Fax Application | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 801- <br> 008 | Memory Clear | Printer Application | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-801009 | Memory Clear | Scanner Application | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 010 \end{aligned}$ | Memory Clear | Web Service | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 011 \end{aligned}$ | Memory Clear | NCS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 012 \end{aligned}$ | Memory Clear | R-FAX | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-801014 | Memory Clear | Clear DCS Setting | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 015 \end{aligned}$ | Memory Clear | Clear UCS Setting | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 016 \end{aligned}$ | Memory Clear | MIRS Setting | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 017 \end{aligned}$ | Memory Clear | CCS | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 801- <br> 018 | Memory Clear | SRM Memory Clr | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 019 \end{aligned}$ | Memory Clear | LCS | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 801- <br> 020 | Cleae Memory | Web Uapli | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 021 \end{aligned}$ | Memory Clear | ECS | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 801- \\ & 023 \end{aligned}$ | Memory Clear | AICS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 025 \end{aligned}$ | Cleae Memory | websys | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 026 \end{aligned}$ | Memory Clear | PLN | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 027 \end{aligned}$ | Memory Clear | SAS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 801- \\ & 028 \end{aligned}$ | Memory Clear | Rest WebService | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 805- \\ & 001 \end{aligned}$ | Anti-Condensation Heater | 0:OFF / 1:ON | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 810- \\ & 001 \end{aligned}$ | SC Reset | Fusing SC Reset | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 810- \\ & 002 \end{aligned}$ | SC Reset | Hard High Temp. Detection | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 811- <br> 002 | MachineSerial | Display | ENG* | [ 0 to $255 / 0 / 1$ ] |
| 5- 811- $004$ | MachineSerial Set | BCU | ENG | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 811- <br> 021 | Machine Serial Update Date | Latest | ENG* | [ 0 to $1 / 0 / 1$ ] |
| 5- 811- $022$ | Machine Serial Update Date | Previous | ENG* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 811- \\ & 023 \end{aligned}$ | Machine Serial | Previous | ENG* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 811- <br> 024 | Machine Serial Update Date | Latest(BCU) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 811- <br> 025 | Machine Serial Update Date | Previous(BCU) | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 811- \\ & 026 \end{aligned}$ | Machine Serial | Previous(BCU) | ENG* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 812- <br> 001 | Service Tel. No. Setting | Service | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 812- \\ & 002 \end{aligned}$ | Service Tel. No. Setting | Facsimile | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 812- \\ & 003 \end{aligned}$ | Service Tel. No. Setting | Supply | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 812- <br> 004 | Service Tel. No. Setting | Operation | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 001 \end{aligned}$ | Remote Service | I/F Setting | CTL* | [ 0 to $2 / 2 / 1$ ] <br> 0 : Remote service off <br> 1: CSS remote service on <br> 2: NRS remote service on |
| $\begin{aligned} & \hline 5- \\ & 816- \\ & 002 \end{aligned}$ | Remote Service | CE Call | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Start of the service } \\ & 1: \text { End of the service } \end{aligned}$ |
| $\begin{aligned} & \hline 5- \\ & 816- \\ & 003 \end{aligned}$ | Remote Service | Function Flag | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Disabled } \\ & \text { 1: Enabled } \end{aligned}$ |
| 5- 816- | Remote Service | SSL Disable | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Yes. SSL not used. } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  | 1: No. SSL used. |
| 5-816008 | Remote Service | RCG Connect Timeout | CTL* | [ 1 to $90 / 30 / 1 \mathrm{sec}$ ] |
| 5-816009 | Remote Service | RCG Write Timeout | CTL* | [ 0 to $100 / 60 / 1 \mathrm{sec}$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 010 \end{aligned}$ | Remote Service | RCG Read Timeout | CTL* | [ 0 to $100 / 60 / 1 \mathrm{sec}$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 011 \end{aligned}$ | Remote Service | Port 80 Enable | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0: No. Access denied <br> 1: Yes. Access granted. |
| $\begin{aligned} & 5- \\ & 816- \\ & 013 \end{aligned}$ | Remote Service | RFU Timing | CTL* | $[0 \text { to } 1 / 1 / 1]$ <br> 0 : Any status of a target machine <br> 1: Sleep or panel off mode only |
| $\begin{aligned} & 5- \\ & 816- \\ & 014 \end{aligned}$ | Remote Service | RCG Error Cause | CTL | $\begin{aligned} & \hline \text { [ } 0 \text { to } 2 / 0 / 1 \text { ] } \\ & 0: \text { Initial state, normal condition } \\ & \text { 1: Error } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 816- \\ & 021 \end{aligned}$ | Remote Service | RCG-C Registed | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Installation not completed <br> 1: Installation completed |
| $\begin{aligned} & 5- \\ & 816- \\ & 023 \end{aligned}$ | Remote Service | Connect Type(N/M/3G) | CTL* | $[0 \text { to } 2 / 0 / 1]$ <br> 0 : internet connection <br> 1: Dial-up connection |
| $\begin{aligned} & 5- \\ & 816- \\ & 061 \end{aligned}$ | Remote Service | Cert Expire Timing | CTL* | $\begin{aligned} & {[0 \text { to } 0 / 0 / 1]} \\ & 0: \text { Not use } \\ & \text { 1: Use } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 816- \\ & 062 \end{aligned}$ | Remote Service | Use Proxy | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not use } \\ & \text { 1: Use } \end{aligned}$ |
| 5- <br> 816- <br> 063 | Remote Service | Proxy Host | CTL* | [ 0 to $0 / 0 / 0$ ] |


| SP <br> No. | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-816064 | Remote Service | Proxy PortNumber | CTL* | [ 0 to 0xffff / 0 / 1] |
| 5- <br> 816- <br> 065 | Remote Service | Proxy User Name | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 816- <br> 066 | Remote Service | Proxy Password | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 816- <br> 067 | Remote Service | CERT:Up State | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5- 816- $068$ | Remote Service | CERT:Error | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 069 \end{aligned}$ | Remote Service | CERT:Up ID | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 816- $083$ | Remote Service | Firm Up Status | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : Waiting for accepting firm update <br> 1: Waiting for firm update start schedule <br> 2: Waiting for user confirmation <br> 3: In preparation for the machine firm update <br> 4: processing the machine firm update <br> 5: processing the closing operation of the machine firm update |
| 5- 816- $085$ | Remote Service | Firm Up User Check | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- 816- | Remote Service | Firmware Size | CTL* | [ 0 to 0xffffffff / 0 / 1] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 086 |  |  |  |  |
| 5- <br> 816- <br> 087 | Remote Service | CERT:Macro Ver. | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 088 \end{aligned}$ | Remote Service | CERT:PAC Ver. | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 089 \end{aligned}$ | Remote Service | CERT:ID2Code | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 090 \end{aligned}$ | Remote Service | CERT:Subject | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 091 \end{aligned}$ | Remote Service | CERT:SerialNo. | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-816092 | Remote Service | CERT:Issuer | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 816- $093$ | Remote Service | CERT:Valid Start | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 094 \end{aligned}$ | 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 <br> Method | CTL* | [ 0 to $3 / 0 / 1$ ] |
| 5-816104 | Remote Service | Client Communication Limit | CTL* | [ 1 to $7 / 7 / 1$ ] |
| 5- | Remote Service | Network Information | CTL* | [ 5 to $255 / 5 / 1 \mathrm{sec}$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 816- \\ & 115 \end{aligned}$ |  | Waiting timer |  |  |
| $\begin{aligned} & 5- \\ & 816- \\ & 150 \end{aligned}$ | Remote Service | Selection Country | CTL* | [ 0 to $10 / * / 1$ ] <br> *NA: 1 <br> *EU: 3 <br> *AP/CHN/TWN/KOR: 0 <br> 0: Japan <br> 1: USA <br> 2: Canada <br> 3: UK <br> 4: Germany <br> 5: France <br> 6: Italy <br> 7: Netherlands <br> 8: Belgium <br> 9: Luxembourg <br> 10: Spain |
| $\begin{aligned} & 5- \\ & 816- \\ & 151 \end{aligned}$ | Remote Service | Line Type Automatic Judgement | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 152 \end{aligned}$ | Remote Service | Line Type Judgement Result | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 816- <br> 153 | Remote Service | Selection Dial / Push | CTL* | $[0 \text { to } 2 / * / 0]$ <br> *NA/EU: 1 <br> *AP/CHN/TWN/KOR: 2 <br> 0: Tone Dialing Phone <br> 1: Pulse Dialing Phone |
| 5- 816- $154$ | Remote Service | Outside Line Outgoing Number | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 816- <br> 156 | Remote Service | Dial Up User Name | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 816- | Remote Service | Dial Up Password | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| 157 |  |  |  |  |
| 5- <br> 816- <br> 161 | Remote Service | Local Phone Number | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 816- <br> 162 | Remote Service | Connection Timing <br> Adjustment Incoming | CTL* | [ 0 to $24 / 1 / 1$ ] |
| 5- <br> 816- <br> 163 | Remote Service | Access Point | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 816- $164$ | Remote Service | Line Connecting | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Sharing Fax <br> 1: No Sharing Fax |
| 5- 816- $173$ | Remote Service | Modem Serial No. | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 816- <br> 174 | Remote Service | Retransmission Limit | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 816- <br> 187 | Remote Service | FAX TX Priority | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 816- \\ & 190 \end{aligned}$ | Remote Service | 3G DongleID | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 816- $199$ | Remote Service | ppp Connect Timer | CTL | [ 15 to $30 / 15 / 1 \mathrm{~min}$ ] |
| 5- <br> 816- <br> 200 | Remote Service | Manual Polling | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 201 \end{aligned}$ | Remote Service | Regist Status | CTL | [ 0 to $255 / 0 / 1$ ] |
| 5- | Remote Service | Letter Number | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| $\begin{aligned} & 816- \\ & 202 \end{aligned}$ |  |  |  |  |
| $\begin{aligned} & 5- \\ & 816- \\ & 203 \end{aligned}$ | Remote Service | Confirm Execute | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5-816204 | Remote Service | Confirm Result | CTL | [ 0 to $255 / 0 / 1$ ] <br> 0 : Success Inquiry <br> 1: Request number error <br> 3: Communication error <br> (Enabled Proxy) <br> 4: Communication error <br> (Disabled Proxy) <br> 5: Proxy error (failed auth.) <br> 6: Communication error <br> 8: Other error (See SP5-816- <br> 208 for detail) <br> 9: Processing inquiry <br> 20: Failed Dial-up auth. <br> 21: Failed answer tone detection <br> 22: Failed career detection <br> 23: Invalid modem value <br> 24: Shortage of electrical current <br> 25: Cable disconnected <br> 26: Line occupied |
| $\begin{aligned} & 5- \\ & 816- \\ & 205 \end{aligned}$ | Remote Service | Confirm Place | CTL | [ 0 to $1 / 0 / 1$ ] <br> 0: Success registration <br> 1: Request number error <br> 3: Communication error <br> (Enabled Proxy) <br> 4: Communication error <br> (Disabled Proxy) <br> 5: Proxy error (failed auth.) <br> 6: Communication error <br> 8: Other error (See SP5-816- |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 208 for detail) <br> 9: Processing registration <br> 20: Failed Dial-up auth. <br> 21: Failed answer tone detection <br> 22: Failed career detection <br> 23: Invalid modem value <br> 24: Shortage of electrical current <br> 25: Cable disconnected <br> 26: Line occupied |
| 5-816206 | Remote Service | Register Execute | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 816- <br> 207 | Remote Service | Register Result | CTL | [ 0 to $255 / 0 / 1$ ] |
| 5-816208 | Remote Service | Error Code | CTL | $\begin{aligned} & {[-2147483647 \text { to } 2147483647 /} \\ & 0 / 0] \end{aligned}$ |
| 5- 816- $209$ | Remote Service | Instl Clear | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5- $\begin{aligned} & 816- \\ & 240 \end{aligned}$ | Remote Service | CommErrorTime | CTL | [ 0 to $0 / 0 / 1$ ] |
| 5-816241 | Remote Service | CommErrorCode 1 | CTL* | [ 0 to 0xffffffff / 0x00000000 / 1] |
| 5- $\begin{aligned} & 816- \\ & 242 \end{aligned}$ | Remote Service | CommErrorCode 2 | CTL* | [ 0 to $0 x f f f f f f f f$ / $0 x 00000000$ / 1] |
| 5-816243 | Remote Service | CommErrorCode 3 | CTL* | [ 0 to 0xffffffff / 0x00000000 / 1] |
| 5- | Remote Service | CommErrorState 1 | CTL* | [ 0 to 0xffff / 0x0000 / 1] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 816- \\ & 244 \end{aligned}$ |  |  |  |  |
| 5-816245 | Remote Service | CommErrorState 2 | CTL* | [ 0 to 0xffff / 0x0000 / 1] |
| 5- <br> 816- <br> 246 | Remote Service | CommErrorState 3 | CTL* | [ 0 to 0xffff / 0x0000 / 1] |
| $\begin{aligned} & 5- \\ & 816- \\ & 247 \end{aligned}$ | Remote Service | SSL Error Count | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5-816248 | Remote Service | Other Err Count | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 816- \\ & 250 \end{aligned}$ | Remote Service | CommLog Print | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 821- <br> 002 | Remote Service RCG Setting | RCG IPv4 Address | CTL* | [ 0 to 0xffffffff / 0 / 1] |
| 5- <br> 821- <br> 003 | Remote Service RCG Setting | RCG Port | CTL* | [ 0 to $65535 / 443 / 1]$ |
| $\begin{aligned} & 5- \\ & 821- \\ & 004 \end{aligned}$ | Remote Service RCG Setting | RCG IPv4 URL Path | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- $\begin{aligned} & 821- \\ & 005 \end{aligned}$ | Remote Service RCG Setting | RCG IPv6 Address | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 821- <br> 006 | Remote Service RCG Setting | RCG IPv6 URL Path | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 821- \\ & 007 \end{aligned}$ | Remote Service RCG Setting | RCG Host Name | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-821008 | 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- 825- $001$ | NV-RAM Data Download |  | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-828039 | Network Setting | User Class | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- $\begin{aligned} & 828- \\ & 040 \end{aligned}$ | Network Setting | Class Id | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 828- \\ & 050 \end{aligned}$ | Network Setting | 1284 Compatiblity (Centro) | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disabled } \\ & \text { 1: Enabled } \end{aligned}$ |
| 5- $\begin{aligned} & 828- \\ & 052 \end{aligned}$ | Network Setting | ECP (Centro) | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disabled } \\ & 1: \text { Enabled } \end{aligned}$ |
| 5- 828- $065$ | Network Setting | Job Spooling | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Disabled } \\ & \text { 1: Enabled } \end{aligned}$ |
| 5-828066 | Network Setting | Job Spooling Clear: Start Time | CTL* | [ 0 to $1 / 1 / 1$ ] <br> 0: ON (Data is cleared) <br> 1: OFF (Automatically printed) |
| 5- 828- $069$ | Network Setting | Job Spooling (Protocol) | CTL* | ```[ \(0 x 00\) to \(0 x f f / 0 x 7 f / 0]\) 0 : Validates 1: Invalidates bit0: LPR bit1: FTP bit2: IPP bit3: SMB bit4: BMLinkS bit5: DIPRINT``` |


| SP <br> No. | Large Category | Small Category | $\begin{aligned} & \text { ENG } \\ & \text { or } \\ & \text { CTL } \end{aligned}$ | [Min to Max/Init./Step] |
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|  |  |  |  | bit6: sftp <br> bit7: (Reserved) |
| 5-828087 | Network Setting | Protocol usage | CTL* | [ 0x00000000 to 0xffffffff / 0x00000000 / 1] <br> 0 : Off (Not used the network with the protocol.) <br> 1: On (Used the network with the protocol once or more.) bit0: IPsec, bit1: IPv6, bit2: <br> IEEE 802. 1X, bit3:Wireless LAN, <br> bit4: Security mode level setting, bit5:Appletalk, bit6: DHCP, <br> bit7: DHCPv6, bit8: telnet, bit9: SSL, bit10: HTTPS, <br> bit11: BMLinkS printing, bit12: diprint printing, bit13: LPR printing, bit14: ftp printing, bit15: rsh printing, bit16: SMB printing, bit17: WSD-Printer, bit18: WSD-Scanner, bit19: Scan to SMB, bit20: Scan to NCP, bit21: Reserve, bit22: Bluetooth, bit23: IEEE 1284, bit24: USB printing, bit25: Dynamic DNS, bit26: Netware printing, bit27: LLTD, bit28: IPP printing, bit29: IPP printing (SSL), bit30: ssh, bit31: sftp |
| 5- 828- $090$ | Network Setting | TELNET(0:OFF 1:ON) | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |
| 5- | Network Setting | Web(0:OFF 1:ON) | CTL* | [ 0 to $1 / 1 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| $\begin{aligned} & 828- \\ & 091 \end{aligned}$ |  |  |  | 0: Disable <br> 1: Enable |
| 5-828145 | Network Setting | Active IPv6 Link Local Address | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 828- $147$ | Network Setting | Active IPv6 Stateless <br> Address 1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 828- <br> 149 | Network Setting | Active IPv6 Stateless <br> Address 2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 828- \\ & 151 \end{aligned}$ | Network Setting | Active IPv6 Stateless <br> Address 3 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 828- $153$ | Network Setting | Active IPv6 Stateless <br> Address 4 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 828- \\ & 155 \end{aligned}$ | Network Setting | Active IPv6 Stateless <br> Address 5 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 828- $156$ | Network Setting | IPv6 Manual Address | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-828158 | Network Setting | IPv6 Gateway Address | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 828- <br> 161 | Network Setting | IPv6 Stateless Auto Setting | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 828- \\ & 219 \end{aligned}$ | Network Setting | IPsec Aggressive Mode Setting | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 828- \\ & 236 \end{aligned}$ | Network Setting | Web Item visible | CTL* | $\begin{aligned} & \text { [ 0x0000 to 0xffff / 0xffff / 1] } \\ & \text { bit0: Net RICOH } \\ & \text { bit1: Consumable Supplier } \\ & \text { bit2-15: Reserved (all) } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| 5- 828- $237$ | Network Setting | Web shopping link visible | CTL* | $\text { [ } 0 \text { to } 1 / 1 / 1]$ <br> 0 : Not display <br> 1:Display |
| $\begin{aligned} & 5- \\ & 828- \\ & 238 \end{aligned}$ | Network Setting | Web Supplies Link visible | CTL* | $[0 \text { to } 1 / 1 / 1]$ <br> 0 : Not display <br> 1: Display |
| 5- <br> 828- <br> 239 | Network Setting | Web Link1 Name | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 828- \\ & 240 \end{aligned}$ | Network Setting | Web Link1 URL | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-828241 | Network Setting | Web Link1 visible | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Not display } \\ & \text { 1: Display } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 828- \\ & 242 \end{aligned}$ | Network Setting | Web Link2 Name | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 828- \\ & 243 \end{aligned}$ | Network Setting | Web Link2 URL | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-828244 | Network Setting | Web Link2 visible | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 828- <br> 249 | Network Setting | DHCPv6 DUID | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 832- <br> 001 | HDD | HDD Formatting (ALL) | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 832- <br> 002 | HDD | HDD Formatting (IMH) | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 832- \\ & 003 \end{aligned}$ | HDD | HDD Formatting <br> (Thumbnail/OCR) | CTL | [ 0 to $0 / 0 / 0$ ] |


| SP | Large Category | Small Category <br> No. |  | ENG <br> or |
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| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| $\begin{aligned} & 5- \\ & 836- \\ & 012 \end{aligned}$ | Capture Setting | Capture Setting: Doc. Svr. | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 836- \\ & 013 \end{aligned}$ | Capture Setting | Capture Setting: Fax RX <br> Printer | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 836- \\ & 014 \end{aligned}$ | Capture Setting | Capture Setting: Fax TX | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 836- \\ & 015 \end{aligned}$ | Capture Setting | Capture Setting: Printer | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- $\begin{aligned} & 836- \\ & 016 \end{aligned}$ | Capture Setting | Capture Setting: Scanner | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5-836- <br> 017 | Capture Setting | Capture Setting: SDK | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 836- \\ & 061 \end{aligned}$ | Capture Setting | Captured File Resend (0:Off 1:On) | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- 836- <br> 071 | Capture Setting | Reduction for Copy Color | CTL* | $\begin{aligned} & {[0 \text { to } 3 / 2 / 1]} \\ & 0: 1 \text { to-1 } \\ & 1: 1 / 2 \\ & 2: 1 / 3 \\ & 3: 1 / 4 \end{aligned}$ |
| 5- <br> 836- <br> 072 | Capture Setting | Reduction for Copy B\&W Text | CTL* | $\begin{aligned} & {[0 \text { to } 6 / 0 / 1]} \\ & 0: 1 \text { to- } 1 \\ & 1: 1 / 2 \\ & 2: 1 / 3 \\ & 3: 1 / 4 \\ & 6: 2 / 3 \end{aligned}$ |
| 5- <br> 836- <br> 073 | Capture Setting | Reduction for Copy B\&W Other | CTL* | $\begin{aligned} & {[0 \text { to } 6 / 0 / 1]} \\ & 0: 1 \text { to- } 1 \\ & 1: 1 / 2 \\ & 2: 1 / 3 \end{aligned}$ |


| $\begin{gathered} \mathrm{SP} \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & 3: 1 / 4 \\ & 6: 2 / 3 \end{aligned}$ |
| 5- <br> 836- <br> 074 | Capture Setting | Reduction for Printer Color | CTL* | $\begin{aligned} & {[0 \text { to } 3 / 2 / 1]} \\ & 0: 1 \text { to- } 1 \\ & 1: 1 / 2 \\ & 2: 1 / 3 \\ & 3: 1 / 4 \end{aligned}$ |
| 5-836075 | Capture Setting | Reduction for Printer B\&W | CTL* | $\begin{aligned} & {[0 \text { to } 6 / 0 / 1]} \\ & 0: 1 \text { to- } 1 \\ & 1: 1 / 2 \\ & 2: 1 / 3 \\ & 3: 1 / 4 \\ & 6: 2 / 3 \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 836- \\ & 081 \end{aligned}$ | Capture Setting | Format for Copy Color | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 0 / 0 / 1] \\ & 0: \text { JFIF/JPEG } \\ & \text { 1: TIFF/MMR } \\ & \text { 2: TIFF/MH } \\ & \text { 3: TIFF/MR } \end{aligned}$ |
| 5- 836- $082$ | Capture Setting | Format for Copy B\&W Text | CTL* | $\begin{aligned} & {[0 \text { to } 3 / 1 / 1]} \\ & 0: \text { JFIF/JPEG } \\ & \text { 1: TIFF/MMR } \\ & \text { 2: TIFF/MH } \\ & \text { 3: TIFF/MR } \end{aligned}$ |
| $\begin{aligned} & 5- \\ & 836- \\ & 083 \end{aligned}$ | Capture Setting | Format for Copy B\&W Other | CTL* | [ 0 to $3 / 1 / 1$ ] |
| 5-836084 | Capture Setting | Format for Printer Color | CTL* | [ 0 to $0 / 0 / 1$ ] |
| 5- 836- $085$ | Capture Setting | Format for Printer B\&W | CTL* | $\begin{aligned} & {[0 \text { to } 3 / 1 / 1]} \\ & \text { 0: JFIF/JPEG } \\ & \text { 1: TIFF/MMR } \\ & \text { 2: TIFF/MH } \\ & \text { 3: TIFF/MR } \end{aligned}$ |
| 5- 836- | Capture Setting | Default for JPEG | CTL* | [ 5 to $95 / 50 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
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| 091 |  |  |  |  |
| 5- <br> 836- <br> 101 | Capture Setting | Primary srv IP address | CTL* | [ 0 to 0xffffffff / 0x00 / 0] |
| 5- <br> 836- <br> 102 | Capture Setting | Primary srv scheme | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 836- $103$ | Capture Setting | Primary srv port number | CTL* | [ 1 to $65535 / 80 / 1]$ |
| 5- <br> 836- <br> 104 | Capture Setting | Primary srv URL path | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 836- $111$ | Capture Setting | Secondary srv IP address | CTL* | [ 0 to 0xffffffff / 0x00 / 0] |
| 5- 836- $112$ | Capture Setting | Secondary srv scheme | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 836- $113$ | Capture Setting | Secondary srv port number | CTL* | [ 1 to $65535 / 80 / 1]$ |
| 5- 836- $114$ | Capture Setting | Secondary srv URL path | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 836- $120$ | Capture Setting | Default Reso Rate Switch | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- 836- $122$ | Capture Setting | Reso: Copy(Mono) | CTL* | $\begin{aligned} & {[0 \text { to } 255 / 3 / 1]} \\ & 0: 600 \mathrm{dpi} / \\ & 1: 400 \mathrm{dpi} / \\ & 2: 300 \mathrm{dpi} / \\ & 3: 200 \mathrm{dpi} / \\ & 4: 150 \mathrm{dpi} / \\ & 5: 100 \mathrm{dpi} / \\ & \text { 6: 75dpi } \end{aligned}$ |


| $\begin{gathered} \mathrm{SP} \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-836124 | Capture Setting | Reso: Print(Mono) | CTL* | $\begin{aligned} & {[0 \text { to } 255 / 3 / 1]} \\ & 0: 600 \mathrm{DPi} \\ & 1: 400 \mathrm{DPi} \\ & 2: 300 \mathrm{DPi} \\ & 3: 200 \mathrm{DPi} \\ & 4: 150 \mathrm{DPi} \\ & 5: 100 \mathrm{DPi} \\ & 6: 75 \mathrm{DPi} \end{aligned}$ |
| 5- 836- $125$ | Capture Setting | Reso: Fax(Color) | CTL* | $\begin{aligned} & {[0 \text { to } 255 / 4 / 1]} \\ & 0: 600 \mathrm{DPi} \\ & 1: 400 \mathrm{DPi} \\ & 2: 300 \mathrm{DPi} \\ & 3: 200 \mathrm{DPi} \\ & 4: 150 \mathrm{DPi} \\ & 5: 100 \mathrm{DPi} \\ & 6: 75 \mathrm{DPi} \end{aligned}$ |
| 5- 836- $126$ | Capture Setting | Reso: Fax(Mono) | CTL* | $\begin{aligned} & {[0 \text { to } 255 / 3 / 1]} \\ & 0: 600 \mathrm{DPi} \\ & 1: 400 \mathrm{DPi} \\ & 2: 300 \mathrm{DPi} \\ & 3: 200 \mathrm{DPi} \\ & 4: 150 \mathrm{DPi} \\ & 5: 100 \mathrm{DPi} \\ & 6: 75 \mathrm{DPi} \end{aligned}$ |
| 5- 836- $127$ | Capture Setting | Reso: Scan(Color) | CTL* | $\begin{aligned} & \hline[0 \text { to } 255 / 4 / 1] \\ & 0: 600 \mathrm{DPi} \\ & 1: 400 \mathrm{DPi} \\ & 2: 300 \mathrm{DPi} \\ & 3: 200 \mathrm{DPi} \\ & 4: 150 \mathrm{DPi} \\ & 5: 100 \mathrm{DPi} \\ & 6: 75 \mathrm{DPi} \end{aligned}$ |
| 5- 836- $128$ | Capture Setting | Reso: Scan(Mono) | CTL* | $\begin{aligned} & {[0 \text { to } 255 / 3 / 1]} \\ & 0: 600 \mathrm{DPi} \\ & 1: 400 \mathrm{DPi} \\ & 2: 300 \mathrm{DPi} \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & 3: 200 \mathrm{DPi} \\ & 4: 150 \mathrm{DPi} \\ & 5: 100 \mathrm{DPi} \\ & 6: 75 \mathrm{DPi} \end{aligned}$ |
| 5- <br> 836- <br> 129 | Capture Setting | Reso: SDK(Color) | CTL* | [ 0 to $255 / 4 / 1$ ] |
| 5- 836- $130$ | Capture Setting | Reso: SDK(Mono) | CTL* | [ 0 to $255 / 3 / 1$ ] |
| 5- 836- $141$ | Capture Setting | All Addr Info Switch | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- 836- $142$ | Capture Setting | Stand-by Doc Max Number | CTL* | [ 10 to $10000 / 2000 / 1]$ |
| 5- 836- $143$ | Capture Setting | ClearLightPDF Switch | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 840- <br> 006 | IEEE 802.11 | Channel MAX | CTL* | [ 1 to 14 / 14 / 1] <br> Europe/Asia: 1 to 13 <br> NA/ Asia: 1 to 11 |
| 5- <br> 840- <br> 007 | IEEE 802.11 | Channel MIN | CTL* | $\text { [ } 1 \text { to } 14 / 1 / 1]$ <br> Europe: 1 to 13 <br> NA/ Asia: 1 to 11 |
| 5- <br> 840- <br> 011 | IEEE 802.11 | WEP Key Select | CTL* | $\begin{aligned} & \text { [ 0x00 to } 0 \times 11 / 0 \times 00 / 0] \\ & 00: \text { Key \#1 } \\ & 01: \text { Key \#2 (Reserved) } \\ & \text { 10: Key \#3 (Reserved) } \\ & \text { 11: Key \#4 (Reserved) } \end{aligned}$ |
| 5- <br> 840- <br> 045 | IEEE 802.11 | WPA Debug Lvl | CTL* | $\begin{aligned} & \text { [ } 1 \text { to } 3 / 3 / 1 \text { ] } \\ & \text { 1: Info } \\ & \text { 2: wArning } \\ & \text { 3: error } \end{aligned}$ |
| 5-840- | IEEE 802.11 | 11w | CTL* | [ 0 to $2 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 046 |  |  |  |  |
| 5- <br> 840- <br> 047 | IEEE 802.11 | PSK Set Type | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 841- <br> 001 | Supply Name Setting | Toner Name Setting: Black | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 841- <br> 007 | Supply Name Setting | OrgStamp | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 841- $011$ | Supply Name Setting | StapleStd 1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 841- <br> 012 | Supply Name Setting | StapleStd2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-841013 | Supply Name Setting | StapleStd3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 841- <br> 014 | Supply Name Setting | StapleStd4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 841- <br> 021 | Supply Name Setting | StapleBind1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 841- <br> 022 | Supply Name Setting | StapleBind2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 841- <br> 023 | Supply Name Setting | StapleBind3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 842- <br> 001 | GWWS Analysis | Setting 1 | CTL* | [ $0 x 00$ to $0 x F F / 0 / 1]$ <br> 0bit[LSB]: system, other group <br> 1bit: capture related group <br> 2bit: authentication related group |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 3bit: address book related group <br> 4bit: device management related group <br> 5bit: output related(print, FAX, and delivery) group <br> 6bit: repository, F0, etc. <br> document related group <br> 7bit: debug log level suppression |
| 5- <br> 842- <br> 002 | GWWS Analysis | Setting 2 | CTL* | [ 0 x 00 to $0 \mathrm{xFF} / 0 / 1$ ] <br> $0 \sim 6$ bit: unused <br> 7bit: time stamp setting for <br> 5682mmesg log. <br> (1: min. $/ \mathrm{sec} / \mathrm{msec}, 0$ : <br> day/hour/min./sec) |
| 5-844001 | USB | Transfer Rate | CTL* | [ 1 to 4 / 4 / 0] <br> 0x01: Full speed <br> 0x04: Auto Change |
| 5- <br> 844- <br> 002 | USB | Vendor ID | CTL* | [ 0 x 0000 to $0 \mathrm{xffff} / 0 \mathrm{x} 05 \mathrm{ca} / 0$ ] |
| 5-844003 | USB | Product ID | CTL* | [ 0x0000 to 0xffff / 0x0403 / 0] |
| 5-844004 | USB | Device Release Number | CTL* | [ 0 to 9999 / $100 / 1$ ] |
| 5- <br> 844- <br> 005 | USB | Fixed USB Port | CTL* | [ 0 to $2 / 0 / 1$ ] |
| 5-844006 | USB | PnP Model Name | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 844- <br> 007 | USB | PnP Serial Number | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-844008 | USB | Mac Supply Level | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 844- <br> 009 | USB | USB Toggle Clear Mode | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 844- <br> 100 | USB | Notify Unsupport | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5- <br> 845- <br> 001 | Delivery Server Setting | FTP Port No. | CTL* | [ 1 to $65535 / 3670 / 1]$ |
| 5- <br> 845- <br> 002 | Delivery Server Setting | IP Address (Primary) | CTL* | [ 0 to 0xffffffff / 0x00 / ] |
| 5- <br> 845- <br> 006 | Delivery Server Setting | Delivery Error Display Time | CTL* | [ 0 to $999 / 300 / 1 \mathrm{sec}$ ] |
| 5- 845- $008$ | Delivery Server Setting | IP Address (Secondary) | CTL* | [ 0 to 0xffffffff / 0x00 / ] |
| 5- <br> 845- <br> 009 | Delivery Server Setting | Delivery Server Model | CTL* | [ 0 to $4 / 0 / 1$ ] <br> 0: Unknown <br> 1: SG1 Provided <br> 2: SG1 Package <br> 3: SG2 Provided <br> 4: SG2 Package |
| $\begin{aligned} & 5- \\ & 845- \\ & 010 \end{aligned}$ | Delivery Server Setting | Delivery Svr. Capability | CTL* | [ 0 to $255 / 0 / 1$ ] <br> Bit7=1: Comment information exits <br> Bit6=1: Direct specification of mail address possible <br> Bit5=1: Mail RX confirmation setting possible <br> Bit4=1: Address book automatic update function |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | exists <br> Bit3=1: Fax RX delivery function exists Bit2=1: Sender password function exists Bit1=1: Function to link MK-1 user and Sender exists Bit0 $=1$ : Sender specification required (if set to 1 , Bit6 is set to "0") |
| 5- <br> 845- <br> 011 | Delivery Server Setting | Delivery Svr. Capability (Ext) | CTL* | $[0 \text { to } 255 / 0 / 1]$ <br> Bit7=1: Address book usage limitation (Limitation for each authorized user) <br> Bit6=1: RDH authorization link <br> Bit5 to 0: Not used |
| 5-845013 | Delivery Server Setting | Server Scheme(Primary) | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 845- <br> 014 | Delivery Server Setting | Server Port <br> Number(Primary) | CTL* | [ 1 to $65535 / 80 / 1]$ |
| 5- <br> 845- <br> 015 | Delivery Server Setting | Server URL Path(Primary) | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 845- <br> 016 | Delivery Server Setting | Server Scheme(Secondary) | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 845- $017$ | Delivery Server Setting | Server Port <br> Number(Secondary) | CTL* | [ 1 to $65535 / 80 / 1]$ |
| 5- <br> 845- <br> 018 | Delivery Server Setting | Server URL Path(Secondary) | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- 845- | Delivery Server Setting | Rapid Sending Control | CTL* | [ 0 to $1 / 1 / 1$ ] <br> 0 : Control disabled |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 022 |  |  |  | 1: Control enabled |
| 5-846001 | UCS Setting | Machine ID (for Delivery Server) | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 846- <br> 002 | UCS Setting | Machine ID Clear (for Delivery Server) | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 846- <br> 003 | UCS Setting | Maximum Entries | CTL* | [ 2000 to 20000 / 2000 / 1] |
| 5- <br> 846- <br> 006 | UCS Setting | Delivery Server Retry Timer | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 846- <br> 007 | UCS Setting | Delivery Server Retry Times | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 846- <br> 008 | UCS Setting | Delivery Server Maximum <br> Entries | CTL* | [ 2000 to $20000 / 2000$ / 1] |
| 5-846010 | UCS Setting | LDAP Search Timeout | CTL* | [ 1 to $255 / 60 / 1$ ] |
| 5-846020 | UCS Setting | WSD Maximum Entries | CTL* | [ 50 to $250 / 250 / 1]$ |
| 5- <br> 846- <br> 021 | UCS Setting | Folder Auth Change | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Login User, 1: Destination |
| $\begin{aligned} & 5- \\ & 846- \\ & 040 \end{aligned}$ | UCS Setting | Addr Book Migration(USB$>$ HDD) | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 846- <br> 041 | UCS Setting | Fill Addr Acl Info | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- | UCS Setting | Addr Book Media | CTL* | [ 0 to $30 / 0 / 1$ ] |


| SP <br> No. | Large Category <br> $846-$ <br> 043 |  |  | ENG Category <br> or <br> CTL Max/Init./Step] |
| :--- | :--- | :--- | :--- | :--- |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5- 846- $062$ | UCS Setting | Complexity option 1 | CTL* | [ 0 to $32 / 0 / 1$ ] |
| 5-846063 | UCS Setting | Complexity option 2 | CTL* | [ 0 to $32 / 0 / 1$ ] |
| 5-846064 | UCS Setting | Complexity option 3 | CTL* | [ 0 to $32 / 0 / 1$ ] |
| 5- <br> 846- <br> 065 | UCS Setting | Complexity option 4 | CTL* | [ 0 to $32 / 0 / 1$ ] |
| 5-846091 | UCS Setting | FTP Auth Port Setting | CTL* | [ 0 to $65535 / 3671 / 1$ ] |
| 5- <br> 846- <br> 094 | UCS Setting | Encryption Stat | CTL* | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 847- <br> 002 | Rep Resolution Reduction | Rate for Copy B\&W Text | CTL* | $\begin{aligned} & {[0 \text { to } 6 / 0 / 1]} \\ & 0: 1 x \\ & 1: 1 / 2 x \\ & 2: 1 / 3 x \\ & 3: 1 / 4 x \\ & 4: 1 / 6 x \\ & 5: 1 / 8 x \\ & 6: 2 / 3 x \end{aligned}$ |
| 5- <br> 847- <br> 003 | Rep Resolution Reduction | Rate for Copy B\&W Other | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 6 / 0 / 1] \\ & 0: 1 \mathrm{x} \\ & 1: 1 / 2 \mathrm{x} \\ & 2: 1 / 3 \mathrm{x} \\ & 3: 1 / 4 \mathrm{x} \\ & 4: 1 / 6 \mathrm{x} \\ & 5: 1 / 8 \mathrm{x} \\ & 6: 2 / 3 \mathrm{x} \end{aligned}$ |
| 5- 847- | Rep Resolution Reduction | Rate for Printer B\&W | CTL* | $\begin{aligned} & {[0 \text { to } 6 / 0 / 1]} \\ & 0: 1 x \end{aligned}$ |


| $\mathrm{SP}$ <br> No. | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  | $\begin{aligned} & \hline 1: 1 / 2 \mathrm{x} \\ & 2: 1 / 3 \mathrm{x} \\ & 3: 1 / 4 \mathrm{x} \\ & 4: 1 / 6 \mathrm{x} \\ & 5: 1 / 8 \mathrm{x} \\ & 6: 2 / 3 \mathrm{x} \end{aligned}$ |
| 5- <br> 847- <br> 007 | Rep Resolution Reduction | Rate for Printer B\&W 1200dpi | CTL* | $\begin{aligned} & {[0 \text { to } 6 / 1 / 1]} \\ & 0: 1 \mathrm{x} \\ & 1: 1 / 2 \mathrm{x} \\ & 2: 1 / 3 \mathrm{x} \\ & 3: 1 / 4 \mathrm{x} \\ & 4: 1 / 6 \mathrm{x} \\ & 5: 1 / 8 \mathrm{x} \\ & 6: 2 / 3 \mathrm{x} \end{aligned}$ |
| 5-847021 | Rep Resolution Reduction | Network Quality Default for JPEG | CTL* | [ 5 to $95 / 50 / 1]$ |
| 5-848002 | Web Service | Access Ctrl: <br> Repository(onlyLower4bits) | CTL* | [ 0 x 00 to $0 \mathrm{xFF} / 0 \mathrm{x} 02 / 0$ ] <br> 0000: No access control <br> 0001: Denies access to <br> DeskTop Binder. <br> 0010: No writing control |
| 5-848003 | Web Service | Access Ctrl: Doc.Svr.Print (Lower 4bits) | CTL* | [ $0 \times 00$ to $0 \times \mathrm{xF} / 0 \mathrm{x} 00 / 0$ ] 0000: No access control 0001: Denies access to DeskTop Binder. |
| 5-848004 | Web Service | Access Ctrl: udirectory <br> (Lower 4bits) | CTL* | [ $0 x 00$ to $0 x F F / 0 x 00 / 0]$ 0000: No access control 0001: Denies access to DeskTop Binder. |
| 5-848007 | Web Service | Access Ctrl: Comm. Log <br> Fax(Lower 4bits) | CTL* | [ 0x00 to 0xFF / 0x00 / 0] 0000: No access control 0001: Denies access to DeskTop Binder. |
| 5-848- | Web Service | Access Ctrl: Job Ctrl (Lower 4bits) | CTL* | [ $0 x 00$ to $0 x F F / 0 x 00 / 0$ ] <br> 0000: No access control |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  | 0001: Denies access to DeskTop Binder. |
| $\begin{aligned} & 5- \\ & 848- \\ & 011 \end{aligned}$ | Web Service | Access Ctrl: <br> Devicemanagement(Lower 4bits) | CTL* | [ $0 \times 00$ to $0 x F F / 0 x 00 / 0]$ <br> 0000: No access control <br> 0001: Denies access to <br> DeskTop Binder. |
| 5-848021 | Web Service | Access Ctrl: Delivery (Lower 4bits) | CTL* | [ 0x00 to 0xFF / 0x00 / 0] <br> 0000: No access control <br> 0001: Denies access to <br> DeskTop Binder. |
| 5- 848- $022$ | Web Service | Access Ctrl: uadministration (Lower 4bits) | CTL* | [ 0x00 to 0xFF / 0x00 / 0] <br> 0000: No access control <br> 0001: Denies access to <br> DeskTop Binder. |
| 5-848024 | Web Service | Access Ctrl: Log Service (Lower 4bits) | CTL* | [ 0x00 to 0xFF / 0x00 / 0] <br> 0000: No access control <br> 0001: Denies access to <br> DeskTop Binder. |
| 5-848025 | Web Service | Access Ctrl: Rest <br> WebService (Lower 4bits) | CTL* | [ 0x00 to 0xFF / 0x00 / 0] 0000: No access control 0001: Denies access to DeskTop Binder. |
| 5-848099 | Web Service | Repository: Download Image Setting | CTL* | [ $0 \times 00$ to $0 \times \mathrm{FFF} / 0 \times 00 / 1$ ] |
| 5-848100 | Web Service | Repository: Download Image Max. Size | CTL* | [ 1 to 2048/2048 / 1] |
| 5-848150 | 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- | Installation Date | Display | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| 5-849002 | Installation Date | Switch to Print | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { OFF (No Print) } \\ & \text { 1: ON (Print) } \end{aligned}$ |
| 5- <br> 849- <br> 003 | Installation Date | Total Counter | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / 1] \\ & \text { 1: G3 } \\ & \text { 2: EXT } \\ & \text { 3: G3-1 } \\ & \text { 4: G3-1- EXT } \\ & \text { 5: G3-2 } \\ & \text { 6: G3-2- EXT } \\ & \text { 7: G3-3 } \\ & \text { 8: G3-3-EXT } \\ & \text { 9: G3-idle-EXT } \\ & \text { 10: idle-EXT } \\ & \text { 11: I-G3 } \\ & \text { 12: I-G3-EXT } \\ & \text { 13: G4 } \end{aligned}$ |
| 5-850003 | Address Book Function | Replacement of Circuit Classifications | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 851- $001$ | Bluetooth | Mode | CTL* | [ $0 \times 00$ to $0 \times 01 / 0 \times 00 / 1]$ |
| 5- 853- $001$ | Stamp Data Download |  | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-856002 | Remote ROM Update | Local Port | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |
| 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 $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 858- \\ & 003 \end{aligned}$ | Collect Machine Info | Make Log Trace Dir | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5-858101 | Collect Machine Info | Failure Occuring Date | CTL* | [ 0 to $20371212 / 0 / 1$ ] |
| 5-858- <br> 102 | Collect Machine Info | Tracing Days | CTL* | [ 1 to $180 / 2 / 1$ day] |
| 5- <br> 858- <br> 103 | Collect Machine Info | Acquire Fax Address(0:OFF 1:ON) | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5-858- <br> 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- <br> 124 | Collect Machine Info | Acquire Error Log | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5-858131 | Collect Machine Info | Acquire Fax Info | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5- <br> 858- <br> 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 $1 / 0 / 0$ ] |


| SP <br> No. | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-858143 | Collect Machine Info | Acquire Engine Debug Logs Only | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5- <br> 858- <br> 144 | Collect Machine Info | Acquire Opepanel Debug Logs Only | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5-858145 | Collect Machine Info | Acquire FCU Debug Logs Only | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5- <br> 858- <br> 146 | Collect Machine Info | Acquire Only Network <br> Packets | CTL* | [ 0 to $1 / 0 / 0$ ] |
| 5-860020 | SMTP/POP3/IMAP4 | Partial Mail Receive Timeout | CTL* | [ 1 to $168 / 72 / 1$ hour] |
| 5-860021 | SMTP/POP3/IMAP4 | MDN Response RFC2298 Compliance | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { No } \\ & \text { 1: Yes } \end{aligned}$ |
| 5- <br> 860- <br> 022 | SMTP/POP3/IMAP4 | SMTP Auth. From Field Replacement | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : No. "From" item not switched. <br> 1: Yes. "From item switched. |
| $\begin{aligned} & 5- \\ & 860- \\ & 025 \end{aligned}$ | SMTP/POP3/IMAP4 | SMTP Auth. Direct Setting | CTL* | [ 0 to $0 x f f$ / 0x0 / 1] <br> Bit 0: LOGIN <br> Bit 1: PLAIN <br> Bit 2: CRAM MD5 <br> Bit 3: DIGEST MD5 <br> Bit 4 to 7: Not used |
| 5-860026 | SMTP/POP3/IMAP4 | S/MIME:MIME Header Setting | CTL* | $\text { [ } 0 \text { to } 2 / 0 / 1]$ <br> 0: Microsoft Outlook Express <br> standard <br> 1: Internet Draft standard <br> 2: RFC standard |
| $\begin{aligned} & 5- \\ & 860- \\ & 028 \end{aligned}$ | SMTP/POP3/IMAP4 | S/MIME: Authentication Check | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { No (not check) } \\ & \text { 1: Yes (check) } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-860029 | SMTP/POP3/IMAP4 | SMTP Server 3G Line IP Address | CTL | [ 0 to 0xffffffff / 0x00 / ] |
| 5-866001 | E-Mail Report | Report Validity | CTL | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Enabled } \\ & \text { 1: Disabled } \end{aligned}$ |
| 5-866005 | E-Mail Report | Add Date Field | CTL* | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Enabled } \\ & \text { 1: Disabled } \end{aligned}$ |
| 5- <br> 866- <br> 109 | E-Mail Report | CounterE-Mail:3G Line Validity | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 866- \\ & 110 \end{aligned}$ | E-Mail Report | CounterE-Mail:Validity | CTL* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 866- \\ & 111 \end{aligned}$ | E-Mail Report | CounterE-Mail:Destination Registration | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-866112 | E-Mail Report | CounterE-Mail:Send Test | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 866- \\ & 113 \end{aligned}$ | E-Mail Report | CounterE-Mail:Next Send Date | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-866114 | E-Mail Report | CounterE-Mail:Send Date Setting | CTL* | [ 0 to $31 / 0 / 1$ ] |
| 5- 866- $115$ | E-Mail Report | CounterE-Mail:Send Time Setting | CTL* | [ 0 to $2359 / 0 / 1$ ] |
| 5-866121 | E-Mail Report | CounterE-Mail:Destination1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 866- <br> 122 | E-Mail Report | CounterE-Mail:Destination2 | CTL* | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-866123 | E-Mail Report | CounterE-Mail:Destination3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5-870001 | Common KeyInfo Writing | Writing | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5-870003 | Common KeyInfo Writing | Initialize | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5-870004 | Common Key Info Writing | Writing: 2048bit | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 873- <br> 001 | SDCardAppliMove | MoveExec | CTL | [ 0 to $0 / 0 / 1$ ] |
| 5-873002 | SDCardAppliMove | UndoExec | CTL | [ 0 to $0 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 875- \\ & 001 \end{aligned}$ | SC Auto Reboot | Reboot Setting | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5-875002 | SC Auto Reboot | Reboot Type | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Manual reboot <br> 1: Automatic reboot |
| 5-878001 | Option Setup | Data Overwrite Security | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 878- $002$ | Option Setup | HDD Encryption | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-878004 | Option Setup | OCR Dictionary | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 881- \\ & 001 \end{aligned}$ | Fixed Phrase Block Erasing |  | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5- 885- $020$ | Set WIM Function | DocSvr Acc Ctrl | CTL* | [ $0 \times 00$ to $0 \times \mathrm{xFF} / 0 \times 00 / 0]$ <br> 0: OFF <br> 1: ON <br> Bit 0: Forbid all document server access (1) <br> Bit 1: Forbid user mode access <br> (1) <br> Bit 2: Forbid print function (1) <br> Bit 3: Forbid fax TX (1) <br> Bit 4: Forbid scan sending (1) <br> Bit 5: Forbid downloading (1) <br> Bit 6: Forbid delete (1) <br> Bit 7: Reserved |
| 5- 885- $050$ | Set WIM Function | DocSvr Format | CTL* | $[0 \text { to } 2 / 0 / 1]$ <br> 0 : Thumbnail, 1: Icon, 2: <br> Details |
| 5- 885- $051$ | Set WIM Function | DocSvr Trans | CTL* | [ 5 to 20/10/1] |
| 5-885100 | Set WIM Function | Set Signature | CTL* | $[0 \text { to } 2 / 0 / 1]$ <br> 0 : Setting for each e-mail <br> 1: Signature for all <br> 2: No signature |
| 5- <br> 885- <br> 101 | Set WIM Function | Set Encrypsion | CTL* | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Not encrypted <br> 1: Encryption |
| $\begin{aligned} & 5- \\ & 885- \\ & 200 \end{aligned}$ | Set WIM Function | Detect Mem Leak | CTL* | [ $0 \times 00$ to $0 \times \mathrm{FFF} / 0 \times 00 / 0$ ] |
| 5-886100 | Farm Update Setting | Skip Version Check | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5-886101 | Farm Update Setting | Skip LR Check | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- | Farm Update Setting | Auto Update Setting | CTL* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 886- \\ & 111 \end{aligned}$ |  |  |  |  |
| 5- <br> 886- <br> 112 | Farm Update Setting | Auto Update Prohibit Term Setting | CTL* | [ 0 to $1 / 1 / 1$ ] |
| 5-886113 | Farm Update Setting | Auto Update Prohibit Start hour | CTL* | [ 0 to $23 / 9 / 1$ hour] |
| 5-886114 | Farm Update Setting | Auto Update Prohibit End hour | CTL* | [ 0 to $23 / 17 / 1$ hour] |
| 5- 886- $115$ | Farm Update Setting | SFU Auto Download Setting | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 886- <br> 116 | Farm Update Setting | Auto Update Next Date | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 886- <br> 117 | Farm Update Setting | Auto Update Retry Interval Hour | CTL* | [ 1 to $24 / 1 / 1$ hour] |
| 5- 886- $119$ | Farm Update Setting | Auto Update @Remote Using Setting | CTL* | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 886- <br> 120 | Farm Update Setting | Auto Update Prohibit Day of Week Setting | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 5-886201 | Farm Update Setting | Restore Date | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 886- <br> 202 | Farm Update Setting | Save Old Version List | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 887- \\ & 001 \end{aligned}$ | SD GetCounter |  | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 5-888001 | Personal Information <br> Protect |  | CTL* | [ 0 to $1 / 0 / 1$ ] <br> 0 : No authentication, No protection for logs <br> 1: No authentication, Protected logs (only an administrator can see the logs) |
| 5-893001 | SDK Application Counter | SDK-1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-893002 | SDK Application Counter | SDK-2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-893003 | SDK Application Counter | SDK-3 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- 893- $004$ | SDK Application Counter | SDK-4 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-893005 | SDK Application Counter | SDK-5 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-893006 | SDK Application Counter | SDK-6 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-893007 | SDK Application Counter | SDK-7 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-893008 | SDK Application Counter | SDK-8 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 893- \\ & 009 \end{aligned}$ | SDK Application Counter | SDK-9 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 893- \\ & 010 \end{aligned}$ | SDK Application Counter | SDK-10 | CTL | [ 0 to $0 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 893- \\ & 011 \end{aligned}$ | SDK Application Counter | SDK-11 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 893- \\ & 012 \end{aligned}$ | SDK Application Counter | SDK-12 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 894- <br> 001 | External Mech Count Setting | Mech Counter Switch Setting | ENG* | [ 0 to $2 / 0 / 1$ ] |
| 5-895001 | Application invalidation | Printer | CTL | [ 0 to $1 / 0 / 0]$ |
| 5- <br> 895- <br> 002 | Application invalidation | Scanner | CTL | [ 0 to $1 / 0 / 0$ ] |
| 5-900001 | Engine Log Upload | Pattern | ENG* | [ 0 to $4 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 900- \\ & 002 \end{aligned}$ | Engine Log Upload | Trigger | ENG* | [ 0 to $3 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 907- \\ & 001 \end{aligned}$ | Plug \& Play Maker/Model Name |  | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 913- \\ & 002 \end{aligned}$ | Switchover Permission Time | Print Application Timer | CTL* | [ 0 to $30 / 3 / 1$ ] |
| $\begin{aligned} & 5- \\ & 967- \\ & 001 \end{aligned}$ | Copy Server : Set Function | (0:ON 1:OFF) | CTL* | $\begin{array}{\|l} {[0 \text { to } 1 / 0 / 1]} \\ 0: \text { ON } \\ 1: \text { OFF } \\ \hline \end{array}$ |
| $\begin{aligned} & 5- \\ & 973- \\ & 101 \end{aligned}$ | User Stamp Registration | Frame deletion setting | CTL* | [ 0 to $3 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 985- \\ & 001 \end{aligned}$ | Device Setting | On Board NIC | CTL | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Disable } \\ & \text { 1: Enable } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG <br> or <br> CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 2: Function limitation |
| 5- <br> 985- <br> 002 | Device Setting | On Board USB | CTL | [ 0 to $1 / 0 / 1$ ] |
| 5- <br> 990- <br> 001 | SP Print Mode | All (Data List) | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 990- <br> 002 | SP Print Mode | SP (Mode Data List) | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 990- <br> 003 | SP Print Mode | User Program | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 990- <br> 004 | SP Print Mode | Logging Data | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 990- <br> 005 | SP Print Mode | Diagnostic Report | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 990- <br> 006 | SP Print Mode | Non-Default | CTL | [ 0 to $255 / 0 / 0$ ] |
| 5- <br> 990- <br> 007 | SP Print Mode | NIB Summary | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 990- <br> 008 | SP Print Mode | Capture Log | CTL | [ 0 to $255 / 0 / 1$ ] |
| 5- <br> 990- <br> 021 | SMC Print | Copier User Program | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5- <br> 990- <br> 022 | SP Print Mode | Scanner SP | CTL | [ 0 to 255/0/0] |
| 5- | SP Print Mode | Scanner User Program | CTL | [ 0 to $255 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG <br> or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 990- \\ & 023 \end{aligned}$ |  |  |  |  |
| $\begin{aligned} & 5- \\ & 990- \\ & 024 \end{aligned}$ | SP Print Mode | SDK/J Summary | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 990- \\ & 025 \end{aligned}$ | SP Print Mode | SDK/J Application Info | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 990- \\ & 026 \end{aligned}$ | SP Print Mode | Printer SP | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 990- \\ & 027 \end{aligned}$ | SP Print Mode | SmartOperationPanel SP | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 990- \\ & 028 \end{aligned}$ | SP Print Mode | SmartOperationPanel UP | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 001 \end{aligned}$ | SP Text Mode | All (Data List) | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 002 \end{aligned}$ | SP Text Mode | SP (Mode Data List) | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 003 \end{aligned}$ | SP Text Mode | User Program | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 004 \end{aligned}$ | SP Text Mode | Logging Data | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 005 \end{aligned}$ | SP Text Mode | Diagnostic Report | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 006 \end{aligned}$ | SP Text Mode | Non-Default | CTL | [ 0 to $255 / 0 / 0$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | $\begin{gathered} \text { ENG } \\ \text { or } \\ \text { CTL } \end{gathered}$ | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5- \\ & 992- \\ & 007 \end{aligned}$ | SP Text Mode | NIB Summary | CTL | [ 0 to $0 / 0 / 0$ ] |
| 5-992008 | SP Text Mode | Capture Log | CTL | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 021 \end{aligned}$ | SP Text Mode | Copier User Program | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 022 \end{aligned}$ | SP Text Mode | Scanner SP | CTL | [ 0 to $255 / 0 / 0]$ |
| $\begin{aligned} & 5- \\ & 992- \\ & 023 \end{aligned}$ | SP Text Mode | Scanner User Program | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 024 \end{aligned}$ | SP Text Mode | SDK/J Summary | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 025 \end{aligned}$ | SP Text Mode | SDK/J Application Info | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 026 \end{aligned}$ | SP Text Mode | Printer SP | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 027 \end{aligned}$ | SP Text Mode | SmartOperationPanel SP | CTL | [ 0 to $255 / 0 / 0$ ] |
| $\begin{aligned} & 5- \\ & 992- \\ & 028 \end{aligned}$ | SP Text Mode | SmartOperationPanel UP | CTL | [ 0 to $255 / 0 / 0$ ] |

## SP Group 6000

| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 006- \\ & 001 \end{aligned}$ | ADF Adjustment | Side-to-Side Regist: Front | ENG* | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 002 \end{aligned}$ | ADF Adjustment | Side-to-Side Regist: Rear | ENG* | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 003 \end{aligned}$ | ADF Adjustment | Leading Edge Registration: <br> Front | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 004 \end{aligned}$ | ADF Adjustment | Leading Edge Registration: <br> Rear | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 005 \end{aligned}$ | ADF Adjustment | Buckle: Duplex Front | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 006 \end{aligned}$ | ADF Adjustment | Buckle: Duplex Rear | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 006- \\ & 007 \end{aligned}$ | ADF Adjustment | Rear Edge Erase Front | ENG* | $\begin{aligned} & {[-10 \text { to } 10 /-2.3 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 008 \end{aligned}$ | ADF Adjustment | Rear Edge Erase Rear | ENG* | $\begin{aligned} & {[-10 \text { to } 10 /-2.3 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 010 \end{aligned}$ | ADF Adjustment | L-Edge Regist (1-Pass): <br> Front | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 006- \\ & 011 \end{aligned}$ | ADF Adjustment | L-Edge Regist (1-Pass): Rear | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 012 \end{aligned}$ | ADF Adjustment | 1st Buckle (1-Pass) | ENG* | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| 6- 006- | ADF Adjustment | 2nd Buckle (1-Pass) | ENG* | $\begin{aligned} & {[-2 \text { to } 3 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 013 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 006- \\ & 014 \end{aligned}$ | ADF Adjustment | T-Edge Erase (1-Pass): Front | ENG* | $\begin{aligned} & {[-5 \text { to } 5 /-3 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 006- \\ & 015 \end{aligned}$ | ADF Adjustment | T-Edge Erase (1-Pass): Rear | ENG* | $\begin{aligned} & {[-5 \text { to } 5 /-2.5 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 009- \\ & 001 \end{aligned}$ | ADF Free Run | Free Run Simplex Motion | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 009- \\ & 002 \end{aligned}$ | ADF Free Run | Free Run Duplex Motion | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 009- \\ & 003 \end{aligned}$ | ADF Free Run | Free Run Stamp Motion | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 009- \\ & 004 \end{aligned}$ | ADF Free Run | Free Run Simplex <br> Motion(low speed) | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 009- \\ & 005 \end{aligned}$ | ADF Free Run | Free Run Simplex <br> Motion(high speed) | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 009- \\ & 006 \end{aligned}$ | ADF Free Run | Free Run Duplex <br> Motion(low speed) | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 009- \\ & 007 \end{aligned}$ | ADF Free Run | Free Run Duplex <br> Motion(high speed) | ENG | [OFF or ON / - / 1/step] |
| $\begin{aligned} & 6- \\ & 010- \\ & 001 \end{aligned}$ | Stamp Position Adj. |  | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 016- \\ & 001 \end{aligned}$ | Original Size Detect Setting |  | ENG* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 017- \end{aligned}$ | DF Magnification Adj. |  | ENG* | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.1 \%] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 020- \\ & 001 \end{aligned}$ | Skew Correction Moving Setting |  | ENG* | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 100- \\ & 001 \end{aligned}$ | Sub-scanPunchPosAdj:2K/3K FIN | JPN/EU: 2-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 100- \\ & 002 \end{aligned}$ | Sub-scanPunchPosAdj:2K/3K FIN | NA: 3-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 100- \\ & 003 \end{aligned}$ | Sub-scanPunchPosAdj:2K/3K FIN | Europe: 4-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 100- \\ & 004 \end{aligned}$ | Sub-scanPunchPosAdj:2K/3K FIN | NEU: 4-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 100- \\ & 005 \end{aligned}$ | Sub-scanPunchPosAdj:2K/3K FIN | NA: 2-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 100- \\ & 006 \end{aligned}$ | Sub-scanPunchPosAdj:2K/3K FIN | JPN: 1-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 101- \\ & 001 \end{aligned}$ | Main-scanPunchPosAdj:2K/3K FIN | JPN/EU: 2-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 101- \\ & 002 \end{aligned}$ | Main-scanPunchPosAdj:2K/3K FIN | NA: 3-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 101- \\ & 003 \end{aligned}$ | Main-scanPunchPosAdj:2K/3K FIN | Europe: 4-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 101- \\ & 004 \end{aligned}$ | Main-scanPunchPosAdj:2K/3K FIN | NEU: 4-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 101- \end{aligned}$ | Main-scanPunchPosAdj:2K/3K FIN | NA: 2-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 101- \\ & 006 \end{aligned}$ | Main-scanPunchPosAdj:2K/3K FIN | JPN:1-1Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 001 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 002 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 003 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 004 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 005 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 006 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 007 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | A5 LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 008 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 009 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 010 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 102- \\ & 012 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | LT LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 013 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | HLT LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 014 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 015 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 016 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | 16K SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 102- \\ & 017 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 102- \\ & 018 \end{aligned}$ | SkewCorrectBuckleAdj:2K/3K FIN | Other | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 001 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 002 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1 \text { ] }} \\ & \text { 0: BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 003 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 004 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1 \text { ] }} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| 6- 103- | SkewCorrectCtrlSW:2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  | 1: BuckleAdj Off |
| $\begin{aligned} & 6- \\ & 103- \\ & 006 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 007 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | A5 LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 008 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 009 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 010 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 103- \\ & 011 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 012 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | LT LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 013 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | HLT LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 014 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \\ & \hline \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 015 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \\ & 016 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | 16K SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 103- \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { BuckleAdj On } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 017 |  |  |  | 1: BuckleAdj Off |
| $\begin{aligned} & 6- \\ & 103- \\ & 018 \end{aligned}$ | SkewCorrectCtrlSW:2K/3K FIN | Other | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: BuckleAdj On } \\ & \text { 1: BuckleAdj Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 001 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 002 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 003 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 004 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 005 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 006 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | A5 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 007 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 008 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 009 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 010 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6- 104- | ShiftTrayJogPosAdj:2K/3K FIN | LT LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 104- \\ & 012 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | HLT LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 013 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 014 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 104- \\ & 015 \end{aligned}$ | ShiftTrayJogPosAdj:2K/3K FIN | Other | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 105- \\ & 001 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | A3 SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & 6- \\ & 105- \\ & 002 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | B4 SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & 6- \\ & 105- \\ & 003 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | A4 SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & 6- \\ & 105- \\ & 004 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | DLT SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & 6- \\ & 105- \\ & 005 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | LG SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & 6- \\ & 105- \\ & 006 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | Oficio SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & \text { 6- } \\ & 105- \\ & 007 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | LT SEF | ENG | [ -10 to $10 / 0 /$ 5deg] |
| 6- 105- | ShftTJogRtrctAngAdj:2K/3K FIN | 8K SEF | ENG | [ -10 to $10 / 0 /$ <br> 5deg] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 008 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 105- \\ & 009 \end{aligned}$ | ShftTJogRtrctAngAdj:2K/3K FIN | Other | ENG | [ -10 to $10 / 0 /$ 5deg] |
| $\begin{aligned} & 6- \\ & 106- \\ & 001 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 002 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 003 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 004 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 005 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 006 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | A5 LEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 007 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 008 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | LG SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 009 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 010 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | LT SEF | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| 6- 106- | Use Paper Jogger: 2K/3K FIN | LT LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Jogging On } \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  | 1: Jogging Off |
| $\begin{aligned} & \hline 6- \\ & 106- \\ & 012 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | HLT LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 013 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 014 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 106- \\ & 015 \end{aligned}$ | Use Paper Jogger: 2K/3K FIN | Other | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & \text { 0: Jogging On } \\ & \text { 1: Jogging Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 001 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 002 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 003 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 004 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 005 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 006 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 007 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6- $107-$ | JogPosAdj(CrnrStplr):2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 008 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 107- \\ & 009 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 010 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 011 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | LT LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 012 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 013 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | 16K SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 014 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 107- \\ & 015 \end{aligned}$ | JogPosAdj(CrnrStplr):2K/3K FIN | Other | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 001 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 002 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 003 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 004 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | $\begin{gathered} \text { [Min to } \\ \text { Max/Init./Step] } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 108- \\ & 006 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 007 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 008 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 108- \\ & 009 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 108- \\ & 010 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 108- \\ & 011 \end{aligned}$ | JogPosAdj(BookStplr):2K/3K FIN | Other | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 001 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | A3 SEF | ENG | $\text { [ } 0 \text { to } 2 / 0 \text { / }$ <br> 1times] |
| $\begin{aligned} & 6- \\ & 109- \\ & 002 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times }] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 003 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | A4 SEF | ENG | [ 0 to $2 / 0 /$ 1times] |
| $\begin{aligned} & 6- \\ & 109- \\ & 004 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 005 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $6-$ 109- | CrnrStplrJogTimeAdj:2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times }] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 006 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 109- \\ & 007 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times }] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 008 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 109- \\ & 009 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times }] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 010 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times }] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 011 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | LT LEF | ENG | [ 0 to $2 / 0 /$ 1times] |
| $\begin{aligned} & 6- \\ & 109- \\ & 012 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times }] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 013 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | 16K SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 014 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 109- \\ & 015 \end{aligned}$ | CrnrStplrJogTimeAdj:2K/3K FIN | Other | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 001 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | A3 SEF | ENG | [ 0 to $2 / 0 /$ <br> 1times] |
| $\begin{aligned} & 6- \\ & 110- \\ & 002 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & 1 \text { times] } \end{aligned}$ |
| 6- 110- | BookStplrJogTimeAdj:2K/3K FIN | A4 SEF | ENG | $\text { [ } 0 \text { to } 2 \text { / } 0 \text { / }$ <br> 1times] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 110- \\ & 004 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 005 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 006 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 007 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 008 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 009 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 010 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 110- \\ & 011 \end{aligned}$ | BookStplrJogTimeAdj:2K/3K FIN | Other | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 001 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 002 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | B4 SEF | ENG | [ -3.5 to $3.5 / 0 /$ 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 111- \\ & 003 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | A4 SEF | ENG | $\text { [ }-3.5 \text { to } 3.5 \text { / } 0 \text { / }$ <br> 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 111- \end{aligned}$ | Staple Position Adj: 2K/3K FIN | A4 LEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 111- \\ & 005 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | B5 SEF | ENG | [ -3.5 to $3.5 / 0$ / <br> 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 111- \\ & 006 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | B5 LEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 007 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 008 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | LG SEF | ENG | [ -3.5 to $3.5 / 0 /$ 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 111- \\ & 009 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 010 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | LT SEF | ENG | [ -3.5 to $3.5 / 0 /$ <br> 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 111- \\ & 011 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | LT LEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 012 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 013 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | 16K SEF | ENG | [ -3.5 to 3.5 / 0 / 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 111- \\ & 014 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | 16K LEF | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 111- \\ & 015 \end{aligned}$ | Staple Position Adj: 2K/3K FIN | Other | ENG | [ -3.5 to $3.5 / 0 /$ 0.5 mm ] |
| $\begin{aligned} & \text { 6- } \\ & 112- \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 112- \\ & 002 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 003 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 004 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 005 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 006 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 007 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 008 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 009 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & {[-1.8 \text { to } 1.8 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 010 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 112- \\ & 011 \end{aligned}$ | BookletStaplerPosAdj:2K/3K FIN | Other | ENG | $\begin{aligned} & {[-1.8 \text { to } 1.8 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 113- \\ & 001 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $6-$ 113- | BookletFolderPosAdj:2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 113- \\ & 003 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 004 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 005 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 006 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LG SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 007 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 008 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 009 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 010 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 011 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Other | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 012 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A3 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 013 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A3 SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- 113- | BookletFolderPosAdj:2K/3K FIN | A3 SEF (11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 014 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 113- \\ & 015 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A3 SEF (16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 016 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B4 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 017 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B4 SEF (6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 018 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B4 SEF (11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 019 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B4 SEF (16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 020 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A4 SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 021 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A4 SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 022 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A4 SEF (11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 023 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | A4 SEF(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 024 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B5 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 025 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B5 SEF (6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B5 SEF (11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 026 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 113- \\ & 027 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | B5 SEF(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 028 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | DLT SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 029 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | DLT SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 030 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | DLT SEF(11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 031 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | DLT SEF(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 032 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LG SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 033 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LG SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6-113034 | BookletFolderPosAdj:2K/3K FIN | LG SEF (11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 035 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LG SEF (16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 036 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Oficio SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 037 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Oficio SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- 113- | BookletFolderPosAdj:2K/3K FIN | Oficio SEF(11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 038 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 113- \\ & 039 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Oficio SEF(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 040 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LT SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 041 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LT SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 042 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LT SEF(11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 043 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | LT SEF (16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 044 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 12 cx 18 "(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 045 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 12 "x18"(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 046 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 12"x18"(11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 047 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 12"x18"(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 048 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 8K SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 049 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 8K SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 8K SEF (11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | $\begin{gathered} \text { [Min to } \\ \text { Max/Init./Step] } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 050 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 113- \\ & 051 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | 8K SEF(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 113- \\ & 052 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Other(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 053 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Other(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 054 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Other(11-15) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 113- \\ & 055 \end{aligned}$ | BookletFolderPosAdj:2K/3K FIN | Other(16-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 114- \\ & 001 \end{aligned}$ | Fold Speed Adj.: 2K/3K FIN | A3 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 114- \\ & 002 \end{aligned}$ | Fold Speed Adj.: 2K/3K FIN | B4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & \text { 0: Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 114- \\ & 003 \end{aligned}$ | Fold Speed Adj.: 2K/3K FIN | A4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & \text { 0: Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \\ & \hline \end{aligned}$ |
| 6- <br> 114- <br> 004 | Fold Speed Adj.: 2K/3K FIN | B5 SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 114- \\ & 005 \end{aligned}$ | Fold Speed Adj.: 2K/3K FIN | DLT SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| 6- | Fold Speed Adj.: 2K/3K FIN | LG SEF | ENG | [ 0 to $2 / 0 / 1$ ] |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 114- \\ & 006 \end{aligned}$ |  |  |  | 0: Std Speed <br> 1: Middle Speed <br> 2: Low Speed |
| $\begin{aligned} & 6- \\ & 114- \\ & 007 \end{aligned}$ | Fold Speed Adj.: 2K/3K FIN | Oficio SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| 6- 114- $008$ | Fold Speed Adj.: 2K/3K FIN | LT SEF | ENG | $\begin{aligned} & \hline[0 \text { to } 2 / 0 / 1] \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| 6- <br> 114- <br> 009 | Fold Speed Adj.: 2K/3K FIN | 12"x18" | ENG | $\begin{aligned} & \hline[0 \text { to } 2 / 0 / 1] \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| 6- <br> 114- <br> 010 | Fold Speed Adj.: 2K/3K FIN | 8K SEF | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & \text { 0: Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 114- \\ & 011 \end{aligned}$ | Fold Speed Adj.: 2K/3K FIN | Other | ENG | $\begin{aligned} & {[0 \text { to } 2 / 0 / 1]} \\ & 0: \text { Std Speed } \\ & \text { 1: Middle Speed } \\ & \text { 2: Low Speed } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 115- \\ & 005 \end{aligned}$ | Finisher Free Run: 2K/3K FIN | Free Run 5 | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 116- \\ & 001 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | A3 SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| 6-116002 | CrnrStplrMxPrstkShAdj:2K/3KFIN | B4 SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 003 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | A4 SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $6-$ 116- | CrnrStplrMxPrstkShAdj:2K/3KFIN | A4 LEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| 6- <br> 116- <br> 005 | CrnrStplrMxPrstkShAdj:2K/3KFIN | B5 SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| 6- <br> 116- <br> 006 | CrnrStplrMxPrstkShAdj:2K/3KFIN | B5 LEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| 6- <br> 116- <br> 007 | CrnrStplrMxPrstkShAdj:2K/3KFIN | DLT SEF | ENG | $\text { [ }-1 \text { to } 0 / 0 \text { / }$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 008 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | LG SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 009 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | Oficio SEF | ENG | $\text { [ }-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 010 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | LT SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 011 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | LT LEF | ENG | $\text { [ }-1 \text { to } 0 / 0 \text { / }$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 012 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | 8K SEF | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 013 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | 16K SEF | ENG | $\begin{aligned} & {[-1 \text { to } 0 / 0 /} \\ & 1 \text { sheets }] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 116- \\ & 014 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | 16K LEF | ENG | $\text { [ }-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 116- \\ & 015 \end{aligned}$ | CrnrStplrMxPrstkShAdj:2K/3KFIN | Other | ENG | $[-1 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & \text { 6- } \\ & \text { 117- } \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | A3 SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 117- \\ & 002 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | B4 SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 003 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | A4 SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 004 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | B5 SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 005 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | DLT SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 006 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | LG SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 007 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | Oficio SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 008 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | LT SEF | ENG | $\text { [ }-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 009 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | 12"x18" | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 010 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | 8K SEF | ENG | $[-7 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 117- \\ & 011 \end{aligned}$ | BookStplrMxPrstkShAdj:2K/3KFIN | Other | ENG | $\text { [ }-2 \text { to } 0 / 0 /$ <br> 1sheets] |
| $\begin{aligned} & 6- \\ & 118- \\ & 001 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | A3 SEF | ENG | [ -16 to $16 / 0 /$ <br> 2 mm ] |
| $6-$ 118- | CrnrStplrPrstkOffsAdj:2K/3KFIN | B4 SEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 118- \\ & 003 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | A4 SEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| 6-118004 | CrnrStplrPrstkOffsAdj:2K/3KFIN | A4 LEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 118- \\ & 005 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | B5 SEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 118- \\ & 006 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | B5 LEF | ENG | [ -16 to $16 / 0 /$ 2 mm ] |
| $\begin{aligned} & 6- \\ & 118- \\ & 007 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | DLT SEF | ENG | [ -16 to $16 / 0 /$ 2 mm ] |
| $\begin{aligned} & 6- \\ & 118- \\ & 008 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | LG SEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 118- \\ & 009 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | Oficio SEF | ENG | [ -16 to $16 / 0 /$ 2 mm ] |
| $\begin{aligned} & 6- \\ & 118- \\ & 010 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | LT SEF | ENG | $[-16 \text { to } 16 / 0 /$ <br> 2 mm ] |
| $\begin{aligned} & 6- \\ & 118- \\ & 011 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | LT LEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 118- \\ & 012 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | 8K SEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 118- \\ & 013 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | 16K SEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 118- \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | 16K LEF | ENG | $\begin{aligned} & {[-16 \text { to } 16 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 014 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 118- \\ & 015 \end{aligned}$ | CrnrStplrPrstkOffsAdj:2K/3KFIN | Other | ENG | [ -16 to $16 / 0 /$ 2 mm ] |
| $\begin{aligned} & 6- \\ & 119- \\ & 001 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | A3 SEF | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 119- \\ & 002 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | B4 SEF | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 119- \\ & 003 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | A4 SEF | ENG | $\text { [ }-30 \text { to } 30 / 0 \text { / }$ <br> 2 mm ] |
| $\begin{aligned} & 6- \\ & 119- \\ & 004 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | B5 SEF | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 119- \\ & 005 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | DLT SEF | ENG | $\text { [ }-30 \text { to } 30 / 0 /$ <br> 2 mm ] |
| $\begin{aligned} & 6- \\ & 119- \\ & 006 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | LG SEF | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 119- \\ & 007 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | Oficio SEF | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 119- \\ & 008 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | LT SEF | ENG | $\text { [ }-30 \text { to } 30 / 0 \text { / }$ <br> 2 mm ] |
| $\begin{aligned} & 6- \\ & 119- \\ & 009 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | 12"x18" | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 119- \\ & 010 \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | 8K SEF | ENG | $\text { [ }-30 \text { to } 30 / 0 /$ <br> 2 mm ] |
| $\begin{aligned} & 6- \\ & 119- \end{aligned}$ | BookStplrPrstkOffsAdj:2K/3KFIN | Other | ENG | $\begin{aligned} & {[-30 \text { to } 30 / 0 /} \\ & 2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  |  |
| $\begin{aligned} & \text { 6- } \\ & 120- \\ & 001 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | A3 SEF | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 120- \\ & 002 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | B4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 120- \\ & 003 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | A4 SEF | ENG | $[0 \text { to } 30 / 0 /$ <br> 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 004 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | A4 LEF | ENG | [ 0 to $30 / 0 /$ <br> 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 005 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | B5 SEF | ENG | [ 0 to $30 / 0 /$ 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 006 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | B5 LEF | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 120- \\ & 007 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | DLT SEF | ENG | [ 0 to $30 / 0 /$ <br> 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 008 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | LG SEF | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 120- \\ & 009 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | Oficio SEF | ENG | [ 0 to $30 / 0 /$ <br> 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 010 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | LT SEF | ENG | $\text { [ } 0 \text { to } 30 \text { / } 0 \text { / }$ <br> 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 011 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | LT LEF | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| 6- $120-$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | 8K SEF | ENG | [ 0 to $30 / 0 /$ 10 mm ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 012 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 120- \\ & 013 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | 16K SEF | ENG | [ 0 to $30 / 0 /$ <br> 10 mm ] |
| $\begin{aligned} & 6- \\ & 120- \\ & 014 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | 16K LEF | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 120- \\ & 015 \end{aligned}$ | CrnStpPosExFeedAmtAdj:2K/3KFIN | Other | ENG | $\begin{aligned} & {[0 \text { to } 30 / 0 /} \\ & 10 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 121- \\ & 001 \end{aligned}$ | NV Adj. Data Mod. | Jogger Pos. Factory Adj. | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 121- \\ & 002 \end{aligned}$ | NV Adj. Data Mod. | Folding Pos. Factory Adj. | ENG | $\begin{aligned} & {[-1.4 \text { to } 1.4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 122- \\ & 001 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | A3 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 002 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | B4 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 003 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | A4 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 004 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | B5 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 005 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | DLT SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 006 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | LG SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| 6- 122- | BkFoldJogSolMovAmtAdj:2K/3KFIN | Oficio SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 122- \\ & 008 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | LT SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 009 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | 12"x18" | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 010 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | 8K SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 122- \\ & 011 \end{aligned}$ | BkFoldJogSolMovAmtAdj:2K/3KFIN | Other | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 125- \\ & 001 \end{aligned}$ | Use Paper Guide(Large Size) | All Sizes | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Guide On } \\ & \text { 1: Guide Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 126- \\ & 001 \end{aligned}$ | Use Paper Guide(Small Size) | All Sizes | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Guide On } \\ & \text { 1: Guide Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 127- \\ & 001 \end{aligned}$ | Paper Guide PossAdj:2K/3K FIN | All Sizes | ENG | $\begin{aligned} & {[-10 \text { to } 10 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 128- \\ & 001 \end{aligned}$ | Paper Guide RetraAdj:2K/3K FIN | All Sizes | ENG | $[-50 \text { to } 50 / 0 /$ <br> 5mm] |
| $\begin{aligned} & 6- \\ & 129- \\ & 001 \end{aligned}$ | Paper Guide AceptAdj:2K/3K FIN | All Sizes | ENG | $\text { [ }-50 \text { to } 50 / 0 \text { / }$ <br> $5 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 130- \\ & 001 \end{aligned}$ | Sub-scan PunchPosAdj:FrontFIN | Domestic 2Hole(Europe 2Hole) | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 130- \\ & 002 \end{aligned}$ | Sub-scan PunchPosAdj:FrontFIN | North America 3Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6- $130-$ | Sub-scan PunchPosAdj:FrontFIN | Europe 4Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 130- \\ & 004 \end{aligned}$ | Sub-scan PunchPosAdj:FrontFIN | North Europe 4Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 130- \\ & 005 \end{aligned}$ | Sub-scan PunchPosAdj:FrontFIN | North America 2Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 131- \\ & 001 \end{aligned}$ | Main-scan PunchPosAdj:FrontFIN | Domestic 2Hole(Europe 2Hole) | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 131- \\ & 002 \end{aligned}$ | Main-scan PunchPosAdj:FrontFIN | North America 3Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 131- \\ & 003 \end{aligned}$ | Main-scan PunchPosAdj:FrontFIN | Europe 4Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 131- \\ & 004 \end{aligned}$ | Main-scan PunchPosAdj:FrontFIN | North Europe 4Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 131- \\ & 005 \end{aligned}$ | Main-scan PunchPosAdj:FrontFIN | North America 2Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 001 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | A3T | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 002 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | B4T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 003 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | A4T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6-132004 | Jogger Fence Fine Adj:FrontFIN | A4Y | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6- 132- | Jogger Fence Fine Adj:FrontFIN | B5T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 132- \\ & 006 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | B5Y | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 007 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | DLT-T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 008 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | LG-T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 009 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | Oficio-T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 010 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | LT-T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 011 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | LT-Y | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 012 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | 8K-T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 013 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | 16K-T | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 014 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | 16K-Y | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 132- \\ & 015 \end{aligned}$ | Jogger Fence Fine Adj:FrontFIN | Other | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 133- \\ & 001 \end{aligned}$ | Staple Position Adj: FrontFIN | Finisher1 | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6- 140- | Staple Position Adj: 1K FIN |  | ENG | $\begin{aligned} & {[-3.5 \text { to } 3.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 140- \\ & 002 \end{aligned}$ | Staple Position Adj: 1K FIN | Without Staples | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.3 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 141- \\ & 001 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | A3 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 141- \\ & 002 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | B4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- <br> 141- <br> 003 | Booklet Stapler Pos Adj:1K FIN | A4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 141- \\ & 004 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | B5 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6-141005 | Booklet Stapler Pos Adj:1K FIN | DLT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 141- \\ & 006 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | LG SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 141- \\ & 007 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 141- \\ & 008 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | LT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 141- \\ & 009 \end{aligned}$ | Booklet Stapler Pos Adj:1K FIN | 12 "x18" | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- <br> 142- <br> 001 | Sub-scan Punch Pos Adj:1K FIN | JPN/EU: 2-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| 6- 142- | Sub-scan Punch Pos Adj:1K FIN | NA: 3-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 |  |  |  |  |
| 6- <br> 142- <br> 003 | Sub-scan Punch Pos Adj:1K FIN | Europe: 4-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 142- \\ & 004 \end{aligned}$ | Sub-scan Punch Pos Adj:1K FIN | NEU: 4-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 142- \\ & 005 \end{aligned}$ | Sub-scan Punch Pos Adj:1K FIN | NA: 2-Hole | ENG | $\begin{aligned} & {[-7.5 \text { to } 7.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 001 \end{aligned}$ | Jogger Pos Adj:1K FIN | A3 SEF | ENG | [ -1.5 to $1.5 / 0 /$ 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 143- \\ & 002 \end{aligned}$ | Jogger Pos Adj:1K FIN | B4 SEF | ENG | [ -1.5 to $1.5 / 0 /$ 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 143- \\ & 003 \end{aligned}$ | Jogger Pos Adj:1K FIN | A4 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 004 \end{aligned}$ | Jogger Pos Adj:1K FIN | A4 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 005 \end{aligned}$ | Jogger Pos Adj:1K FIN | B5 SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 006 \end{aligned}$ | Jogger Pos Adj:1K FIN | B5 LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 007 \end{aligned}$ | Jogger Pos Adj:1K FIN | DLT SEF | ENG | [ -1.5 to $1.5 / 0 /$ 0.5 mm ] |
| $\begin{aligned} & 6- \\ & 143- \\ & 008 \end{aligned}$ | Jogger Pos Adj:1K FIN | LG SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \text { 6- } \\ & 143- \end{aligned}$ | Jogger Pos Adj:1K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 143- \\ & 010 \end{aligned}$ | Jogger Pos Adj:1K FIN | LT SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 011 \end{aligned}$ | Jogger Pos Adj:1K FIN | LT LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 012 \end{aligned}$ | Jogger Pos Adj:1K FIN | 12"x18" | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 013 \end{aligned}$ | Jogger Pos Adj:1K FIN | 8K SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 014 \end{aligned}$ | Jogger Pos Adj:1K FIN | 16K SEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 015 \end{aligned}$ | Jogger Pos Adj:1K FIN | 16K LEF | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 143- \\ & 016 \end{aligned}$ | Jogger Pos Adj:1K FIN | Other | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 144- \\ & 001 \end{aligned}$ | Main-scan Punch Pos Adj:1K FIN | JPN/EU: 2-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 144- \\ & 002 \end{aligned}$ | Main-scan Punch Pos Adj:1K FIN | NA: 3-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 144- \\ & 003 \end{aligned}$ | Main-scan Punch Pos Adj:1K FIN | Europe: 4-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| 6-144004 | Main-scan Punch Pos Adj:1K FIN | NEU: 4-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |
| $6-$ 144- | Main-scan Punch Pos Adj:1K FIN | NA: 2-Hole | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.4 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| 6- <br> 145- <br> 001 | Skew Correct Buckle Adj:1K FIN | A3 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- <br> 145- <br> 002 | Skew Correct Buckle Adj:1K FIN | B4 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- <br> 145- <br> 003 | Skew Correct Buckle Adj:1K FIN | A4 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- $145-$ $004$ | Skew Correct Buckle Adj:1K FIN | A4 LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 005 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | B5 SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 006 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | B5 LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 007 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | A5 LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 008 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | DLT SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 009 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | LG SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 010 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 011 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | LT SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- 145- | Skew Correct Buckle Adj:1K FIN | LT LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 012 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 145- \\ & 013 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | HLT LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 014 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | 12 "x18" | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 015 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | 8K SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 145- \\ & 016 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | 16K SEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 145- \\ & 017 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | 16K LEF | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 145- \\ & 018 \end{aligned}$ | Skew Correct Buckle Adj:1K FIN | Other | ENG | $\begin{aligned} & {[-5 \text { to } 5 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 146- \\ & 001 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | A3 SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 002 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | B4 SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 003 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | A4 SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 004 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | A4 LEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6- <br> 146- <br> 005 | Skew Correct Ctrl SW:1K FIN | B5 SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6- 146- | Skew Correct Ctrl SW:1K FIN | B5 LEF | ENG | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 006 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 146- \\ & 007 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | A5 LEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 008 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | DLT SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 009 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | LG SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 010 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | Oficio SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 011 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | LT SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 012 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | LT LEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 013 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | HLT LEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 014 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | 12"x18" | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 015 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | 8K SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 016 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | 16K SEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \\ & 017 \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | 16K LEF | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 146- \end{aligned}$ | Skew Correct Ctrl SW:1K FIN | Other | ENG | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 018 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 147- \\ & 001 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A3 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 002 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | B4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 003 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A4 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- <br> 147- <br> 004 | Booklet Folder Pos Adj:1K FIN | B5 SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 005 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | DLT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 006 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LG SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 007 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | Oficio SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 008 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LT SEF | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 009 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | 12"x18" | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 147- \\ & 010 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A3 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 011 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A3 SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- 147- | Booklet Folder Pos Adj:1K FIN | A3 SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 012 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 147- \\ & 013 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | B4 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6-147014 | Booklet Folder Pos Adj:1K FIN | B4 SEF (6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 015 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | B4 SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 016 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A4 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 017 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A4 SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 018 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | A4 SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 019 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | B5 SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- $147-$ $020$ | Booklet Folder Pos Adj:1K FIN | B5 SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 021 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | B5 SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- <br> 147- <br> 022 | Booklet Folder Pos Adj:1K FIN | DLT SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6-147023 | Booklet Folder Pos Adj:1K FIN | DLT SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- 147- | Booklet Folder Pos Adj:1K FIN | DLT SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 024 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 147- \\ & 025 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LG SEF (1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 026 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LG SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 027 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LG SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 028 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | Oficio SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 029 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | Oficio SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 030 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | Oficio SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 031 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LT SEF(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 032 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LT SEF(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 033 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | LT SEF(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 034 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | 12 cx 18 "(1-5) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 147- \\ & 035 \end{aligned}$ | Booklet Folder Pos Adj:1K FIN | $12 \mathrm{\prime} \mathrm{\prime} 18$ "(6-10) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| 6- 147- | Booklet Folder Pos Adj:1K FIN | 12"x18"(11-over) | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 036 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 148- \\ & 001 \end{aligned}$ | Fold Times Adj: 1K FIN |  | ENG | $\begin{aligned} & {[0 \text { to } 29 / 0 /} \\ & 1 \mathrm{sec}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 149- \\ & 001 \end{aligned}$ | Last Paper Pos Time Adj:1K FIN |  | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 /} \\ & \text { 1times] } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 001 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | A3 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 002 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | B4 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 003 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | A4 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 004 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | A4 LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 005 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | B5 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 006 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | B5 LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 007 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | DLT SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 008 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | LG SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 009 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | Oficio SEF | ENG | $\text { [ }-100 \text { to } 100 / 0 \text { / }$ <br> $10 \mathrm{msec}]$ |
| 6- $150-$ | PositioningStrtTimingAdj:1KFIN | LT SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 010 |  |  |  |  |
| $\begin{aligned} & \hline 6- \\ & 150- \\ & 011 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | LT LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 012 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | 12 "x18" | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 013 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | 8K SEF | ENG | [ -100 to 100 / 0 / $10 \mathrm{msec}]$ |
| $\begin{aligned} & \hline 6- \\ & 150- \\ & 014 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | 16K SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & \hline 6- \\ & 150- \\ & 015 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | 16K LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 150- \\ & 016 \end{aligned}$ | PositioningStrtTimingAdj:1KFIN | Other | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 151- \\ & 001 \end{aligned}$ | PosTimeAdj(LstPr2ndTime):1KFIN |  | ENG | [ - 100 to $100 / 0$ / $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 001 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | A3 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 002 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | B4 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 003 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | A4 SEF | ENG | [ -100 to $100 / 0$ / $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 004 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | A4 LEF | ENG | [ - 100 to $100 / 0$ / $10 \mathrm{msec}]$ |
| 6- 152- | PosTiAdj(ExcLstPr3rdTi):1KFIN | B5 SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 152- \\ & 006 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | B5 LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 007 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | DLT SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 008 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | LG SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 009 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | Oficio SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 010 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | LT SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 011 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | LT LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 012 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | 12"x18" | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 013 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | 8K SEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 014 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | 16K SEF | ENG | $\text { [ }-100 \text { to } 100 / 0 \text { / }$ <br> $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 015 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | 16K LEF | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 152- \\ & 016 \end{aligned}$ | PosTiAdj(ExcLstPr3rdTi):1KFIN | Other | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 154- \end{aligned}$ | Pos Time Adj By Sheet: 1K FIN | 1-10 Sheets | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 6- \\ & 154- \\ & 002 \end{aligned}$ | Pos Time Adj By Sheet: 1K FIN | 11-20 Sheets | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 154- \\ & 003 \end{aligned}$ | Pos Time Adj By Sheet: 1K FIN | 21-30 Sheets | ENG | [ -100 to $100 / 0 /$ $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 154- \\ & 004 \end{aligned}$ | Pos Time Adj By Sheet: 1K FIN | 31-40 Sheets | ENG | [ -100 to $100 / 0 /$ <br> $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 154- \\ & 005 \end{aligned}$ | Pos Time Adj By Sheet: 1K FIN | 41-50 Sheets | ENG | $\text { [ }-100 \text { to } 100 / 0 \text { / }$ <br> $10 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 155- \\ & 001 \end{aligned}$ | Paper Guide Position Adj: 1K FIN |  | ENG | $\begin{aligned} & {[-10 \text { to } 10 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 156- \\ & 001 \end{aligned}$ | Paper Guide Rtrct. Timming: 1K FIN |  | ENG | $\text { [ }-50 \text { to } 50 / 0 \text { / }$ <br> 5 mm ] |
| $\begin{aligned} & 6- \\ & 157- \\ & 001 \end{aligned}$ | Paper Guide Move Timming: 1K FIN |  | ENG | $\text { [ }-50 \text { to } 50 / 0 \text { / }$ <br> $5 \mathrm{msec}]$ |
| $\begin{aligned} & 6- \\ & 158- \\ & 001 \end{aligned}$ | Bind Speed Setting: 1K FIN_HY |  | ENG | $\begin{aligned} & {[1 \text { to } 3 / 3 / 2]} \\ & \text { 1: Bind Speed } \\ & \text { 1(Low) } \\ & \text { 3: Bind Speed } \\ & \text { 3(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 159- \\ & 001 \end{aligned}$ | Bind Times: 1K FIN_HY |  | ENG* | $\begin{aligned} & {[1 \text { to } 2 / 2 / 1]} \\ & \text { 1: Once } \\ & \text { 2: Twice } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 160- \\ & 004 \end{aligned}$ | Finisher Free Run: 1K FIN | Free Run 4 | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 163- \\ & 001 \end{aligned}$ | Use Paper Guide 1KShtFIN | Large Size | ENG | $\begin{aligned} & {[0 \text { to } 1 / 1 / 1]} \\ & 0: \text { Guide On } \\ & \text { 1: Guide Off } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 163- \\ & 002 \end{aligned}$ | Use Paper Guide 1KShtFIN | Small Size | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Guide On } \\ & \text { 1: Guide Off } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 164- \\ & 001 \end{aligned}$ | NV Adj. Data Mod. 1KShtFIN | Jogger Pos. Factory Adj. | ENG | $\begin{aligned} & {[-1.5 \text { to } 1.5 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 164- \\ & 002 \end{aligned}$ | NV Adj. Data Mod. 1KShtFIN | Stapling Pos. Factory Adj. | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 164- \\ & 003 \end{aligned}$ | NV Adj. Data Mod. 1KShtFIN HY | Stapling Pos. Factory Adj. (HY) | ENG | $\begin{aligned} & {[-2.1 \text { to } 2.1 / 0 /} \\ & 0.3 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 164- \\ & 004 \end{aligned}$ | NV Adj. Data Mod. 1KShtFIN HY | Stapleless Stapling Pos. <br> Factory Adj. | ENG | $\begin{aligned} & {[-2.1 \text { to } 2.1 / 0 /} \\ & 0.3 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 164- \\ & 005 \end{aligned}$ | NV Adj. Data Mod. 1KShtFIN | Folding Pos. Factory Adj. | ENG | $\begin{aligned} & {[-2 \text { to } 2 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 180- \\ & 001 \end{aligned}$ | M-ScanBindPosAdj:NoStplBindFIN |  | ENG | $\begin{aligned} & {[-1 \text { to } 1 / 0 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 181- \\ & 001 \end{aligned}$ | BindSpeedSetting:NoStplBindFIN |  | ENG | $\begin{aligned} & {[1 \text { to } 3 / 3 / 2]} \\ & \text { 1: Bind Spd1(L) } \\ & \text { 3: Bind Speed } 3 \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 182- \\ & 001 \end{aligned}$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:297.0457.2 mm , Thick(106$300 \mathrm{~g} / \mathrm{m} 2$ ) | ENG | [ 1 to $5 / 2 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 182- \\ & 002 \end{aligned}$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:297.0$457.2 \mathrm{~mm}, \operatorname{Plain}(60-105 \mathrm{~g} / \mathrm{m} 2)$ | ENG | [ 1 to $5 / 2 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 5(High) |
| $\begin{aligned} & 6- \\ & 182- \\ & 003 \end{aligned}$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:297.0- <br> 457.2 mm , $\operatorname{Thin}(52-59 \mathrm{~g} / \mathrm{m} 2)$ | ENG | [1 to $5 / 4 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| 6- 182- $004$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:210.0- <br> 296.9 mm , Thick(106- <br> $300 \mathrm{~g} / \mathrm{m} 2$ ) | ENG | [ 1 to $5 / 2 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| 6- 182- $005$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:210.0- <br> $296.9 \mathrm{~mm}, \operatorname{Plain}(60-105 \mathrm{~g} / \mathrm{m} 2)$ | ENG | [ 1 to $5 / 2 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| 6- 182- $006$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:210.0- <br> 296.9 mm , $\operatorname{Thin}(52-59 \mathrm{~g} / \mathrm{m} 2)$ | ENG | [ 1 to $5 / 4 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 182- \\ & 007 \end{aligned}$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:148.0-209.9mm,Thick(106- $300 \mathrm{~g} / \mathrm{m} 2)$ | ENG | [ 1 to $5 / 2 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| 6- | ExitSpeedSwitch:NoStplBindFIN | PaperLength:148.0- | ENG | [ 1 to $5 / 2 / 1$ ] |


| $\begin{gathered} \mathrm{SP} \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 182- \\ & 008 \end{aligned}$ |  | 209.9mm,Plain( $60-105 \mathrm{~g} / \mathrm{m} 2)$ |  | 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 182- \\ & 009 \end{aligned}$ | ExitSpeedSwitch:NoStplBindFIN | PaperLength:148.0- <br> 209.9 mm , $\operatorname{Thin}(52-59 \mathrm{~g} / \mathrm{m} 2)$ | ENG | [ 1 to $5 / 4 / 1$ ] <br> 1: Exit Spd1(L) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 186- \\ & 001 \end{aligned}$ | BindTimes NoStplBindFIN |  | ENG* | $\begin{aligned} & {[1 \text { to } 2 / 2 / 1]} \\ & \text { 1: Once } \\ & \text { 2: Twice } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 001 \end{aligned}$ | Z-Fold:FineAdj 1st | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 002 \end{aligned}$ | Z-Fold:FineAdj 1st | B4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 003 \end{aligned}$ | Z-Fold:FineAdj 1st | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 004 \end{aligned}$ | Z-Fold:FineAdj 1st | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 005 \end{aligned}$ | Z-Fold:FineAdj 1st | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 301- \\ & 006 \end{aligned}$ | Z-Fold:FineAdj 1st | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 007 \end{aligned}$ | Z-Fold:FineAdj 1st | 8K SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 301- \\ & 008 \end{aligned}$ | Z-Fold:FineAdj 1st | Oficio SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 301- \\ & 009 \end{aligned}$ | Z-Fold:FineAdj 1st | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 001 \end{aligned}$ | Z-Fold:FineAdj 2nd | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 002 \end{aligned}$ | Z-Fold:FineAdj 2nd | B4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 003 \end{aligned}$ | Z-Fold:FineAdj 2nd | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 004 \end{aligned}$ | Z-Fold:FineAdj 2nd | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 005 \end{aligned}$ | Z-Fold:FineAdj 2nd | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 006 \end{aligned}$ | Z-Fold:FineAdj 2nd | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 007 \end{aligned}$ | Z-Fold:FineAdj 2nd | 8K SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 008 \end{aligned}$ | Z-Fold:FineAdj 2nd | Oficio SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 302- \\ & 009 \end{aligned}$ | Z-Fold:FineAdj 2nd | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.2 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 001 \end{aligned}$ | Equal 1/2:FineAdjFld | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | $\begin{gathered} \text { [Min to } \\ \text { Max/Init./Step] } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline 6- \\ & 304- \\ & 002 \end{aligned}$ | Equal 1/2:FineAdjFld | B4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 003 \end{aligned}$ | Equal 1/2:FineAdjFld | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 004 \end{aligned}$ | Equal 1/2:FineAdjFld | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 005 \end{aligned}$ | Equal 1/2:FineAdjFld | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 006 \end{aligned}$ | Equal 1/2:FineAdjFld | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 007 \end{aligned}$ | Equal 1/2:FineAdjFld | 8K SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 008 \end{aligned}$ | Equal 1/2:FineAdjFld | "12x18" | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 009 \end{aligned}$ | Equal 1/2:FineAdjFld | Oficio SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 304- \\ & 010 \end{aligned}$ | Equal 1/2:FineAdjFld | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 307- \\ & 001 \end{aligned}$ | Equal 3rds:Fine Adj 1st | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 307- \\ & 002 \end{aligned}$ | Equal 3rds:Fine Adj 1st | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 307- \\ & 003 \end{aligned}$ | Equal 3rds:Fine Adj 1st | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 307- \\ & 004 \end{aligned}$ | Equal 3rds:Fine Adj 1st | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 307- \\ & 005 \end{aligned}$ | Equal 3rds:Fine Adj 1st | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 307- \\ & 006 \end{aligned}$ | Equal 3rds:Fine Adj 1st | Oficio SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 307- \\ & 007 \end{aligned}$ | Equal 3rds:Fine Adj 1st | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 001 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 002 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 003 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 004 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 005 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 006 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | Oficio SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 308- \\ & 007 \end{aligned}$ | Equal 3rds:Fine Adj 2nd | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 311- \\ & 001 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 311- \\ & 002 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 311- \\ & 003 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 311- \\ & 004 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 311- \\ & 005 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 311- \\ & 006 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | Oficio SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 311- \\ & 007 \end{aligned}$ | 3rds 1 Flap:Fine Adj 1st | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 312- \\ & 001 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | A3 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 312- \\ & 002 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | DLT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 312- \\ & 003 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | A4 SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 312- \\ & 004 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | LG SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 312- \\ & 005 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | LT SEF | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 312- \\ & 006 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | Oficio-T | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | $\begin{gathered} \text { [Min to } \\ \text { Max/Init./Step] } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 312- \\ & 007 \end{aligned}$ | 3rds 1 Flap:Fine Adj 2nd | Other | ENG | $\begin{aligned} & {[-4 \text { to } 4 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 001 \end{aligned}$ | Registration Buckle Adjust | A3 SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 002 \end{aligned}$ | Registration Buckle Adjust | B4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 003 \end{aligned}$ | Registration Buckle Adjust | A4 SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 004 \end{aligned}$ | Registration Buckle Adjust | DLT SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 005 \end{aligned}$ | Registration Buckle Adjust | LG SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 006 \end{aligned}$ | Registration Buckle Adjust | LT SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 007 \end{aligned}$ | Registration Buckle Adjust | 8K SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 008 \end{aligned}$ | Registration Buckle Adjust | "12x18" | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 009 \end{aligned}$ | Registration Buckle Adjust | Oficio SEF | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 313- \\ & 010 \end{aligned}$ | Registration Buckle Adjust | Other | ENG | $\begin{aligned} & {[0 \text { to } 5 / 2 /} \\ & 0.5 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 314- \\ & 001 \end{aligned}$ | Registration Buckle Select |  | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Mode1 } \\ & \text { 1: Mode2 } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 315- \\ & 001 \end{aligned}$ | Set Number of Creasing |  | ENG | $\begin{aligned} & {[0 \text { to } 4 / 1 /} \\ & 1 \text { times] } \\ & 0:-1 \\ & 1: 0 \\ & 2: 1 \\ & 3: 2 \\ & 4: 3 \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 316- \\ & 001 \end{aligned}$ | Silent Mode Select |  | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { OFF } \\ & 1: \text { ON } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 317- \\ & 001 \end{aligned}$ | Not Fold Exit Speed | Plain: Large-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 2 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 317- \\ & 002 \end{aligned}$ | Not Fold Exit Speed | Plain: Middle-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 2 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High }) \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 317- \\ & 003 \end{aligned}$ | Not Fold Exit Speed | Plain: Small-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 1 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 317- \\ & 004 \end{aligned}$ | Not Fold Exit Speed | Thick: Large-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1 \text { ] }} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & \hline 6- \\ & 317- \\ & 005 \end{aligned}$ | Not Fold Exit Speed | Thick: Middle-Size | ENG | [ 1 to $5 / 3 / 1$ ] <br> 1: Exit Speed 1(Low) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 317- \\ & 006 \end{aligned}$ | Not Fold Exit Speed | Thick: Small-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 1 / 1]} \\ & 1: \text { Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 317- \\ & 007 \end{aligned}$ | Not Fold Exit Speed | Thin: Large-Size | ENG | [ 1 to $5 / 4 / 1$ ] <br> 1: Exit Speed 1(Low) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 317- \\ & 008 \end{aligned}$ | Not Fold Exit Speed | Thin: Middle-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 4 / 1]} \\ & 1: \text { Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & 5(\text { High }) \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6- \\ & 317- \\ & 009 \end{aligned}$ | Not Fold Exit Speed | Thin: Small-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 1 / 1]} \\ & 1: \text { Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 318- \\ & 001 \end{aligned}$ | Z-Fold Exit Speed | Plain: Large-Size | ENG | [ 1 to $5 / 3 / 1$ ] <br> 1: Exit Speed 1(Low) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 318- \\ & 002 \end{aligned}$ | Z-Fold Exit Speed | Plain: Middle-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 318- \\ & 003 \end{aligned}$ | Z-Fold Exit Speed | Plain: Small-Size | ENG | [1 to $5 / 3 / 1$ ] <br> 1: Exit Speed 1(Low) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 319- \\ & 001 \end{aligned}$ | Equal 1/2 Exit Speed | Plain: Large-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & 1: \text { Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \end{aligned}$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & \hline 6- \\ & 319- \\ & 002 \end{aligned}$ | Equal 1/2 Exit Speed | Plain: Middle-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 319- \\ & 003 \end{aligned}$ | Equal 1/2 Exit Speed | Plain: Small-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & \hline 6- \\ & 320- \\ & 001 \end{aligned}$ | Equal 3rds Exit Speed | Plain: Large-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 320- \\ & 002 \end{aligned}$ | Equal 3rds Exit Speed | Plain: Middle-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| 6- 320- | Equal 3rds Exit Speed | Plain: Small-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & 1: \text { Exit Speed } \end{aligned}$ |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | $\begin{gathered} \text { [Min to } \\ \text { Max/Init./Step] } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  | 1(Low) <br> 2: Exit Speed 2 <br> 3: Exit Speed 3 <br> 4: Exit Speed 4 <br> 5: Exit Speed <br> 5(High) |
| $\begin{aligned} & 6- \\ & 321- \\ & 001 \end{aligned}$ | 3rds 1 Flap Exit Fold | Plain: Large-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & 1: \text { Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & 5(\text { High }) \\ & \hline \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 321- \\ & 002 \end{aligned}$ | 3rds 1 Flap Exit Fold | Plain: Middle-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & \text { 5(High) } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 321- \\ & 003 \end{aligned}$ | 3rds 1 Flap Exit Fold | Plain: Small-Size | ENG | $\begin{aligned} & {[1 \text { to } 5 / 3 / 1]} \\ & \text { 1: Exit Speed } \\ & \text { 1(Low) } \\ & \text { 2: Exit Speed } 2 \\ & \text { 3: Exit Speed } 3 \\ & \text { 4: Exit Speed } 4 \\ & \text { 5: Exit Speed } \\ & 5(\text { High }) \\ & \hline \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 324- \\ & 001 \end{aligned}$ | NV Adj. Data Mod. | 1st Fold Pos. Factory Setting | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 324- \\ & 002 \end{aligned}$ | NV Adj. Data Mod. | 2nd Fold Pos. Factory Setting | ENG | $\begin{aligned} & {[-3 \text { to } 3 / 0 /} \\ & 0.1 \mathrm{~mm}] \end{aligned}$ |
| 6- | NV Adj. Data Mod. | Crease Pos. Factory Setting | ENG | [ -3 to $3 / 0 /$ |


| SP <br> No. | Large Category | Small Category | ENG or CTL | [Min to <br> Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 324- \\ & 003 \end{aligned}$ |  |  |  | 0.1 mm ] |
| $\begin{aligned} & 6- \\ & 325- \\ & 001 \end{aligned}$ | Folder. Free Run | Free Run1(Not Fold) | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 325- \\ & 002 \end{aligned}$ | Folder. Free Run | Free Run2(Z-Fold) | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 325- \\ & 003 \end{aligned}$ | Folder. Free Run | Free Run3(Equal 1/2) | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 325- \\ & 004 \end{aligned}$ | Folder. Free Run | Free Run4(Equal 3rds) | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 325- \\ & 005 \end{aligned}$ | Folder. Free Run | Free Run5(3rds 1 Flap ) | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 326- \\ & 001 \end{aligned}$ | Z-Fold Full Detact Adjust | Large Size | ENG | [ -1 to $1 / 0 / 0.2 \mathrm{v}$ ] |
| $\begin{aligned} & 6- \\ & 326- \\ & 002 \end{aligned}$ | Z-Fold Full Detact Adjust | Middle Size | ENG | [ -1 to $1 / 0 / 0.2 \mathrm{v}$ ] |
| $\begin{aligned} & 6- \\ & 326- \\ & 003 \end{aligned}$ | Z-Fold Full Detact Adjust | Small Size | ENG | [ -1 to $1 / 0 / 0.2 \mathrm{v}$ ] |
| $\begin{aligned} & 6- \\ & 327- \\ & 001 \end{aligned}$ | Equal 1/2 Full Detact Adjust | Large Size | ENG | [ -1 to $1 / 0 / 0.2 \mathrm{v}$ ] |
| $\begin{aligned} & 6- \\ & 327- \\ & 002 \end{aligned}$ | Equal 1/2 Full Detact Adjust | Middle Size | ENG | [ -1 to $1 / 0 / 0.2 \mathrm{v}$ ] |
| $\begin{aligned} & 6- \\ & 327- \\ & 003 \end{aligned}$ | Equal 1/2 Full Detact Adjust | Small Size | ENG | [ -1 to $1 / 0 / 0.2 \mathrm{v}$ ] |
| 6- | 1-pass Stamp Unit |  | ENG* | [ 0 to $1 / 0 / 1$ ] |


| $\begin{gathered} \text { SP } \\ \text { No. } \end{gathered}$ | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 801- \\ & 001 \end{aligned}$ |  |  |  | $\begin{aligned} & \text { 0: NO } \\ & \text { 1: YES } \end{aligned}$ |
| $\begin{aligned} & 6- \\ & 830- \\ & 001 \end{aligned}$ | Extra | Staples 0 to 50 (Initial:0) | CTL* | [ 0 to $50 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 830- \\ & 002 \end{aligned}$ | Extra | Saddles 0 to 50 (Initial:0) | CTL* | [ 0 to $50 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 830- \\ & 003 \end{aligned}$ | Extra | Half-Fold 0 to 50 (Initial:0) | CTL* | [ 0 to $50 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 830- \\ & 005 \end{aligned}$ | Extra | StaplessStaples 0 to 50 (Initial:0) | CTL* | [ 0 to $50 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 890- \\ & 001 \end{aligned}$ | Function Enabled | Z-Fold 0:No <br> Punch 1:Punching OK | CTL | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 901- \\ & 001 \end{aligned}$ | ADF Move Setting |  | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 6- \\ & 901- \\ & 002 \end{aligned}$ | ADF Move Setting | Stacking Priority Adjustment | ENG | [ 0 to $1 / 0 / 1$ ] |

## SP Group 7000

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 7-401- \\ & 001 \end{aligned}$ | Total SC | SC Counter | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-401- \\ & 002 \end{aligned}$ | Total SC | Total SC Counter | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 001 \end{aligned}$ | SC History | Latest | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 002 \end{aligned}$ | SC History | Latest 1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 003 \end{aligned}$ | SC History | Latest 2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 004 \end{aligned}$ | SC History | Latest 3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 005 \end{aligned}$ | SC History | Latest 4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 006 \end{aligned}$ | SC History | Latest 5 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 007 \end{aligned}$ | SC History | Latest 6 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 008 \end{aligned}$ | SC History | Latest 7 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 009 \end{aligned}$ | SC History | Latest 8 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-403- \\ & 010 \end{aligned}$ | SC History | Latest 9 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 001 \end{aligned}$ | Software Error History | Latest | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 002 \end{aligned}$ | Software Error History | Latest 1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 003 \end{aligned}$ | Software Error History | Latest 2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 004 \end{aligned}$ | Software Error History | Latest 3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 005 \end{aligned}$ | Software Error History | Latest 4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 7-404- | Software Error History | Latest 5 | CTL* | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 006 |  |  |  |  |
| $\begin{aligned} & 7-404- \\ & 007 \end{aligned}$ | Software Error History | Latest 6 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 008 \end{aligned}$ | Software Error History | Latest 7 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 009 \end{aligned}$ | Software Error History | Latest 8 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-404- \\ & 010 \end{aligned}$ | Software Error History | Latest 9 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-502- \\ & 001 \end{aligned}$ | Total Paper Jam | Jam Counter | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-502- \\ & 002 \end{aligned}$ | Total Paper Jam | Total Jam Counter | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-503- \\ & 001 \end{aligned}$ | Total Original Jam | Original Jam Counter | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-503- \\ & 002 \end{aligned}$ | Total Original Jam | Total Original Jam Counter | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 001 \end{aligned}$ | Paper Jam Location | At Power On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 003 \end{aligned}$ | Paper Jam Location | Tray1: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 004 \end{aligned}$ | Paper Jam Location | Tray2: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 005 \end{aligned}$ | Paper Jam Location | Tray3: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 006 \end{aligned}$ | Paper Jam Location | Tray4: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 007 \end{aligned}$ | Paper Jam Location | LCT: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 008 \end{aligned}$ | Paper Jam Location | Bypass: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 009 \end{aligned}$ | Paper Jam Location | Duplex: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 010 \end{aligned}$ | Paper Jam Location | Timing: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-504- | Paper Jam Location | Transport Sn1: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  |  |
| $\begin{aligned} & 7-504- \\ & 012 \end{aligned}$ | Paper Jam Location | Transport Sn2: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 013 \end{aligned}$ | Paper Jam Location | Vertical Trans. Sn3: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 014 | Paper Jam Location | Vertical Trans. Sn4: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 015 \end{aligned}$ | Paper Jam Location | LCT Transport Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 017 | Paper Jam Location | Registration Sn: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-504- <br> 018 | Paper Jam Location | Fusing Ent Sn: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 019 \end{aligned}$ | Paper Jam Location | Fusing Ext Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 020 \end{aligned}$ | Paper Jam Location | Paper Ext Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 021 \end{aligned}$ | Paper Jam Location | Bridge Tray Exit Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 022 \end{aligned}$ | Paper Jam Location | Bridge Relay Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 024 \end{aligned}$ | Paper Jam Location | Inverter Sn : On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 025 \end{aligned}$ | Paper Jam Location | Duplex Exit Sn: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 027 \end{aligned}$ | Paper Jam Location | Duplex Entrance Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 051 \end{aligned}$ | Paper Jam Location | Tray1: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 052 \end{aligned}$ | Paper Jam Location | Tray2: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 053 \end{aligned}$ | Paper Jam Location | Tray3: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 054 | Paper Jam Location | Tray4: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-504- | Paper Jam Location | LCT Transport Sn: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 055 |  |  |  |  |
| $\begin{aligned} & 7-504- \\ & 057 \end{aligned}$ | Paper Jam Location | Registratin Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 060 \end{aligned}$ | Paper Jam Location | Paper Ext Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 061 \end{aligned}$ | Paper Jam Location | Bridge Tray Ext Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 062 \end{aligned}$ | Paper Jam Location | Bridge Relay Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 064 \end{aligned}$ | Paper Jam Location | Inverter Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 065 \end{aligned}$ | Paper Jam Location | Duplex Ext Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 067 \end{aligned}$ | Paper Jam Location | Duplex Ent Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 100 \end{aligned}$ | Paper Jam Location | Entrance Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 101 \end{aligned}$ | Paper Jam Location | Entrance Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 102 \end{aligned}$ | Paper Jam Location | Transport Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 103 \end{aligned}$ | Paper Jam Location | Transport Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 104 | Paper Jam Location | Paper Exit | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 105 \end{aligned}$ | Paper Jam Location | Front Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 106 \end{aligned}$ | Paper Jam Location | Rear Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 107 \end{aligned}$ | Paper Jam Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 108 \end{aligned}$ | Paper Jam Location | Positioning Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 109 \end{aligned}$ | Paper Jam Location | Exit Guide Plate Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- | Paper Jam Location | Stapler Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 110 |  |  |  |  |
| $\begin{aligned} & 7-504- \\ & 111 \end{aligned}$ | Paper Jam Location | Tray Lift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 112 \end{aligned}$ | Paper Jam Location | Staple Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 113 \end{aligned}$ | Paper Jam Location | Stack Height Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 114 \end{aligned}$ | Paper Jam Location | Punch Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 115 | Paper Jam Location | Punch Move Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 116 \end{aligned}$ | Paper Jam Location | S-to-S Registration Move <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 148 \end{aligned}$ | Paper Jam Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 149 \end{aligned}$ | Paper Jam Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 150 \end{aligned}$ | Paper Jam Location | Entrance Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 151 \end{aligned}$ | Paper Jam Location | Entrance Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 152 \end{aligned}$ | Paper Jam Location | Horizontal Transport Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 153 \end{aligned}$ | Paper Jam Location | Horizontal Transport Sensor: <br> Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 154 \end{aligned}$ | Paper Jam Location | Switchback Transport Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 155 \end{aligned}$ | Paper Jam Location | Switchback Transport Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 156 \end{aligned}$ | Paper Jam Location | Proof Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 157 | Paper Jam Location | Proof Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 158 \end{aligned}$ | Paper Jam Location | Shift Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- | Paper Jam Location | Shift Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 159 |  |  |  |  |
| $\begin{aligned} & 7-504- \\ & 160 \end{aligned}$ | Paper Jam Location | Booklet Stapler Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 161 \end{aligned}$ | Paper Jam Location | Booklet Stapler Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 162 \end{aligned}$ | Paper Jam Location | Enrance Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 163 \end{aligned}$ | Paper Jam Location | Horizontal Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 164 \end{aligned}$ | Paper Jam Location | Pre-Stack Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 165 | Paper Jam Location | ITB Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 166 \end{aligned}$ | Paper Jam Location | Exit Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 167 \end{aligned}$ | Paper Jam Location | TE Press Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 168 \end{aligned}$ | Paper Jam Location | Ext Plate Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 169 \end{aligned}$ | Paper Jam Location | Punching Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 170 \end{aligned}$ | Paper Jam Location | Punch Move Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 171 \end{aligned}$ | Paper Jam Location | S-to-S Registration Move <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 172 \end{aligned}$ | Paper Jam Location | Lower Junction Solenoid Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 173 \end{aligned}$ | Paper Jam Location | Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 174 \end{aligned}$ | Paper Jam Location | Positioning Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 175 \end{aligned}$ | Paper Jam Location | Feed Out Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 176 \end{aligned}$ | Paper Jam Location | Corner Stapler Move Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-504- | Paper Jam Location | Corner Stapler Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 177 |  |  |  |  |
| $\begin{aligned} & 7-504- \\ & 178 \end{aligned}$ | Paper Jam Location | Saddle Stitch Stapler Jogger <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 179 \end{aligned}$ | Paper Jam Location | Saddle Stitch Stapler Jog SOL <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 180 \end{aligned}$ | Paper Jam Location | Saddle Stitch Stapler Standard Fence Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 181 \end{aligned}$ | Paper Jam Location | Saddle Stitch Stapler Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 182 \end{aligned}$ | Paper Jam Location | Dynamic Roller Transport Mt | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 183 \end{aligned}$ | Paper Jam Location | Folder Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 184 \end{aligned}$ | Paper Jam Location | Flat Fold Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 185 \end{aligned}$ | Paper Jam Location | Output Tray Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 186 \end{aligned}$ | Paper Jam Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-504- <br> 187 | Paper Jam Location | Shift Tray Jogger Front Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 188 \end{aligned}$ | Paper Jam Location | Shift Tray Jogger Rear Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 189 \end{aligned}$ | Paper Jam Location | Shift Tray Jogger Retraction <br> Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 190 \end{aligned}$ | Paper Jam Location | Stack Roller Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 191 \end{aligned}$ | Paper Jam Location | Leading Edge Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 192 \end{aligned}$ | Paper Jam Location | Positioning Roller Transport <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 193 \end{aligned}$ | Paper Jam Location | Paper Guide Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-504- \\ & 194 \end{aligned}$ | Paper Jam Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-504- | Paper Jam Location | Entrance: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 200 |  |  |  |  |
| $\begin{aligned} & 7-504- \\ & 201 \end{aligned}$ | Paper Jam Location | Entrance: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 202 \end{aligned}$ | Paper Jam Location | Proof Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 203 \end{aligned}$ | Paper Jam Location | Proof Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 204 \end{aligned}$ | Paper Jam Location | Right Relay: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 205 \end{aligned}$ | Paper Jam Location | Left Relay: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 206 \end{aligned}$ | Paper Jam Location | Left Relay: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 207 \end{aligned}$ | Paper Jam Location | Shift Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 208 \end{aligned}$ | Paper Jam Location | Shift Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 209 \end{aligned}$ | Paper Jam Location | Stack: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 210 \end{aligned}$ | Paper Jam Location | TE Stopper: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 211 \end{aligned}$ | Paper Jam Location | TE Stopper: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 212 \\ & \hline \end{aligned}$ | Paper Jam Location | Booklet Folder Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 213 \end{aligned}$ | Paper Jam Location | Booklet Folder Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 220 \end{aligned}$ | Paper Jam Location | Entrance Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 221 \end{aligned}$ | Paper Jam Location | Proof Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 222 \end{aligned}$ | Paper Jam Location | Exit Transport/ Positioning Roller Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-504- \\ & 223 \end{aligned}$ | Paper Jam Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-504- | Paper Jam Location | Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

\left.| SP No. | Large Category | Small Category | ENG or | [Min to Max/Init./Step] |
| :--- | :--- | :--- | :--- | :--- |
| CTL |  |  |  |  |$\right]$


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 013 |  |  |  |  |
| $\begin{aligned} & 7-505- \\ & 014 \end{aligned}$ | Original Jam Detection | Skew Correction Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 015 \end{aligned}$ | Original Jam Detection | Scanning Entrance Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 016 \end{aligned}$ | Original Jam Detection | Registration Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 017 \end{aligned}$ | Original Jam Detection | Original Exit Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 063 \end{aligned}$ | Original Jam Detection | Separation Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 064 \end{aligned}$ | Original Jam Detection | Skew Correction Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 065 \end{aligned}$ | Original Jam Detection | Scanning Entrance Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 066 \end{aligned}$ | Original Jam Detection | Registration Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 067 \end{aligned}$ | Original Jam Detection | Original Exit Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-505- \\ & 239 \end{aligned}$ | Original Jam Detection | Original Pull | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 005 \end{aligned}$ | Jam Count by Paper Size | A4 LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-506006 | Jam Count by Paper Size | A5 LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 014 \end{aligned}$ | Jam Count by Paper Size | B5 LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 038 \end{aligned}$ | Jam Count by Paper Size | LT LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 044 \end{aligned}$ | Jam Count by Paper Size | HLT LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 132 \end{aligned}$ | Jam Count by Paper Size | A3 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 133 \end{aligned}$ | Jam Count by Paper Size | A4 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-506- | Jam Count by Paper Size | A5 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 134 |  |  |  |  |
| $\begin{aligned} & 7-506- \\ & 141 \end{aligned}$ | Jam Count by Paper Size | B4 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 142 \end{aligned}$ | Jam Count by Paper Size | B5 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 160 \end{aligned}$ | Jam Count by Paper Size | DLT SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 164 \end{aligned}$ | Jam Count by Paper Size | LG SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 166 \end{aligned}$ | Jam Count by Paper Size | LT SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-506- \\ & 172 \end{aligned}$ | Jam Count by Paper Size | HLT SEF | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-506- \\ & 255 \end{aligned}$ | Jam Count by Paper Size | Others | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 001 \end{aligned}$ | Plotter Jam History | Latest | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 002 \end{aligned}$ | Plotter Jam History | Latest 1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 003 \end{aligned}$ | Plotter Jam History | Latest 2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 004 \end{aligned}$ | Plotter Jam History | Latest 3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 005 \end{aligned}$ | Plotter Jam History | Latest 4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 006 \end{aligned}$ | Plotter Jam History | Latest 5 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 007 \end{aligned}$ | Plotter Jam History | Latest 6 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 008 \end{aligned}$ | Plotter Jam History | Latest 7 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 009 \end{aligned}$ | Plotter Jam History | Latest 8 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-507- \\ & 010 \end{aligned}$ | Plotter Jam History | Latest 9 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 7-508- | Original Jam History | Latest | CTL* | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 7-508- \\ & 002 \end{aligned}$ | Original Jam History | Latest 1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 003 \end{aligned}$ | Original Jam History | Latest 2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 004 \end{aligned}$ | Original Jam History | Latest 3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 005 \end{aligned}$ | Original Jam History | Latest 4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 006 \end{aligned}$ | Original Jam History | Latest 5 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 7-508- | Original Jam History | Latest 6 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 008 \end{aligned}$ | Original Jam History | Latest 7 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 009 \end{aligned}$ | Original Jam History | Latest 8 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-508- \\ & 010 \end{aligned}$ | Original Jam History | Latest 9 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 045 \end{aligned}$ | Paper Jam Location | Entrance: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 046 \end{aligned}$ | Paper Jam Location | Entrance: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 047 \end{aligned}$ | Paper Jam Location | Original Exit Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 048 \end{aligned}$ | Paper Jam Location | Original Exit Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 049 \end{aligned}$ | Paper Jam Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 050 \end{aligned}$ | Paper Jam Location | Junction Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 051 \end{aligned}$ | Paper Jam Location | Exit Pressure Release Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 052 \end{aligned}$ | Paper Jam Location | Staple Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-509- | Paper Jam Location | Feed-Out: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 053 |  |  |  |  |
| $\begin{aligned} & 7-509- \\ & 093 \end{aligned}$ | Paper Jam Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 094 \end{aligned}$ | Paper Jam Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 095 \end{aligned}$ | Paper Jam Location | Registration: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 096 \end{aligned}$ | Paper Jam Location | Registration: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 097 \end{aligned}$ | Paper Jam Location | 1st 2-direction Paper Feed SN: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-509- \\ & 098 \end{aligned}$ | Paper Jam Location | 1st 2-direction Paper Feed SN: <br> Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-509- \\ & 099 \end{aligned}$ | Paper Jam Location | 2nd 2-direction Paper Feed SN: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 100 \end{aligned}$ | Paper Jam Location | 2nd 2-direction Paper Feed SN: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-509- \\ & 101 \end{aligned}$ | Paper Jam Location | Additional Fold: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 102 \end{aligned}$ | Paper Jam Location | Additional Fold: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 103 \end{aligned}$ | Paper Jam Location | Top Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-509- <br> 104 | Paper Jam Location | Top Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 105 \end{aligned}$ | Paper Jam Location | Bridge Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 106 \end{aligned}$ | Paper Jam Location | Bridge Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 115 \end{aligned}$ | Paper Jam Location | Registration Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-509- \\ & 116 \end{aligned}$ | Paper Jam Location | Folding Junction Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 117 \end{aligned}$ | Paper Jam Location | Transport Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-509- | Paper Jam Location | Folding Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 118 |  |  |  |  |
| $\begin{aligned} & 7-509- \\ & 119 \end{aligned}$ | Paper Jam Location | 2nd 2-direction Paper Feed Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 120 \end{aligned}$ | Paper Jam Location | Additional Folding Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 143 \end{aligned}$ | Paper Jam Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-509- \\ & 144 \end{aligned}$ | Paper Jam Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 001 \end{aligned}$ | Paper Jam Count by <br> Location | At Power On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 003 \end{aligned}$ | Paper Jam Count by Location | Tray1: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 004 \end{aligned}$ | Paper Jam Count by <br> Location | Tray2: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by Location | Tray3: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 006 \end{aligned}$ | Paper Jam Count by <br> Location | Tray4: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 007 \end{aligned}$ | Paper Jam Count by <br> Location | LCT: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 008 \end{aligned}$ | Paper Jam Count by Location | Bypass: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 009 \end{aligned}$ | Paper Jam Count by <br> Location | Duplex: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 010 \end{aligned}$ | Paper Jam Count by Location | Timing: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 011 \end{aligned}$ | Paper Jam Count by <br> Location | Transport Sn1: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 012 \end{aligned}$ | Paper Jam Count by Location | Transport Sn2: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 013 \end{aligned}$ | Paper Jam Count by Location | Vertical Trans. Sn3: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- <br> 014 | Paper Jam Count by Location | Vertical Trans. Sn4: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by | LCT Transport Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 015 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 017 \end{aligned}$ | Paper Jam Count by <br> Location | Registration Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 018 \end{aligned}$ | Paper Jam Count by <br> Location | Fusing Ent Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 019 \end{aligned}$ | Paper Jam Count by <br> Location | Fusing Ext Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 020 \end{aligned}$ | Paper Jam Count by <br> Location | Paper Ext Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 021 \end{aligned}$ | Paper Jam Count by <br> Location | Bridge Tray Exit Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 022 \end{aligned}$ | Paper Jam Count by <br> Location | Bridge Relay Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 024 \end{aligned}$ | Paper Jam Count by <br> Location | Inverter Sn : On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 025 \end{aligned}$ | Paper Jam Count by <br> Location | Duplex Exit Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 027 \end{aligned}$ | Paper Jam Count by Location | Duplex Entrance Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 051 \end{aligned}$ | Paper Jam Count by Location | Trayl: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 052 \end{aligned}$ | Paper Jam Count by Location | Tray2: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 053 \end{aligned}$ | Paper Jam Count by Location | Tray3: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 054 \end{aligned}$ | Paper Jam Count by Location | Tray4: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 055 \end{aligned}$ | Paper Jam Count by Location | LCT Transport Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 057 \end{aligned}$ | Paper Jam Count by <br> Location | Registratin Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 060 \end{aligned}$ | Paper Jam Count by <br> Location | Paper Ext Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- <br> 061 | Paper Jam Count by Location | Bridge Tray Ext Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by | Bridge Relay Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 062 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 064 \end{aligned}$ | Paper Jam Count by <br> Location | Inverter Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 065 \end{aligned}$ | Paper Jam Count by <br> Location | Duplex Ext Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 067 \end{aligned}$ | Paper Jam Count by Location | Duplex Ent Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 100 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 101 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance Sn: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 102 \end{aligned}$ | Paper Jam Count by <br> Location | Transport Sn: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 103 \end{aligned}$ | Paper Jam Count by Location | Transport Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 104 \end{aligned}$ | Paper Jam Count by <br> Location | Paper Exit | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 105 \end{aligned}$ | Paper Jam Count by <br> Location | Front Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 106 \end{aligned}$ | Paper Jam Count by <br> Location | Rear Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 107 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 108 \end{aligned}$ | Paper Jam Count by Location | Positioning Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 109 \end{aligned}$ | Paper Jam Count by <br> Location | Exit Guide Plate Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 110 \end{aligned}$ | Paper Jam Count by Location | Stapler Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 111 \end{aligned}$ | Paper Jam Count by <br> Location | Tray Lift Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 112 \end{aligned}$ | Paper Jam Count by <br> Location | Staple Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 113 \end{aligned}$ | Paper Jam Count by <br> Location | Stack Height Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-514- | Paper Jam Count by | Punch Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 114 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 115 \end{aligned}$ | Paper Jam Count by <br> Location | Punch Move Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 116 \end{aligned}$ | Paper Jam Count by <br> Location | S-to-S Registration Move <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 148 \end{aligned}$ | Paper Jam Count by <br> Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 149 \end{aligned}$ | Paper Jam Count by <br> Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 150 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- <br> 151 | Paper Jam Count by Location | Entrance Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 152 \end{aligned}$ | Paper Jam Count by <br> Location | Horizontal Transport Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 153 \end{aligned}$ | Paper Jam Count by <br> Location | Horizontal Transport Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 154 \end{aligned}$ | Paper Jam Count by <br> Location | Switchback Transport Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 155 \end{aligned}$ | Paper Jam Count by <br> Location | Switchback Transport Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 156 \end{aligned}$ | Paper Jam Count by Location | Proof Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 157 \end{aligned}$ | Paper Jam Count by <br> Location | Proof Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 158 \end{aligned}$ | Paper Jam Count by Location | Shift Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 159 \end{aligned}$ | Paper Jam Count by Location | Shift Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 160 \end{aligned}$ | Paper Jam Count by Location | Booklet Stapler Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 161 \end{aligned}$ | Paper Jam Count by Location | Booklet Stapler Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 162 \end{aligned}$ | Paper Jam Count by <br> Location | Enrance Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by | Horizontal Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 163 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 164 \end{aligned}$ | Paper Jam Count by <br> Location | Pre-Stack Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 165 \end{aligned}$ | Paper Jam Count by <br> Location | ITB Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 166 \end{aligned}$ | Paper Jam Count by <br> Location | Exit Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 167 \end{aligned}$ | Paper Jam Count by <br> Location | TE Press Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 168 \end{aligned}$ | Paper Jam Count by <br> Location | Ext Plate Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 169 \end{aligned}$ | Paper Jam Count by Location | Punching Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 170 \end{aligned}$ | Paper Jam Count by <br> Location | Punch Move Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 171 \end{aligned}$ | Paper Jam Count by <br> Location | S-to-S Registration Move <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 172 \end{aligned}$ | Paper Jam Count by <br> Location | Lower Junction Solenoid Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 173 \end{aligned}$ | Paper Jam Count by <br> Location | Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 174 \end{aligned}$ | Paper Jam Count by Location | Positioning Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 175 \end{aligned}$ | Paper Jam Count by <br> Location | Feed Out Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 176 \end{aligned}$ | Paper Jam Count by Location | Corner Stapler Move Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 177 \end{aligned}$ | Paper Jam Count by Location | Corner Stapler Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 178 \end{aligned}$ | Paper Jam Count by Location | Saddle Stitch Stapler Jogger <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 179 \end{aligned}$ | Paper Jam Count by Location | Saddle Stitch Stapler Jog SOL <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 180 \end{aligned}$ | Paper Jam Count by Location | Saddle Stitch Stapler Standard Fence Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by | Saddle Stitch Stapler Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 181 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 182 \end{aligned}$ | Paper Jam Count by <br> Location | Dynamic Roller Transport Mt | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 183 \end{aligned}$ | Paper Jam Count by <br> Location | Folder Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 184 \end{aligned}$ | Paper Jam Count by <br> Location | Flat Fold Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 185 \end{aligned}$ | Paper Jam Count by <br> Location | Output Tray Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 186 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 187 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Tray Jogger Front Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 188 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Tray Jogger Rear Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 189 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Tray Jogger Retraction Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 190 \end{aligned}$ | Paper Jam Count by Location | Stack Roller Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 191 \end{aligned}$ | Paper Jam Count by Location | Leading Edge Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 192 \end{aligned}$ | Paper Jam Count by Location | Positioning Roller Transport <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 193 \end{aligned}$ | Paper Jam Count by Location | Paper Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 194 \end{aligned}$ | Paper Jam Count by <br> Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 200 \end{aligned}$ | Paper Jam Count by Location | Entrance: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 201 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 202 \end{aligned}$ | Paper Jam Count by Location | Proof Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 203 \end{aligned}$ | Paper Jam Count by Location | Proof Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by | Right Relay: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 204 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 205 \end{aligned}$ | Paper Jam Count by <br> Location | Left Relay: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 206 \end{aligned}$ | Paper Jam Count by <br> Location | Left Relay: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 207 \end{aligned}$ | Paper Jam Count by Location | Shift Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 208 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 209 \end{aligned}$ | Paper Jam Count by <br> Location | Stack: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 210 \end{aligned}$ | Paper Jam Count by <br> Location | TE Stopper: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 211 \end{aligned}$ | Paper Jam Count by Location | TE Stopper: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 212 \end{aligned}$ | Paper Jam Count by <br> Location | Booklet Folder Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 213 \end{aligned}$ | Paper Jam Count by <br> Location | Booklet Folder Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 220 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 221 \end{aligned}$ | Paper Jam Count by <br> Location | Proof Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 222 \end{aligned}$ | Paper Jam Count by <br> Location | Exit Transport/ Positioning Roller Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 223 \end{aligned}$ | Paper Jam Count by <br> Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 224 \end{aligned}$ | Paper Jam Count by Location | Jogger Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 225 \end{aligned}$ | Paper Jam Count by <br> Location | Exit Guide Plate Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 226 \end{aligned}$ | Paper Jam Count by <br> Location | Feed Out Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 227 \end{aligned}$ | Paper Jam Count by <br> Location | Output Tray Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-514- | Paper Jam Count by | Positioning Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 228 | Location |  |  |  |
| $\begin{aligned} & 7-514- \\ & 229 \end{aligned}$ | Paper Jam Count by <br> Location | Stapler Shift Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 230 \end{aligned}$ | Paper Jam Count by <br> Location | Stapler Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 231 \end{aligned}$ | Paper Jam Count by Location | Punch Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 232 \end{aligned}$ | Paper Jam Count by <br> Location | Stack Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 233 \end{aligned}$ | Paper Jam Count by <br> Location | LE Stopper Motor | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 234 \end{aligned}$ | Paper Jam Count by <br> Location | Folder Blade Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 235 \end{aligned}$ | Paper Jam Count by <br> Location | Paper Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 236 \end{aligned}$ | Paper Jam Count by <br> Location | Stapler Shift Motor(without staples) | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-514- \\ & 237 \end{aligned}$ | Paper Jam Count by <br> Location | Stapler Motor(without staples) | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 238 \end{aligned}$ | Paper Jam Count by <br> Location | Movable Guide Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 248 \end{aligned}$ | Paper Jam Count by <br> Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-514- \\ & 249 \end{aligned}$ | Paper Jam Count by Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-515- \\ & 001 \end{aligned}$ | Original Jam Count by <br> Detection | At Power On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 013 \end{aligned}$ | Original Jam Count by Detection | Separation Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 014 \end{aligned}$ | Original Jam Count by <br> Detection | Skew Correction Sn: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-515- \\ & 015 \end{aligned}$ | Original Jam Count by <br> Detection | Scanning Entrance Sn: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 016 \end{aligned}$ | Original Jam Count by <br> Detection | Registration Sensor: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| 7-515- | Original Jam Count by | Original Exit Sensor: On | CTL* | [ 0 to $65535 / 0 / 0]$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 017 | Detection |  |  |  |
| $\begin{aligned} & 7-515- \\ & 063 \end{aligned}$ | Original Jam Count by <br> Detection | Separation Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-515- \\ & 064 \end{aligned}$ | Original Jam Count by <br> Detection | Skew Correction Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 065 \end{aligned}$ | Original Jam Count by <br> Detection | Scanning Entrance Sn: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 066 \end{aligned}$ | Original Jam Count by <br> Detection | Registration Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 067 \end{aligned}$ | Original Jam Count by <br> Detection | Original Exit Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-515- \\ & 239 \end{aligned}$ | Original Jam Count by <br> Detection | Original Pull | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 005 \end{aligned}$ | Paper Size Jam Count | A4 LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 006 \end{aligned}$ | Paper Size Jam Count | A5 LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 014 \end{aligned}$ | Paper Size Jam Count | B5 LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 038 \end{aligned}$ | Paper Size Jam Count | LT LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 044 \end{aligned}$ | Paper Size Jam Count | HLT LEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 132 \end{aligned}$ | Paper Size Jam Count | A3 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 133 \end{aligned}$ | Paper Size Jam Count | A4 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 134 \end{aligned}$ | Paper Size Jam Count | A5 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-516- <br> 141 | Paper Size Jam Count | B4 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 142 \end{aligned}$ | Paper Size Jam Count | B5 SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 160 \end{aligned}$ | Paper Size Jam Count | DLT SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-516- | Paper Size Jam Count | LG SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 164 |  |  |  |  |
| $\begin{aligned} & 7-516- \\ & 166 \end{aligned}$ | Paper Size Jam Count | LT SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 172 \end{aligned}$ | Paper Size Jam Count | HLT SEF | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-516- \\ & 255 \end{aligned}$ | Paper Size Jam Count | Others | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 045 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 046 \end{aligned}$ | Paper Jam Count by <br> Location | Entrance: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-519- <br> 047 | Paper Jam Count by Location | Original Exit Sensor: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 048 \end{aligned}$ | Paper Jam Count by <br> Location | Original Exit Sensor: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 049 \end{aligned}$ | Paper Jam Count by Location | Shift Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 050 \end{aligned}$ | Paper Jam Count by <br> Location | Junction Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 051 \end{aligned}$ | Paper Jam Count by <br> Location | Exit Pressure Release Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 052 \end{aligned}$ | Paper Jam Count by Location | Staple Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 053 \end{aligned}$ | Paper Jam Count by <br> Location | Feed-Out: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 093 \end{aligned}$ | Paper Jam Count by Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 094 \end{aligned}$ | Paper Jam Count by <br> Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 095 \end{aligned}$ | Paper Jam Count by Location | Registration: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 096 \end{aligned}$ | Paper Jam Count by Location | Registration: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 097 \end{aligned}$ | Paper Jam Count by <br> Location | 1st 2-direction Paper Feed SN: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-519- | Paper Jam Count by | 1st 2-direction Paper Feed SN: | CTL* | [ 0 to $65535 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 098 | Location | Off |  |  |
| $\begin{aligned} & 7-519- \\ & 099 \end{aligned}$ | Paper Jam Count by <br> Location | 2nd 2-direction Paper Feed SN: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-519- \\ & 100 \end{aligned}$ | Paper Jam Count by Location | 2nd 2-direction Paper Feed SN: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 101 \end{aligned}$ | Paper Jam Count by <br> Location | Additional Fold: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 102 \end{aligned}$ | Paper Jam Count by <br> Location | Additional Fold: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-519- \\ & 103 \end{aligned}$ | Paper Jam Count by <br> Location | Top Tray Exit: On | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-519- \\ & 104 \end{aligned}$ | Paper Jam Count by <br> Location | Top Tray Exit: Off | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 105 \end{aligned}$ | Paper Jam Count by Location | Bridge Exit: On | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 106 \end{aligned}$ | Paper Jam Count by <br> Location | Bridge Exit: Off | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-519- \\ & 115 \end{aligned}$ | Paper Jam Count by <br> Location | Registration Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 116 \end{aligned}$ | Paper Jam Count by <br> Location | Folding Junction Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 117 \end{aligned}$ | Paper Jam Count by <br> Location | Transport Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| 7-519- <br> 118 | Paper Jam Count by Location | Folding Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 119 \end{aligned}$ | Paper Jam Count by <br> Location | 2nd 2-direction Paper Feed <br> Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 120 \end{aligned}$ | Paper Jam Count by Location | Additional Folding Motor | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-519- \\ & 143 \end{aligned}$ | Paper Jam Count by <br> Location | No Exit Response | CTL* | [ 0 to $65535 / 0 / 0]$ |
| $\begin{aligned} & 7-519- \\ & 144 \end{aligned}$ | Paper Jam Count by <br> Location | Main Machine Setting Incorrect | CTL* | [ 0 to $65535 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 001 \end{aligned}$ | Update Log | ErrorRecord1 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 7-520- | Update Log | ErrorRecord2 | CTL* | [ 0 to $255 / 0 / 1$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 |  |  |  |  |
| $\begin{aligned} & 7-520- \\ & 003 \end{aligned}$ | Update Log | ErrorRecord3 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 004 \end{aligned}$ | Update Log | ErrorRecord4 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 005 \end{aligned}$ | Update Log | ErrorRecord5 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 006 \end{aligned}$ | Update Log | ErrorRecord6 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 007 \end{aligned}$ | Update Log | ErrorRecord7 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 008 \end{aligned}$ | Update Log | ErrorRecord8 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 009 \end{aligned}$ | Update Log | ErrorRecord9 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{array}{\|l\|} \hline 7-520- \\ 010 \\ \hline \end{array}$ | Update Log | ErrorRecord10 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 011 \end{aligned}$ | Update Log | Auto:StartDate1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 012 \end{aligned}$ | Update Log | Auto:StartDate2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 013 \end{aligned}$ | Update Log | Auto:StartDate3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 014 \end{aligned}$ | Update Log | Auto:StartDate4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 015 \end{aligned}$ | Update Log | Auto:StartDate5 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 7-520- | Update Log | Auto:EndDate1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 022 \end{aligned}$ | Update Log | Auto:EndDate2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 023 \end{aligned}$ | Update Log | Auto:EndDate3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 024 \end{aligned}$ | Update Log | Auto:EndDate4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 7-520- | Update Log | Auto:EndDate5 | CTL* | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 025 |  |  |  |  |
| $\begin{aligned} & 7-520- \\ & 031 \end{aligned}$ | Update Log | Auto:Piecemark1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 032 \end{aligned}$ | Update Log | Auto:Piecemark2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 033 \end{aligned}$ | Update Log | Auto:Piecemark3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 034 \end{aligned}$ | Update Log | Auto:Piecemark4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 035 \end{aligned}$ | Update Log | Auto:Piecemark5 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 041 \end{aligned}$ | Update Log | Auto:Version1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 042 \end{aligned}$ | Update Log | Auto:Version2 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 043 \end{aligned}$ | Update Log | Auto:Version3 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 044 \end{aligned}$ | Update Log | Auto:Version4 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 045 \end{aligned}$ | Update Log | Auto:Version5 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-520- \\ & 051 \end{aligned}$ | Update Log | Auto:Result 1 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 7-520- <br> 052 | Update Log | Auto:Result2 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 053 \end{aligned}$ | Update Log | Auto:Result3 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $7-520-$ <br> 054 | Update Log | Auto:Result 4 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 055 \end{aligned}$ | Update Log | Auto:Result5 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 056 \end{aligned}$ | Update Log | Auto:Result6 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 057 \end{aligned}$ | Update Log | Auto:Result7 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| 7-520- | Update Log | Auto:Result8 | CTL* | [ 0 to $255 / 0 / 1$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 058 |  |  |  |  |
| $\begin{aligned} & 7-520- \\ & 059 \end{aligned}$ | Update Log | Auto:Result9 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-520- \\ & 060 \end{aligned}$ | Update Log | Auto:Result10 | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 7-617- \\ & 001 \end{aligned}$ | PM Parts Counter Display | Normal | CTL* | [ 0 to 9999999 / 0 / 0] |
| $\begin{aligned} & 7-617- \\ & 002 \end{aligned}$ | PM Parts Counter Display | Df | CTL* | [ 0 to 9999999 / 0 / 0] |
| $\begin{aligned} & 7-618- \\ & 001 \end{aligned}$ | PM Parts Counter Reset | Normal | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-618- \\ & 002 \end{aligned}$ | PM Parts Counter Reset | Df | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-621- \\ & 002 \end{aligned}$ | PM Counter Display:Pages | \#PCU | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / \\ & \text { 1page] } 0 \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 009 \end{aligned}$ | PM Counter Display:Pages | Cleaning Blade | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 018 \end{aligned}$ | PM Counter Display:Pages | Charge Roller | ENG* | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 019 \end{aligned}$ | PM Counter Display:Pages | Cleaner:Charge Roller | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 021 \end{aligned}$ | PM Counter Display:Pages | OPC | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 022 \end{aligned}$ | PM Counter Display:Pages | Stripper | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 023 \end{aligned}$ | PM Counter Display:Pages | \#Dev Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 024 \end{aligned}$ | PM Counter Display:Pages | Developer | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 025 \end{aligned}$ | PM Counter Display:Pages | Development Filter | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 028 \end{aligned}$ | PM Counter Display:Pages | Bearing:Development Screw | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 108 \end{aligned}$ | PM Counter Display:Pages | Paper Transfer Roller Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| 7-621- | PM Counter Display:Pages | Fusing Unit | ENG | [ 0 to 99999999 / 0 / |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 115 |  |  |  | 1page] |
| $\begin{aligned} & 7-621- \\ & 116 \end{aligned}$ | PM Counter Display:Pages | Fusing Belt | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } 0 \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 118 \end{aligned}$ | PM Counter Display:Pages | Pressure Roller | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } 0 \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 119 \end{aligned}$ | PM Counter Display:Pages | Bearing:Pressure Roller | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 142 \end{aligned}$ | PM Counter Display:Pages | Waste Toner bottle | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & 1 \mathrm{mg}] \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 206 \end{aligned}$ | PM Counter Display:Pages | ADF Pick-up Roller | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 207 \end{aligned}$ | PM Counter Display:Pages | ADF Supply Belt | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 99999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-621- \\ & 208 \end{aligned}$ | PM Counter Display:Pages | ADF Reverse Roller | ENG | $\begin{aligned} & {[0 \text { to } 99999999 / 0 /} \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-622- \\ & 002 \end{aligned}$ | PM Counter Reset | \#PCU | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 009 \end{aligned}$ | PM Counter Reset | Cleaning Blade | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 018 \end{aligned}$ | PM Counter Reset | Charge Roller | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 019 \end{aligned}$ | PM Counter Reset | Cleaner:Charge Roller | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 021 \end{aligned}$ | PM Counter Reset | OPC | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 022 \end{aligned}$ | PM Counter Reset | Stripper | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 023 \end{aligned}$ | PM Counter Reset | \#Dev Unit | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 024 \end{aligned}$ | PM Counter Reset | Developer | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 025 \end{aligned}$ | PM Counter Reset | Development Filter | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 028 \end{aligned}$ | PM Counter Reset | Bearing:Development Screw | ENG | [ 0 to $1 / 0 / 1$ ] |
| 7-622- | PM Counter Reset | Paper Transfer Roller Unit | ENG | [ 0 to $1 / 0 / 1$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 108 |  |  |  |  |
| $\begin{aligned} & 7-622- \\ & 115 \end{aligned}$ | PM Counter Reset | Fusing Unit | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 116 \end{aligned}$ | PM Counter Reset | Fusing Belt | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 118 \end{aligned}$ | PM Counter Reset | Pressure Roller | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 119 \end{aligned}$ | PM Counter Reset | Bearing:Pressure Roller | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 206 \end{aligned}$ | PM Counter Reset | ADF Pick-up Roller | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 207 \end{aligned}$ | PM Counter Reset | ADF Supply Belt | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 208 \end{aligned}$ | PM Counter Reset | ADF Reverse Roller | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-622- \\ & 250 \end{aligned}$ | PM Counter Reset | SCS | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 002 \end{aligned}$ | Part Replacement Operation ON/OFF | \#PCU | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 009 \end{aligned}$ | Part Replacement Operation ON/OFF | Cleaning Blade | CTL | [ 0 to $1 / 1 / 1$ ] |
| 7-624- <br> 018 | Part Replacement Operation ON/OFF | Charge Roller | CTL | [ 0 to $1 / 1 / 1$ ] |
| 7-624- <br> 019 | Part Replacement Operation ON/OFF | Cleaner:Charge Roller | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 021 \end{aligned}$ | Part Replacement Operation ON/OFF | OPC | CTL | [ 0 to $1 / 1 / 1$ ] |
| 7-624- <br> 022 | Part Replacement Operation ON/OFF | Stripper | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 023 \end{aligned}$ | Part Replacement Operation ON/OFF | \#Dev Unit | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 024 \end{aligned}$ | Part Replacement Operation ON/OFF | Developer | CTL | [ 0 to $1 / 1 / 1$ ] |
| 7-624- <br> 025 | Part Replacement Operation ON/OFF | Development Filter | CTL | [ 0 to $1 / 1 / 1$ ] |
| 7-624- | Part Replacement Operation | Bearing:Development Screw | CTL | [ 0 to $1 / 1 / 1$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 028 | ON/OFF |  |  |  |
| $\begin{aligned} & 7-624- \\ & 108 \end{aligned}$ | Part Replacement Operation ON/OFF | \#Paper Transfer Roller Unit | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 115 \end{aligned}$ | Part Replacement Operation ON/OFF | \#Fusing Unit | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 116 \end{aligned}$ | Part Replacement Operation ON/OFF | Fusing Belt | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 118 \end{aligned}$ | Part Replacement Operation ON/OFF | Pressure Roller | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 119 \end{aligned}$ | Part Replacement Operation ON/OFF | Bearing:Pressure Roller | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 142 \end{aligned}$ | Part Replacement Operation ON/OFF | \#Waste Toner Bottle | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 206 \end{aligned}$ | Part Replacement Operation ON/OFF | \#ADF Pick-up Roller | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 207 \end{aligned}$ | Part Replacement Operation ON/OFF | \#ADF Paper Supply Belt | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-624- \\ & 208 \end{aligned}$ | Part Replacement Operation ON/OFF | \#ADF Reverse Roller | CTL | [ 0 to $1 / 1 / 1$ ] |
| $\begin{aligned} & 7-628- \\ & 002 \end{aligned}$ | PM Counter Reset | SCS | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 7-801- \\ & 002 \end{aligned}$ | ROM No. | Engine | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 005 \end{aligned}$ | ROM No. | ADF | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 007 \end{aligned}$ | ROM No. | Finisher | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 009 \end{aligned}$ | ROM No. | PTU | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 010 \end{aligned}$ | ROM No. | LCT | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 019 \end{aligned}$ | ROM No. | PTU2 | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 025 \end{aligned}$ | ROM No. | Folder | ENG | [ 0 to $0 / 0 / 0$ ] |
| 7-801- | Firmware Version | Engine | ENG | [ 0 to $0 / 0 / 0$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 102 |  |  |  |  |
| $\begin{aligned} & 7-801- \\ & 105 \end{aligned}$ | Firmware Version | ADF | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 107 \end{aligned}$ | Firmware Version | Finisher | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 109 \end{aligned}$ | Firmware Version | PTU | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 110 \end{aligned}$ | Firmware Version | LCT | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 125 \end{aligned}$ | Firmware Version | Folder | ENG | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-801- \\ & 255 \end{aligned}$ | ROM No./ Firmware Version |  | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-803- \\ & 001 \end{aligned}$ | PM Counter Display | Paper | CTL* | [ 0 to 9999999 / 0 / 0] |
| $\begin{aligned} & 7-804- \\ & 001 \end{aligned}$ | PM Counter Reset | Paper | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-807- \\ & 001 \end{aligned}$ | SC/Jam Counter Reset |  | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-826- \\ & 001 \end{aligned}$ | MF Error Counter | Error Total | CTL* | [ 0 to 9999999 / 0 / 0] |
| $\begin{aligned} & 7-826- \\ & 002 \end{aligned}$ | MF Error Counter | Error Staple | CTL* | [ 0 to 9999999 / 0 / 0] |
| $\begin{aligned} & 7-827- \\ & 001 \end{aligned}$ | MF Error Counter Clear |  | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-832- \\ & 001 \end{aligned}$ | Self-Diagnose Result Display |  | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-836- \\ & 001 \end{aligned}$ | Total Memory Size |  | CTL | [ 0 to $0 x f f f f f f f f$ / 0 / 0MB] |
| $\begin{aligned} & 7-840- \\ & 001 \end{aligned}$ | ServiceSP Entry Code Chg Hist | Change Time :Latest | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-840- \\ & 002 \end{aligned}$ | ServiceSP Entry Code Chg Hist | Change Time :Last1 | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-840- \\ & 101 \end{aligned}$ | ServiceSP Entry Code Chg Hist | Initialize Time :Latest | CTL* | [ 0 to $0 / 0 / 0$ ] |
| 7-840- | ServiceSP Entry Code Chg | Initialize Time :Last1 | CTL* | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 102 | Hist |  |  |  |
| $\begin{aligned} & 7-852- \\ & 001 \end{aligned}$ | DF Glass Dust Check | Dust Detection Counter | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 7-852- \\ & 002 \end{aligned}$ | DF Glass Dust Check | Dust Counter Clear Counter | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 7-852- \\ & 003 \end{aligned}$ | DF Glass Dust Check | Dust Detection Counter: Back | ENG* | [ 0 to $65535 / 0 / 1$ ] |
| $\begin{aligned} & 7-901- \\ & 001 \end{aligned}$ | Assert Info. | File Name | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-901- \\ & 002 \end{aligned}$ | Assert Info. | Number of Lines | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-901- \\ & 003 \end{aligned}$ | Assert Info. | Location | CTL* | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 001 \end{aligned}$ | ROM No | System/Copy | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 002 \end{aligned}$ | ROM No | Engine | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 003 \end{aligned}$ | ROM No | Lcdc | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 005 \end{aligned}$ | ROM No | ADF | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 007 \end{aligned}$ | ROM No | Finisher1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 009 \end{aligned}$ | ROM No | Bank | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 010 \end{aligned}$ | ROM No | LCT | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 012 \end{aligned}$ | ROM No | FCU | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 018 \end{aligned}$ | ROM No | NetworkSupport | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 019 \end{aligned}$ | ROM No | Bank2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 022 \end{aligned}$ | ROM No | BIOS | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-910- | ROM No | HDD Format Option | CTL | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 023 |  |  |  |  |
| $\begin{aligned} & 7-910- \\ & 025 \end{aligned}$ | ROM No | Folding Unit | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 150 \end{aligned}$ | ROM No | RPCS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 151 \end{aligned}$ | ROM No | PS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 152 \end{aligned}$ | ROM No | RPDL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 153 \end{aligned}$ | ROM No | R98 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 154 \end{aligned}$ | ROM No | R16 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 155 \end{aligned}$ | ROM No | RPGL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 156 \end{aligned}$ | ROM No | R55 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 157 \end{aligned}$ | ROM No | RTIFF | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 158 \end{aligned}$ | ROM No | PCL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 159 \end{aligned}$ | ROM No | PCLXL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 160 \end{aligned}$ | ROM No | MSIS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 162 \end{aligned}$ | ROM No | PDF | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 165 \end{aligned}$ | ROM No | PJL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 166 \end{aligned}$ | ROM No | IPDS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 167 \end{aligned}$ | ROM No | MediaPrint:JPEG | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 168 \end{aligned}$ | ROM No | MediaPrint:TIFF | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-910- | ROM No | XPS | CTL | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 169 |  |  |  |  |
| $\begin{aligned} & 7-910- \\ & 180 \end{aligned}$ | ROM No | FONT | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 181 \end{aligned}$ | ROM No | FONT1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 182 \end{aligned}$ | ROM No | FONT2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 183 \end{aligned}$ | ROM No | FONT3 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 184 \end{aligned}$ | ROM No | FONT4 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 185 \end{aligned}$ | ROM No | FONT5 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 186 \end{aligned}$ | ROM No | FONT6 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 187 \end{aligned}$ | ROM No | FONT7 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 200 \end{aligned}$ | ROM No | Factory | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 201 \end{aligned}$ | ROM No | Copy | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 202 \end{aligned}$ | ROM No | NetworkDocBox | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-910- <br> 203 | ROM No | Fax | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 204 \end{aligned}$ | ROM No | Printer | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 205 \end{aligned}$ | ROM No | Scanner | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 206 \end{aligned}$ | ROM No | RFax | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 210 \end{aligned}$ | ROM No | MIB | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 211 \end{aligned}$ | ROM No | Websupport | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-910- | ROM No | WebUapl | CTL | [ 0 to $0 / 0 / 0$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 212 |  |  |  |  |
| $\begin{aligned} & 7-910- \\ & 213 \end{aligned}$ | ROM No | SDK1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 214 \end{aligned}$ | ROM No | SDK2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 215 \end{aligned}$ | ROM No | SDK3 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-910- \\ & 250 \end{aligned}$ | ROM No | Package | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 001 \end{aligned}$ | Firmware Version | System/Copy | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 002 \end{aligned}$ | Firmware Version | Engine | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 003 \end{aligned}$ | Firmware Version | Lcdc | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 005 \end{aligned}$ | Firmware Version | ADF | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 007 \end{aligned}$ | Firmware Version | Finisher1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 009 \end{aligned}$ | Firmware Version | Bank | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 010 \end{aligned}$ | Firmware Version | LCT | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 012 \end{aligned}$ | Firmware Version | FCU | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 018 \end{aligned}$ | Firmware Version | NetworkSupport | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 019 \end{aligned}$ | Firmware Version | Bank2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 022 \end{aligned}$ | Firmware Version | BIOS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 023 \end{aligned}$ | Firmware Version | HDD Format Option | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 025 \end{aligned}$ | Firmware Version | Folding Unit | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-911- | Firmware Version | RPCS | CTL | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 150 |  |  |  |  |
| $\begin{aligned} & 7-911- \\ & 151 \end{aligned}$ | Firmware Version | PS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 152 \end{aligned}$ | Firmware Version | RPDL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 153 \end{aligned}$ | Firmware Version | R98 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 154 \end{aligned}$ | Firmware Version | R16 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 155 \end{aligned}$ | Firmware Version | RPGL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 156 \end{aligned}$ | Firmware Version | R55 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 157 \end{aligned}$ | Firmware Version | RTIFF | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 158 \end{aligned}$ | Firmware Version | PCL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 159 \end{aligned}$ | Firmware Version | PCLXL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 160 \end{aligned}$ | Firmware Version | MSIS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 162 \end{aligned}$ | Firmware Version | PDF | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-911- <br> 165 | Firmware Version | PJL | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 166 \end{aligned}$ | Firmware Version | IPDS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 167 \end{aligned}$ | Firmware Version | MediaPrint:JPEG | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 168 \end{aligned}$ | Firmware Version | MediaPrint:TIFF | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 169 \end{aligned}$ | Firmware Version | XPS | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 180 \end{aligned}$ | Firmware Version | FONT | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-911- | Firmware Version | FONT1 | CTL | [ 0 to $0 / 0 / 0$ ] |

## 3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 181 |  |  |  |  |
| $\begin{aligned} & 7-911- \\ & 182 \end{aligned}$ | Firmware Version | FONT2 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 183 \end{aligned}$ | Firmware Version | FONT3 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 184 \end{aligned}$ | Firmware Version | FONT4 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 185 \end{aligned}$ | Firmware Version | FONT5 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 186 \end{aligned}$ | Firmware Version | FONT6 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 187 \end{aligned}$ | Firmware Version | FONT7 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 200 \end{aligned}$ | Firmware Version | Factory | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 201 \end{aligned}$ | Firmware Version | Copy | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 202 \end{aligned}$ | Firmware Version | NetworkDocBox | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 203 \end{aligned}$ | Firmware Version | Fax | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 204 \end{aligned}$ | Firmware Version | Printer | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 205 \end{aligned}$ | Firmware Version | Scanner | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 206 \end{aligned}$ | Firmware Version | RFax | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 210 \end{aligned}$ | Firmware Version | MIB | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 211 \end{aligned}$ | Firmware Version | Websupport | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 212 \end{aligned}$ | Firmware Version | WebUapl | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 213 \end{aligned}$ | Firmware Version | SDK1 | CTL | [ 0 to $0 / 0 / 0$ ] |
| 7-911- | Firmware Version | SDK2 | CTL | [ 0 to $0 / 0 / 0$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 214 |  |  |  |  |
| $\begin{aligned} & 7-911- \\ & 215 \end{aligned}$ | Firmware Version | SDK3 | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-911- \\ & 250 \end{aligned}$ | Firmware Version | Package | CTL | [ 0 to $0 / 0 / 0$ ] |
| $\begin{aligned} & 7-942- \\ & 002 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | \#PCU | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 009 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Cleaning Blade | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 018 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Charge Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 019 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Cleaner:Charge Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 021 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | OPC | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 022 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Stripper | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 023 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | \#Dev Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 024 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Developer | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 025 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Development Filter | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 028 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Bearing:Development Screw | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 108 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Paper Transfer Roller Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 115 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Fusing Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 116 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Fusing Belt | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 118 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Pressure Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-942- \\ & 119 \end{aligned}$ | PM Counter <br> Display:Distance(\%) | Bearing:Pressure Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| 7-944- | PM Counter | \#PCU | ENG* | [ 0 to 4294967295 / 0 / |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 | Display:Distance |  |  | 1 mm ] |
| $\begin{aligned} & 7-944- \\ & 009 \end{aligned}$ | PM Counter <br> Display:Distance | Cleaning Blade | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| 7-944- | PM Counter <br> Display:Distance | Charge Roller | ENG* | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| 7-944- | PM Counter <br> Display:Distance | Cleaner:Charge Roller | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 021 \end{aligned}$ | PM Counter Display:Distance | OPC | ENG* | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| 7-944- $022$ | PM Counter <br> Display:Distance | Stripper | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 023 \end{aligned}$ | PM Counter <br> Display:Distance | \#Dev Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 4294967295 / 0 / \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| 7-944- $024$ | PM Counter <br> Display:Distance | Developer | ENG* | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 025 \end{aligned}$ | PM Counter <br> Display:Distance | Development Filter | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 4294967295 / 0 / \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 028 \end{aligned}$ | PM Counter Display:Distance | Bearing:Development Screw | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 108 \end{aligned}$ | PM Counter <br> Display:Distance | Paper Transfer Roller Unit | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| 7-944- | PM Counter <br> Display:Distance | Fusing Unit | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 116 \end{aligned}$ | PM Counter Display:Distance | Fusing Belt | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 / 0} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 118 \end{aligned}$ | PM Counter Display:Distance | Pressure Roller | ENG | $\begin{aligned} & {[0 \text { to } 4294967295 / 0 /} \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-944- \\ & 119 \end{aligned}$ | PM Counter Display:Distance | Bearing:Pressure Roller | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 4294967295 / 0 / \\ & 1 \mathrm{~mm}] \end{aligned}$ |
| $\begin{aligned} & 7-951- \\ & 002 \end{aligned}$ | Remain Day Counter:Pages | \#PCU | ENG | [ 0 to $255 / 255$ / 1days] |
| $\begin{aligned} & 7-951- \\ & 009 \end{aligned}$ | Remain Day Counter:Pages | Cleaning Blade | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| 7-951- <br> 018 | Remain Day Counter:Pages | Charge Roller | ENG | [ 0 to 255 / 255 / <br> 1days] |
| 7-951- | Remain Day Counter:Pages | Cleaner:Charge Roller | ENG | [ 0 to 255 / 255 / |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 019 |  |  |  | 1days] |
| $\begin{aligned} & 7-951- \\ & 021 \end{aligned}$ | Remain Day Counter:Pages | OPC | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 022 \end{aligned}$ | Remain Day Counter:Pages | Stripper | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-951- \\ & 023 \end{aligned}$ | Remain Day Counter:Pages | \#Dev Unit | ENG | [ 0 to 255 / 255 / <br> 1days] |
| $\begin{aligned} & 7-951- \\ & 024 \end{aligned}$ | Remain Day Counter:Pages | Developer | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-951- \\ & 025 \end{aligned}$ | Remain Day Counter:Pages | Development Filter | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-951- \\ & 028 \end{aligned}$ | Remain Day Counter:Pages | Bearing:Development Screw | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 108 \end{aligned}$ | Remain Day Counter:Pages | Paper Transfer Roller Unit | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-951- \\ & 115 \end{aligned}$ | Remain Day Counter:Pages | Fusing Unit | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 116 \end{aligned}$ | Remain Day Counter:Pages | Fusing Belt | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-951- \\ & 118 \end{aligned}$ | Remain Day Counter:Pages | Pressure Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 119 \end{aligned}$ | Remain Day Counter:Pages | Bearing:Pressure Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 142 \end{aligned}$ | Remain Day Counter:Pages | Waste Toner bottle | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 206 \end{aligned}$ | Remain Day Counter:Pages | ADF Pick-up Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 207 \end{aligned}$ | Remain Day Counter:Pages | ADF Supply Belt | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-951- \\ & 208 \end{aligned}$ | Remain Day Counter:Pages | ADF Reverse Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-952- \\ & 002 \end{aligned}$ | Remain Day <br> Counter:Distance | \#PCU | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-952- \\ & 009 \end{aligned}$ | Remain Day <br> Counter:Distance | Cleaning Blade | ENG | [ 0 to 255 / 255 / 1days] |
| 7-952- | Remain Day | Charge Roller | ENG | [ 0 to 255 / 255 / |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 018 | Counter:Distance |  |  | 1days] |
| $\begin{aligned} & 7-952- \\ & 019 \end{aligned}$ | Remain Day <br> Counter:Distance | Cleaner:Charge Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-952- \\ & 021 \end{aligned}$ | Remain Day <br> Counter:Distance | OPC | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-952- \\ & 022 \end{aligned}$ | Remain Day <br> Counter:Distance | Stripper | ENG | [ 0 to 255 / 255 / <br> 1days] |
| $\begin{aligned} & 7-952- \\ & 023 \end{aligned}$ | Remain Day <br> Counter:Distance | \#Dev Unit | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-952- \\ & 024 \end{aligned}$ | Remain Day <br> Counter:Distance | Developer | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-952- \\ & 025 \end{aligned}$ | Remain Day <br> Counter:Distance | Development Filter | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-952- \\ & 028 \end{aligned}$ | Remain Day <br> Counter:Distance | Bearing:Development Screw | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-952- \\ & 108 \end{aligned}$ | Remain Day <br> Counter:Distance | Paper Transfer Roller Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-952- \\ & 115 \end{aligned}$ | Remain Day <br> Counter:Distance | Fusing Unit | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-952- \\ & 116 \end{aligned}$ | Remain Day <br> Counter:Distance | Fusing Belt | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-952- \\ & 118 \end{aligned}$ | Remain Day <br> Counter:Distance | Pressure Roller | ENG | [ 0 to 255 / 255 / <br> 1days] |
| $\begin{aligned} & 7-952- \\ & 119 \end{aligned}$ | Remain Day <br> Counter:Distance | Bearing:Pressure Roller | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-954- \\ & 002 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | \#PCU | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{array}{\|l\|} \hline 7-954- \\ 009 \end{array}$ | PM Counter <br> Display:Pages(\%) | Cleaning Blade | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 018 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Charge Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 019 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Cleaner:Charge Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 021 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | OPC | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| 7-954- | PM Counter | Stripper | ENG | [ 0 to $255 / 0 / 1 \%$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 022 | Display:Pages(\%) |  |  |  |
| $\begin{aligned} & 7-954- \\ & 023 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | \#Dev Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 024 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Developer | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 025 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Development Filter | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 028 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Bearing:Development Screw | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 108 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Paper Transfer Roller Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 115 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Fusing Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 116 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Fusing Belt | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 118 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Pressure Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 119 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Bearing:Pressure Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 142 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | Waste Toner bottle | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 206 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | ADF Pick-up Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 207 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | ADF Supply Belt | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-954- \\ & 208 \end{aligned}$ | PM Counter <br> Display:Pages(\%) | ADF Reverse Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-955- \\ & 002 \end{aligned}$ | Estimated Remain Pages | \#PCU | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 009 \end{aligned}$ | Estimated Remain Pages | Cleaning Blade | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 018 \end{aligned}$ | Estimated Remain Pages | Charge Roller | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 019 \end{aligned}$ | Estimated Remain Pages | Cleaner:Charge Roller | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| 7-955- | Estimated Remain Pages | OPC | ENG | [ 0 to 9999999 / 0 / |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 021 |  |  |  | 1page] |
| $\begin{aligned} & 7-955- \\ & 022 \end{aligned}$ | Estimated Remain Pages | Stripper | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 023 \end{aligned}$ | Estimated Remain Pages | \#Dev Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 024 \end{aligned}$ | Estimated Remain Pages | Developer | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 025 \end{aligned}$ | Estimated Remain Pages | Development Filter | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 028 \end{aligned}$ | Estimated Remain Pages | Bearing:Development Screw | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 108 \end{aligned}$ | Estimated Remain Pages | Paper Transfer Roller Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 115 \end{aligned}$ | Estimated Remain Pages | Fusing Unit | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 116 \end{aligned}$ | Estimated Remain Pages | Fusing Belt | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 118 \end{aligned}$ | Estimated Remain Pages | Pressure Roller | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-955- \\ & 119 \end{aligned}$ | Estimated Remain Pages | Bearing:Pressure Roller | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 9999999 / 0 / \\ & \text { 1page] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 002 \end{aligned}$ | Estimated Remain Days | \#PCU | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 009 \end{aligned}$ | Estimated Remain Days | Cleaning Blade | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 018 \end{aligned}$ | Estimated Remain Days | Charge Roller | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 019 \end{aligned}$ | Estimated Remain Days | Cleaner:Charge Roller | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 021 \end{aligned}$ | Estimated Remain Days | OPC | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-956- \\ & 022 \end{aligned}$ | Estimated Remain Days | Stripper | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 023 \end{aligned}$ | Estimated Remain Days | \#Dev Unit | ENG | $\text { [ } 0 \text { to } 255 / 255 \text { / }$ <br> 1days] |
| 7-956- | Estimated Remain Days | Developer | ENG | [ 0 to 255 / 255 / |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 024 |  |  |  | 1days] |
| $\begin{aligned} & 7-956- \\ & 025 \end{aligned}$ | Estimated Remain Days | Development Filter | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 028 \\ & \hline \end{aligned}$ | Estimated Remain Days | Bearing:Development Screw | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 255 / 255 / \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 108 \end{aligned}$ | Estimated Remain Days | Paper Transfer Roller Unit | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-956- \\ & 115 \end{aligned}$ | Estimated Remain Days | Fusing Unit | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 116 \end{aligned}$ | Estimated Remain Days | Fusing Belt | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-956- \\ & 118 \end{aligned}$ | Estimated Remain Days | Pressure Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-956- \\ & 119 \end{aligned}$ | Estimated Remain Days | Bearing:Pressure Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-956- \\ & 142 \end{aligned}$ | Estimated Remain Days | Waste Toner bottle | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days }] \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 206 \end{aligned}$ | Estimated Remain Days | ADF Pick-up Roller | ENG | $\begin{aligned} & {[0 \text { to } 255 / 255 /} \\ & \text { 1days] } \end{aligned}$ |
| $\begin{aligned} & 7-956- \\ & 207 \end{aligned}$ | Estimated Remain Days | ADF Supply Belt | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-956- \\ & 208 \end{aligned}$ | Estimated Remain Days | ADF Reverse Roller | ENG | [ 0 to 255 / 255 / 1days] |
| $\begin{aligned} & 7-960- \\ & 002 \end{aligned}$ | Estimated Usage Rate | \#PCU | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 009 \end{aligned}$ | Estimated Usage Rate | Cleaning Blade | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 018 \end{aligned}$ | Estimated Usage Rate | Charge Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 019 \end{aligned}$ | Estimated Usage Rate | Cleaner:Charge Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 021 \end{aligned}$ | Estimated Usage Rate | OPC | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 022 \end{aligned}$ | Estimated Usage Rate | Stripper | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| 7-960- | Estimated Usage Rate | \#Dev Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 023 |  |  |  |  |
| $\begin{aligned} & 7-960- \\ & 024 \end{aligned}$ | Estimated Usage Rate | Developer | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 025 \end{aligned}$ | Estimated Usage Rate | Development Filter | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 028 \end{aligned}$ | Estimated Usage Rate | Bearing:Development Screw | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 108 \end{aligned}$ | Estimated Usage Rate | Paper Transfer Roller Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 115 \end{aligned}$ | Estimated Usage Rate | Fusing Unit | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 116 \end{aligned}$ | Estimated Usage Rate | Fusing Belt | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 118 \end{aligned}$ | Estimated Usage Rate | Pressure Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 119 \end{aligned}$ | Estimated Usage Rate | Bearing:Pressure Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 142 \end{aligned}$ | Estimated Usage Rate | Waste Toner bottle | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 206 \end{aligned}$ | Estimated Usage Rate | ADF Pick-up Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 207 \end{aligned}$ | Estimated Usage Rate | ADF Supply Belt | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-960- \\ & 208 \end{aligned}$ | Estimated Usage Rate | ADF Reverse Roller | ENG | [ 0 to $255 / 0 / 1 \%$ ] |
| $\begin{aligned} & 7-979- \\ & 001 \end{aligned}$ | CPU Reset Log | Data1 | ENG* | [ 0 x 00 to $0 \mathrm{xFF} / 0 \mathrm{x} 00$ / 1] |
| $\begin{aligned} & 7-979- \\ & 002 \end{aligned}$ | CPU Reset Log | Data2 | ENG* | [ $0 \times 0000$ to $0 x F F F F /$ $0 \times 0000 / 1]$ |
| 7-979- $003$ | CPU Reset Log | Data3 | ENG* | [ $0 \times 0000$ to $0 x F F F F /$ $0 \times 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 004 \end{aligned}$ | CPU Reset Log | Data4 | ENG* | [ $0 \times 0000$ to $0 x F F F F /$ $0 \times 0000 / 1]$ |
| 7-979- $005$ | CPU Reset Log | Data5 | ENG* | [ $0 \times 0000$ to $0 x F F F F /$ $0 \times 0000 / 1]$ |
| 7-979- | CPU Reset Log | Data6 | ENG* | [ $0 \times 0000$ to $0 \times \mathrm{FFFF} /$ |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 006 |  |  |  | 0x0000 / 1] |
| $\begin{aligned} & 7-979- \\ & 007 \end{aligned}$ | CPU Reset Log | Data7 | ENG* | [ 0x0000 to 0xFFFF / 0x0000 / 1] |
| $\begin{aligned} & 7-979- \\ & 008 \end{aligned}$ | CPU Reset Log | Data8 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 009 \end{aligned}$ | CPU Reset Log | Data 9 | ENG* | [ $0 \times 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 010 \end{aligned}$ | CPU Reset Log | Data10 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ 0x0000 / 1] |
| $\begin{aligned} & 7-979- \\ & 011 \end{aligned}$ | CPU Reset Log | Data11 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 012 \end{aligned}$ | CPU Reset Log | Data12 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 013 \end{aligned}$ | CPU Reset Log | Data13 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & \text { 7-979- } \\ & 014 \end{aligned}$ | CPU Reset Log | Data14 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ 0x0000 / 1] |
| $\begin{aligned} & 7-979- \\ & 015 \end{aligned}$ | CPU Reset Log | Data15 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 \times 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 016 \end{aligned}$ | CPU Reset Log | Data16 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 017 \end{aligned}$ | CPU Reset Log | Data17 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ 0x0000 / 1] |
| $\begin{aligned} & 7-979- \\ & 018 \end{aligned}$ | CPU Reset Log | Data18 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 019 \end{aligned}$ | CPU Reset Log | Data19 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ 0x0000 / 1] |
| $\begin{aligned} & 7-979- \\ & 020 \end{aligned}$ | CPU Reset Log | Data20 | ENG* | [ $0 x 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |
| $\begin{aligned} & 7-979- \\ & 021 \end{aligned}$ | CPU Reset Log | Data21 | ENG* | [ $0 \times 0000$ to $0 x F F F F /$ $0 x 0000 / 1]$ |

## SP Group 8000

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 8-001- \\ & 001 \end{aligned}$ | T:Total Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-002- \\ & 001 \end{aligned}$ | C:Total Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-003- \\ & 001 \end{aligned}$ | F:Total Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-004- \\ & 001 \end{aligned}$ | P :Total Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-005- \\ & 001 \end{aligned}$ | S:Total Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-006- \\ & 001 \end{aligned}$ | L:Total Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-011- \\ & 001 \end{aligned}$ | T:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-012- \\ & 001 \end{aligned}$ | C:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-013- \\ & 001 \end{aligned}$ | F:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-014- \\ & 001 \end{aligned}$ | P:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-015- \\ & 001 \end{aligned}$ | S:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-016- \\ & 001 \end{aligned}$ | L:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-017- \\ & 001 \end{aligned}$ | O:Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-021- \\ & 001 \end{aligned}$ | T:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-022- \\ & 001 \end{aligned}$ | C:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-023- \\ & 001 \end{aligned}$ | F:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-024- \\ & 001 \end{aligned}$ | P:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-025- | S:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-026- \\ & 001 \end{aligned}$ | L:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-027- \\ & 001 \end{aligned}$ | O:Pjob/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-031- \\ & 001 \end{aligned}$ | T:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-032- \\ & 001 \end{aligned}$ | C:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-033- \\ & 001 \end{aligned}$ | F:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-034- \\ & 001 \end{aligned}$ | P:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-035- \\ & 001 \end{aligned}$ | S:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-036- <br> 001 | L:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-037- \\ & 001 \end{aligned}$ | O:Pjob/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-041- <br> 001 | T:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-042- \\ & 001 \end{aligned}$ | C:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-043- \\ & 001 \end{aligned}$ | F:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-044- \\ & 001 \end{aligned}$ | P:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-045- \\ & 001 \end{aligned}$ | S:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-046- \\ & 001 \end{aligned}$ | L:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-047- \\ & 001 \end{aligned}$ | O:TX Jobs/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-051- \\ & 001 \end{aligned}$ | T:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-052- | C:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-053- \\ & 001 \end{aligned}$ | F:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-054- \\ & 001 \end{aligned}$ | P:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-055- \\ & 001 \end{aligned}$ | S:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-056- \\ & 001 \end{aligned}$ | L:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-057- \\ & 001 \end{aligned}$ | O:TX Jobs/DesApl |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 001 \end{aligned}$ | T:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 002 \end{aligned}$ | T:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 003 \end{aligned}$ | T:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 004 \end{aligned}$ | T:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 005 \end{aligned}$ | T:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 006 \end{aligned}$ | T:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 007 \end{aligned}$ | T:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 008 \end{aligned}$ | T:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 009 \end{aligned}$ | T:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 010 \end{aligned}$ | T:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 011 \end{aligned}$ | T:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 012 \end{aligned}$ | T:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-061- | T:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 013 |  |  |  |  |
| $\begin{aligned} & 8-061- \\ & 014 \end{aligned}$ | T:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 015 \end{aligned}$ | T:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-061- \\ & 016 \end{aligned}$ | T:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 001 \end{aligned}$ | C:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 002 \end{aligned}$ | C:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 003 \end{aligned}$ | C:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 004 \end{aligned}$ | C:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 005 \end{aligned}$ | C:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 006 \end{aligned}$ | C:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 007 \end{aligned}$ | C:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 008 \end{aligned}$ | C:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 009 \end{aligned}$ | C:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 010 \end{aligned}$ | C:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 011 \end{aligned}$ | C:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 012 \end{aligned}$ | C:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-062- \\ & 013 \end{aligned}$ | C:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / $0 / 1$ ] |
| $\begin{aligned} & 8-062- \\ & 014 \end{aligned}$ | C:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-062- | C:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 015 |  |  |  |  |
| $\begin{aligned} & 8-062- \\ & 016 \end{aligned}$ | C:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 001 \end{aligned}$ | F:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 002 \end{aligned}$ | F:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 003 \end{aligned}$ | F:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 004 \end{aligned}$ | F:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 005 \end{aligned}$ | F:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 006 \end{aligned}$ | F:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-063- <br> 007 | F:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 008 \end{aligned}$ | F:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 009 \end{aligned}$ | F:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 010 \end{aligned}$ | F:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 011 \end{aligned}$ | F:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 012 \end{aligned}$ | F:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 013 \end{aligned}$ | F:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 014 \end{aligned}$ | F:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-063- <br> 015 | F:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-063- \\ & 016 \end{aligned}$ | F:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-064- | P:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-064- \\ & 002 \end{aligned}$ | P:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 003 \end{aligned}$ | P:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 004 \end{aligned}$ | P:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 005 \end{aligned}$ | P:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 006 \end{aligned}$ | P:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 007 \end{aligned}$ | P:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 008 \end{aligned}$ | P:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 009 \end{aligned}$ | P:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 010 \end{aligned}$ | P:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 011 \end{aligned}$ | P:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 012 \end{aligned}$ | P:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 013 \end{aligned}$ | P:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 014 \end{aligned}$ | P:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 015 \end{aligned}$ | P:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-064- \\ & 016 \end{aligned}$ | P:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-065- <br> 001 | S:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 002 \end{aligned}$ | S:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-065- | S:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 8-065- \\ & 004 \end{aligned}$ | S:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 005 \end{aligned}$ | S:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 006 \end{aligned}$ | S:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 007 \end{aligned}$ | S:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 008 \end{aligned}$ | S:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 009 \end{aligned}$ | S:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 010 \end{aligned}$ | S:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 011 \end{aligned}$ | S:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 012 \end{aligned}$ | S:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 013 \end{aligned}$ | S:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 014 \end{aligned}$ | S:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 015 \end{aligned}$ | S:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-065- \\ & 016 \end{aligned}$ | S:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-066- <br> 001 | L:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 002 \end{aligned}$ | L:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 003 \end{aligned}$ | L:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 004 \end{aligned}$ | L:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-066- | L:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 8-066- \\ & 006 \end{aligned}$ | L:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 007 \end{aligned}$ | L:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 008 \end{aligned}$ | L:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 009 \end{aligned}$ | L:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 010 \end{aligned}$ | L:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 011 \\ & \hline \end{aligned}$ | L:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 012 \end{aligned}$ | L:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-066- <br> 013 | L:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 014 \end{aligned}$ | L:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-066- <br> 015 | L:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-066- \\ & 016 \end{aligned}$ | L:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 001 \end{aligned}$ | O:FIN Jobs | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 002 \end{aligned}$ | O:FIN Jobs | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 003 \end{aligned}$ | O:FIN Jobs | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 004 \end{aligned}$ | O:FIN Jobs | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 005 \end{aligned}$ | O:FIN Jobs | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 006 \end{aligned}$ | O:FIN Jobs | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-067- | O:FIN Jobs | Other | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  |  |
| $\begin{aligned} & 8-067- \\ & 008 \end{aligned}$ | O:FIN Jobs | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 009 \end{aligned}$ | O:FIN Jobs | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 010 \end{aligned}$ | O:FIN Jobs | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 011 \end{aligned}$ | O:FIN Jobs | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 012 \end{aligned}$ | O:FIN Jobs | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 013 \end{aligned}$ | O:FIN Jobs | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-067- <br> 014 | O:FIN Jobs | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-067- <br> 015 | O:FIN Jobs | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-067- \\ & 016 \end{aligned}$ | O:FIN Jobs | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 001 \end{aligned}$ | T:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 002 \end{aligned}$ | T:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 003 \end{aligned}$ | T:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 004 \end{aligned}$ | T:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 005 \end{aligned}$ | T:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 006 \end{aligned}$ | T:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 007 \end{aligned}$ | T:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 008 \end{aligned}$ | T:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-071- | T:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & 8-071- \\ & 010 \end{aligned}$ | T:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 011 \end{aligned}$ | T:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 012 \end{aligned}$ | T:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 013 \end{aligned}$ | T:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-071- \\ & 014 \end{aligned}$ | T:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 001 \end{aligned}$ | C:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 002 \end{aligned}$ | C:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 003 \end{aligned}$ | C:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 004 \end{aligned}$ | C:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 005 \end{aligned}$ | C:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 006 \end{aligned}$ | C:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 007 \end{aligned}$ | C:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 008 \end{aligned}$ | C:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 009 \end{aligned}$ | C:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 010 \end{aligned}$ | C:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 011 \end{aligned}$ | C:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-072- \\ & 012 \end{aligned}$ | C:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-072- | C:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 013 |  |  |  |  |
| $\begin{aligned} & 8-072- \\ & 014 \end{aligned}$ | C:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 001 \end{aligned}$ | F:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 002 \end{aligned}$ | F:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 003 \end{aligned}$ | F:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 004 \end{aligned}$ | F:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 005 \end{aligned}$ | F:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 006 \end{aligned}$ | F:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 007 \end{aligned}$ | F:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 008 \end{aligned}$ | F:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 009 \end{aligned}$ | F:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 010 \end{aligned}$ | F:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 011 \end{aligned}$ | F:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 012 \end{aligned}$ | F:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 013 \end{aligned}$ | F:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-073- \\ & 014 \end{aligned}$ | F:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 001 \end{aligned}$ | P:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 002 \end{aligned}$ | P:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-074- | P:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 8-074- \\ & 004 \end{aligned}$ | P:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 005 \end{aligned}$ | P:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 006 \end{aligned}$ | P:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 007 \end{aligned}$ | P:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 008 \end{aligned}$ | P:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 009 \end{aligned}$ | P:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 010 \end{aligned}$ | P:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 011 \end{aligned}$ | P:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 012 \end{aligned}$ | P:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 013 \end{aligned}$ | P:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-074- \\ & 014 \end{aligned}$ | P:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 001 \end{aligned}$ | S:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 002 \end{aligned}$ | S:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 003 \end{aligned}$ | S:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 004 \end{aligned}$ | S:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 005 \end{aligned}$ | S:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 006 \end{aligned}$ | S:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-075- | S:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  |  |
| $\begin{aligned} & 8-075- \\ & 008 \end{aligned}$ | S:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 009 \end{aligned}$ | S:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 010 \end{aligned}$ | S:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 011 \end{aligned}$ | S:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 012 \end{aligned}$ | S:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 013 \end{aligned}$ | S:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-075- \\ & 014 \end{aligned}$ | S:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 001 \end{aligned}$ | L:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 002 \end{aligned}$ | L:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 003 \end{aligned}$ | L:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 004 \end{aligned}$ | L:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 005 \end{aligned}$ | L:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 006 \end{aligned}$ | L:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 007 \end{aligned}$ | L:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 008 \end{aligned}$ | L:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 009 \end{aligned}$ | L:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 010 \end{aligned}$ | L:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-076- | L:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  |  |
| $\begin{aligned} & 8-076- \\ & 012 \end{aligned}$ | L:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 013 \end{aligned}$ | L:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-076- \\ & 014 \end{aligned}$ | L:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 001 \end{aligned}$ | O:Jobs/PGS | 1 Page | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 002 \end{aligned}$ | O:Jobs/PGS | 2 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 003 \end{aligned}$ | O:Jobs/PGS | 3 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 004 \end{aligned}$ | O:Jobs/PGS | 4 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 005 \end{aligned}$ | O:Jobs/PGS | 5 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 006 \end{aligned}$ | O:Jobs/PGS | 6~10 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 007 \end{aligned}$ | O:Jobs/PGS | 11~20 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 008 \end{aligned}$ | O:Jobs/PGS | 21~50 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 009 \end{aligned}$ | O:Jobs/PGS | 51~100 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 010 \end{aligned}$ | O:Jobs/PGS | 101~300 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 011 \end{aligned}$ | O:Jobs/PGS | 301~500 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 012 \end{aligned}$ | O:Jobs/PGS | 501~700 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 013 \end{aligned}$ | O:Jobs/PGS | 701~1000 Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-077- \\ & 014 \end{aligned}$ | O:Jobs/PGS | 1001~ Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-081- | T:Smart Device | Smart Device | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-082- \\ & 001 \end{aligned}$ | C:Smart Device | Smart Device | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-083- \\ & 001 \end{aligned}$ | F:Smart Device | Smart Device | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-084- <br> 001 | P:Smart Device | Smart Device | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-085- \\ & 001 \end{aligned}$ | S:Smart Device | Smart Device | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & \hline 8-111- \\ & 001 \end{aligned}$ | T:FAX TX Jobs | B/W(Tel) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-111- \\ & 101 \end{aligned}$ | T:FAX TX Jobs | B/W(Cloud) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-113- \\ & 001 \end{aligned}$ | F:FAX TX Jobs | B/W(Tel) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-113- \\ & 101 \end{aligned}$ | F:FAX TX Jobs | B/W(Cloud) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-121- \\ & 001 \end{aligned}$ | T:IFAX TX Jobs | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-123- \\ & 001 \end{aligned}$ | F:IFAX TX Jobs | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-131- \\ & 001 \end{aligned}$ | T:S-to-Email Jobs | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-131- \\ & 002 \end{aligned}$ | T:S-to-Email Jobs | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-131- \\ & 003 \end{aligned}$ | T:S-to-Email Jobs | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-135- \\ & 001 \end{aligned}$ | S:S-to-Email Jobs | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-135- \\ & 002 \end{aligned}$ | S:S-to-Email Jobs | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-135- \\ & 003 \end{aligned}$ | S:S-to-Email Jobs | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-141- \\ & 001 \end{aligned}$ | T:Deliv Jobs/Svr | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-141- | T:Deliv Jobs/Svr | Color | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 |  |  |  |  |
| $\begin{aligned} & 8-141- \\ & 003 \end{aligned}$ | T:Deliv Jobs/Svr | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-145- \\ & 001 \end{aligned}$ | S:Deliv Jobs/Svr | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-145- \\ & 002 \end{aligned}$ | S:Deliv Jobs/Svr | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-145- \\ & 003 \end{aligned}$ | S:Deliv Jobs/Svr | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-151- \\ & 001 \end{aligned}$ | T:Deliv Jobs/PC | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-151- \\ & 002 \end{aligned}$ | T:Deliv Jobs/PC | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-151- \\ & 003 \end{aligned}$ | T:Deliv Jobs/PC | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-155- \\ & 001 \end{aligned}$ | S:Deliv Jobs/PC | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-155- \\ & 002 \end{aligned}$ | S:Deliv Jobs/PC | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-155- \\ & 003 \end{aligned}$ | S:Deliv Jobs/PC | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-161- \\ & 001 \end{aligned}$ | T:PCFAX TX Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-163- <br> 001 | F:PCFAX TX Jobs |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-171- \\ & 001 \end{aligned}$ | T:Deliv <br> Jobs/WSD/DSM | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-171- \\ & 002 \end{aligned}$ | T:Deliv <br> Jobs/WSD/DSM | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-171- \\ & 003 \end{aligned}$ | T:Deliv <br> Jobs/WSD/DSM | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-175- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { S:Deliv } \\ & \text { Jobs/WSD/DSM } \end{aligned}$ | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-175- \\ & 002 \end{aligned}$ | $\begin{aligned} & \text { S:Deliv } \\ & \text { Jobs/WSD/DSM } \end{aligned}$ | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-175- | S:Deliv | ACS | CTL* | [ 0 to 99999999 / $0 / 1$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 | Jobs/WSD/DSM |  |  |  |
| $\begin{aligned} & 8-181- \\ & 001 \end{aligned}$ | T:Scan to Media Jobs | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-181- \\ & 002 \end{aligned}$ | T:Scan to Media Jobs | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-181- \\ & 003 \end{aligned}$ | T:Scan to Media Jobs | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-185- \\ & 001 \end{aligned}$ | S:Scan to Media Jobs | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-185- \\ & 002 \end{aligned}$ | S:Scan to Media Jobs | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-185- \\ & 003 \end{aligned}$ | S:Scan to Media Jobs | ACS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-191- \\ & 001 \end{aligned}$ | T:Total Scan PGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-192- \\ & 001 \end{aligned}$ | C:Total Scan PGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-193- \\ & 001 \end{aligned}$ | F:Total Scan PGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-195- \\ & 001 \end{aligned}$ | S:Total Scan PGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-196- \\ & 001 \end{aligned}$ | L:Total Scan PGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-201- \\ & 001 \end{aligned}$ | T:LSize Scan PGS | A3/DLT, Larger | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-203- \\ & 001 \end{aligned}$ | F:LSize Scan PGS | A3/DLT, Larger | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-205- \\ & 001 \end{aligned}$ | S:LSize Scan PGS | A3/DLT, Larger | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-211- \\ & 001 \end{aligned}$ | T:Scan PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-212- \\ & 001 \end{aligned}$ | C:Scan PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-213- \\ & 001 \end{aligned}$ | F:Scan PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-215- | S:Scan PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-216- \\ & 001 \end{aligned}$ | L:Scan PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-221- \\ & 001 \end{aligned}$ | ADF Org Feeds | Front | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-221- \\ & 002 \end{aligned}$ | ADF Org Feeds | Back | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-231- \\ & 001 \end{aligned}$ | Scan PGS/Mode | Large Volume | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-231- \\ & 002 \end{aligned}$ | Scan PGS/Mode | SADF | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-231- \\ & 003 \end{aligned}$ | Scan PGS/Mode | Mixed Size | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-231- \\ & 004 \end{aligned}$ | Scan PGS/Mode | Custom Size | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-231- \\ & 005 \end{aligned}$ | Scan PGS/Mode | Platen | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-231- \\ & 006 \end{aligned}$ | Scan PGS/Mode | Mixed 1side/2side | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 001 \end{aligned}$ | T:Scan PGS/Org | Text | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 002 \end{aligned}$ | T:Scan PGS/Org | Text/Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 003 \end{aligned}$ | T:Scan PGS/Org | Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 004 \end{aligned}$ | T:Scan PGS/Org | GenCopy, Pale | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 005 \end{aligned}$ | T:Scan PGS/Org | Map | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 006 \end{aligned}$ | T:Scan PGS/Org | Normal/Detail | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 007 \end{aligned}$ | T:Scan PGS/Org | Fine/Super Fine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 008 \end{aligned}$ | T:Scan PGS/Org | Binary | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-241- | T:Scan PGS/Org | Grayscale | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & 8-241- \\ & 010 \end{aligned}$ | T:Scan PGS/Org | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-241- \\ & 011 \end{aligned}$ | T:Scan PGS/Org | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-242- \\ & 001 \end{aligned}$ | C:Scan PGS/Org | Text | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-242- \\ & 002 \end{aligned}$ | C:Scan PGS/Org | Text/Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-242- \\ & 003 \end{aligned}$ | C:Scan PGS/Org | Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-242- \\ & 004 \end{aligned}$ | C:Scan PGS/Org | GenCopy, Pale | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-242- \\ & 005 \end{aligned}$ | C:Scan PGS/Org | Map | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-242- \\ & 011 \end{aligned}$ | C:Scan PGS/Org | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-243- \\ & 001 \end{aligned}$ | F:Scan PGS/Org | Text | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-243- <br> 002 | F:Scan PGS/Org | Text/Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-243- \\ & 003 \end{aligned}$ | F:Scan PGS/Org | Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-243- \\ & 006 \end{aligned}$ | F:Scan PGS/Org | Normal/Detail | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-243- \\ & 007 \end{aligned}$ | F:Scan PGS/Org | Fine/Super Fine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-243- \\ & 011 \end{aligned}$ | F:Scan PGS/Org | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-245- \\ & 001 \end{aligned}$ | S:Scan PGS/Org | Text | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-245- \\ & 002 \end{aligned}$ | S:Scan PGS/Org | Text/Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-245- \\ & 003 \end{aligned}$ | S:Scan PGS/Org | Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-245- | S:Scan PGS/Org | GenCopy, Pale | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-245- \\ & 008 \end{aligned}$ | S:Scan PGS/Org | Binary | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-245- \\ & 009 \end{aligned}$ | S:Scan PGS/Org | Grayscale | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-245- \\ & 010 \end{aligned}$ | S:Scan PGS/Org | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-245- \\ & 011 \end{aligned}$ | S:Scan PGS/Org | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-246- \\ & 001 \end{aligned}$ | L:Scan PGS/Org | Text | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-246- \\ & 002 \end{aligned}$ | L:Scan PGS/Org | Text/Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-246- \\ & 003 \end{aligned}$ | L:Scan PGS/Org | Photo | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-246- \\ & 004 \end{aligned}$ | L:Scan PGS/Org | GenCopy, Pale | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-246- \\ & 005 \end{aligned}$ | L:Scan PGS/Org | Map | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-246- \\ & 011 \end{aligned}$ | L:Scan PGS/Org | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-251- \\ & 001 \end{aligned}$ | T:Scan PGS/ImgEdt |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-252001 | C:Scan PGS/ImgEdt |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-255- \\ & 001 \end{aligned}$ | S:Scan PGS/ImgEdt |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-256- \\ & 001 \end{aligned}$ | L:Scan PGS/ImgEdt |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-257- \\ & 001 \end{aligned}$ | O:Scan PGS/ImgEdt |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-281- \\ & 001 \end{aligned}$ | T:Scan PGS/TWAIN |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-285- \\ & 001 \end{aligned}$ | S:Scan PGS/TWAIN |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-291- | T:Scan PGS/Stamp |  | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-293- \\ & 001 \end{aligned}$ | F:Scan PGS/Stamp |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-295- \\ & 001 \end{aligned}$ | S:Scan PGS/Stamp |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 001 \end{aligned}$ | T:Scan PGS/Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 002 \end{aligned}$ | T:Scan PGS/Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 003 \end{aligned}$ | T:Scan PGS/Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 004 \end{aligned}$ | T:Scan PGS/Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 005 \end{aligned}$ | T:Scan PGS/Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 006 \end{aligned}$ | T:Scan PGS/Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & \hline 8-301- \\ & 007 \end{aligned}$ | T:Scan PGS/Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 008 \end{aligned}$ | T:Scan PGS/Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 009 \end{aligned}$ | T:Scan PGS/Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 010 \end{aligned}$ | T:Scan PGS/Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 254 \end{aligned}$ | T:Scan PGS/Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-301- \\ & 255 \end{aligned}$ | T:Scan PGS/Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 001 \end{aligned}$ | C:Scan PGS/Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 002 \end{aligned}$ | C:Scan PGS/Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 003 \end{aligned}$ | C:Scan PGS/Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-302- | C:Scan PGS/Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-302- \\ & 005 \end{aligned}$ | C:Scan PGS/Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 006 \end{aligned}$ | C:Scan PGS/Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 007 \end{aligned}$ | C:Scan PGS/Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 008 \end{aligned}$ | C:Scan PGS/Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 009 \end{aligned}$ | C:Scan PGS/Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 010 \end{aligned}$ | C:Scan PGS/Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 254 \end{aligned}$ | C:Scan PGS/Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-302- \\ & 255 \end{aligned}$ | C:Scan PGS/Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 001 \end{aligned}$ | F:Scan PGS/Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 002 \end{aligned}$ | F:Scan PGS/Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 003 \end{aligned}$ | F:Scan PGS/Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 004 \end{aligned}$ | F:Scan PGS/Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 005 \end{aligned}$ | F:Scan PGS/Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 006 \end{aligned}$ | F:Scan PGS/Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 007 \end{aligned}$ | F:Scan PGS/Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 008 \end{aligned}$ | F:Scan PGS/Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 009 \end{aligned}$ | F:Scan PGS/Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-303- | F:Scan PGS/Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 010 |  |  |  |  |
| $\begin{aligned} & 8-303- \\ & 254 \end{aligned}$ | F:Scan PGS/Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-303- \\ & 255 \end{aligned}$ | F:Scan PGS/Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 001 \end{aligned}$ | S:Scan PGS/Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 002 \end{aligned}$ | S:Scan PGS/Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 003 \end{aligned}$ | S:Scan PGS/Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 004 \end{aligned}$ | S:Scan PGS/Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 005 \end{aligned}$ | S:Scan PGS/Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 006 \end{aligned}$ | S:Scan PGS/Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & \hline 8-305- \\ & 007 \end{aligned}$ | S:Scan PGS/Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 008 \end{aligned}$ | S:Scan PGS/Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 009 \end{aligned}$ | S:Scan PGS/Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 010 \end{aligned}$ | S:Scan PGS/Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 254 \end{aligned}$ | S:Scan PGS/Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-305- \\ & 255 \end{aligned}$ | S:Scan PGS/Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 001 \end{aligned}$ | L:Scan PGS/Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 002 \end{aligned}$ | L:Scan PGS/Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 003 \end{aligned}$ | L:Scan PGS/Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-306- | L:Scan PGS/Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-306- \\ & 005 \end{aligned}$ | L:Scan PGS/Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 006 \end{aligned}$ | L:Scan PGS/Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 007 \end{aligned}$ | L:Scan PGS/Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 008 \end{aligned}$ | L:Scan PGS/Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 009 \end{aligned}$ | L:Scan PGS/Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 010 \end{aligned}$ | L:Scan PGS/Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 254 \end{aligned}$ | L:Scan PGS/Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-306- \\ & 255 \end{aligned}$ | L:Scan PGS/Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-311- \\ & 001 \end{aligned}$ | T:Scan PGS/Rez | 1200dpi ~ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-311- \\ & 002 \end{aligned}$ | T:Scan PGS/Rez | 600dpi~1199dpi | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-311- \\ & 003 \end{aligned}$ | T:Scan PGS/Rez | 400dpi~599dpi | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-311- <br> 004 | T:Scan PGS/Rez | 200dpi~399dpi | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-311- \\ & 005 \end{aligned}$ | T:Scan PGS/Rez | $\sim 199 \mathrm{dpi}$ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-315- \\ & 001 \end{aligned}$ | S:Scan PGS/Rez | 1200dpi ~ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-315- \\ & 002 \end{aligned}$ | S:Scan PGS/Rez | 600dpi~1199dpi | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-315- \\ & 003 \end{aligned}$ | S:Scan PGS/Rez | 400dpi~599dpi | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-315- \\ & 004 \end{aligned}$ | S:Scan PGS/Rez | 200dpi~399dpi | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-315- | S:Scan PGS/Rez | $\sim 199$ dpi | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 8-321- \\ & 001 \end{aligned}$ | T:Sacn Poster | 2 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-321- \\ & 002 \end{aligned}$ | T:Sacn Poster | 4 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-321- \\ & 003 \end{aligned}$ | T:Sacn Poster | 9 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-322- \\ & 001 \end{aligned}$ | C:Sacn Poster | 2 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-322- \\ & 002 \end{aligned}$ | C:Sacn Poster | 4 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-322- \\ & 003 \end{aligned}$ | C:Sacn Poster | 9 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-326- \\ & 001 \end{aligned}$ | L:Sacn Poster | 2 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-326- \\ & 002 \end{aligned}$ | L:Sacn Poster | 4 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-326- \\ & 003 \end{aligned}$ | L:Sacn Poster | 9 Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-381- \\ & 001 \end{aligned}$ | T:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-382- \\ & 001 \end{aligned}$ | C:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-383- <br> 001 | F:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-384- \\ & 001 \end{aligned}$ | P:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-385- \\ & 001 \end{aligned}$ | S:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-386- \\ & 001 \end{aligned}$ | L:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-387- \\ & 001 \end{aligned}$ | O:Total PrtPGS | Field Number | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-391- \\ & 001 \end{aligned}$ | LSize PrtPGS | A3/DLT, Larger | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-401- | T:PrtPGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-402- \\ & 001 \end{aligned}$ | C:PrtPGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-403- \\ & 001 \end{aligned}$ | F:PrtPGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-404- \\ & 001 \end{aligned}$ | P:PrtPGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-405- \\ & 001 \end{aligned}$ | S:PrtPGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-406- \\ & 001 \end{aligned}$ | L:PrtPGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-411- \\ & 001 \end{aligned}$ | Prints/Duplex |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 001 \end{aligned}$ | T:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 002 \end{aligned}$ | T:PrtPGS/Dup Comb | Duplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 003 \end{aligned}$ | T:PrtPGS/Dup Comb | Book> Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 004 \end{aligned}$ | T:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 005 \end{aligned}$ | T:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 006 \end{aligned}$ | T:PrtPGS/Dup Comb | 2in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 007 \end{aligned}$ | T:PrtPGS/Dup Comb | 4 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 008 \end{aligned}$ | T:PrtPGS/Dup Comb | 6 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 009 \end{aligned}$ | T:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 010 \end{aligned}$ | T:PrtPGS/Dup Comb | 9 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 011 \end{aligned}$ | T:PrtPGS/Dup Comb | 16in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-421- | T:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 012 |  |  |  |  |
| $\begin{aligned} & 8-421- \\ & 013 \end{aligned}$ | T:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 014 \end{aligned}$ | T:PrtPGS/Dup Comb | 2in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 015 \end{aligned}$ | T:PrtPGS/Dup Comb | $4 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 016 \end{aligned}$ | T:PrtPGS/Dup Comb | $6 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 017 \end{aligned}$ | T:PrtPGS/Dup Comb | $8 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 018 \end{aligned}$ | T:PrtPGS/Dup Comb | $9 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 019 \end{aligned}$ | T:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 020 \end{aligned}$ | T:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 021 \end{aligned}$ | T:PrtPGS/Dup Comb | 6in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 022 \end{aligned}$ | T:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 023 \end{aligned}$ | T:PrtPGS/Dup Comb | 9in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-421- \\ & 024 \end{aligned}$ | T:PrtPGS/Dup Comb | 16in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 001 \end{aligned}$ | C:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 002 \end{aligned}$ | C:PrtPGS/Dup Comb | Duplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 003 \end{aligned}$ | C:PrtPGS/Dup Comb | Book> Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 004 \end{aligned}$ | C:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 005 \end{aligned}$ | C:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-422- | C:PrtPGS/Dup Comb | 2in1 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 006 |  |  |  |  |
| $\begin{aligned} & 8-422- \\ & 007 \end{aligned}$ | C:PrtPGS/Dup Comb | 4in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 009 \end{aligned}$ | C:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 012 \end{aligned}$ | C:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 013 \end{aligned}$ | C:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 014 \end{aligned}$ | C:PrtPGS/Dup Comb | $2 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 015 \end{aligned}$ | C:PrtPGS/Dup Comb | 4in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 017 \end{aligned}$ | C:PrtPGS/Dup Comb | 8in $1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 019 \end{aligned}$ | C:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 020 \end{aligned}$ | C:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-422- \\ & 022 \end{aligned}$ | C:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 001 \end{aligned}$ | F:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 004 \end{aligned}$ | F:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 005 \end{aligned}$ | F:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 006 \end{aligned}$ | F:PrtPGS/Dup Comb | 2in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 007 \end{aligned}$ | F:PrtPGS/Dup Comb | 4in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 009 \end{aligned}$ | F:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 011 \end{aligned}$ | F:PrtPGS/Dup Comb | 16 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-423- | F:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 012 |  |  |  |  |
| $\begin{aligned} & 8-423- \\ & 013 \end{aligned}$ | F:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 014 \end{aligned}$ | F:PrtPGS/Dup Comb | 2in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 015 \end{aligned}$ | F:PrtPGS/Dup Comb | $4 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 017 \end{aligned}$ | F:PrtPGS/Dup Comb | $8 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 019 \end{aligned}$ | F:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 020 \end{aligned}$ | F:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 022 \end{aligned}$ | F:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-423- \\ & 024 \end{aligned}$ | F:PrtPGS/Dup Comb | 16in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 001 \end{aligned}$ | P:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 004 \end{aligned}$ | P:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 005 \end{aligned}$ | P:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-424- <br> 006 | P:PrtPGS/Dup Comb | 2in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 007 \end{aligned}$ | P:PrtPGS/Dup Comb | 4in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 008 \end{aligned}$ | P:PrtPGS/Dup Comb | 6 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 009 \end{aligned}$ | P:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 010 \end{aligned}$ | P:PrtPGS/Dup Comb | 9 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 011 \end{aligned}$ | P:PrtPGS/Dup Comb | 16 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-424- | P:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 012 |  |  |  |  |
| $\begin{aligned} & 8-424- \\ & 013 \end{aligned}$ | P:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 014 \end{aligned}$ | P:PrtPGS/Dup Comb | $2 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 015 \end{aligned}$ | P:PrtPGS/Dup Comb | 4in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 016 \end{aligned}$ | P:PrtPGS/Dup Comb | 6 in $1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 017 \end{aligned}$ | P:PrtPGS/Dup Comb | 8in $1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 018 \end{aligned}$ | P:PrtPGS/Dup Comb | 9in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 019 \end{aligned}$ | P:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 020 \end{aligned}$ | P:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 021 \end{aligned}$ | P:PrtPGS/Dup Comb | $6 \mathrm{in} 1+$ Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 022 \end{aligned}$ | P:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 023 \end{aligned}$ | P:PrtPGS/Dup Comb | 9in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-424- \\ & 024 \end{aligned}$ | P:PrtPGS/Dup Comb | 16in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 001 \end{aligned}$ | S:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 004 \end{aligned}$ | S:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 005 \end{aligned}$ | S:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 006 \end{aligned}$ | S:PrtPGS/Dup Comb | 2 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 007 \end{aligned}$ | S:PrtPGS/Dup Comb | 4in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-425- | S:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & 8-425- \\ & 010 \end{aligned}$ | S:PrtPGS/Dup Comb | 9 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 011 \end{aligned}$ | S:PrtPGS/Dup Comb | 16 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 012 \end{aligned}$ | S:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 013 \end{aligned}$ | S:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 014 \end{aligned}$ | S:PrtPGS/Dup Comb | 2in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 015 \end{aligned}$ | S:PrtPGS/Dup Comb | 4in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 017 \end{aligned}$ | S:PrtPGS/Dup Comb | 8in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 018 \end{aligned}$ | S:PrtPGS/Dup Comb | 9in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-425- <br> 019 | S:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 020 \end{aligned}$ | S:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 022 \end{aligned}$ | S:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 023 \end{aligned}$ | S:PrtPGS/Dup Comb | 9in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-425- \\ & 024 \end{aligned}$ | S:PrtPGS/Dup Comb | 16in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 001 \end{aligned}$ | L:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 004 \end{aligned}$ | L:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 005 \end{aligned}$ | L:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 006 \end{aligned}$ | L:PrtPGS/Dup Comb | 2in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-426- | L:PrtPGS/Dup Comb | 4in1 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  |  |
| $\begin{aligned} & 8-426- \\ & 009 \end{aligned}$ | L:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 011 \end{aligned}$ | L:PrtPGS/Dup Comb | 16in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 012 \end{aligned}$ | L:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 013 \end{aligned}$ | L:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 014 \end{aligned}$ | L:PrtPGS/Dup Comb | 2in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 015 \end{aligned}$ | L:PrtPGS/Dup Comb | 4in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 017 \end{aligned}$ | L:PrtPGS/Dup Comb | 8in $1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 019 \end{aligned}$ | L:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / $0 / 1$ ] |
| $\begin{aligned} & 8-426- \\ & 020 \end{aligned}$ | L:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 022 \end{aligned}$ | L:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-426- \\ & 024 \end{aligned}$ | L:PrtPGS/Dup Comb | 16in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 001 \end{aligned}$ | O:PrtPGS/Dup Comb | Simplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 002 \end{aligned}$ | O:PrtPGS/Dup Comb | Duplex $>$ Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 003 \end{aligned}$ | O:PrtPGS/Dup Comb | Book> Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 004 \end{aligned}$ | O:PrtPGS/Dup Comb | Simplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 005 \end{aligned}$ | O:PrtPGS/Dup Comb | Duplex Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 006 \end{aligned}$ | O:PrtPGS/Dup Comb | 2in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-427- | O:PrtPGS/Dup Comb | 4in1 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  |  |
| $\begin{aligned} & 8-427- \\ & 008 \end{aligned}$ | O:PrtPGS/Dup Comb | 6 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 009 \end{aligned}$ | O:PrtPGS/Dup Comb | 8in1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 010 \end{aligned}$ | O:PrtPGS/Dup Comb | 9 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 011 \end{aligned}$ | O:PrtPGS/Dup Comb | 16 in 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 012 \end{aligned}$ | O:PrtPGS/Dup Comb | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 013 \end{aligned}$ | O:PrtPGS/Dup Comb | Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 014 \end{aligned}$ | O:PrtPGS/Dup Comb | 2in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 015 \end{aligned}$ | O:PrtPGS/Dup Comb | 4in1 + Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 016 \end{aligned}$ | O:PrtPGS/Dup Comb | 6 in $1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 017 \end{aligned}$ | O:PrtPGS/Dup Comb | $8 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 018 \end{aligned}$ | O:PrtPGS/Dup Comb | $9 \mathrm{in} 1+$ Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-427- <br> 019 | O:PrtPGS/Dup Comb | 2in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 020 \end{aligned}$ | O:PrtPGS/Dup Comb | 4in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 021 \end{aligned}$ | O:PrtPGS/Dup Comb | 6in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 022 \end{aligned}$ | O:PrtPGS/Dup Comb | 8in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 023 \end{aligned}$ | O:PrtPGS/Dup Comb | 9in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-427- \\ & 024 \end{aligned}$ | O:PrtPGS/Dup Comb | 16in1 + Magazine | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-431- | T:PrtPGS/ImgEdt | Cover/Slip Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-431- \\ & 002 \end{aligned}$ | T:PrtPGS/ImgEdt | Series/Book | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-431- \\ & 003 \end{aligned}$ | T:PrtPGS/ImgEdt | User Stamp | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-432- \\ & 001 \end{aligned}$ | C:PrtPGS/ImgEdt | Cover/Slip Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-432- \\ & 002 \end{aligned}$ | C:PrtPGS/ImgEdt | Series/Book | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-432- \\ & 003 \end{aligned}$ | C:PrtPGS/ImgEdt | User Stamp | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-434- \\ & 001 \end{aligned}$ | P:PrtPGS/ImgEdt | Cover/Slip Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-434- \\ & 002 \end{aligned}$ | P:PrtPGS/ImgEdt | Series/Book | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-434- \\ & 003 \end{aligned}$ | P:PrtPGS/ImgEdt | User Stamp | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-436- \\ & 001 \end{aligned}$ | L:PrtPGS/ImgEdt | Cover/Slip Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-436- \\ & 002 \end{aligned}$ | L:PrtPGS/ImgEdt | Series/Book | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-436- \\ & 003 \end{aligned}$ | L:PrtPGS/ImgEdt | User Stamp | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-437- <br> 001 | O:PrtPGS/ImgEdt | Cover/Slip Sheet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-437- \\ & 002 \end{aligned}$ | O:PrtPGS/ImgEdt | Series/Book | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-437- \\ & 003 \end{aligned}$ | $\mathrm{O}:$ PrtPGS/ImgEdt | User Stamp | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 001 \end{aligned}$ | T:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 002 \end{aligned}$ | T:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 003 \end{aligned}$ | T:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-441- | T:PrtPGS/Ppr Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-441- \\ & 005 \end{aligned}$ | T:PrtPGS/Ppr Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 006 \end{aligned}$ | T:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 007 \end{aligned}$ | T:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 008 \end{aligned}$ | T:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 009 \end{aligned}$ | T:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 010 \end{aligned}$ | T:PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 254 \end{aligned}$ | T:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-441- \\ & 255 \end{aligned}$ | T:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 001 \end{aligned}$ | C:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 002 \end{aligned}$ | C:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 003 \\ & \hline \end{aligned}$ | C:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 004 \end{aligned}$ | 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] |
| $\begin{aligned} & 8-442- \\ & 006 \end{aligned}$ | C:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 007 \end{aligned}$ | C:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 008 \end{aligned}$ | C:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 009 \end{aligned}$ | C:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-442- | C:PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 010 |  |  |  |  |
| $\begin{aligned} & 8-442- \\ & 254 \end{aligned}$ | C:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-442- \\ & 255 \end{aligned}$ | C:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 001 \end{aligned}$ | F:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 002 \end{aligned}$ | F:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 003 \end{aligned}$ | F:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 004 \end{aligned}$ | F:PrtPGS/Ppr Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 005 \end{aligned}$ | F:PrtPGS/Ppr Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 006 \end{aligned}$ | F:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 007 \end{aligned}$ | F:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 008 \end{aligned}$ | F:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 009 \end{aligned}$ | F:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 010 \end{aligned}$ | F:PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 254 \end{aligned}$ | F:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-443- \\ & 255 \end{aligned}$ | F:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 001 \end{aligned}$ | P:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 002 \end{aligned}$ | P:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 003 \end{aligned}$ | P:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-444- | P:PrtPGS/Ppr Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-444- \\ & 005 \end{aligned}$ | P:PrtPGS/Ppr Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 006 \end{aligned}$ | P:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 007 \end{aligned}$ | P:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 008 \end{aligned}$ | P:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 009 \end{aligned}$ | P:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 010 \end{aligned}$ | $\mathrm{P}:$ PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 254 \end{aligned}$ | P:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-444- \\ & 255 \end{aligned}$ | P:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 001 \end{aligned}$ | S:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 002 \end{aligned}$ | S:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 003 \end{aligned}$ | S:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 004 \end{aligned}$ | S:PrtPGS/Ppr Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 005 \end{aligned}$ | S:PrtPGS/Ppr Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 006 \end{aligned}$ | S:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 007 \end{aligned}$ | S:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 008 \end{aligned}$ | S:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 009 \end{aligned}$ | S:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-445- | S:PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 010 |  |  |  |  |
| $\begin{aligned} & 8-445- \\ & 254 \end{aligned}$ | S:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-445- \\ & 255 \end{aligned}$ | S:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 001 \end{aligned}$ | L:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 002 \end{aligned}$ | L:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 003 \end{aligned}$ | L:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 004 \end{aligned}$ | L:PrtPGS/Ppr Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 005 \end{aligned}$ | L:PrtPGS/Ppr Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 006 \end{aligned}$ | L:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 007 \end{aligned}$ | L:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 008 \end{aligned}$ | L:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 009 \end{aligned}$ | L:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 010 \end{aligned}$ | L:PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 254 \end{aligned}$ | L:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-446- \\ & 255 \end{aligned}$ | L:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 001 \end{aligned}$ | O:PrtPGS/Ppr Size | A3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 002 \end{aligned}$ | O:PrtPGS/Ppr Size | A4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 003 \end{aligned}$ | O:PrtPGS/Ppr Size | A5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-447- | O:PrtPGS/Ppr Size | B4 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-447- \\ & 005 \end{aligned}$ | O:PrtPGS/Ppr Size | B5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 006 \end{aligned}$ | O:PrtPGS/Ppr Size | DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 007 \end{aligned}$ | O:PrtPGS/Ppr Size | LG | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 008 \end{aligned}$ | O:PrtPGS/Ppr Size | LT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 009 \end{aligned}$ | O:PrtPGS/Ppr Size | HLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 010 \end{aligned}$ | O:PrtPGS/Ppr Size | Full Bleed | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 254 \end{aligned}$ | O:PrtPGS/Ppr Size | Other (Standard) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-447- \\ & 255 \end{aligned}$ | O:PrtPGS/Ppr Size | Other (Custom) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 001 \end{aligned}$ | PrtPGS/Ppr Tray | Bypass Tray | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 002 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 003 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 2 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 004 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 005 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 006 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 007 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 6 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 008 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 7 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 009 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 8 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-451- | PrtPGS/Ppr Tray | Tray 9 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 010 |  |  |  |  |
| $\begin{aligned} & 8-451- \\ & 011 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 10 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 012 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 11 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 013 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 12 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 014 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 13 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 015 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 14 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 016 \end{aligned}$ | PrtPGS/Ppr Tray | Tray 15 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 101 \end{aligned}$ | PrtPGS/Ppr Tray | LC Inserter | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-451- \\ & 102 \end{aligned}$ | PrtPGS/Ppr Tray | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 001 \end{aligned}$ | T:PrtPGS/Ppr Type | Normal | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 002 \end{aligned}$ | T:PrtPGS/Ppr Type | Recycled | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 003 \end{aligned}$ | T:PrtPGS/Ppr Type | Special | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 004 \end{aligned}$ | T:PrtPGS/Ppr Type | Thick | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 005 \end{aligned}$ | T:PrtPGS/Ppr Type | Normal (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 006 \end{aligned}$ | T:PrtPGS/Ppr Type | Thick (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 007 \end{aligned}$ | T:PrtPGS/Ppr Type | OHP | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-461- \\ & 008 \end{aligned}$ | T:PrtPGS/Ppr Type | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-462- \\ & 001 \end{aligned}$ | C:PrtPGS/Ppr Type | Normal | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-462- | C:PrtPGS/Ppr Type | Recycled | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 |  |  |  |  |
| $\begin{aligned} & 8-462- \\ & 003 \end{aligned}$ | C:PrtPGS/Ppr Type | Special | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-462- \\ & 004 \end{aligned}$ | C:PrtPGS/Ppr Type | Thick | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-462- \\ & 005 \end{aligned}$ | C:PrtPGS/Ppr Type | Normal (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-462- \\ & 006 \end{aligned}$ | C:PrtPGS/Ppr Type | Thick (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-462- \\ & 007 \end{aligned}$ | C:PrtPGS/Ppr Type | OHP | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-462- \\ & 008 \end{aligned}$ | C:PrtPGS/Ppr Type | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 001 \end{aligned}$ | F:PrtPGS/Ppr Type | Normal | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 002 \end{aligned}$ | F:PrtPGS/Ppr Type | Recycled | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 003 \end{aligned}$ | F:PrtPGS/Ppr Type | Special | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-463004 | F:PrtPGS/Ppr Type | Thick | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 005 \end{aligned}$ | F:PrtPGS/Ppr Type | Normal (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 006 \end{aligned}$ | F:PrtPGS/Ppr Type | Thick (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 007 \end{aligned}$ | F:PrtPGS/Ppr Type | OHP | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-463- \\ & 008 \end{aligned}$ | F:PrtPGS/Ppr Type | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-464- \\ & 001 \end{aligned}$ | P:PrtPGS/Ppr Type | Normal | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-464- \\ & 002 \end{aligned}$ | P:PrtPGS/Ppr Type | Recycled | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-464- \\ & 003 \end{aligned}$ | P:PrtPGS/Ppr Type | Special | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-464- | P:PrtPGS/Ppr Type | Thick | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-464- \\ & 005 \end{aligned}$ | P:PrtPGS/Ppr Type | Normal (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-464- \\ & 006 \end{aligned}$ | P:PrtPGS/Ppr Type | Thick (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-464- \\ & 007 \end{aligned}$ | P:PrtPGS/Ppr Type | OHP | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-464- \\ & 008 \end{aligned}$ | P:PrtPGS/Ppr Type | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 001 \end{aligned}$ | L:PrtPGS/Ppr Type | Normal | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 002 \end{aligned}$ | L:PrtPGS/Ppr Type | Recycled | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 003 \end{aligned}$ | L:PrtPGS/Ppr Type | Special | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 004 \end{aligned}$ | L:PrtPGS/Ppr Type | Thick | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 005 \end{aligned}$ | L:PrtPGS/Ppr Type | Normal (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 006 \end{aligned}$ | L:PrtPGS/Ppr Type | Thick (Back) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 007 \end{aligned}$ | L:PrtPGS/Ppr Type | OHP | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-466- \\ & 008 \end{aligned}$ | L:PrtPGS/Ppr Type | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-471- \\ & 001 \end{aligned}$ | PrtPGS/Mag | $\sim 49 \%$ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-471- \\ & 002 \end{aligned}$ | PrtPGS/Mag | 50\% $\sim 99 \%$ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-471- \\ & 003 \end{aligned}$ | PrtPGS/Mag | 100\% | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-471- \\ & 004 \end{aligned}$ | PrtPGS/Mag | 101\% $200 \%$ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-471- \\ & 005 \end{aligned}$ | PrtPGS/Mag | 201\% ~ | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-481- | T:PrtPGS/TonSave |  | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-484- \\ & 001 \end{aligned}$ | P:PrtPGS/TonSave |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 001 \end{aligned}$ | T:PrtPGS/Emul | RPCS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 002 \end{aligned}$ | T:PrtPGS/Emul | RPDL | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 003 \end{aligned}$ | T:PrtPGS/Emul | PS3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 004 \end{aligned}$ | T:PrtPGS/Emul | R98 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 005 \end{aligned}$ | T:PrtPGS/Emul | R16 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 006 \end{aligned}$ | T:PrtPGS/Emul | GL/GL2 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 007 \end{aligned}$ | T:PrtPGS/Emul | R55 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 008 \end{aligned}$ | T:PrtPGS/Emul | RTIFF | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 009 \end{aligned}$ | T:PrtPGS/Emul | PDF | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 010 \end{aligned}$ | T:PrtPGS/Emul | PCL5e/5c | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 011 \end{aligned}$ | T:PrtPGS/Emul | PCL XL | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 012 \end{aligned}$ | T:PrtPGS/Emul | IPDL-C | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 013 \end{aligned}$ | T:PrtPGS/Emul | BM-Links | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 014 \end{aligned}$ | T:PrtPGS/Emul | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-511- <br> 015 | T:PrtPGS/Emul | IPDS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-511- \\ & 016 \end{aligned}$ | T:PrtPGS/Emul | XPS | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-514- | P:PrtPGS/Emul | RPCS | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-514- \\ & 002 \end{aligned}$ | P:PrtPGS/Emul | RPDL | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 003 \end{aligned}$ | P:PrtPGS/Emul | PS3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 004 \end{aligned}$ | P:PrtPGS/Emul | R98 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 005 \end{aligned}$ | P:PrtPGS/Emul | R16 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 006 \end{aligned}$ | P:PrtPGS/Emul | GL/GL2 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 007 \end{aligned}$ | P:PrtPGS/Emul | R55 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 008 \end{aligned}$ | P:PrtPGS/Emul | RTIFF | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 009 \end{aligned}$ | P:PrtPGS/Emul | PDF | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 010 \end{aligned}$ | P:PrtPGS/Emul | PCL5e/5c | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 011 \end{aligned}$ | P:PrtPGS/Emul | PCL XL | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 012 \end{aligned}$ | P:PrtPGS/Emul | IPDL-C | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 013 \end{aligned}$ | P:PrtPGS/Emul | BM-Links | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 014 \end{aligned}$ | P:PrtPGS/Emul | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 015 \end{aligned}$ | P:PrtPGS/Emul | IPDS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-514- \\ & 016 \end{aligned}$ | P:PrtPGS/Emul | XPS | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 001 \end{aligned}$ | T:PrtPGS/FIN | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 002 \end{aligned}$ | T:PrtPGS/FIN | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-521- | T:PrtPGS/FIN | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 8-521- \\ & 004 \end{aligned}$ | T:PrtPGS/FIN | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 005 \end{aligned}$ | T:PrtPGS/FIN | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 006 \end{aligned}$ | T:PrtPGS/FIN | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 007 \end{aligned}$ | T:PrtPGS/FIN | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 008 \end{aligned}$ | T:PrtPGS/FIN | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 009 \end{aligned}$ | T:PrtPGS/FIN | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 010 \end{aligned}$ | T:PrtPGS/FIN | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 011 \end{aligned}$ | T:PrtPGS/FIN | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 012 \end{aligned}$ | T:PrtPGS/FIN | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 013 \end{aligned}$ | T:PrtPGS/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 014 \end{aligned}$ | T:PrtPGS/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 015 \end{aligned}$ | T:PrtPGS/FIN | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-521- \\ & 016 \end{aligned}$ | T:PrtPGS/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 001 \end{aligned}$ | C:PrtPGS/FIN | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 002 \end{aligned}$ | C:PrtPGS/FIN | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 003 \end{aligned}$ | C:PrtPGS/FIN | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 004 \end{aligned}$ | C:PrtPGS/FIN | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-522- | C:PrtPGS/FIN | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 8-522- \\ & 006 \end{aligned}$ | C:PrtPGS/FIN | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 007 \end{aligned}$ | C:PrtPGS/FIN | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 008 \end{aligned}$ | C:PrtPGS/FIN | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 009 \end{aligned}$ | C:PrtPGS/FIN | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 010 \end{aligned}$ | C:PrtPGS/FIN | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 011 \end{aligned}$ | C:PrtPGS/FIN | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 012 \end{aligned}$ | C:PrtPGS/FIN | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 013 \end{aligned}$ | C:PrtPGS/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 014 \end{aligned}$ | C:PrtPGS/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 015 \end{aligned}$ | C:PrtPGS/FIN | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-522- \\ & 016 \end{aligned}$ | C:PrtPGS/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 001 \end{aligned}$ | F:PrtPGS/FIN | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 002 \end{aligned}$ | F:PrtPGS/FIN | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 003 \end{aligned}$ | F:PrtPGS/FIN | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 004 \end{aligned}$ | F:PrtPGS/FIN | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 005 \end{aligned}$ | F:PrtPGS/FIN | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 006 \end{aligned}$ | F:PrtPGS/FIN | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-523- | F:PrtPGS/FIN | Other | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 007 |  |  |  |  |
| $\begin{aligned} & 8-523- \\ & 008 \end{aligned}$ | F:PrtPGS/FIN | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 009 \end{aligned}$ | F:PrtPGS/FIN | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 010 \end{aligned}$ | F:PrtPGS/FIN | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 011 \end{aligned}$ | F:PrtPGS/FIN | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 012 \end{aligned}$ | F:PrtPGS/FIN | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 013 \end{aligned}$ | F:PrtPGS/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 014 \end{aligned}$ | F:PrtPGS/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 015 \end{aligned}$ | F:PrtPGS/FIN | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-523- \\ & 016 \end{aligned}$ | F:PrtPGS/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 001 \end{aligned}$ | P:PrtPGS/FIN | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 002 \end{aligned}$ | P:PrtPGS/FIN | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 003 \end{aligned}$ | P:PrtPGS/FIN | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 004 \end{aligned}$ | P:PrtPGS/FIN | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 005 \end{aligned}$ | P:PrtPGS/FIN | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 006 \end{aligned}$ | P:PrtPGS/FIN | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 007 \end{aligned}$ | P:PrtPGS/FIN | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 008 \end{aligned}$ | P:PrtPGS/FIN | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-524- | P:PrtPGS/FIN | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & 8-524- \\ & 010 \end{aligned}$ | P:PrtPGS/FIN | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 011 \end{aligned}$ | P:PrtPGS/FIN | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 012 \end{aligned}$ | $\mathrm{P}:$ PrtPGS/FIN | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 013 \end{aligned}$ | $\mathrm{P}:$ PrtPGS/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 014 \end{aligned}$ | P:PrtPGS/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 015 \end{aligned}$ | $\mathrm{P}:$ PrtPGS/FIN | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-524- \\ & 016 \end{aligned}$ | P:PrtPGS/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 001 \end{aligned}$ | S:PrtPGS/FIN | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 002 \end{aligned}$ | S:PrtPGS/FIN | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 003 \end{aligned}$ | S:PrtPGS/FIN | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 004 \end{aligned}$ | S:PrtPGS/FIN | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 005 \end{aligned}$ | S:PrtPGS/FIN | Z-Fold | CTL* | [ 0 to 99999999 / $0 / 1$ ] |
| $\begin{aligned} & 8-525- \\ & 006 \end{aligned}$ | S:PrtPGS/FIN | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 007 \end{aligned}$ | S:PrtPGS/FIN | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 008 \end{aligned}$ | S:PrtPGS/FIN | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 009 \end{aligned}$ | S:PrtPGS/FIN | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 010 \end{aligned}$ | S:PrtPGS/FIN | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-525- | S:PrtPGS/FIN | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 011 |  |  |  |  |
| $\begin{aligned} & 8-525- \\ & 012 \end{aligned}$ | S:PrtPGS/FIN | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 013 \end{aligned}$ | S:PrtPGS/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 014 \end{aligned}$ | S:PrtPGS/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 015 \end{aligned}$ | S:PrtPGS/FIN | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-525- \\ & 016 \end{aligned}$ | S:PrtPGS/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 001 \end{aligned}$ | L:PrtPGS/FIN | Sort | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 002 \end{aligned}$ | L:PrtPGS/FIN | Stack | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 003 \end{aligned}$ | L:PrtPGS/FIN | Staple | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 004 \end{aligned}$ | L:PrtPGS/FIN | Booklet | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 005 \end{aligned}$ | L:PrtPGS/FIN | Z-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 006 \end{aligned}$ | L:PrtPGS/FIN | Punch | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 007 \end{aligned}$ | L:PrtPGS/FIN | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 008 \end{aligned}$ | L:PrtPGS/FIN | Inside-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 009 \end{aligned}$ | L:PrtPGS/FIN | Three-IN-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 010 \end{aligned}$ | L:PrtPGS/FIN | Three-OUT-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 011 \end{aligned}$ | L:PrtPGS/FIN | Four-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 012 \end{aligned}$ | L:PrtPGS/FIN | KANNON-Fold | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-526- | L:PrtPGS/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 013 |  |  |  |  |
| $\begin{aligned} & 8-526- \\ & 014 \end{aligned}$ | L:PrtPGS/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 015 \end{aligned}$ | L:PrtPGS/FIN | 3rd Vendor | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-526- \\ & 016 \end{aligned}$ | L:PrtPGS/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-531- \\ & 001 \end{aligned}$ | Staple | Staples | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-531- \\ & 002 \end{aligned}$ | Staple | Stapless | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-551- \\ & 001 \end{aligned}$ | T:PrtBooks/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-551- \\ & 002 \end{aligned}$ | T:PrtBooks/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-551- \\ & 003 \end{aligned}$ | T:PrtBooks/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-552- \\ & 001 \end{aligned}$ | C:PrtBooks/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-552- \\ & 002 \end{aligned}$ | C:PrtBooks/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-552- \\ & 003 \end{aligned}$ | C:PrtBooks/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-554- <br> 001 | $\mathrm{P}:$ PrtBooks/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-554- \\ & 002 \end{aligned}$ | P:PrtBooks/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-554- \\ & 003 \end{aligned}$ | P:PrtBooks/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-556- \\ & 001 \end{aligned}$ | L:PrtBooks/FIN | Perfect-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-556- \\ & 002 \end{aligned}$ | L:PrtBooks/FIN | Ring-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-556- \\ & 003 \end{aligned}$ | L:PrtBooks/FIN | TwinLoop-Bind | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-561- | T:A Sheet Of Paper | Total: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-561- \\ & 002 \end{aligned}$ | T:A Sheet Of Paper | Total: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-561- \\ & 003 \end{aligned}$ | T:A Sheet Of Paper | Duplex: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-561- \\ & 004 \end{aligned}$ | T:A Sheet Of Paper | Duplex: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-562- \\ & 001 \end{aligned}$ | C:A Sheet Of Paper | Total: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-562- \\ & 002 \end{aligned}$ | C:A Sheet Of Paper | Total: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-562- \\ & 003 \end{aligned}$ | C:A Sheet Of Paper | Duplex: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-562- \\ & 004 \end{aligned}$ | C:A Sheet Of Paper | Duplex: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-563- \\ & 001 \end{aligned}$ | F:A Sheet Of Paper | Total: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-563- \\ & 002 \end{aligned}$ | F:A Sheet Of Paper | Total: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-563- \\ & 003 \end{aligned}$ | F:A Sheet Of Paper | Duplex: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-563- \\ & 004 \end{aligned}$ | F:A Sheet Of Paper | Duplex: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-564- <br> 001 | P:A Sheet Of Paper | Total: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-564- \\ & 002 \end{aligned}$ | P:A Sheet Of Paper | Total: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-564- \\ & 003 \end{aligned}$ | P:A Sheet Of Paper | Duplex: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-564- \\ & 004 \end{aligned}$ | P:A Sheet Of Paper | Duplex: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-566- \\ & 001 \end{aligned}$ | L:A Sheet Of Paper | Total: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-566- \\ & 002 \end{aligned}$ | L:A Sheet Of Paper | Total: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-566- | L:A Sheet Of Paper | Duplex: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 8-566- \\ & 004 \end{aligned}$ | L:A Sheet Of Paper | Duplex: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-567- \\ & 001 \end{aligned}$ | O:A Sheet Of Paper | Total: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-567- \\ & 002 \end{aligned}$ | O:A Sheet Of Paper | Total: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-567- \\ & 003 \end{aligned}$ | O:A Sheet Of Paper | Duplex: Over A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-567- \\ & 004 \end{aligned}$ | O:A Sheet Of Paper | Duplex: Under A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-581- \\ & 001 \end{aligned}$ | T:Counter | Total | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-581- \\ & 032 \end{aligned}$ | T:Counter | Total(A3) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-591- \\ & 001 \end{aligned}$ | O:Counter | A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-591- \\ & 002 \end{aligned}$ | O:Counter | Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-601- \\ & 001 \end{aligned}$ | T:Coverage Counter | B/W | CTL* | $\begin{aligned} & {[0 \text { to } 2147483647 / 0 /} \\ & 1 \%] \end{aligned}$ |
| 8-601- <br> 011 | T:Coverage Counter | B/W Printing Pages | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-602- \\ & 001 \end{aligned}$ | C:Coverage Counter | B/W | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 2147483647 / 0 / \\ & 1 \%] \end{aligned}$ |
| $\begin{aligned} & 8-603- \\ & 001 \end{aligned}$ | F:Coverage Counter | B/W | CTL* | $\begin{aligned} & {[0 \text { to } 2147483647 / 0 /} \\ & 1 \%] \end{aligned}$ |
| $\begin{aligned} & 8-604- \\ & 001 \end{aligned}$ | P:Coverage Counter | B/W | CTL* | $\begin{aligned} & \text { [ } 0 \text { to } 2147483647 / 0 / \\ & 1 \%] \end{aligned}$ |
| $\begin{aligned} & 8-606- \\ & 001 \end{aligned}$ | L:Coverage Counter | B/W | CTL* | $\begin{aligned} & {[0 \text { to } 2147483647 / 0 /} \\ & 1 \%] \end{aligned}$ |
| $\begin{aligned} & 8-617- \\ & 001 \end{aligned}$ | SDK Apli Counter | SDK-1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 002 \end{aligned}$ | SDK Apli Counter | SDK-2 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-617- | SDK Apli Counter | SDK-3 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 003 |  |  |  |  |
| $\begin{aligned} & 8-617- \\ & 004 \end{aligned}$ | SDK Apli Counter | SDK-4 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 005 \end{aligned}$ | SDK Apli Counter | SDK-5 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 006 \end{aligned}$ | SDK Apli Counter | SDK-6 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 007 \end{aligned}$ | SDK Apli Counter | SDK-7 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 008 \end{aligned}$ | SDK Apli Counter | SDK-8 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 009 \end{aligned}$ | SDK Apli Counter | SDK-9 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 010 \end{aligned}$ | SDK Apli Counter | SDK-10 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 011 \end{aligned}$ | SDK Apli Counter | SDK-11 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-617- \\ & 012 \end{aligned}$ | SDK Apli Counter | SDK-12 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 001 \end{aligned}$ | Func Use Counter | Function-001 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 002 \end{aligned}$ | Func Use Counter | Function-002 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 003 \end{aligned}$ | Func Use Counter | Function-003 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 004 \end{aligned}$ | Func Use Counter | Function-004 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 005 \end{aligned}$ | Func Use Counter | Function-005 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 006 \end{aligned}$ | Func Use Counter | Function-006 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 007 \end{aligned}$ | Func Use Counter | Function-007 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 008 \end{aligned}$ | Func Use Counter | Function-008 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-621- | Func Use Counter | Function-009 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & 8-621- \\ & 010 \end{aligned}$ | Func Use Counter | Function-010 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 011 \end{aligned}$ | Func Use Counter | Function-011 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 012 \end{aligned}$ | Func Use Counter | Function-012 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 013 \end{aligned}$ | Func Use Counter | Function-013 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 014 \end{aligned}$ | Func Use Counter | Function-014 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 015 \end{aligned}$ | Func Use Counter | Function-015 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 016 \end{aligned}$ | Func Use Counter | Function-016 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 017 \end{aligned}$ | Func Use Counter | Function-017 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 018 \end{aligned}$ | Func Use Counter | Function-018 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 019 \end{aligned}$ | Func Use Counter | Function-019 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 020 \end{aligned}$ | Func Use Counter | Function-020 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 021 \end{aligned}$ | Func Use Counter | Function-021 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 022 \end{aligned}$ | Func Use Counter | Function-022 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 023 \end{aligned}$ | Func Use Counter | Function-023 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 024 \end{aligned}$ | Func Use Counter | Function-024 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 025 \end{aligned}$ | Func Use Counter | Function-025 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 026 \end{aligned}$ | Func Use Counter | Function-026 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-621- | Func Use Counter | Function-027 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 027 |  |  |  |  |
| $\begin{aligned} & 8-621- \\ & 028 \end{aligned}$ | Func Use Counter | Function-028 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 029 \end{aligned}$ | Func Use Counter | Function-029 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 030 \end{aligned}$ | Func Use Counter | Function-030 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 031 \end{aligned}$ | Func Use Counter | Function-031 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 032 \end{aligned}$ | Func Use Counter | Function-032 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 033 \end{aligned}$ | Func Use Counter | Function-033 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 034 \end{aligned}$ | Func Use Counter | Function-034 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-621- <br> 035 | Func Use Counter | Function-035 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 036 \end{aligned}$ | Func Use Counter | Function-036 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-621- <br> 037 | Func Use Counter | Function-037 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 038 \end{aligned}$ | Func Use Counter | Function-038 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 039 \end{aligned}$ | Func Use Counter | Function-039 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 040 \end{aligned}$ | Func Use Counter | Function-040 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 041 \end{aligned}$ | Func Use Counter | Function-041 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 042 \end{aligned}$ | Func Use Counter | Function-042 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 043 \end{aligned}$ | Func Use Counter | Function-043 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 044 \end{aligned}$ | Func Use Counter | Function-044 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-621- | Func Use Counter | Function-045 | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 045 |  |  |  |  |
| $\begin{aligned} & 8-621- \\ & 046 \end{aligned}$ | Func Use Counter | Function-046 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 047 \end{aligned}$ | Func Use Counter | Function-047 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 048 \end{aligned}$ | Func Use Counter | Function-048 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 049 \end{aligned}$ | Func Use Counter | Function-049 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 050 \end{aligned}$ | Func Use Counter | Function-050 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 051 \end{aligned}$ | Func Use Counter | Function-051 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 052 \end{aligned}$ | Func Use Counter | Function-052 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 053 \end{aligned}$ | Func Use Counter | Function-053 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 054 \end{aligned}$ | Func Use Counter | Function-054 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 055 \end{aligned}$ | Func Use Counter | Function-055 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 056 \end{aligned}$ | Func Use Counter | Function-056 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 057 \end{aligned}$ | Func Use Counter | Function-057 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 058 \end{aligned}$ | Func Use Counter | Function-058 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 059 \end{aligned}$ | Func Use Counter | Function-059 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 060 \end{aligned}$ | Func Use Counter | Function-060 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 061 \end{aligned}$ | Func Use Counter | Function-061 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-621- \\ & 062 \end{aligned}$ | Func Use Counter | Function-062 | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-621- | Func Use Counter | Function-063 | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 063 |  |  |  |  |
| $\begin{aligned} & 8-621- \\ & 064 \end{aligned}$ | Func Use Counter | Function-064 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-631- \\ & 001 \end{aligned}$ | T:FAX TX PGS | B/W(Tel) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-631- \\ & 101 \end{aligned}$ | T:FAX TX PGS | B/W(Cloud) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-633- \\ & 001 \end{aligned}$ | F:FAX TX PGS | B/W(Tel) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-633- \\ & 101 \end{aligned}$ | F:FAX TX PGS | B/W(Cloud) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-641- \\ & 001 \end{aligned}$ | T:IFAX TX PGS | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-643- \\ & 001 \end{aligned}$ | F:IFAX TX PGS | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-651- \\ & 001 \end{aligned}$ | T:S-to-Email PGS | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-651- \\ & 002 \end{aligned}$ | T:S-to-Email PGS | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-655- <br> 001 | S:S-to-Email PGS | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-655- \\ & 002 \end{aligned}$ | S:S-to-Email PGS | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-661- \\ & 001 \end{aligned}$ | T:Deliv PGS/Svr | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-661- \\ & 002 \end{aligned}$ | T:Deliv PGS/Svr | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-665- <br> 001 | S:Deliv PGS/Svr | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-665- \\ & 002 \end{aligned}$ | S:Deliv PGS/Svr | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-671- \\ & 001 \end{aligned}$ | T:Deliv PGS/PC | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-671- \\ & 002 \end{aligned}$ | T:Deliv PGS/PC | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-675- | S:Deliv PGS/PC | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 001 |  |  |  |  |
| $\begin{aligned} & 8-675- \\ & 002 \end{aligned}$ | S:Deliv PGS/PC | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-681- \\ & 001 \end{aligned}$ | T:PCFAX TXPGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-683- \\ & 001 \end{aligned}$ | F:PCFAX TXPGS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-691- \\ & 001 \end{aligned}$ | T:TX PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-692- \\ & 001 \end{aligned}$ | C:TX PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-693- \\ & 001 \end{aligned}$ | F:TX PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-694- \\ & 001 \end{aligned}$ | P:TX PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-695- \\ & 001 \end{aligned}$ | S:TX PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-696- \\ & 001 \end{aligned}$ | L:TX PGS/LS |  | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-701- \\ & 001 \end{aligned}$ | TX PGS/Port | PSTN-1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-701- \\ & 002 \end{aligned}$ | TX PGS/Port | PSTN-2 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-701- \\ & 003 \end{aligned}$ | TX PGS/Port | PSTN-3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-701- \\ & 004 \end{aligned}$ | TX PGS/Port | $\operatorname{ISDN}(\mathrm{G} 3, \mathrm{G} 4)$ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-701- \\ & 005 \end{aligned}$ | TX PGS/Port | Network | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 001 \end{aligned}$ | T:Scan PGS/Comp | JPEG/JPEG2000 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 002 \end{aligned}$ | T:Scan PGS/Comp | TIFF(Multi/Single) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 003 \end{aligned}$ | T:Scan PGS/Comp | PDF | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-711- | T:Scan PGS/Comp | Other | CTL* | [ 0 to 99999999 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-711- \\ & 005 \end{aligned}$ | T:Scan PGS/Comp | PDF/Comp | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 006 \end{aligned}$ | T:Scan PGS/Comp | PDF/A | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 007 \end{aligned}$ | T:Scan PGS/Comp | PDF(OCR) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 008 \end{aligned}$ | T:Scan PGS/Comp | PDF/Comp(OCR) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-711- \\ & 009 \end{aligned}$ | T:Scan PGS/Comp | PDF/A(OCR) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 001 \end{aligned}$ | S:Scan PGS/Comp | JPEG/JPEG2000 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 002 \end{aligned}$ | S:Scan PGS/Comp | TIFF(Multi/Single) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 003 \end{aligned}$ | S:Scan PGS/Comp | PDF | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 004 \end{aligned}$ | S:Scan PGS/Comp | Other | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 005 \end{aligned}$ | S:Scan PGS/Comp | PDF/Comp | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 006 \end{aligned}$ | S:Scan PGS/Comp | PDF/A | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 007 \end{aligned}$ | S:Scan PGS/Comp | PDF(OCR) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 008 \end{aligned}$ | S:Scan PGS/Comp | PDF/Comp(OCR) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-715- \\ & 009 \end{aligned}$ | S:Scan PGS/Comp | PDF/A(OCR) | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-721- \\ & 001 \end{aligned}$ | T:Deliv PGS/WSD/DSM | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-721- \\ & 002 \end{aligned}$ | T:Deliv <br> PGS/WSD/DSM | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-725- \\ & 001 \end{aligned}$ | S:Deliv <br> PGS/WSD/DSM | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-725- | S:Deliv | Color | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 002 | PGS/WSD/DSM |  |  |  |
| $\begin{aligned} & 8-731- \\ & 001 \end{aligned}$ | T:Scan PGS/Media | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-731- \\ & 002 \end{aligned}$ | T:Scan PGS/Media | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-735- \\ & 001 \end{aligned}$ | S:Scan PGS/Media | B/W | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-735- \\ & 002 \end{aligned}$ | S:Scan PGS/Media | Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-741- \\ & 001 \end{aligned}$ | RX PGS/Port | PSTN-1 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-741- \\ & 002 \end{aligned}$ | RX PGS/Port | PSTN-2 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-741- \\ & 003 \end{aligned}$ | RX PGS/Port | PSTN-3 | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-741- \\ & 004 \end{aligned}$ | RX PGS/Port | $\operatorname{ISDN}(\mathrm{G} 3, \mathrm{G} 4)$ | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-741- \\ & 005 \end{aligned}$ | RX PGS/Port | Network | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-771- \\ & 001 \end{aligned}$ | Dev Counter | Total | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-781- \\ & 001 \end{aligned}$ | Toner_Botol_Info. | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-791- \\ & 001 \end{aligned}$ | LS Memory Remain |  | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-801- \\ & 001 \end{aligned}$ | Toner Remain | K | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 001 \\ & \hline \end{aligned}$ | Eco Counter | Eco Total | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 004 \end{aligned}$ | Eco Counter | Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 005 \end{aligned}$ | Eco Counter | Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 008 \end{aligned}$ | Eco Counter | Duplex(\%) | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| 8-811- | Eco Counter | Combine(\%) | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 009 |  |  |  |  |
| $\begin{aligned} & 8-811- \\ & 010 \end{aligned}$ | Eco Counter | Paper Cut(\%) | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 051 \end{aligned}$ | Eco Counter | Sync Eco Total | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 054 \end{aligned}$ | Eco Counter | Sync Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 055 \end{aligned}$ | Eco Counter | Sync Combine | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 058 \end{aligned}$ | Eco Counter | Sync Duplex(\%) | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 059 \end{aligned}$ | Eco Counter | Sync Combine(\%) | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 060 \end{aligned}$ | Eco Counter | Sync Paper Cut(\%) | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 101 \end{aligned}$ | Eco Counter | Eco Totalr:Last | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 104 \end{aligned}$ | Eco Counter | Duplex:Last | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 105 \end{aligned}$ | Eco Counter | Combine:Last | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 108 \end{aligned}$ | Eco Counter | Duplex(\%):Last | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 109 \end{aligned}$ | Eco Counter | Combine(\%):Last | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 110 \end{aligned}$ | Eco Counter | Paper Cut(\%):Last | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-811- \\ & 151 \end{aligned}$ | Eco Counter | Sync Eco Totalr:Last | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 154 \end{aligned}$ | Eco Counter | Sync Duplex:Last | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 155 \end{aligned}$ | Eco Counter | Sync Combine:Last | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-811- \\ & 158 \end{aligned}$ | Eco Counter | Sync Duplex(\%):Last | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| 8-811- | Eco Counter | Sync Combine(\%):Last | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 159 |  |  |  |  |
| $\begin{aligned} & 8-811- \\ & 160 \end{aligned}$ | Eco Counter | Sync Paper Cut(\%):Last | CTL* | [ 0 to $100 / 0 / 1 \%$ ] |
| $\begin{aligned} & 8-851- \\ & 011 \end{aligned}$ | Cvr Cnt:0-10\% | 0~2\%:BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-851- \\ & 021 \end{aligned}$ | Cvr Cnt:0-10\% | 3~4\%:BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-851- \\ & 031 \end{aligned}$ | Cur Cnt:0-10\% | 5~7\%:BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-851- \\ & 041 \end{aligned}$ | Cvr Cnt:0-10\% | 8~10\%:BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-861- \\ & 001 \\ & \hline \end{aligned}$ | Cvr Cnt:11-20\% | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-871- \\ & 001 \end{aligned}$ | Cvr Cnt:21-30\% | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-881- <br> 001 | Cvr Cnt:31\%- | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-891- \\ & 001 \end{aligned}$ | Page/Toner Bottle | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-901- \\ & 001 \end{aligned}$ | Page/Toner_Prev1 | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-911- \\ & 001 \end{aligned}$ | Page/Toner_Prev2 | BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-921- \\ & 001 \end{aligned}$ | Cvr Cnt/Total | Coverage(\%):BK | CTL* | $\begin{aligned} & {[0 \text { to } 2147483647 / 0 /} \\ & 1 \%] \end{aligned}$ |
| $\begin{aligned} & 8-921- \\ & 011 \end{aligned}$ | Cvr Cnt/Total | Coverage/P:BK | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 001 \end{aligned}$ | Machine Status | Operation Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 002 \end{aligned}$ | Machine Status | Standby Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 003 \end{aligned}$ | Machine Status | Energy Save Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 004 \end{aligned}$ | Machine Status | Low Power Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-941- | Machine Status | Off Mode Time | CTL* | [ 0 to 99999999 / $0 / 1$ ] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 005 |  |  |  |  |
| $\begin{aligned} & 8-941- \\ & 006 \end{aligned}$ | Machine Status | SC | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 007 \end{aligned}$ | Machine Status | PrtJam | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 008 \end{aligned}$ | Machine Status | OrgJam | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-941- \\ & 009 \end{aligned}$ | Machine Status | Supply PM Unit End | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 001 \end{aligned}$ | AddBook Register | User Code /User ID | CTL* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 002 \end{aligned}$ | AddBook Register | Mail Address | CTL* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 003 \end{aligned}$ | AddBook Register | Fax Destination | CTL* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 004 \end{aligned}$ | AddBook Register | Group | CTL* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 005 \end{aligned}$ | AddBook Register | Transfer Request | CTL* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 006 \end{aligned}$ | AddBook Register | F-Code | CTL* | [ 0 to 99999 / 0 / 1] |
| $\begin{aligned} & 8-951- \\ & 007 \end{aligned}$ | AddBook Register | Copy Program | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 8-951- \\ & 008 \end{aligned}$ | AddBook Register | Fax Program | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 8-951- \\ & 009 \end{aligned}$ | AddBook Register | Printer Program | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 8-951- \\ & 010 \end{aligned}$ | AddBook Register | Scanner Program | CTL* | [ 0 to $255 / 0 / 1$ ] |
| $\begin{aligned} & 8-961- \\ & 001 \end{aligned}$ | Electricity Status | Ctrl Standby Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 002 \end{aligned}$ | Electricity Status | STR Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 003 \end{aligned}$ | Electricity Status | Main Power Off Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-961- | Electricity Status | Reading and Printing Time | CTL* | [ 0 to 99999999 / 0 / 1] |

3.SP Mode Tables

| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 004 |  |  |  |  |
| $\begin{aligned} & 8-961- \\ & 005 \end{aligned}$ | Electricity Status | Printing Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 006 \end{aligned}$ | Electricity Status | Reading Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 007 \end{aligned}$ | Electricity Status | Eng Waiting Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 008 \end{aligned}$ | Electricity Status | Low Pawer State Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 009 \end{aligned}$ | Electricity Status | Silent State Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 010 \end{aligned}$ | Electricity Status | Heater Off State Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 011 \end{aligned}$ | Electricity Status | LCD on Time | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-961- \\ & 101 \end{aligned}$ | Electricity Status | Silent Print | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-971- \\ & 001 \end{aligned}$ | Unit Control | Engine Off Recovery Count | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-971- \\ & 002 \end{aligned}$ | Unit Control | Power Off Count | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-971- \\ & 003 \end{aligned}$ | Unit Control | Force Power Off Count | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 001 \end{aligned}$ | Admin. Counter List | Total | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 003 \end{aligned}$ | Admin. Counter List | Copy: BW | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 007 \end{aligned}$ | Admin. Counter List | Printer: BW | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 010 \end{aligned}$ | Admin. Counter List | Fax Print: BW | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 012 \end{aligned}$ | Admin. Counter List | A3/DLT | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 013 \end{aligned}$ | Admin. Counter List | Duplex | CTL* | [ 0 to 99999999 / 0 / 1] |
| 8-999- | Admin. Counter List | Copy: BW(\%) | CTL* | [ 0 to 2147483647 / 0 / 1] |


| SP No. | Large Category | Small Category | ENG or CTL | [Min to Max/Init./Step] |
| :---: | :---: | :---: | :---: | :---: |
| 023 |  |  |  |  |
| $\begin{aligned} & 8-999- \\ & 027 \end{aligned}$ | Admin. Counter List | Printer: BW(\%) | CTL* | [ 0 to $2147483647 / 0 / 1$ ] |
| $\begin{aligned} & 8-999- \\ & 030 \end{aligned}$ | Admin. Counter List | Fax Print: BW(\%) | CTL* | [ 0 to $2147483647 / 0 / 1$ ] |
| $\begin{aligned} & 8-999- \\ & 101 \end{aligned}$ | Admin. Counter List | Transmission Total: Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 102 \end{aligned}$ | Admin. Counter List | Transmission Total: BW | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 103 \end{aligned}$ | Admin. Counter List | FAX Transmission | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 104 \end{aligned}$ | Admin. Counter List | Scanner Transmission: <br> Color | CTL* | [ 0 to 99999999 / 0 / 1] |
| $\begin{aligned} & 8-999- \\ & 105 \end{aligned}$ | Admin. Counter List | Scanner Transmission: BW | CTL* | [ 0 to 99999999 / 0 / 1] |

## Printer Service Menu

SP1-XXX (Service Mode)

| 1001 | [Bit Switch] |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1- \\ & 001- \\ & 001 \end{aligned}$ | Bit Switch 1 |  | 0 | 1 |
|  | $\begin{aligned} & \text { bit } \\ & 0 \end{aligned}$ | DFU | - | - |
|  | bit 1 | Responding with the hostname as the sysName | Model <br> name <br> (PnP name) | Hostname |
|  |  | This BitSwitch can change the value of the sysName. 0 (default): Model name (PnP name) such as "MP C401SP" <br> 1: Host name |  |  |
|  | bit <br> 2 | DFU | - | - |
|  | bit | No I/O Timeout | Disabled | Enabled |
|  | 3 | 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 | SD Card Save Mode | Disabled | Enabled |
|  | 4 | If this bit switch is enabled, print jobs will be saved to the GW SD slot and not output to paper. |  |  |
|  | bit | [PS and PDF] Paper size error margin | $\pm 5 \mathrm{pt}$ | $\pm 10 \mathrm{pt}$ |
|  | 5 | 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 $\pm 5$ points. By enabling this BitSwitch, the error margin for matching to a paper size can be extended to $\pm 10$ points. |  |  |
|  | bit 6 | DFU | - | - |
|  | bit | [RPCS,PCL]: Printable area frame border | Disabled | Enabled |
|  |  | Prints all RPCS and PCL jobs with a border around the printable area. |  |  |


| $\mathbf{1 0 0 1}$ | [Bit Switch] |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $-001-$ | Bit Switch 2 |  |  |  |
|  | bit | DFU | 0 | - |
|  | bit <br>  |  | DFU | - |



| 1001 | [Bit Switch] |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 003 \end{aligned}$ | Bit Switch 3 |  | 0 | 1 |
|  | bit 0 | DFU | - | - |
|  | bit <br> 1 | DFU | - | - |
|  | $\begin{aligned} & \text { bit } \\ & 2 \end{aligned}$ | [PCL5e/c]: Legacy HP compatibility | Disabled | Enabled |
|  |  | Uses the same left margin as older HP models such as HP4000/HP8000. <br> In other words, the left margin defined in the job (usually " $<\mathrm{ESC}>*$ r0A") will be changed to " $<$ ESC $>*$ r1A". |  |  |
|  | bit <br> 3 | DFU | - | - |
|  | bit <br> 4 | DFU | - | - |
|  | bit <br> 5 | DFU | - | - |
|  | bit 6 | DFU | - | - |
|  | bit <br> 7 | DFU | - | - |


| $\mathbf{1 0 0 1}$ | [Bit Switch $]$ |  |  |
| :--- | :--- | :--- | :--- |
| $1-001-$ | Bit Switch 4 | 0 | 1 |


| 004 | bit <br> 0 | DFU | - | - |
| :--- | :--- | :--- | :--- | :--- |
|  | bit <br> 1 | DFU | - | - |
|  | bit <br> 2 | DFU | - | - |
|  | bit <br> 3 | IPDS print-side reversal | If enabled, the simplex pages of IPDS jobs will be printed on the front side because of printing <br> on the back side of the page. This might reduce printing speed. |  |
|  | bit <br> 4 | DFU | - | Enabled |
|  | bit <br> 5 | DFU | - | - |
|  | bit <br> 6 | DFU | - | - |
|  | bit <br> 7 | DFU | - | - |



|  | bit 3 | [PS] PS Criteria | Pattern3 | Pattern1 |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Change the number of PS criterion used by the PS interpreter to determine whether a job is PS data or not. <br> For details, refer to "Printing Features". |  |  |
|  | bit <br> 4 | Increase max. number of stored jobs. | Disabled $(\mathbf{1 0 0})$ | 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 or 1000 depending on the model. |  |  |
|  | bit 5 | DFU | - | - |
|  | bit$6$ | Method for determining the image rotation for the edge to bind on. | Disabled | 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. <br> The old models are below: <br> - PCL: Pre-04A models <br> - PS/PDF/RPCS:Pre-05S models |  |  |
|  | bit 7 | Letterhead mode printing | Disabled | Enabled <br> (Duplex) |
|  |  | Routes all pages through the duplex unit. <br> 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. Only affects pages specified as Letterhead paper. |  |  |


| $\mathbf{1 0 0 1}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $1-001-006$ | Bit Switch 6 |  |  |  |
|  | bit 0 | DFU | 0 | 1 |
|  | bit 1 | DFU | - | - |
|  | bit 2 | DFU | - | - |
|  | bit 3 | DFU | - | - |
|  | bit 4 | DFU | - | - |
|  | bit 5 | DFU | - | - |
|  | bit 6 | DFU | - | - |
|  | bit 7 | DFU | - | - |


| $\mathbf{1 0 0 1}$ | $[$ Bit Switch $]$ |  |  |
| :--- | :--- | :--- | :--- |
| $1-001-$ | Bit Switch 7 |  | 0 |
|  |  |  |  |
| 007 | bit | Print path | Disabled |


| 0 | If enabled, simplex pages (in mixed simplex/duplex PS/PCL5 jobs only) and the last page of an <br> odd paged duplex job (PS, PCL5, PCL6), are always routed through the duplex unit. Not having <br> to switch paper paths increases the print speed slightly. |  |  |
| :--- | :--- | :--- | :--- | :--- |
| bit <br> 1 | DFU | - | - |
| bit <br> 2 | DFU | - | - |
| bit <br> 3 | DFU | - | - |
| bit <br> 4 | DFU | - | - |
| bit <br> 5 | DFU | - | - |
| bit <br> 6 | DFU | - | - |
| bit <br> 7 | DFU | - | - |


| 1001 | [Bit Switch] |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 008 \end{aligned}$ | Bit Switch 8 |  | 0 | 1 |
|  | $\begin{aligned} & \text { bit } \\ & 0 \end{aligned}$ | DFU | - | - |
|  | bit 1 | DFU | - | - |
|  | bit <br> 2 | DFU | - | - |
|  | bit <br> 3 | [PCL,PS]: Allow BW jobs to print without requiring User Code | Disabled | Enabled (allow BW jobs to print without a user code) |
|  |  | BW jobs submitted without a user code will enabled. <br> Note: Color jobs will not be printed without | printed <br> valid user | if usercode authentication is |
|  | bit <br> 4 | DFU | - | - |
|  | bit <br> 5 | DFU | - | - |
|  | bit <br> 6 | DFU | - | - |
|  | bit | [PDF]: Orientation Auto Detect Function | Enabled | Disabled |




| 1001 | [Bit Switch] |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 010 \end{aligned}$ | Bit Switch A |  | 0 | 1 |
|  | bit <br> 0 | DFU | - | - |
|  | bit <br> 1 | DFU | - | - |
|  | bit 2 | DFU | - | - |
|  | bit 3 | DFU | - | - |
|  | bit <br> 4 | DFU | - | - |
|  | $\begin{array}{\|l\|} \hline \text { bit } \\ 5 \end{array}$ | Store and Skip Errored Job locks the queue | Queue is not <br> 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 <br> 6 | Allow use of Store and Skip Errored Job if connected to an external charge device. | 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. <br> Note: We do not officially support enabling this bitsw (1). Use it at your own risk. |  |  |
|  | bit 7 | Job cancels remaining pages when the paid-for pages have been printed on an external charge | Job does not cancel | Job cancels |


|  | device |  |
| :--- | :--- | :--- | :--- |
| When setting 1 is enabled, after printing the paid-for pages on an external charge device, the <br> job that includes any remaining pages will be canceled. <br> This setting will prevent the next user from printing the unnecessary pages from the previous <br> user's print job. |  |  |



|  | bit <br> 6 | DFU | - | - |
| :--- | :--- | :--- | :--- | :--- |
|  | bit | DFU |  | - |


| 1001 | [Bit Switch] |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1-001- \\ & 012 \end{aligned}$ | Bit Switch C |  | 0 | 1 |
|  | $\begin{aligned} & \text { bit } \\ & 0 \end{aligned}$ | DFU | - | - |
|  | bit 1 | DFU | - | - |
|  | bit <br> 2 | DFU | - | - |
|  | $\begin{aligned} & \text { bit } \\ & 3 \end{aligned}$ | DFU | - | - |
|  | bit <br> 4 | DFU | - | - |
|  | bit | Chang | Disabled | Enabled |
|  | 5 | As of 1 type dis follows <br> - 0 (def <br> - 1: Us <br> exhibit | e operation uring BitS is equival | The user ID $12-5$ as <br> the behavior |
|  |  | AirPri | Enabled | Disabled |
|  | 6 | For 15S Switch | disabled by | ing this Bit |
|  | bit 7 | DFU | - | - |


| $\mathbf{1 0 0 3}$ | [Clear Setting] | $* \mathrm{CTL}$ | $[-/-/-]$ <br> $[$ Execute $]$ |
| :--- | :--- | :--- | :--- |
| $1-003-001$ | Initialize Printer System | $* \mathrm{CTL}$ | $[-/-/-]$ <br> $[$ Execute $]$ |
|  | Initializes settings in the "System" menu of the user mode. |  |  |
| $1-003-003$ | Delete Program |  |  |


|  | Prints the service summary sheet (a summary of all the controller settings). |  |  |
| :--- | :--- | :--- | :--- |
| $1-004-001$ | Print Printer Summary | $* \mathrm{CTL}$ | $[-/-/-]$ <br> $[$ Execute $]$ |
| $1-004-002$ | Print Printer Summary2 | *CTL | $[-/-/-]$ <br> $[$ Execute $]$ |


| $\mathbf{1 0 0 5}$ | [Display Version] |  |  |
| :--- | :--- | :--- | :--- |
| $1-005-002$ | Printer Version | $*$ CTL | $[-/-/-]$ |
|  | Displays the version of the controller firmware. |  |  |


| $\mathbf{1 1 1 0}$ | [Media Print Device Setting] |  |  |  |
| :--- | :--- | :--- | :--- | :---: |
|  | Selects the setting for the media print device. |  |  |  |
| $1-110-002$ | $0:$ Disable 1: Enable | *CTL | $[0$ or $1 / \mathbf{1} / 1 /$ step $]$ |  |


| $\mathbf{1 1 1 1}$ | [All Job Delete Mode] |  |  |
| :--- | :--- | :--- | :--- |
| $1-111-$ <br> 001 | $0:$ excluding New Job 1:including New Job | *CTL | $\left[\begin{array}{l}0 \text { or } 1 / 0 / 1 / \text { step }] \\ 0: \text { Excluding New Job } \\ \end{array}\right.$ |
|  | Selects whether to include an image processing job in jobs subject to full cancellation from the SCS <br> job list. |  |  |


| $\mathbf{1 1 1 7}$ | [Airprint] |  | $[0$ or $1 / 0 / 1 /$ step $]$ |
| :--- | :--- | :--- | :--- |
| $1-117-001$ | - | CTL* $^{l}$ |  |

## Scanner Service Menu

SP1-XXX (System and Others)

| 1001 | [Scan Nv Version] |  |  |
| :--- | :--- | :--- | :--- |
| $1-001-005$ | - | *CTL | $[-/-/-]$ |


| $\mathbf{1 0 0 5}$ | [Erase Margin(Remote scan)] |  |  |
| :--- | :--- | :--- | :--- |
| $1-005-001$ | Range from 0 to 5 mm | $* \mathrm{CTL}$ | $[0$ to $5 / \mathbf{0} / 1 \mathrm{~mm} /$ step $]$ |


| 1009 | [Remote scan disable] |  |  |
| :--- | :--- | :--- | :--- |
| $1-009-001$ | - | $*$ CTL | $[0$ or $1 / 0 / 1 /$ step $]$ <br> $0:$ ON (enabled) <br>  |
|  |  |  | $1:$ OFF (disabled) |


| 1010 | [Non Display Clear Light PDF] |  |  |
| :--- | :--- | :--- | :--- |
| $1-010-001$ | - | $*$ CTL | $[0$ or $1 / 0 / 1 /$ step] <br> $0:$ Display, $1:$ No display |


| 1011 | [Org Count Display] |  |  |
| :--- | :--- | :--- | :--- |
| $1-011-001$ | - | $*$ CTL | $\left[\begin{array}{l}\text { or } 1 / 0 / 1 / \text { step }] \\ 0: \text { OFF (no display) } \\ 1: ~ O N ~(c o u n t ~ d i s p l a y s) ~\end{array}\right.$ |


| 1012 | [User Info Release] |  |  |
| :--- | :--- | :--- | :--- |
| $1-012-001$ | - | $*$ CTL | $[0$ or $1 / \mathbf{1} / 1 /$ step] <br> $1:$ Release <br> $0:$ Do not release |


| 1013 | [Scan to Media Device Setting] |  |  |
| :--- | :--- | :--- | :--- |
| $1-013-002$ | - | $* \mathrm{CTL}$ | $[0$ or $1 / \mathbf{1} / 1 /$ step $]$ <br> $0:$ Disable <br> $1:$ Enable |


| 1014 | [Scan to Folder Pass Input Set] |  |  |
| :--- | :--- | :--- | :--- |
| $1-014-001$ | $0:$ OFF 1: ON | $* \mathrm{CTL}$ | $[0$ or $1 / \mathbf{0} / 1 / \mathrm{step}]$ <br> $\mathbf{0 :}$ OFF <br> $1:$ ON |


| 1041 | [Scan:FlairAPI Setting] |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 - | 0x00-0xff | *CTL | * see BitSwitch below: |  |
| $\begin{aligned} & 041- \\ & 001 \end{aligned}$ | Sets Scanner FlairAPI Function enable / disable. <br> 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 <br> Server | Off <br> (Do not <br> Start) | 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 | Disabled | 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) / <br> IPv4 (Priority) <br> Switching | IPv6 <br> (Exclusive) | IPv4 <br> (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 <br> Function | Not Used | Use | Sets use of Remote UI for scanner function. |
| bit 4 | Reserved | - | - | - |
| bit 5 | Reserved | - | - | - |
| bit 6 | Reserved | - | - | - |
| bit 7 | Reserved | - | - | - |

SP2-XXX (Scanning-image quality)

| $\mathbf{2 0 2 1}$ | [Compression Level (Gray-scale) $]$ |  |  |
| :--- | :--- | :--- | :--- |
| $2-021-001$ | Comp1:5-95 | $* \mathrm{CTL}$ | $[5$ to $95 / \mathbf{2 0} / 1 /$ step $]$ |
| $2-021-002$ | Comp2:5-95 | $* \mathrm{CTL}$ | $[5$ to $95 / \mathbf{4 0} / 1 /$ step $]$ |
| $2-021-003$ | Comp3:5-95 | $* \mathrm{CTL}$ | $[5$ to $95 / \mathbf{6 5} / 1 /$ step $]$ |
| $2-021-004$ | Comp4:5-95 | $* \mathrm{CTL}$ | $[5$ to $95 / \mathbf{8 0} / 1 /$ step $]$ |
| $2-021-005$ | Comp5:5-95 | $* \mathrm{CTL}$ | $[5$ to $95 / \mathbf{9 5} / 1 /$ step $]$ |


| $\mathbf{2 0 2 3}$ | [ClearLightPDF:ACS Setting] |  |  |
| :--- | :--- | :--- | :---: |
|  | This SP code enables/disables the ACS function. |  |  |
| $2-023-001$ | - | $*$ CTL |  |


|  |  |  | 0: Disable <br> 1: Enable |
| :--- | :--- | :--- | :--- |


| $\mathbf{2 0 2 4}$ | [Compression ratio of ClearLight PDF] |  |  |  |
| :--- | :--- | :--- | :--- | :---: |
| $2-024-001$ | Compression Ratio (Normal image) | *CTL | $[5$ to $95 / \mathbf{2 5} / 1 /$ step $]$ |  |
| $2-024-002$ | Compression Ratio (High) | *CTL | $[5$ to $95 / \mathbf{1 5} / 1 /$ step $]$ |  |


| $\mathbf{2 0 2 5}$ | [Compression ratio of ClearLightPDF JPEG2000] |  |  |
| :--- | :--- | :--- | :--- |
| $2-025-001$ | Compression Ratio (Normal) JPEG2000 | *CTL | $[5$ to $95 / \mathbf{2 5} / 1 /$ step $]$ |
| $2-025-002$ | Compression Ratio (High) JEPG2000 | $* \mathrm{CTL}$ | $[5$ to $95 / \mathbf{1 5} / 1 /$ step $]$ |


| $\mathbf{2 0 3 0}$ | [OCR PDF DetectSens] |  |  |
| :--- | :--- | :--- | :--- |
| $2-030-001$ | White Lumi Value: $0-255$ | $* \mathrm{CTL}$ | $[0$ to $255 / \mathbf{2 5 0} / 1 /$ step $]$ |
| $2-030-002$ | White Pix Ratio: $0-100$ | $* \mathrm{CTL}$ | $[0$ to $100 / \mathbf{8 0} / 1 /$ step $]$ |
| $2-030-003$ | White Tile Ratio: $0-100$ | $* \mathrm{CTL}$ | $[0$ to $100 / \mathbf{8 0} / 1 /$ step $]$ |


| 2031 | [Vertical Judgment Setting] |  |  |
| :---: | :---: | :---: | :---: |
| 2-031-$001$ | Function Setting: 0-1 | * CTL | $\begin{aligned} & {[0 \text { or } 1 / \mathbf{1} / 1 / \text { step }]} \\ & 0: \text { Enable } \\ & \text { 1:Disable } \end{aligned}$ |
|  | When the image does not become upright state due to the vertical judgment error, set this SP to "0: Disable". After changing the setting, turn OFF/ON the main power. |  |  |
| $\begin{aligned} & 2-031- \\ & 002 \end{aligned}$ | Algorithm Setting: 0-2 | *CTL | [ 0 to $3 / \mathbf{1} / 1 /$ step] <br> 0: Normal Algorithm <br> 1: Simple Algorithm <br> 2: Composite Algorithm |
|  | Set the identification algorithm when SP2-031-001 is "1: Enable". Change the setting when the vertical judgment error occur frequently. After changing the setting, turn OFF/ON the main power. |  |  |

## Input and Output Check

## Input Check Table

Main Machine, Paper Feed Tray

| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5-803- \\ & 001 \end{aligned}$ | Registration Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 002 \end{aligned}$ | Paper Feed Sensor 1 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 003 \end{aligned}$ | Transport Sensor 1 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 004 \end{aligned}$ | Paper Feed Sensor 2 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 005 \end{aligned}$ | Transport Sensor 2 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & \hline 5-803- \\ & 006 \end{aligned}$ | Fusing Exit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 007 \end{aligned}$ | Fusing Entrance Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 008 \end{aligned}$ | Paper Exit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 009 \end{aligned}$ | Inverter Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 010 \end{aligned}$ | Duplex Exit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 011 \end{aligned}$ | Duplex Entrance Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |


| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5-803- \\ & 012 \end{aligned}$ | Paper Exit Tray Full Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not full } \\ & \text { 1: full } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 013 \end{aligned}$ | Tray 1 Remain Switch | ENG | $[0 \text { to } 3 / 0 / 1]$ <br> When full is $100 \%$, <br> 11: 71 to $100 \%$ <br> 01: 31 to $70 \%$ <br> 00: 11 to $30 \%$ <br> 10: 1 to $10 \%$ |
| $\begin{aligned} & 5-803- \\ & 014 \end{aligned}$ | Tray 1 Upper Limit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : less then limit } \\ & \text { 1: high then limit } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 015 \end{aligned}$ | Tray 1 Paper End Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : No paper <br> 1: paper remaining |
| $\begin{aligned} & 5-803- \\ & 016 \end{aligned}$ | Tray 1 Set Switch | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : set } \\ & 1: \text { not set } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 017 \end{aligned}$ | Tray 2 Remain Switch | ENG | $[0 \text { to } 3 / 0 / 1]$ <br> When full is $100 \%$, <br> 11: 71 to $100 \%$ <br> 01: 31 to $70 \%$ <br> 00: 11 to $30 \%$ <br> 10: 1 to $10 \%$ |
| $\begin{aligned} & 5-803- \\ & 018 \end{aligned}$ | Tray 2 Upper Limit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { less then limit } \\ & \text { 1: high then limit } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 019 \end{aligned}$ | Tray 2 Paper End Sensor | ENG | $[0 \text { to } 1 / 0 / 1]$ <br> 0 : No paper <br> 1: paper remaining |
| $\begin{aligned} & 5-803- \\ & 020 \end{aligned}$ | Tray 2 Set Switch | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { set } \\ & 1: \text { not set } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 021 \end{aligned}$ | Tray 2 Size Switch | ENG | [ 0 to $15 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 022 \end{aligned}$ | Bypass Paper End Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0: No paper <br> 1: paper remaining |


| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5-803- \\ & 023 \end{aligned}$ | Bypass Main Scan Length Switch | ENG | [ 0 to $15 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 024 \end{aligned}$ | Bypass Sub Scan Length Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 025 \end{aligned}$ | Main Door Interlock Switch | ENG | [ 0 to $1 / 0 / 1$ ] 00: Unlocked 11: Locked |
| $\begin{aligned} & 5-803- \\ & 026 \end{aligned}$ | Right Door Open/Close Switch | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { close } \\ & \text { 1: open } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 027 \end{aligned}$ | Duplex Guide Plate Open/Close Switch | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { close } \\ & \text { 1: open } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 028 \end{aligned}$ | Transfer Open/Close Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { open } \\ & 1: \text { close } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 029 \end{aligned}$ | Transfer Contact Sensor | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { Abutting } \\ & \text { 1: Alienate } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 032 \end{aligned}$ | Waste Toner Bottle Near Full Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not full } \\ & \text { 1: full } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 033 \end{aligned}$ | Toner Bottle Set Switch | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { set } \\ & 1: \text { not set } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 038 \end{aligned}$ | Fusing Set \& Country Detection | ENG | $\begin{aligned} & {[0 \text { to } 7 / 0 / 1]} \\ & 0111: 200 \mathrm{~V} \text { system } \\ & \text { 1011:100V System } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 039 \end{aligned}$ | Fusing New Fuse Blown Detection | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { New } \\ & \text { 1: Old } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 048 \end{aligned}$ | Fusing Exit Fan1:Lock | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 049 \end{aligned}$ | Fusing Exit Fan2:Lock | ENG | $\begin{array}{\|l} {[0 \text { to } 1 / 0 / 1]} \\ 0: \text { Running } \\ \text { 1: Stopped, or locked } \\ \hline \end{array}$ |


| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5-803- \\ & 051 \end{aligned}$ | PSU Cooling Fan:Lock | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 057 \end{aligned}$ | Main Exhaust Fan:Lock | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 058 \end{aligned}$ | Paper Exit Cooling Fan:Lock | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 060 \end{aligned}$ | Toner Bottle Cooling Fan:Lock | ENG | $\begin{aligned} & \hline[0 \text { to } 1 / 0 / 1] \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 061 \end{aligned}$ | Development Motor:Lock | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 065 \end{aligned}$ | Fusing/Fusing Exit Motor:Lock | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Running } \\ & \text { 1: Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 066 \end{aligned}$ | Drum Motor:Lock | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Running } \\ & 1: \text { Stopped, or locked } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 067 \end{aligned}$ | HVP/Separation DC/(-):Abnormal Detection | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { SC detected } \\ & \text { 1: Normal } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 068 \end{aligned}$ | HVP/ChargeDC/(-):Abnormal Detection | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : SC detected <br> 1: Normal |
| $\begin{aligned} & 5-803- \\ & 069 \end{aligned}$ | HVP/PTR DC/(+)\&(-):Abnormal Detection | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { SC detected } \\ & \text { 1: Normal } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 070 \end{aligned}$ | HVP/Development DC/(-):Abnormal Detection | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { SC detected } \\ & \text { 1: Normal } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 072 \end{aligned}$ | Key Counter:Set Sensor 1 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : set } \\ & \text { 1:unset } \end{aligned}$ <br> key counter: set $1=0,2=1$ for set, others for unset |

## 3.SP Mode Tables

| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 5-803- \\ & 073 \end{aligned}$ | Key Counter:Set Sensor 2 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : set } \\ & \text { 1:unset } \end{aligned}$ <br> key counter: set $1=0,2=1$ for set, others for unset |
| $\begin{aligned} & 5-803- \\ & 074 \end{aligned}$ | Key Card:Set Detection | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { set } \\ & 1: \text { not set } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 075 \end{aligned}$ | 1-Bin Remain Paper Detection | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0 \text { : paper exist } \\ & \text { 1: paper non exist } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 076 \end{aligned}$ | 1-Bin Set Detection | ENG | $[0 \text { to } 1 / 0 / 1]$ <br> 0 : paper exist <br> 1: paper non exist |
| $\begin{aligned} & 5-803- \\ & 077 \end{aligned}$ | Bridge Relay Sensor | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : paper exist <br> 1: paper non exist |
| 5-803- <br> 078 | Bridge Exit Sensor | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0: Paper exist <br> 1: Paper do not exist |
| $\begin{aligned} & 5-803- \\ & 079 \end{aligned}$ | Relay Set Detection Mechanism | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { set } \\ & \text { 1:not set } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 082 \end{aligned}$ | RelayTransCov OP Detect/LeftTransCov OP Sn | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { close } \\ & \text { 1: open } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 083 \end{aligned}$ | RelayPprExitCovOP <br> Detect/UpperTransCovOP Sn | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { close } \\ & \text { 1: open } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 084 \end{aligned}$ | Shift Tray Set Detection Mechanism | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 01: \text { set } \\ & \text { 11:not set } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 085 \end{aligned}$ | Shift Tray Position Sensor 1 | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> 0 : Stop on this side. during moving towards inner <br> 1: Stop on inner side. during moving towards this side |
| 5-803- | GAVD Open/Close Detection | ENG | [ 0 to $1 / 0 / 1$ ] |


| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 094 |  |  |  |
| $\begin{aligned} & 5-803- \\ & 095 \end{aligned}$ | Relay Fuse Blown Detection +24V | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not cut } \\ & \text { 1: Cut } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 096 \end{aligned}$ | Relay Fuse Blown Detection +5 V | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Not cut } \\ & \text { 1: Cut } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 100 \end{aligned}$ | PCB Ver Management | ENG | [ 0 to $15 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 101 \end{aligned}$ | Tray 1 Size Switch | ENG | [ 0 to $15 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 102 \end{aligned}$ |  | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 200 \end{aligned}$ | HP Senser | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 201 \end{aligned}$ | Platen Cover Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| $\begin{aligned} & 5-803- \\ & 211 \end{aligned}$ | Bank: Tray3: Feed Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : paper not detected <br> 1: paper detected. |
| $\begin{aligned} & 5-803- \\ & 212 \end{aligned}$ | Bank: Tray4: Feed Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : paper not detected <br> 1: paper detected. |
| $\begin{aligned} & 5-803- \\ & 213 \end{aligned}$ | Bank: Tray5: Feed Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : paper not detected <br> 1: paper detected. |
| $\begin{aligned} & 5-803- \\ & 214 \end{aligned}$ | Bank: Tray3: Transport Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : paper not detected <br> 1: paper detected. |
| $\begin{aligned} & 5-803- \\ & 215 \end{aligned}$ | Bank: Tray4: Transport Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : paper not detected <br> 1: paper detected. |
| $\begin{aligned} & 5-803- \\ & 216 \end{aligned}$ | Bank: Tray5: Transport Sensor | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : paper not detected <br> 1: paper detected. |
| $\begin{aligned} & 5-803- \\ & 217 \end{aligned}$ | Bank: Feed Cover Open Detection 1 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { cover open } \end{aligned}$ |

## 3.SP Mode Tables

| 5803 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | 1: cover closed |
| $\begin{aligned} & 5-803- \\ & 218 \end{aligned}$ | Bank: Feed Cover Open Detection 2 | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { cover open } \\ & 1: \text { cover closed } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 219 \end{aligned}$ | LCT Paper Supply Open/Close | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { cover open } \\ & \text { 1: cover closed } \end{aligned}$ |
| $\begin{aligned} & 5-803- \\ & 220 \end{aligned}$ | LCT Slide Open/Close | ENG | [ 0 to $1 / 0 / 1$ ] <br> 0 : slide open <br> 1: slide closed |

ADF

| [ADF INPUT Check] |  |  |  |
| :--- | :--- | :--- | :--- |
| 6007 |  |  |  |
| $6-007-001$ | Original Length 1 (B5 Detection Sensor) | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-002$ | Original Length 2 (A4 Detection Sensor) | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-003$ | Original Length 3 (LG Detection Sensor) | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-004$ | Original Width 1 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-005$ | Original Width 2 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-006$ | Original Width 3 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-007$ | Original Width 4 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-008$ | Original Width 5 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-009$ | Original Detection | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-011$ | Skew Correction | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-013$ | Registration Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-014$ | Exit Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-015$ | Feed Cover Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-016$ | Lift Up Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-007-023$ | Rear Edge Detection | ENG | $[0$ to $1 / 0 / 1]$ |


| [1-Pass ADF INPUT Check] |  |  |  |
| :--- | :--- | :--- | :--- |
| 6 6-011-001 |  |  |  |
| $6-011-002$ | Original Length 1 (B5 Sensor) | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-003$ | Original Length 2 (A4 Sensor) | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-004$ | Original Width 1 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-005$ | Original Width 2 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-006$ | Original Width 3 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-007$ | Original Width 4 | ENG | $[0$ to $1 / 0 / 1]$ |


| [1-Pass ADF INPUT Check] |  |  |  |
| :--- | :--- | :--- | :--- |
| $6-011-008$ |  | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-009$ | Original Width 5 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-010$ | Separation Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-011$ | Skew Correction | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-012$ | Scan Entrance Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-013$ | Registration Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-014$ | Exit Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-015$ | Feed Cover Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-016$ | Lift Up Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-018$ | Pick-Up Roller HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-021$ | Bottom Plate HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-022$ | Bottom Plate Position Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-011-023$ | Original Length 4 (LT/A4 Tail Sensor) | ENG | $[0$ to $1 / 0 / 1]$ |

Finisher

| [INPUT Check: 2K/3K FIN] |  |  |  |
| :--- | :--- | :--- | :--- |
| 6 6-123-001 | Entrance Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-002$ | Horizontal Transport Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-003$ | Switchback Transport Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-004$ | Proof Tray Exit Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-005$ | Shift Tray Exit Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-006$ | Booklet Stapler Exit Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-007$ | Paper Exit Open/Close Guide HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-008$ | Punch HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-009$ | Punch Move HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-010$ | S-to-S Registration Detection HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-011$ | Lower Junction Solenoid HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-012$ | Jogger HP Sensor | $[0$ to $1 / 0 / 1]$ |  |
| $6-123-013$ | Positioning Roller HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-014$ | Feed-out HP Sensor | $[0$ to $1 / 0 / 1]$ |  |
| $6-123-015$ | Stapler Moving HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-016$ | Booklet Stapler HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-017$ | Booklet Jogger HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-018$ | Booklet Jog Solenoid HP Sensor | $[0$ to $1 / 0 / 1]$ |  |
| $6-123-019$ | Booklet Standard Fence HP Sensor | $[0$ to $1 / 0 / 1]$ |  |
| $6-123-020$ | Booklet Stapler HP Sensor | $[0$ to $1 / 0 / 1]$ |  |
| $6-123-022$ | Folder Blade Cam HP Sensor | $[0$ to $1 / 0 / 1]$ |  |
|  |  |  |  |

## 3.SP Mode Tables

| 6123 | [INPUT Check: 2K/3K FIN] |  |  |
| :---: | :---: | :---: | :---: |
| 6-123-023 | Folder Blade HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-024 | Shift Roller HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-025 | Shift Jogger HP Sensor: Front | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-026 | Shift Jogger HP Sensor: Rear | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-027 | Shift Jogger Retraction HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-028 | Drag Roller Vibrating HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-029 | LE Guide HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-030 | TE Stack Plate HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-031 | Staple Tray Paper Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-032 | ITB Paper Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-033 | Booklet Stapler Transport Paper Sn: Upper | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-034 | Booklet Stapler Transport Paper Sn: Lower | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-035 | Paper Height Sensor: Shift | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-036 | Corner Stapler Paper Height Sensor 1 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-037 | Corner Stapler Paper Height Sensor 2 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-038 | Proof Tray Full Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-039 | Booklet Stapler Full Sensor 1 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-040 | Booklet Stapler Full Sensor 2 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-041 | S-to-S Registration Detection Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-042 | Punch RPS Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-043 | Corner Stapler Leading Edge Detection Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-044 | Corner Stapler Staple End Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-045 | Booklet Stapler Staple End Sensor: Front | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-046 | Booklet Stapler Staple End Sensor: Rear | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-047 | Shift Tray Lower Limit Sensor 1 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-048 | Shift Tray Lower Limit Sensor 2 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-049 | Shift Tray Lower Limit Sensor 3 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-050 | Shift Tray Lower Limit Sensor 4 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-051 | Shift Tray Lower Limit Sensor 5 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-052 | Punch Chad Full Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-053 | Punch Set Detection | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-054 | Shift Jogger Set Detection | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-055 | Booklet Stapler Set Detection | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-056 | Front Door SW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-057 | Dynamic Roller Open/Close Guide Plate Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-058 | Tray Upper Limit SW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-123-059 | Paper Exit Open/Close Guide Plate Limit SW | ENG | [ 0 to $1 / 0 / 1$ ] |


| [INPUT Check: 2K/3K FIN] |  |  |  |
| :--- | :--- | :--- | :--- |
| 6 6-123-060 | Punch Selection DIPSW 1 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-061$ | Punch Selection DIPSW 2 | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-065$ | Paper Guide HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-066$ | Shift Jogger HP Sensor: Front | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-067$ | Shift Jogger HP Sensor: Rear | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-068$ | Shift Jogger Retraction HP Sensor: Upper | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-123-069$ | Shift Jogger Retraction HP Sensor: Lower | ENG | $[0$ to $1 / 0 / 1]$ |


| 6135 | [INPUT Check: FrontFIN] |  |  |
| :---: | :---: | :---: | :---: |
| 6-135-001 | Entrance Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-002 | Carry Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-003 | Exit Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-004 | Staple Tray Paper Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-005 | Front Jogger HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-006 | Rear Jogger HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-007 | Sft Roller HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-008 | Hitroll HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-009 | Ext Guide Plate HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-010 | Staple Moving HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-011 | Shift Tray Paper Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-012 | Shift Tray Limit Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-013 | Staple Rotation Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-014 | Staple Near End Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-015 | Self Priming Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-016 | Stopper HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-017 | Punch HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-018 | Punch Pluse Count Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-019 | Punch Chad Full Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-020 | Punch Moving HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-021 | Punch Registration Detection HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-022 | Punch Registration Detection Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-023 | Slide Door SW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-135-024 | Shift Tray Upper Limit SW | ENG | [ 0 to $1 / 0 / 1$ ] |


| 6161 | [FIN (1K FIN) INPUT Check] |  |  |
| :---: | :--- | :--- | :--- |
| $6-161-001$ | Entrance Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-002$ | Upper Cover Open/Close Sensor | ENG | $[0$ to $1 / 0 / 1]$ |

## 3.SP Mode Tables

| 6161 | [FIN (1K FIN) INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 6-161-003 | Proof Tray Exit Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-004 | Proof Tray Full Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-005 | Shift HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-006 | Exit Guide Plate Open/Close HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-007 | Shift Paper Exit (Lift Tray Exit) Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-008 | Positioning Roller HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-009 | Lift Tray Paper Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-010 | Jogger HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-011 | Feed Out HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-012 | Lift Tray Lower Limit Sensor (Upper) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-013 | Lift Tray Lower Limit Sensor (Lower) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-014 | Staple Tray Paper Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-015 | Stapler Moving HP Sensor (with Staples) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-016 | Near End Sensor (Common: Corner/Bklt Stplr) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-017 | Self Priming Sensor (Common:Crnr/Bklt Stplr) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-018 | Driver HP Sensor (Corner/Booklet Stapler) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-020 | Clincher HP Sensor (Corner/Booklet Stapler) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-022 | Stapler Retraction Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-023 | Stapler Moving HP Sensor (without Staples) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-024 | Stapler HP Sensor without Staples | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-025 | Move Guide Plate HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-026 | Punch HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-027 | Punch RP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-028 | Punch Hopper Full Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-029 | Punch Move HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-030 | S-to-S Registration Detection HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-031 | S-to-S Registration Detection Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-032 | Punch Selection DIPSW 1 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-033 | Punch Selection DIPSW 2 | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-034 | ITB Transport Sensor: Right | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-035 | ITB Transport Sensor: Left | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-036 | Stack Transport Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-037 | Stack Trans Upper Pressure Release HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-038 | Stack Trans Lower Pressure Release HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-039 | Fold Blade HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-040 | Fold Cam HP Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-161-041 | TE Stopper Transport Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |


| [FIN (1K FIN) INPUT Check] |  |  |  |
| :--- | :--- | :--- | :--- |
| $6-161-042$ | TE Stopper HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-043$ | Booklet Folder Exit Sensor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-044$ | Booklet Folder Tray Full Sensor: Upper | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-045$ | Booklet Folder Tray Full Sensor: Lower | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-046$ | Door Open/Close SW | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-047$ | Lift Tray Upper Limit SW | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-161-048$ | Paper Guide HP Sensor | ENG | $[0$ to $1 / 0 / 1]$ |


| 6184 | [Input Check:NoStplBindFIN] |  |  |
| :---: | :---: | :---: | :---: |
| 6-184-001 | Entrance Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-002 | Exit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-003 | Horizontal Registration Detection Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-004 | Shift HP Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-005 | Junction Solenoid HP Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-006 | Exit Pressure Release HP Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-007 | Stapler HP Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-184-008 | Tray Full Detection Sensor 1 | ENG | $[0 \text { to } 1 / 0 / 0]$ <br> 0: Paper overflow |
| 6-184-009 | Tray Full Detection Sensor 2 | ENG | [ 0 to $1 / 0 / 0$ ] <br> 0: Paper overflow |
| 6-184-010 | Slide Door Open/Close Door SW | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 0]} \\ & 0: \text { Close } \\ & \text { 1: Open } \end{aligned}$ |

## 3.SP Mode Tables

Multi-Fold Unit

| 6322 | [INPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 6-322-001 | Registration Sensor | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-002 | Folding Junction HP Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-003 | 1st 2-direction Paper Feed SN | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-004 | 2nd 2-direction Paper Feed SN | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-005 | Crease Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-006 | Crease HP Sensor | ENG | $\begin{aligned} & \hline[0 \text { to } 1 / 0 / 1] \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-007 | Top Tray Exit Sensor | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-008 | Top Tray Full Sensor 1 | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1 \text { ] } \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-009 | Top Tray Full Sensor 2 | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-010 | Bridge Exit | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-011 | Cover SW | ENG | $\begin{aligned} & \hline[0 \text { to } 1 / 0 / 1] \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |
| 6-322-012 | Exit Unit Open/Close SW | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Sensor Off } \\ & \text { 1: Sensor On } \end{aligned}$ |

## Output Check Table

Main Machine, Paper Feed Tray

| 5804 | [OUTPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 5-804-001 | Tray 1 Pickup Solenoid | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-002 | Tray 2 Pickup Solenoid | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-003 | Bypass Pickup Solenoid | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-004 | Paper Exit Junction Gate Solenoid | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-005 | Tray 1 Lift Motor:CW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-006 | Tray 1 Lift Motor:CCW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-007 | Tray 2 Lift Motor:CW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-008 | Tray 2 Lift Motor:CCW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-009 | Registration Motor:CCW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-010 | Registration Motor:CCW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-011 | Registration Motor:CCW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-012 | Registration Motor:CCW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-015 | Registration Motor:CCW:Position Hold | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-016 | Feed Motor:CW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-017 | Feed Motor:CW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-018 | Feed Motor:CW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-019 | Feed Motor:CW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-022 | Feed Motor:CCW:Std Speed | ENG | [ 0 to $1 / 0 / 1]$ |
| 5-804-023 | Feed Motor:CCW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-024 | Feed Motor:CCW:Low Speed | ENG | [ 0 to $1 / 0 / 1]$ |
| 5-804-025 | Feed Motor:CCW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-028 | Vertical Transport Motor:CW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-029 | Vertical Transport Motor:CW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-030 | Vertical Transport Motor:CW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-031 | Vertical Transport Motor:CW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-034 | Vertical Transport Motor:Position Hold | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-041 | Paper Exit Motor:CW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-042 | Paper Exit Motor:CW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-043 | Paper Exit Motor:CW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-044 | Paper Exit Motor:CW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-047 | Inverter Motor:CW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-048 | Inverter Motor:CW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-049 | Inverter Motor:CW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-052 | Inverter Motor:CW:Std Speed:Feed Speed | ENG | [ 0 to $1 / 0 / 1$ ] |

## 3.SP Mode Tables

| 5804 | [OUTPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 5-804-054 | Inverter Motor:CW:Low Speed:Feed Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-055 | Inverter Motor:CW:Mid Speed:Feed Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-056 | Inverter Motor:CCW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-057 | Inverter Motor:CCW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-058 | Inverter Motor:CCW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-061 | Inverter Motor:CCW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-062 | Inverter Motor:CCW:Mid Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-063 | Inverter Motor:CCW:Low Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-065 | Duplex Entrance Motor:CW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-066 | Duplex Entrance Motor:CW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-067 | Duplex Entrance Motor:CW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-068 | Duplex Entrance Motor:CW:Std Speed:FeedSpeed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-069 | Duplex Entrance Motor:CW:Low Speed:FeedSpeed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-070 | Duplex Entrance Motor:CW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-071 | Duplex Bypass Motor:CW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-072 | Duplex Bypass Motor:CW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-073 | Duplex Bypass Motor:CW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-074 | Duplex Bypass Motor:CW:Std Speed:Feed Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-075 | Duplex Bypass Motor:CW:Low Speed:Feed Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-077 | Duplex Bypass Motor:CCW:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-078 | Duplex Bypass Motor:CCW:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-079 | Duplex Bypass Motor:CCW:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-080 | Duplex Bypass Motor:CCW:Std Speed:Feed Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-081 | Duplex Bypass Motor:CCW:Low Speed:Feed Speed | ENG |  |
| 5-804-082 | Duplex Bypass Motor:CW:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-083 | Duplex Bypass Motor:Position Hold | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-092 | Fusing/Fusing Exit Motor:CCW:Std Speed | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> *See Important below the table |
| 5-804-093 | Fusing/Fusing Exit Motor:CCW:Mid Speed | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> *See Important below the table |
| 5-804-094 | Fusing/Fusing Exit Motor:CCW:Low Speed | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> *See Important below the table |
| 5-804-098 | Fusing/Fusing Exit Motor:CW:Low Speed | ENG | $\text { [ } 0 \text { to } 1 / 0 / 1]$ <br> *See Important below the table |
| 5-804-104 | Polygon Motor: L | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-105 | Polygon Motor: M | ENG | [ 0 to $1 / 0 / 1$ ] |


| 5804 | [OUTPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 5-804-106 | Polygon Motor: H | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-110 | Fusing Fan:Middle Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-111 | Fusing Fan:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-112 |  | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-113 | PSU Cooling Fan | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-114 | Toner Bottle Cooling Fan | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-115 | Main Exhaust Fan:Half Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-116 | Main Exhaust Fan:Full Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-118 | Paper Exit Cooling Fan:Half Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-119 | Paper Exit Cooling Fan:Full Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-120 | Development Motor:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-121 | Development Motor:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-122 | Development Motor:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-124 | Drum Motor:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-125 | Drum Motor:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-126 | Drum Motor:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-140 | Transfer Contact Motor:CW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-141 | Transfer Contact Motor:CCW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-162 | Toner Bottle Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-163 | Bridge Relay/Left Paper Feed Motor:Std Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-164 | Bridge Relay/Left Paper Feed Motor:Mid Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-165 | Bridge Relay/Left Paper Feed Motor:Low Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-166 | BridgeRelay/LefExit Motor:Std Speed:IncSpd | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-169 | BridgeRelay/LeftExit Junction Gate Solenoid | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-170 | <Shift Tray> Lift Motor:CW | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-171 | <Shift Tray> Lift Motor:CCW | ENG | [ 0 to $1 / 0 / 1]$ |
| 5-804-179 | HVP/ChargeDC/(-):PWM | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-187 | HVP/Development DC/(-):PWM | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-194 | HVP/Separation DC/(-):PWM | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-199 | HVP/PTR DC/(+):PWM | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-200 | HVP/PTR DC/(-):PWM | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-202 | Scanner Lamp | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-206 | Transfer Open/Close LED | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-209 | ID Sensor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-211 | ID Tag Power | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-241 | Bank: Tray3: Feed Mt: Standard Speed | ENG | [ 0 to $1 / 0 / 1$ ] |
| 5-804-242 | Bank: Tray4: Feed Mt: Standard Speed | ENG | [ 0 to $1 / 0 / 1$ ] |


| 5804 | [OUTPUT Check] |  |  |
| :---: | :--- | :--- | :--- |
| $5-804-243$ | Bank: Tray5: Feed Mt: Standard Speed | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-244$ | Bank: Tray3: Transport Mt: Standard Speed | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-245$ | Bank: Tray4: Transport Mt: Standard Speed | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-246$ | Bank: Tray5: Transport Mt: Standard Speed | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-247$ | Bank: Tray3: PU Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-248$ | Bank: Tray4: PU Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-249$ | Bank: Tray5: PU Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-251$ | OPC Quenching LCD | ENG | $[0$ to $1 / 0 / 1]$ |
| $5-804-253$ | Anti-Condensation Heater Relay | ENG | $[0$ to $1 / 0 / 1]$ |

Important: Use the procedure below to do the output checks for the fusing exit motor in SP5-804-092 to 098. If you do not follow this procedure, a kink will form in the fusing belt sleeve, and the fusing sleeve belt unit will need to be replaced.

1. Do one of the following:

- Open the right cover of the paper bank
- Remove one of the toner bottles
- Pull out the waste toner bottle half-way
- Remove the fusing unit

2. Enter SP mode.
3. Do the following out output checks:

- SP5-804-092 (Fusing Motor:CW:Standard Speed)
- SP5-804-093 (Fusing Motor:CW:Middle Speed)
- SP5-804-094 (Fusing Motor:CW:Low Speed)
- SP5-804-098 (Fusing Motor:CCW:Low Speed)

4. Without exiting SP mode, turn the main power switch off and then on again.

Important: If you exit SP mode before you turn the main power switch off, the fusing exit motor will stay off when the machine warms up. Heat will be concentrated in one area of the fusing belt sleeve and cause a kink to form. If this happens, you will need to replace the fusing sleeve belt unit.
5. Do the reverse of what you did in step 1 (for example, reattach the fusing unit).

ADF

| 6008 | [ADF OUTPUT Check] |  |  |
| :--- | :--- | :--- | :--- |
| $6-008-003$ | Feed Motor Forward | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-004$ | Feed Motor Reverse | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-005$ | Relay Motor Forward | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-006$ | Relay Motor Reverse | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-011$ | Inverter Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-012$ | Stamp | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-013$ | Fan Motor | ENG | $[0$ to $1 / 0 / 1]$ |


| 6008 | [ADF OUTPUT Check] |  |  |
| :--- | :--- | :--- | :--- |
| $6-008-014$ | Feed Clutch | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-008-015$ | Feed Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |


| 6012 | [1-Pass ADF OUTPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 6-012-001 | Pick-Up Motor Forward | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Off } \\ & \text { 1:On } \end{aligned}$ |
| 6-012-003 | Feed Motor Forward | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0:Off } \\ & \text { 1:On } \end{aligned}$ |
| 6-012-005 | Relay Motor Forward | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & \text { 0:Off } \\ & \text { 1:On } \end{aligned}$ |
| 6-012-009 | Exit Motor Forward | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & 0: \text { Off } \\ & \text { 1:On } \end{aligned}$ |
| 6-012-010 | Bottom Plate Motor For/Rev | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Off } \\ & \text { 1:On } \end{aligned}$ |
| 6-012-012 | Stamp | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Off } \\ & 1: \text { On } \end{aligned}$ |
| 6-012-015 | Pull-Out Motor Forward | ENG | $\begin{aligned} & {[0 \text { to } 1 / 0 / 1]} \\ & 0: \text { Off } \\ & 1: \text { On } \end{aligned}$ |
| 6-012-016 | Middle Motor Forward | ENG | $\begin{aligned} & \text { [ } 0 \text { to } 1 / 0 / 1] \\ & 0: \text { Off } \\ & \text { 1:On } \end{aligned}$ |

Finisher

| [OUTPUT Check: 2K/3K FIN] |  |  |  |
| :--- | :--- | :--- | :--- |
| 6 6-124-001 | Entrance Transport Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-124-002$ | Horizontal Transport Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-124-003$ | Pre-Stack Transport Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-124-004$ | ITB Transport Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-124-005$ | Paper Exit Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-124-006$ | Upper Junction Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |

## 3.SP Mode Tables

| 6124 | [OUTPUT Check: $2 \mathrm{~K} / 3 \mathrm{~K}$ FIN] |  |  |
| :---: | :---: | :---: | :---: |
| 6-124-007 | TE Stack Plate Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-008 | Paper Exit Open/Close Guide Plate Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-009 | Punching Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-010 | Punch Move Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-011 | S-to-S Registration Detection Move Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-012 | Lower Junction Solenoid Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-013 | Jogger Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-014 | Positioning Roller Rotation Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-015 | Feed-out Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-016 | Booklet Stapler Move Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-017 | Corner Stapler Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-018 | Booklet Stapler Jogger Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-019 | Booklet Stapler Jog Solenoid Move Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-020 | Booklet Stapler Standard Fence Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-021 | Booklet Stapler Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-022 | Dynamic Roller Transport Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-023 | Folder Transport Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-025 | Square-fold Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-026 | Tray Lift Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-027 | Shift Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-028 | Front Shift Jogger Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-029 | Rear Shift Jogger Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-030 | Shift Jogger Retraction Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-031 | Drag Roller Vibrating Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-032 | LE Guide Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-033 | Navigation LED (All) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-037 | Positioning Roller Transport Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-124-038 | Paper Guide Motor | ENG | [ 0 to $1 / 0 / 1$ ] |


| [OUTPUT Check: FrontFIN] |  |  |  |
| :--- | :--- | :--- | :--- |
| $6-136-001$ | Entrance Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-002$ | Carry Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-003$ | Exit Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-004$ | Front Jogger Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-005$ | Rear Jogger Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-006$ | Shift Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-007$ | Hitroll Motor | ENG | $[0$ to $1 / 0 / 1]$ |


| [OUT36 |  |  |  |
| :--- | :--- | :--- | :--- |
| $6-136-008$ | Exit Guide Plate Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-009$ | Staple Moving Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-010$ | Tray Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-011$ | Staple Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-012$ | Stopper Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-013$ | Punch Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-014$ | Punch Moving Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-136-015$ | Punch Registration Moving Motor | ENG | $[0$ to $1 / 0 / 1]$ |


| 6162 | [FIN (1K FIN) OUTPUT Check] |  |  |
| :---: | :---: | :---: | :---: |
| 6-162-001 | Entrance Transport Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-002 | Proof Transport Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-003 | Paper Feed/Positioning \& Move Roller Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-004 | Junction Solenoid | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-005 | Shift Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-006 | Jogger Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-007 | Exit Guide Plate Open/Close Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-008 | Feed-out Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-009 | Tray Lift Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-010 | Paper Guide Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-011 | Positioning Roller Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-012 | Stapler Shift Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-013 | Stapler Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-014 | Stapler Moving Motor (without Staples) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-015 | Stapler Motor (without Staples) | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-016 | Move Guide Plate Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-017 | Punch Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-018 | Punch Move Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-019 | S-to-S Registration Detection Move Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-020 | Stack Transport Motor: Upper | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-021 | Stck Trns Uppr Prss R1s/Stndrd Fence Rtrct M | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-022 | Stack Lower Pressure Release Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-023 | Folder Transport Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-024 | TE Stopper Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-025 | Folder Blade Motor | ENG | [ 0 to $1 / 0 / 1$ ] |
| 6-162-026 | Navigation LED (All) | ENG | [ 0 to $1 / 0 / 1$ ] |


| 6185 | [Output Check:NoStpIBindFIN] |  |  |
| :--- | :--- | :--- | :--- |
| $6-185-001$ | Transport Motor | ENG | $[0$ to $1 / 0 / 0]$ |
| $6-185-002$ | Shift Motor | ENG | $[0$ to $1 / 0 / 0]$ |
| $6-185-003$ | Junction Solenoid Motor | ENG | $[0$ to $1 / 0 / 0]$ |
| $6-185-004$ | Exit Pressure Release Motor | ENG | $[0$ to $1 / 0 / 0]$ |
| $6-185-005$ | Stapler Motor | ENG | $[0$ to $1 / 0 / 0]$ |

Multi-Fold Unit

| 6323 | [OUTPUT Check] |  |  |
| :--- | :--- | :--- | :--- |
| $6-323-001$ | Transport Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-323-002$ | Registration Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-323-003$ | Folding Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-323-004$ | 2nd 2-direct Paper Feed Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-323-005$ | JG/Crease Motor | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-323-006$ | Junction Solenoid | ENG | $[0$ to $1 / 0 / 1]$ |
| $6-323-007$ | Navigation LED (All) | ENG | $[0$ to $1 / 0 / 1]$ |

## Test Pattern Printing

Printing Test pattern: SP2-109
Some of these test patterns are used for copy image adjustments but most are used primarily for design testing.

- Do not operate the machine until the test pattern is printed out completely. Otherwise, SC will occur.

1. Enter the SP mode then select SP2-109-003.
2. Select test pattern for print from the list then press [OK].
3. When changing density of test pattern, select density with SP2-109-006.


- If select " 0 " with SP2-109-006, the color adjusted so will not show up in the test pattern.

4. To print, touch "Copy Window", then set settings within the following window for test print (paper size etc...).
5. Press "Start" key to start test print.
6. After checking test pattern, touch "SP Mode" on the LCD to return to SP mode display.
7. Reset all settings to the default values.
8. Exit SP mode.

| No. | Pattern | No. |  |
| :--- | :--- | :--- | :--- |
| 0 | None | 13 | Pattern |
| 1 | 1dot Vertical Line | 14 | Trimming Area |
| 2 | 2dot Vertical Line | 15 | Hounds tooth H |
| 3 | 1dot Horizontal Line | 16 | Hounds tooth V |
| 4 | 2dot Horizontal Line | 17 | Black Band H (Horizontal) |
| 5 | Grid Vert (Grid Vert ical Line) | 18 | Black Band V (Vertical) |
| 6 | Grid Horizontal (Grid Horizontal Line) | 19 | Checker Flag Pattern |
| 7 | Grid Pattern Small | 20 | Grayscale V (Vertical) |
| 8 | Grid Pattern Large | 21 | Grayscale H (Horizontal) |
| 9 | Argyle Pattern Small | 22 | 2 Beam Density Pttrn |
| 10 | Argyle P:L (Argyle Pattern Large) | 23 | Full Dot Pattern |
| 11 | 1dot Ind. Pttrn (1dot independent Pattern) | 24 | All White Pattern |
| 12 | 2dot Ind. Pttrn (2dot independent Pattern) |  |  |

## 4. Software Configuration

## Printing Features

## Auto PDL Detection Function

## Overview

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. This is only possible if the job was not created using a driver.

## 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
- The printer is unable to detect PCL6 or RPCS. However these are almost always created using a driver and therefore contain the PJL command specifying the PDL.


## 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 2 KB 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.

- 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


## 4.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 <br> [FF] |
| :---: | :---: |
| PS triggers | \%!PS-Adobe-3.1 <br> "\%!" <br> "dict begin" <br> "bind def" <br> "findfont" <br> "showpage" <br> "/statusdict" <br> "0 startjob" <br> [EOT] <br> "\}" + space character + "def" <br> "userdict" (*) |
| PDF triggers | $\begin{aligned} & \text { \%PDF- } \\ & \text { \%!PS-Adobe-M.nPDF- (*M, n=numeric }) \end{aligned}$ |

* "userdict" is excluded by configuring Printer Bit Switch 5-3=1.


## FIMTM

- Up to 2 KB from the start of the job can be searched for triggers.
- "\%\%" can be added to the PS triggers by configuring Printer Bit Switch 5-3=1
- 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 |
| :--- | :--- |

- Up to 256 bytes from the start of each page can be searched for triggers.


## 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.
$0 \% \% \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \% 0 \%$
However some customers prefer that " $\% \%$ " be included as a switching criteria. BitSW5-3=1 should be used in such a case.

## 분

- 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 2 KB of the job has been sent.
The Printer system portion of the Auto PDL Detection function is only performed on the first 2 KB of a job and can wait up to 10 seconds for that first 2 KB 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 2 KB 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 2 KB of data to arrive.
BitSw 9-0=1:
The printer system will wait up to 10 seconds for the first 2 KB of data to arrive.

## Print Images Rotation

Printer Bit Switch description

## Bit Switch 5-6

This change the way an MFP/LP rotates PCL, PS, PDF, or RPCS print images.
BitSW 5-6=0 (default):
A uniform binding edge (short or long edge) will be applied to every page of every job. Pages will always be rotated as if they were to be bound on that edge.

BitSW 5-6=1:
A uniform binding edge (short or long edge) will only be applied if the job is stapled, punched, or Z-folded.
Otherwise, the bound edge might differ from page to page.
Example:
A 3-page job. Page 1 has the PCL simplex command. Page 2 and 3 have the PCL duplex long-edge bind commands.

No finishing options (staple, punch, z-fold) are used.

## Bit Switch \#5-6=0:




## Bit Switch \#5-6=1:



## F

- Used in conjunction with Bit Switch \#5-6, Orientation Auto Detect for PS/PDF jobs might cause unexpected results.


## 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 rotates PCL, PS, PDF, or RPCS print images.

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
4.Software Configuration
@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
START
NAME="Microsoft Word - TEST_page1-3"
@(PJL USTATUS PAGE
1
@ PJL USTATUS PAGE
2
@ PJL USTATUS PAGE
3
@(PJL USTATUS PAGE
4
@ PJL USTATUS PAGE
5
@PJL USTATUS PAGE
6@PJL USTATUS PAGE
7
@ PJL USTATUS PAGE
8

## @PJL USTATUS PAGE

9
@PJL USTATUS JOB
END
NAME="Microsoft Word - TEST_page1-3"
PAGES=9
<comment> The page count of all three copies is returned.</comment>

## Behavior of USB Printer Detection

An MFP/LP connected via USB sends its product name and unique serial number. With the data, the machine determines whether requires a printer driver for the USB device to be installed
SP5-844-005 allows you to change how to determine the MFP/LP requires a printer driver installation:

- OFF

If SP5-844-005 is set to OFF, the unique serial number of the device is sent to the computer. As a result, if the device is swapped out for a device of the same product, pop-up messages will appear, because the serial numbers between the two are different.

- Level 1

If SP5-844-005 is set to Level 1, a common serial number for the product such as "RICOH MP 305+" series is sent to the computer. As a result, if the device is swapped out for a device of the same product, pop-up messages will not appear because the devices are recognized as having the same serial number.

- Level 2

If SP5-844-005 is set to Level 2, a common serial number for all GW/GW+ models is sent to the computer. As a result, if a GW/GW+ device is swapped out for a different GW/GW+ device, pop-up messages will not appear because the devices are both recognized as being based on GW/GW+.

## Scanner Features

## Display settings of recently used scan destination

Configuring the scanner interface so that the most recently used scan destination is cleared.
Whether the MFP clears the most recently used scan destination, can be configured using Scanner SP 1-012-001. By default, this is cleared to avoid subsequent users scanning to it by mistake.

Scanner SP 1-012-001
1 (default): Clear
0: Do not clear
This will cause all of the following to be cleared after the scanning is complete:

- Destination
- Sender
- Email subject
- Email message
- File name

Scanner SP 1-012-001=1 (default):
The information in the list above will be cleared after scanning is finished.

## Exceptions:

- User Auth.:

If SP 1-012-001 $=0$ and if User Auth. (excluding User Code authentication) is enabled, the most recently used scan destination will only be retained until the user logs out.

- Scanner Auto Reset timer:

Even if SP 1-012-001 $=0$ the most recently used scan destination can still be cleared by the Scanner Auto Reset timer. If the Scanner Auto Reset timer is shorter than the System Auto Reset timer, then the most recently used scan destination will be cleared when the Scanner Auto Reset timer elapses.

## The Setting of SMTP authentication in Scan to Email

Scan to Email fails with the error message "Transmission has failed ". The SMTP username and password are correct. How can I make Scan to Email pass ?
Change SP 5-860-022 "SMTP Auth. From Field Replacement" to On. By doing this, Scan to Email will pass the SMTP authentication.

- Using this option to solve the above problem, the device email address will appear in the email's "From" field. The email address of the user who sent the email will appear in the "Reply-to" field.


## Explanation

This is an SMTP authentication issue that aborts transmission of an already started Scan to Email. Currently this has only been reproduced using MS-Exchange server.
MS-Exchange requires that all of the following match:

1. The sender's address in the "MAIL FROM" field. This is also known as the "envelope sender" or "MIME sender". It is an SMTP command sent at the beginning of the email transmission process.
2. The sender's address in the mail header "From:" field. This appears as "From" in email clients. It is a part of the email itself.
3. The email address corresponding to the SMTP username used to login into the SMTP server.

When the MFP logins into the SMTP server, the email address of the username 3) will be compared to 1) and 2). If these comparisons fail, authentication will also fail. Exchange server will stop the transmission procedure, and the "Transmission has failed" message will be returned to the sender.

Typical example

## NG case:

SP5-860-022 is Off:

1. The "MAIL FROM" field = device (Fig.1)
2. The mail header "From:" field = user (Fig.2 )
3. The SMTP username $=$ device (Fig.1 )

When the SMTP server compares 2) and 3) the Exchange Server will stop the transmission procedure.

## OK case:

SP5-860 can be used to make the values in the above example, match.
In this example, if SP5-860-022 is On, the user's email address in the mail header '2)' will be replaced by the Administrator's email address. (see Fig. 3 )
To solve the problem, the Administrator's address must be the same as the device's address.
If this is done:

1. The "Mail From: field = device
2. The mail header "From:" field = administrator
3. The SMTP username $=$ device

1,2 and 3 must match and the authentication should be successful.
H1

- The user's email address will still be inserted into the reply-to field.

The device SMTP user name, password, and email address are configurable in [User Tools] > [Machine Features] $>$ [System Settings] $>$ [File Transfer] $>$ [SMTP Authentication]
User email addresses are configurable in the user configuration of the Address Book.
The administrator email address is configurable in [User Tools] $>$ [Machine Features] $>$ [System Settings] $>$ [File Transfer] > [Administrator's Email Address]

## The Qualification Switching of Scan to Folder

Determining which account Scan to Folder uses to access a scan destination and the effects of System SP 5-846021.

This method depends on how the destination is accessed, whether authentication is being used, and SP 5-846-021.

## Cases:

| Case | Destination <br> selection | User auth. | Account used to access the folder |
| :--- | :--- | :--- | :--- |
| A | Manual entry | Either enabled or <br> disabled | The user's account * |
| B | Destination list | disabled | The recipient's account <br> (as configured in the Address Book's Folder <br> Authentication setting) |
| C |  | If SP 5-846-021 $=$ <br> 0 (default): The authenticated user's account <br> $1:$ The recipient's account <br> (as configured in the Address Book's Folder <br> Authentication setting) |  |
|  |  |  |  |

* The "user's account" will be either the one entered during scanning (see the Manual Entry screen capture) or if

User Auth. is enabled, the account configured in the user's Folder Authentication setting will be used.

## The desintation's access logs:

Case A or Case C with $\mathrm{SP}=0$ : The access logs can be used to determine which user sent the scan.


Case B or Case C with $\mathrm{SP}=1$ : All access will be logged as the same user.



[^0]:    Moving the finishers
    SR3210
    SR3220
    SR3230, SR3240

[^1]:    * If SP5-805-001 is set to " 1 " (ON), disconnect the harnesses of anti-condensation heaters (Scanner and PCDU)
    manually to disable. Otherwise, the followings may occur:

