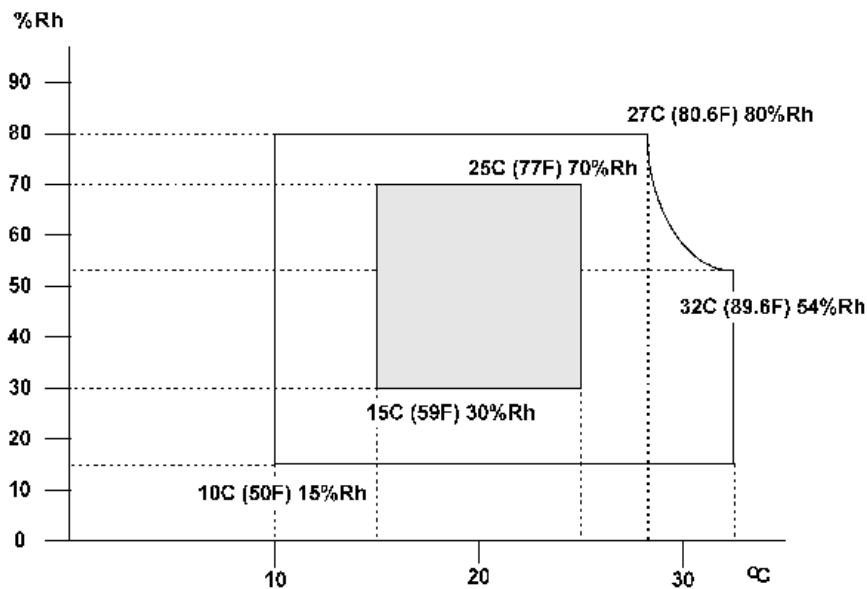


2. INSTALLATION

2.1 INSTALLATION REQUIREMENTS

2.1.1 ENVIRONMENT



Temperature Range:	10°C to 32°C (50°F to 90°F)
Humidity Range:	15% to 80% RH
Ambient Illumination:	Less than 1,500 lux (do not expose to direct sunlight.)
Ventilation:	Room air should turn over at least 30 m ³ /hr/person

1. Avoid areas exposed to sudden temperature changes:
 - 1) Areas directly exposed to cool air from an air conditioner.
 - 2) Areas directly exposed to heat from a heater.
2. Do not place the machine where it will be exposed to corrosive gases.
3. Do not install the machine at any location over 2,000 m (6,500 ft.) above sea level. (NA model can be installed up to 2,500m (8,202 ft.))
4. Place the main machine on a strong and level base. Inclination on any side should be no more than 5 mm (0.2").
5. Do not place the machine where it may be subjected to strong vibrations.

2.1.2 MACHINE LEVEL

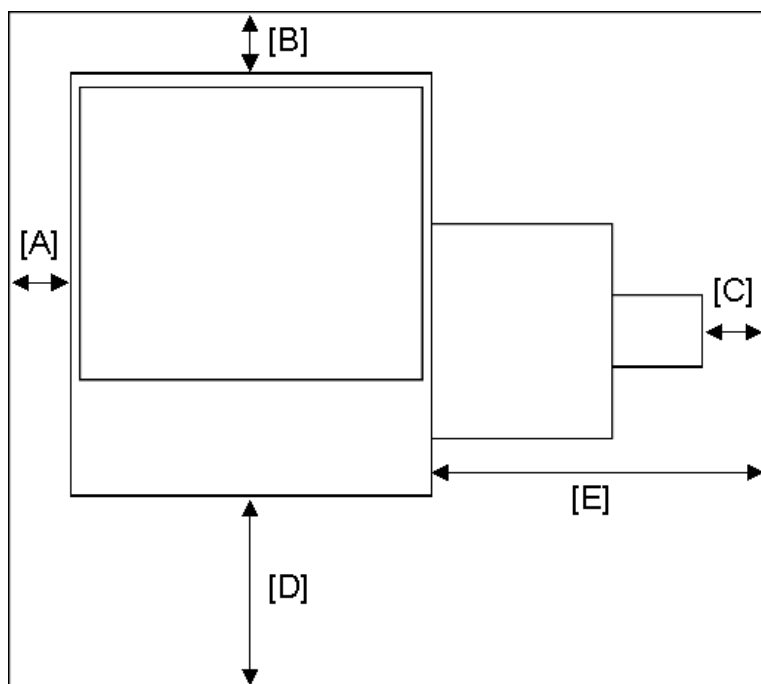
Front to back: Within 5 mm (0.2")

Right to left: Within 5 mm (0.2")

2.1.3 MACHINE SPACE REQUIREMENTS

Note

- These are the minimum space requirements.



d1462236a

[A]	Left	Over 100 mm (3.9")
[B]	Rear	Over 100 mm (3.9")
[C]	Right with Bypass tray	Over 100 mm (3.9")
[D]	Front	Over 750 mm (29.5")
[E]	Right	Over 500 mm (19.7")

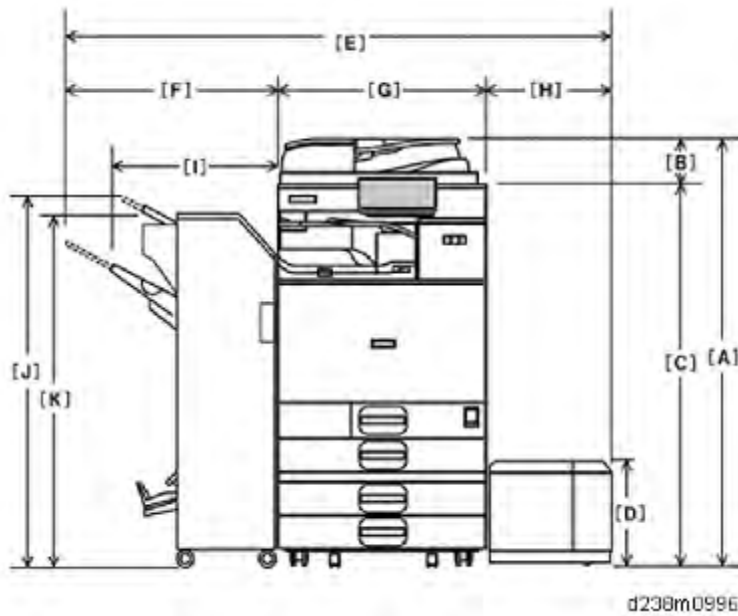
Put the machine near the power source with the clearance shown above.

Note

- Main Machine Occupation Dimensions (W x D):
1149 mm (45.24") x 1236 mm (48.67") (With Bypass table opened + Main unit paper exit drawer)

2.1.4 MACHINE DIMENSIONS

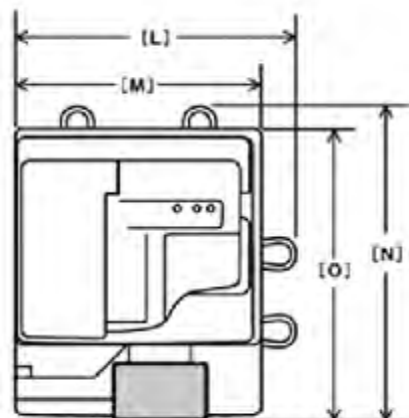
In the following figure, MP C4504 is equipped with Paper Feed Unit PB3160, Bridge Unit BU3070, Finisher SR3210, and LCIT RT3030.



A	1,155mm / 45.47" (when equipped with ARDF) 1,205mm / 47.44" (when equipped with SPDF)
B	125mm / 4.92" (when equipped with ARDF) 175mm / 6.89" (when equipped with SPDF)
C	1,030mm / 40.55"
D	290mm / 11.41"
E	1,683mm / 66.26"
F	575 to 660mm / 22.63" to 25.98" (when equipped with SR3210) 657 to 756mm / 25.86" to 29.76" (when equipped with SR3230)
G	587mm / 23.11"
H	340mm / 13.38"
I	575mm / 22.63" (when equipped with SR3210) 657mm / 25.86" (when equipped with SR3230)
J	1,045mm / 41.14" (when equipped with SR3210) 1,028mm / 40.47" (when equipped with SR3230)

Installation Requirements

K	986mm / 38.81" (when equipped with SR3210) 973mm / 38.30" (when equipped with SR3230)
---	--



0238m0997

L	668mm / 26.29"
M	587mm / 23.11"
N	738mm / 29.05"
O	685mm / 26.96"

Model -27, -29, -65 (220–240 V)

Models equipped with the ARDF (W × D × H up to ARDF):

587 × 685 × 913 mm (23.2 × 27.0 × 36.0 inches)

Models equipped with the SPDF (W × D × H up to SPDF):

587 × 685 × 963 mm (23.2 × 27.0 × 38.0 inches)

Models with no ADF

- **MP C3004/C3504 (W × D × H up to exposure glass):**

587 × 685 × 788 mm (23.2 × 27.0 × 31.1 inches)

- **MP C4504/C5504 (W × D × H up to exposure glass):**

587 × 685 × 963 mm (23.2 × 27.0 × 38.0 inches)

Model -17, -18 (120–127 V)

MP C3004/C3504/ C4504/C6004 (equipped with the SPDF)

587 × 685 × 963 mm (23.2 × 27.0 × 38.0 inches)

2.1.5 POWER REQUIREMENTS

CAUTION

- Insert the plug firmly in the outlet.
- Do not use an outlet extension plug or cord.
- Ground the machine.

Input voltage level

Destination	Power supply voltage	Rated current consumption	Permissible voltage fluctuation
NA	120 to 127V	12A or more	Image quality guaranteed: 108V(120V-10%) to 138V(127V+8.66%) Machine operation guaranteed: 102V(120V-15%) to 138V(127V+8.66%)
EU	220 to 240V	10A	Image quality guaranteed: 198V(220V-10%) to 264V(240V+10%) Machine operation guaranteed: 187V(220-15%) to 276V(240V+15%)
AP			
CHN			

2.2 MAIN MACHINE INSTALLATION

2.2.1 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 [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.

ⓘ Note

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

Password Setting Procedure

Note

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

CAUTION

- When Supervisor / Administrator 1-4 passwords are configured via network, the "Change Supervisor login password" window won't 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.

- Install the machine.
- Turn ON the main power.
Password change display appears.
- Press [Change] and change the supervisor login password.



d176f2101

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



d176f2106

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.

Note

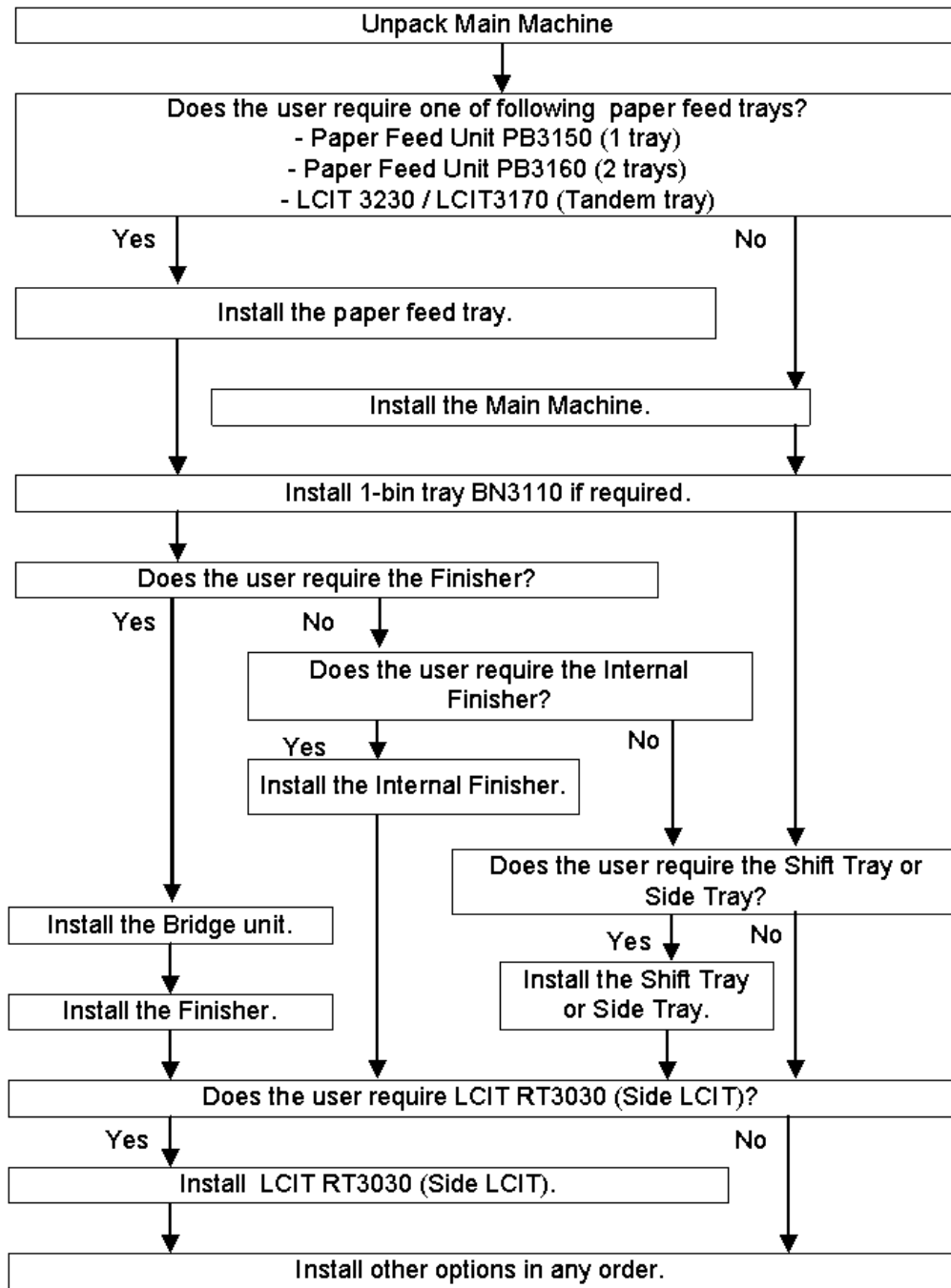
- To enter the SP mode, there are two ways to display the number keyboard on screen;
 1. Press the "Document Server" icon.
 2. Press and hold the button [A] located at the left side of the operation panel and "Check Status [B]" at the same time.



d238m0747



2.2.2 INSTALLATION FLOW CHART



w_d1465025b

Put the machine on the paper feed tray (1 tray/2 trays) or the LCT (tandem tray) first, then install the machine and other options.

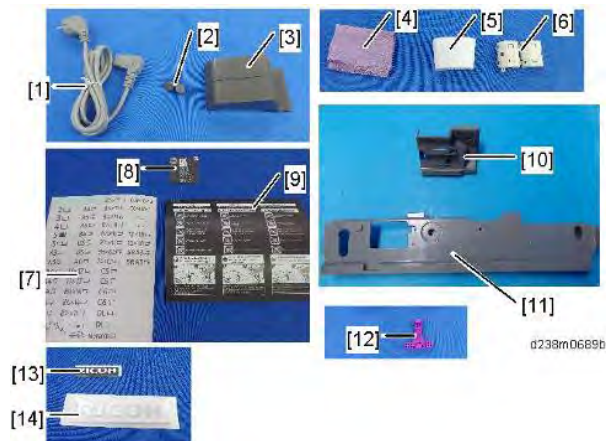
You need **Paper Feed Unit PB3160** (D693) or **LCIT 3230/LCIT3170** (D695) to align the paper transport path if you want to install the following peripherals.

- Finisher SR3210 (D3B8)
- Booklet Finisher SR3220 (D3B9)
- Finisher SR3230 (D3BA)
- Booklet Finisher SR3240 (D3BB)
- LCIT RT3030 (D696)

2.2.3 ACCESSORY CHECK

No.	Description	Q'ty
1	Power Cord	1
2	Cap for scanner lock	2
3	End Fence	1
4	Cleaning Cloth	1
5	Cleaning Cloth Holder	1
6	Ferrite Core (Fax standard models only)	1
7	Decal - Paper Tray	1
8	Decal - Original Table for DF	1
9	Decal - Caution : Original : Multi Language	1
10	PCDU Front Cover	C6004/C5504/C4504: 4 C3504/C3004: 1
11	Image Transfer Front Cover	1
12	Winding Lever (for removal of PCDU seals)	1
13	Plate – Logo (Smart Operation Panel)	1
14	Plate – Logo (front cover)	1
-	M3x8 Screws for Image Transfer Front Cover	2
-	M3x8 Screws for PCDU Front Cover	C6004/C5504/C4504: 4 C3504/C3004: 1
-	Sheet -Safety (EU only)	1
-	Sheet -Tel (China only)	1
-	CD-ROM - OI	1
-	CD-ROM - Driver	1
-	Sheet - 20 Languages	1

No.	Description	Q'ty
-	Seal - 20 Languages	1
-	Sheet - 20 Languages	1
-	Sheet EMC address (EU only)	1
-	Caution: Smart Operation Panel	1
-	Caution: Smart Operation FCC (NA only)	1
-	Caution: CE (China only)	1
-	NFC Tag	1
-	Bluetooth decal (for NA, EU, AA)	1



2.2.4 INSTALLATION PROCEDURE

⚠ CAUTION

- Remove the tape from the development units before turning the main power ON. The development units can be severely damaged if the tape is still attached.

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].



Note

- When you lift the machine, hold the correct parts, as shown in the photo below.
- Do not lift by holding the scanner unit, etc., because this might deform the machine or break the exterior covers



d1462211

Installation

⇒ IMPORTANT NOTE ABOUT MACHINE INSTALLATION

- Make sure to do the following when installing the machine:
Hold the grip of the right rear cover as shown in **Fig. 2 (CORRECT)**.
Insert your fingers **all the way up and inside the grip**.
- If you do not, the right cover will break, as shown in Fig. 4.

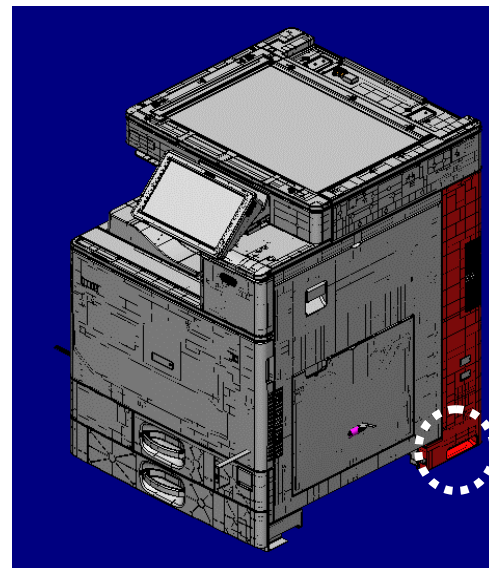


Figure 1 Right Rear Cover



Figure 2 Correct



Figure 3 Incorrect



Figure 4 Broken Right Rear Cover

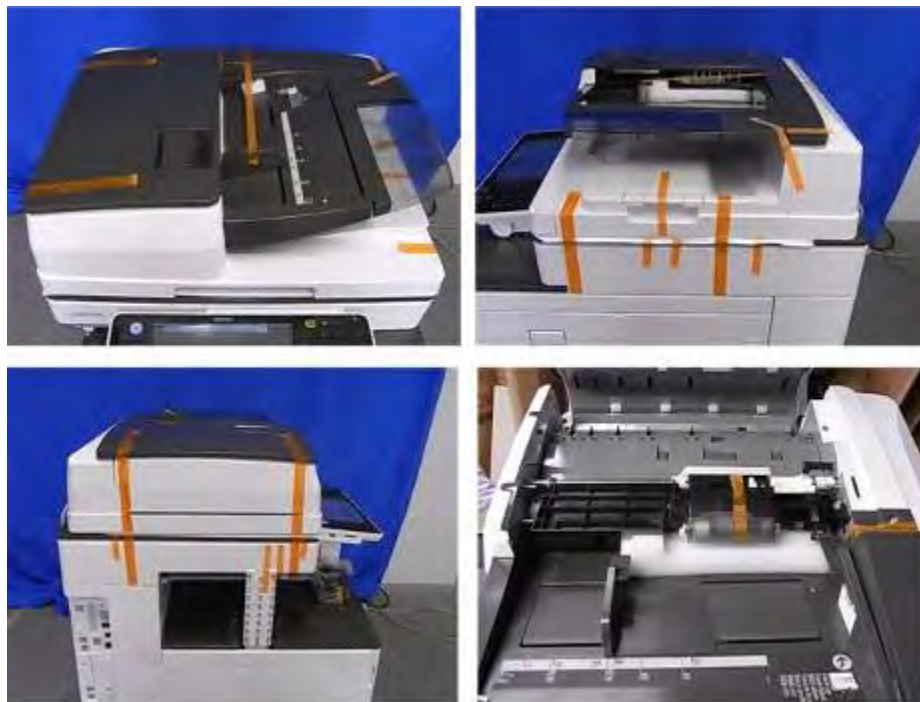
Main Machine Installation

2. Remove the orange tape and retainers on the outside.

For a basic model



For a model on which SPDF DF3100 is preinstalled, remove the orange tape and retainers on the SPDF.



For a model on which ARDF DF3090 is preinstalled, remove the orange tape and retainers on the ARDF.



3. Remove the paper size decal [A] on the exposure glass.

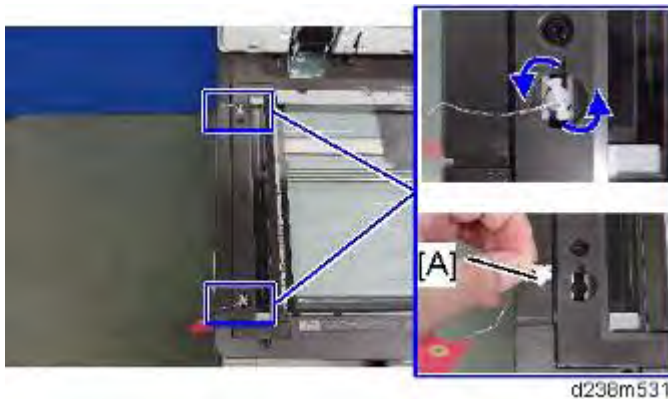


4. Remove the orange tape on the scanner shipping locks.



5. Remove the two scanner shipping locks [A] by rotating them 90 degrees counter clockwise.

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



Note

- Keep the scanner shipping locks after installing the machine. The scanner shipping locks must be installed before moving the machine using methods in which the machine will not always be level, such as by truck over rough ground, or by ship.
- Before moving the machine, make sure to move the scanner carriage to the correct position with SP4-806-001 and reattach the shipping locks.(page 2-39 "Moving the Machine")

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



7. Pull out the 1st/2nd paper trays, remove the orange tape.



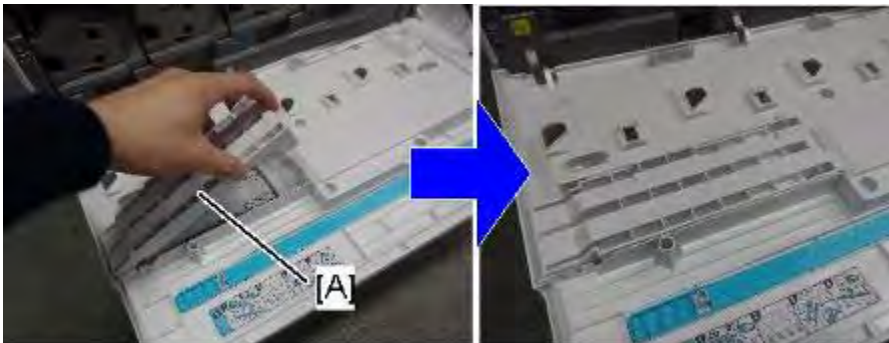
d238m527

8. Remove the scanner support [A].



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9. Open the front cover, and store the scanner support [A] in the storage location.



d238m528

Note

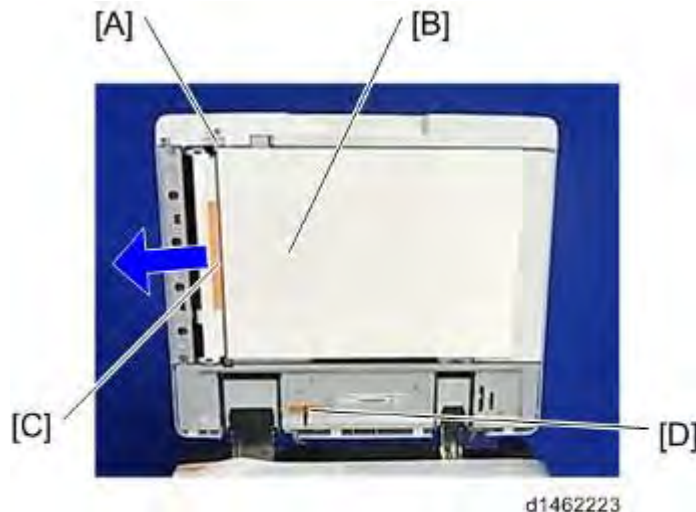
- The factory setting sheet is kept in the position [A].

SP descriptions

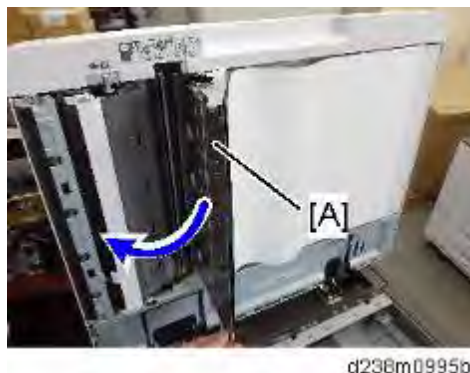
- SP4-806-001 (Scanner carriage storage operation).
Moves the scanner carriage to the shipping lock position. Attach the scanner shipping locks and fix the scanner carriage after executing SP4-806-001.

For Machines with preinstalled SPDF: Removal of protective sheet

1. Open the SPDF.
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].



5. Close the SPDF.

Note

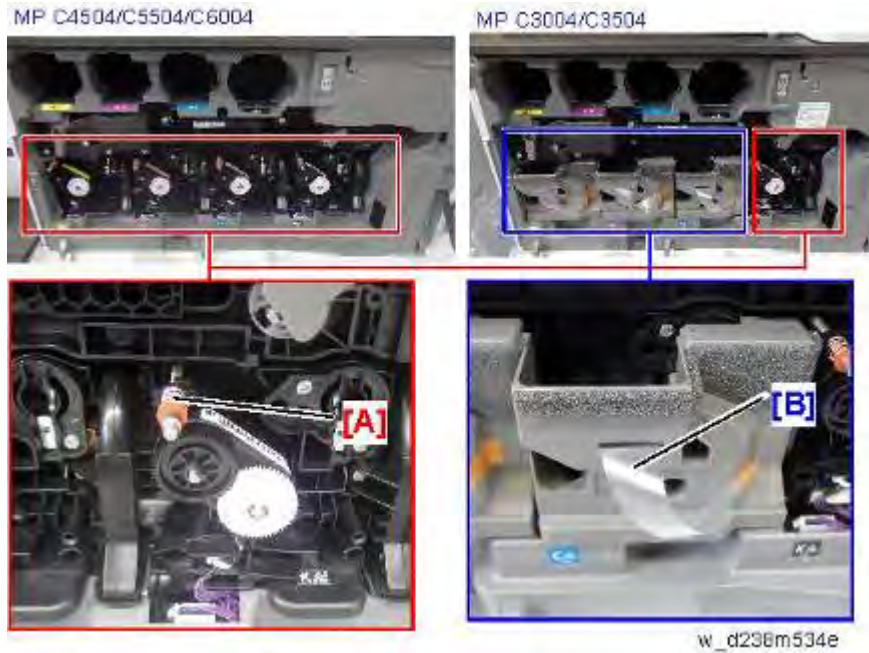
- If the protective sheet remains in the SPDF, a paper jam will be detected.

⇒ Removal of PCDU Seals: Overview

Seals must either be wound up with a special tool, or pulled out. The procedure differs between models as follows.

On MP C4504/C5504/C6004, PCDU seals for all colors (CMYK) are wound automatically after the power is turned on. There are no seals to pull out on these models

On MP C3004/C3504, the PCDU seal for Bk is wound automatically after the power is turned on. The PCDU seals for CMY must be pulled out [B].



⚠ CAUTION

- Automatic initial adjustment will be done even if the seal was not removed correctly. But toner from a PCDU that still has the seal will not be able to reach the ITB, and will not be transferred to printouts and copies.
- If this happens, remove the PCDU seal and do SP2-111-004 (Forced Line Position Adj. Mode d).
- White stripes may appear in the printed images for the first 20k pages printing continuously in a low humid environment, due to the deviation of toner density adjustment. Except for that, the machine operates normally.

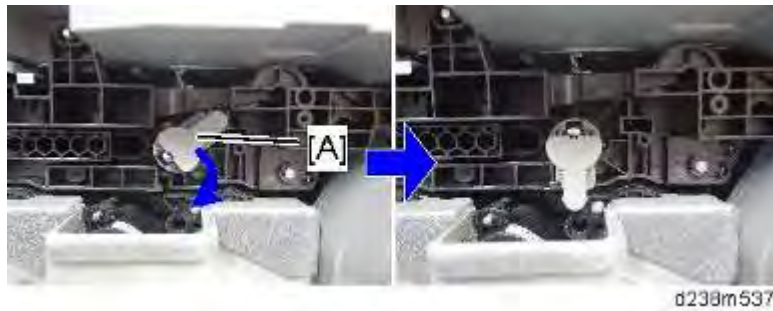
SP descriptions

- **SP2-111-004 (Forced Line Position Adj. Mode d)**
Executes the fine line position adjustment and rough line position adjustment.

⇒ Removal of PCDU Seals: MP C4504/C5504/C6004**Note**

Please read TSB D238/D239/D240/D241/D242 – 030 before proceeding with this installation procedure.

1. Rotate the ITB contact/separation lever [A] clockwise, and set it to the position in the following picture.



2. Attach the image transfer front cover [A] with the two screws (M3x8; provided with the accessories).



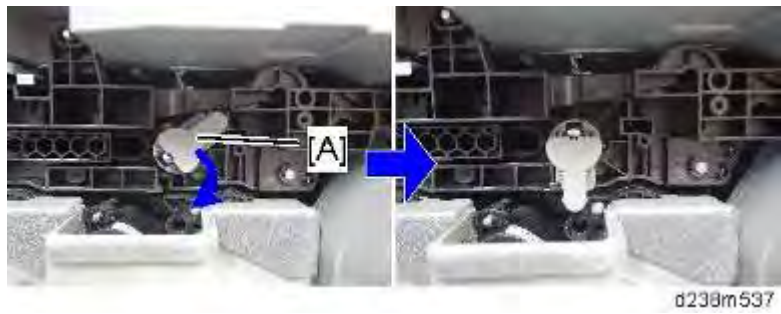
3. Close the front cover.

⇒ **Removal of PCDU Seals: MP C3004/C3504**

1. Pull out the seals [A] for Y, M and C.



2. Rotate the ITB contact/separation lever [A] clockwise, and set it to the position in the following picture.



3. Attach the image transfer front cover [A] with the two screws (M3x8; provided with the accessories).



4. Close the front cover.

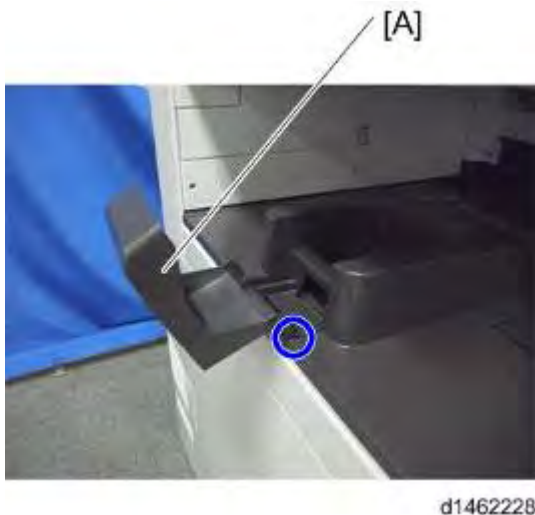
Attaching the Optical Cloth Pocket

1. Clean the adhesive surface of the optical cloth pocket with an alcohol-soaked cloth.
2. Attach the optical cloth pocket [A] to the left side of the scanner and put the optical cloth into the pocket.



Attaching the Paper Exit Tray Parts

1. Attach the part [A] to the paper exit tray.
First, insert and attach the front pin (inside the blue circle).



Installing the Feeler for the Paper Exit Full Sensor

1. Pull the sensor feeler [A] out.



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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.



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Paper will get jammed in the following cases.

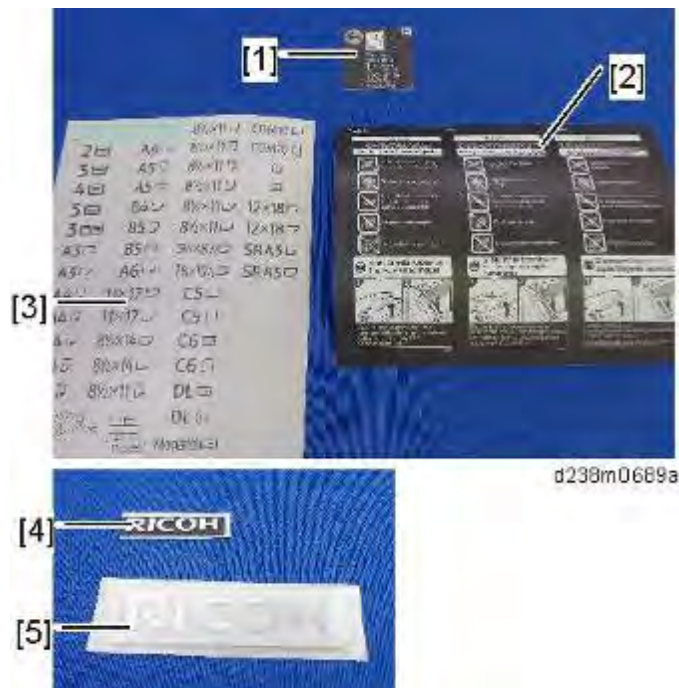
- The paper exit feeler does not function due to obstacles (such as cables).
- The paper exit feeler does not function when the paper is pulled out and pushed back again.



d238m0652

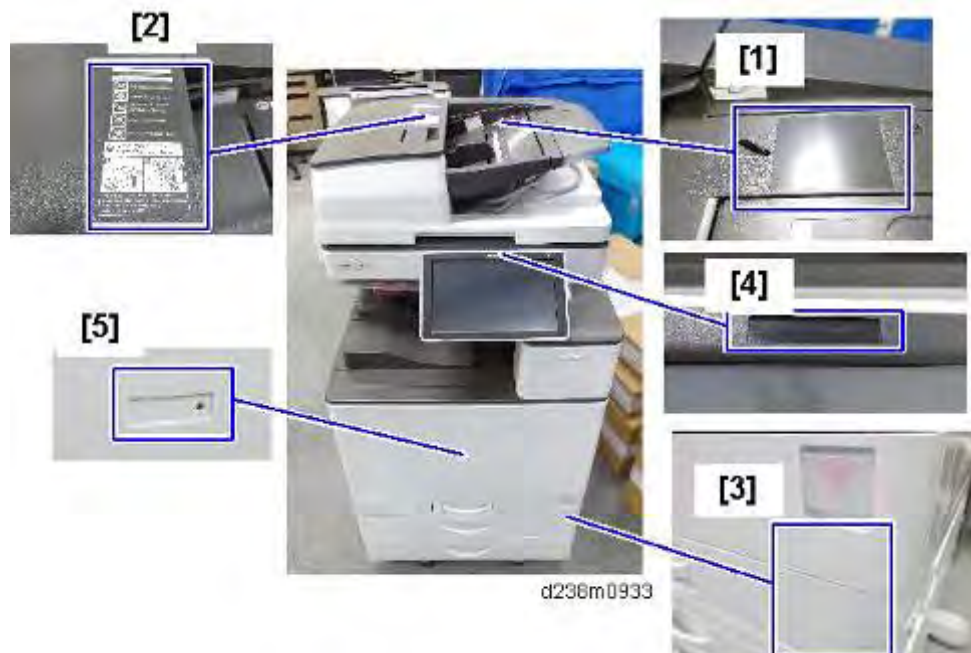
Attaching the Decals

Attach the following decals provided with the machine accessories.



- 1: Original Set Decal
- 2: ADF Caution Decal
- 3: Paper Size Tray Number Decal
- 4: Brand Logo for Smart Operation Panel
- 5: Brand Logo for Front cover

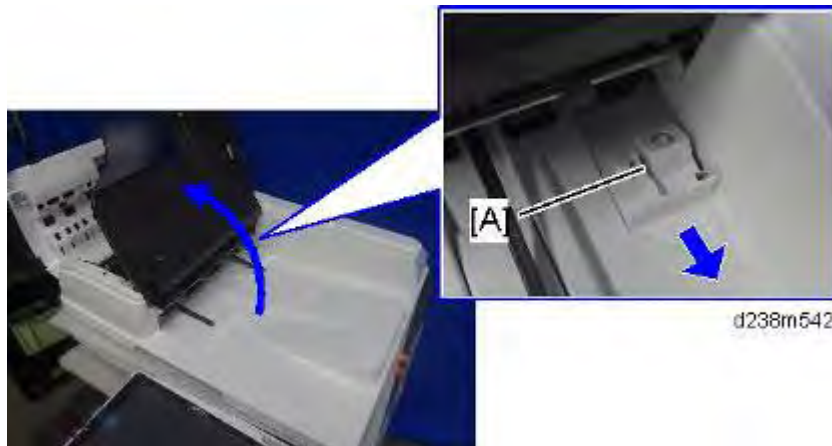
Location for each decal



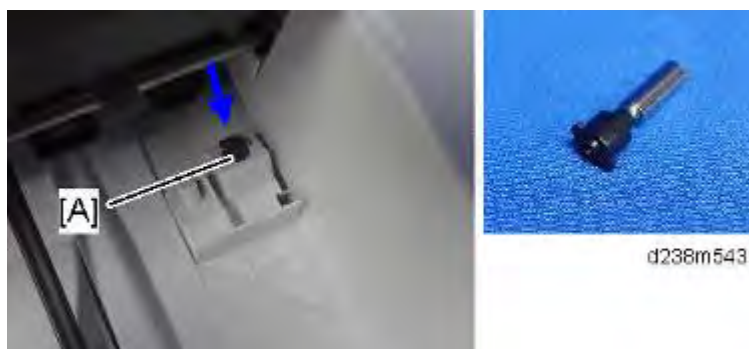
For Machines with Preinstalled ARDF: Fax Stamp Installation (Option)

This procedure is required for the machine which the fax function is installed as standard.

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

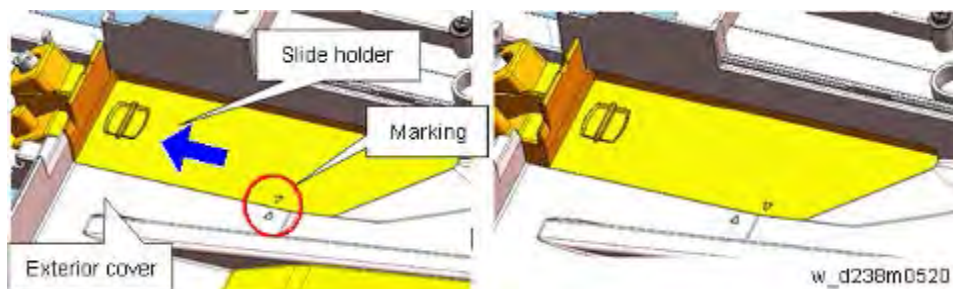


2. Install the fax stamp [A] provided with the machine.



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.



Toner Bottle Installation and Toner Initialization

1. Open the front cover.
2. Shake the toner bottle (Bk) 7 to 8 times.
3. Remove the toner bottle protection cap [A].



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4. Push the toner bottle into the machine slowly.



d1462400

5. Set the toner bottles (Y, M, and C) in the same way.
6. Close the front cover.
7. Connect the power cord to the machine.

⚠ CAUTION

- Use the power cord that is provided with the machine. Do not use any other power cord. Also, do not use an extension cord.

8. Turn ON the main power.
 - Toner Initialization starts. It takes about 5 minutes to fill the toner up. Be sure to wait long enough. If you do not, Auto Color Calibration (ACC) will take longer.
 - The Program/Change Administrator screen is displayed at the first power-up. Follow the procedure in page 2-6 "Important Notice on Security Issues."



9. After changing the administrator/supervisor password, turn the main power OFF/ON.

↓ Note

- Even though the control panel display has gone off, the machine may still be on. So when turning the power off and back on, be sure to check that the main power indicator has gone off before turning the power on again.

10. After the toner initialization is completed, the machine beeps, and the following message is displayed. Turn the machine OFF/ON.



Enabling the Copy Data Security Function

The Copy Data Security function is installed in the IPU as standard for this machine.

Enable this function in User Tools when installing the machine.

1. Press **[User Tools]** icon on the HOME screen.
2. Select **[Machine Features] > [System Settings] > [Administrator Tools] > [Copy Data Security Option] > "On."**

Copy Data Security Function

If the Unauthorized Copy Prevention function is enabled, embedded text patterns (for instance, a warning message such as "No Copying") are displayed when documents are copied illegally. Accordingly, unauthorized copying can be prevented.

If the Data Security for Copying function is used and settings for special patterns embedded in documents are enabled, copies of documents with embedded patterns are printed with gray overprint. Accordingly, information leakage can be prevented. To protect documents by gray overprint, the Data Security for Copying function must be enabled on the copier or multi-function printer.

2.2.5 IMAGE QUALITY TEST / SETTINGS

Before Test

- Perform the image quality test after installing all peripherals
- Confirm that there are no accessories (such as screws and clamps) left inside the main machine and peripherals

Loading Paper

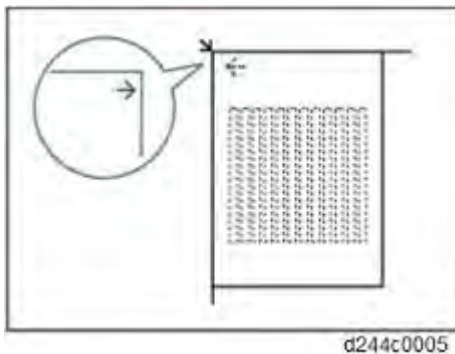
1. Turn ON the main power.
2. Check that the operation panel shows "No Paper" under the "Check Status" screen.
3. The paper size is basically detected automatically.
 1. Pull out the paper feed tray slowly until it stops.
 2. Load the paper.
 3. While pressing the release lever, adjust the side fence to the paper size to be set.
 4. Set the back fence.

ACC Execution and Color Registration Adjustment

1. Do the "Automatic Color Calibration (ACC)" for the copier mode & printer mode as follows:

- Copier mode -

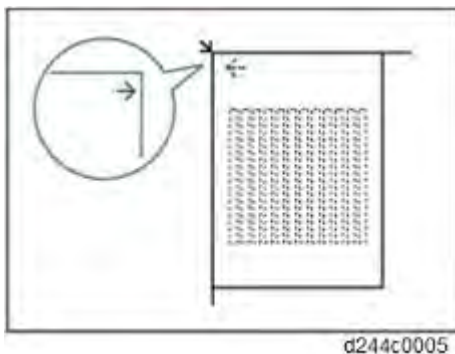
1. "User Tools" icon > "Machine Features" > "Maintenance" > "Auto Color Calibration" > "Copier Function" > "Start"
2. Press "Start Printing."
3. Put the printout on the exposure glass.



4. Put 10 sheets of white paper on the test chart. This ensures the precise ACC adjustment.
5. Close the SPDF/ARDF or the platen cover.
6. Press "Start Scanning" on the LCD. Then, the machine starts the ACC.

- Printer mode -

1. "Printer Function" > "Start"
2. Select "Test Pattern1 600x600 dpi" > "Start Printing."
3. Put the printout on the exposure glass.



4. Put 10 sheets of white paper on the test chart. This ensures the precise ACC adjustment.
5. Close the SPDF/ARDF or the platen cover.
6. Press "Start Scanning" on the LCD. Then, the machine starts the ACC.

2. Exit the User Tools mode.

3. Press and hold the [A] key and "Check Status [B]" at the same time until the number keyboard screen is displayed.



4. Enter the key code for SP mode.



5. Perform line adjustment.

1. Execute SP2-111-004 (Forced Line Position Adj. Mode d)
2. The result can be checked with SP2-194-007 (MUSIC Execution Result Execution Result)
0: Success, 1: Failure
Also, results for each color can be checked with SP2-194-010 to 013 (MUSIC Execution Result: Error Result C, M, Y, K).
1: Completed successfully

6. Exit the SP mode.

SP descriptions

- **SP2-111-004 (Forced Line Position Adj. Mode d)**
Executes the fine line position adjustment and rough line position adjustment.
- **SP2-194-007 (MUSIC Execution Result: Execution Result)**
Displays the result code of MUSIC adjustment.
0: Success
1: Failure
- **SP2-194-010 to 013 (MUSIC Execution Result: Error Result C,M, Y, K)**
Displays the result code of MUSIC adjustment for each color.
0: Not done
1: Completed successfully
2: Cannot detect patterns
3: Fewer lines on the pattern than the target
4: Out of the adjustment range
5 to 9: Not used

Checking the Copy Image with the Test Chart

Make a copy of a test chart and check the output quality.

Paper Settings

If necessary, adjust the registration for the paper feed tray.

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

SP descriptions

SP1-002 (Side-to-Side Registration)

Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

Increasing a value: The image is moved towards the rear edge of the paper.

Decreasing a value: The image is moved towards the front edge of the paper.

Auto Remote Firmware Update Settings

Specify ARFU settings as required.

Operating Conditions:

- Use the machine in an environment where it can be connected to the Internet.

Note

- Auto remote firmware update (ARFU) requires connection to an external network. Be sure to get permission from the customer before setting ARFU up.
- The connection is one-way, so the user's data will not be accessed from the global server.

Pre-Operation Set Up and Checks

1. **Check the network settings (IP address, Subnetmask, Gateway, and DNS).**
2. **Check the proxy settings.**
3. **In the environment to execute ARFU, check that the machine's main power is always turned on and it is always connected to the Internet.**

This condition is required for downloading the firmware package in the background and updating the firmware by ARFU when the machine is turned ON for the first time at machine installation.

4. **Check the time (day of the week and time) to prohibit the execution of ARFU.**

Important

- **If the 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.rioh.com

Configuration Procedure

1. **In User Tools > Machine Features > System Settings > Interface Settings, specify the IP address, Subnet, Gateway, and DNS settings according to the user's network environment.**

Important

- **Make sure to specify the DNS settings. To acquire the firmware data, it is necessary to have the host name resolved so that access to the global server is possible using the host name.**
2. **Check the user's network environment and, as required, specify the proxy server settings in the following SPs:**
 - SP5-819-062 (Use Proxy DFU(SSP))
1: Use / **0: Not use**
 - SP5-816-063 (Use Proxy DFU(SSP))
 - SP5-816-064 (Proxy Port Number)
 - SP5-816-065 (Proxy User Name)
 - SP5-816-066 (Proxy Password)

They can be specified also via Web Image Monitor, from Device Management>Configuration>Device Setting>Auto Firmware Update. (However, "Auto Firmware Update" appears on Web Image Monitor only if the ARFU function is set to "ON.")

3. Set SP5-886-111(AutoUpdateSetting) to "1(ON)"

↓ Note

- To download the firmware only using SFU, and not by ARFU, specify the settings as follows:
 - SP5-886-111(AutoUpdateSetting) to "0 (OFF)"
 - Set SP5-886-115 (SfuAutoDownloadSetting) to "1 (ON)"

4. When setting the prohibited day, time and so on of the auto firmware update, set them with following SPs, or Web Image Monitor.

- SP5-886-112 (AutoUpdateProhibitTermSetting)
0: OFF, 1: ON (Default)
- SP5-886-113 (AutoUpdateProhibitStartHour)
Default: 9
- SP5-886-114 (AutoUpdateProhibitEndHour)
Default: 17
- SP5-886-120 (AutoUpdateProhibitDayOfWeekSetting)
Default: 0x00
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.: 0x47 (01000111)

5. Use the machine with its main power on and connected to the Internet.

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

1. Start the Web Image Monitor.
2. Log in as the machine administrator.

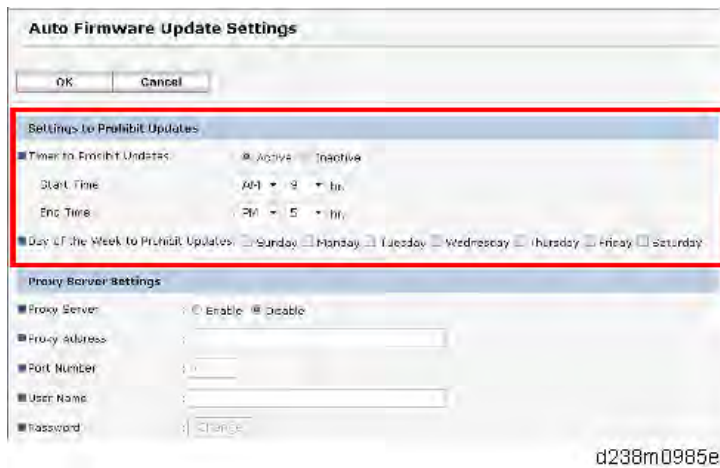
3. Point to [Device Management], and then click [Configuration].



4. Click "Auto Firmware Update."



5. In the applicable items, 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



Checking the ARFU Connection

1. Enter the SP mode.
2. Press [Firmware update].
3. Press [Update].
4. Press [Execute update].



- "Execute update" appears even if @Remote connection has not been established.
- If an error code appears when you click "Execute update", the machine is in the following status.

Error code	Status
E51	The machine in operation for printing, etc.
E71	Network connection error

5. 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.
- If the message does not appear, it is not possible to execute ARFU.
->Check the network settings again.

Note

- SP5-886-116 (Auto Update Prohibit Term Setting) displays the scheduled date and time of the next ARFU.
- If the scheduled date and time of the next ARFU coincides with a time and day of the week when ARFU is prohibited, the machine sends an inquiry to the server to check if there is a new firmware package at this time. If there is a new firmware package, it is downloaded in the background, but the package updating is cancelled and executed on the next occasion, 76 hours later, to update the package.

Checking the ARFU Result

Checking the Result from the Firmware Update Setting

1. Enter the SP mode.
2. Press [Firmware update].
3. Press [Update].
4. Press [Update Package Information].
5. If the firmware package is the same as the one on the global server, the update was completed successfully. Otherwise, check the result using the logging data.

In SP7-520-041 to -045 (Update Log: Auto:Version), you can check the versions of the packages updated by ARFU. (-041 displays the latest result. It is also printed on the SMC sheet.)

Checking the Result Using the Logging Data

1. Enter the SP mode.
2. Press [System/Copy].
3. Check the results for ARFU by SP7-520-051 to 060 (Update Log: Auto:Result)
"-051" is the latest update result. For details about the number of each result log, see page 5-37 "Firmware Update (Auto Remote Firmware Update)."

Security Function Settings

Perform the encryption and overwrite settings to protect the user information in the HDD as necessary.

Follow the instructions in page 2-356 "Security Settings."

Settings Relevant to the Service Contract

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

SP No.	Function	Default
SP5-045-001 Counter method	Specifies if the counting method used in meter charge mode is based on developments, prints, or coverage.	"1": Prints
SP5-104-001 (SSP) A3/DLT double count	Specifies whether the counter is doubled for A3/DLT paper.	"0":Single counting
SP5-812-001 and -002 Service Tel: Telephone / Facsimile	-001: shows or sets the telephone number of the service representative. -002: shows or sets the fax number of the service station. The number is printed on the counter list when the "Meter Click Charge" is enabled. User can send a fax message with the counter list.	

Counter Display Method

There are 3 types (Developments, Prints and Coverage). Display mode can be set by SP5-045-001 (Accounting counter: Counter Method).

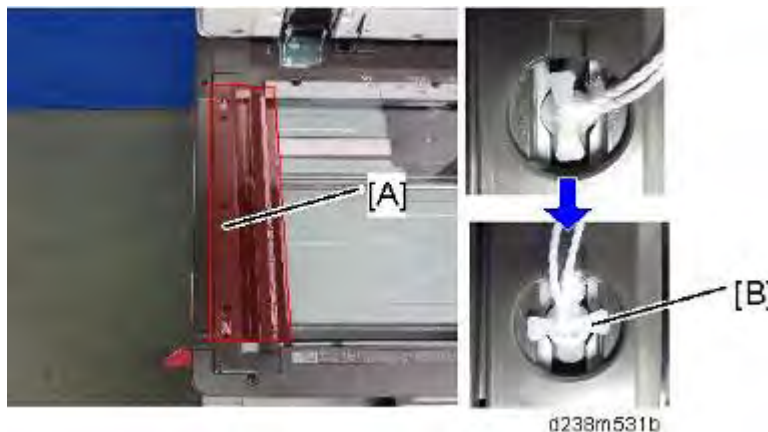
Value	Mode	Descriptions
0	Development Count	YMC Development Counter Bk Development Counter
1	Print Count (Default)	Color Copy Counter B&W Copy Counter Color Print Counter B&W Print Counter Color Total Counter B&W Total Counter
2	Coverage Count	Color Total Counter B&W Total Counter Color Coverage Counter 1 Color Coverage Counter 2 Color Coverage Counter 3
7	Coverage Count (YMC)	Color Total Counter B&W Total Counter Color Coverage Counter 1 (YMC) Color Coverage Counter 2 (YMC) Color Coverage Counter 3 (YMC)

Installation is now completed.

2.2.6 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.

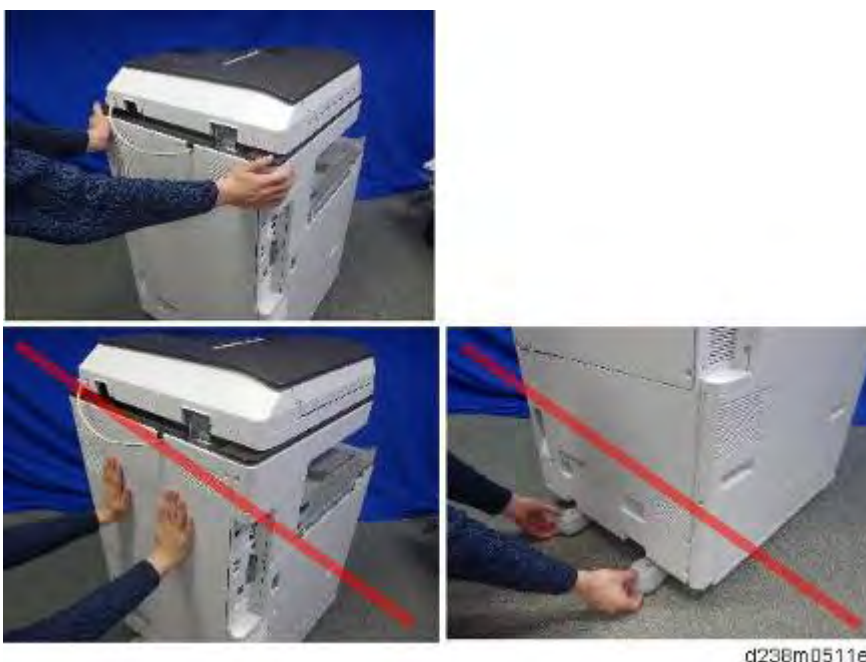
- Turn off the main power.
- Disconnect the power plug from the outlet.
- Close all covers and paper trays, including the front cover and bypass tray.
- Move the scanner carriage to the correct position [A] with SP4-806-001, and reattach the scanner shipping locks with lock position [B].



- Keep the machine level and carry it carefully, taking care not to jolt or tip it, and protect the machine from strong shocks.
- When moving the machine, do not press against the ADF.
- Remove the optional feed tray when lifting the main machine for moving it to another floor.

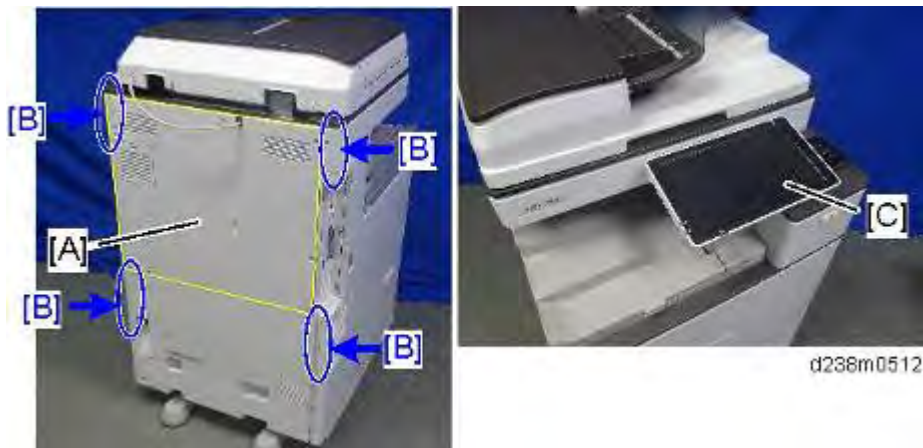
★ Important

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

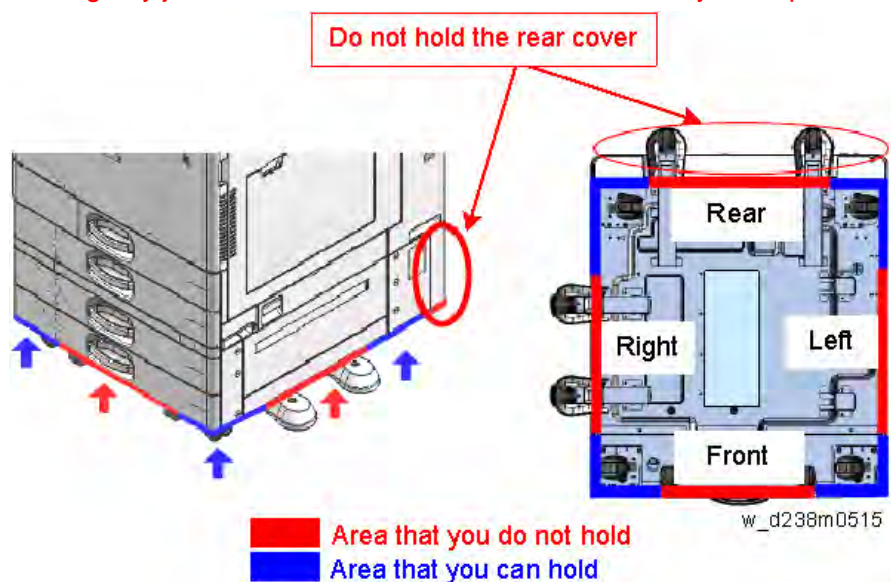


Main Machine Installation

- 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 part [B] when moving the machine.

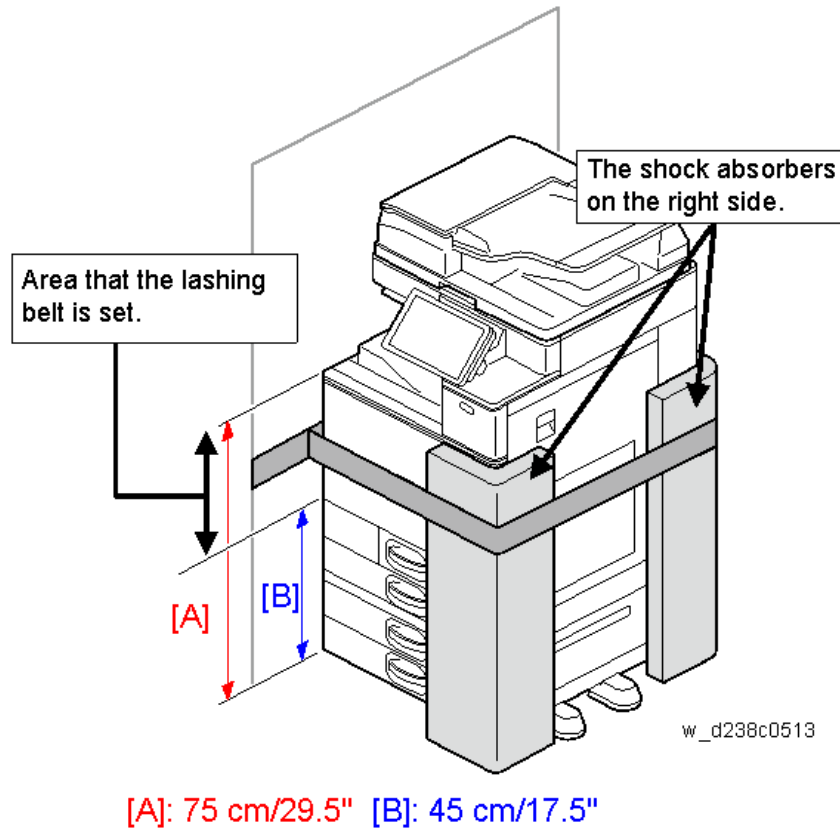


- Hold 4 corners on the bottom base when holding the machine with the optional paper feeding tray joined to the main machine. Do not hold any other parts.



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 - 75cm height from the ground).



2.3 ANTI-CONDENSATION HEATER (SCANNER, PCDU)

CAUTION

- 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.

2.3.1 ANTI-CONDENSATION HEATER (SCANNER)

Note

- This option is provided as a service part.
- If you want to install Anti-Condensation Heater (Scanner), (1) heater for scanner and (2) electrical components should be ordered.

Accessory Check

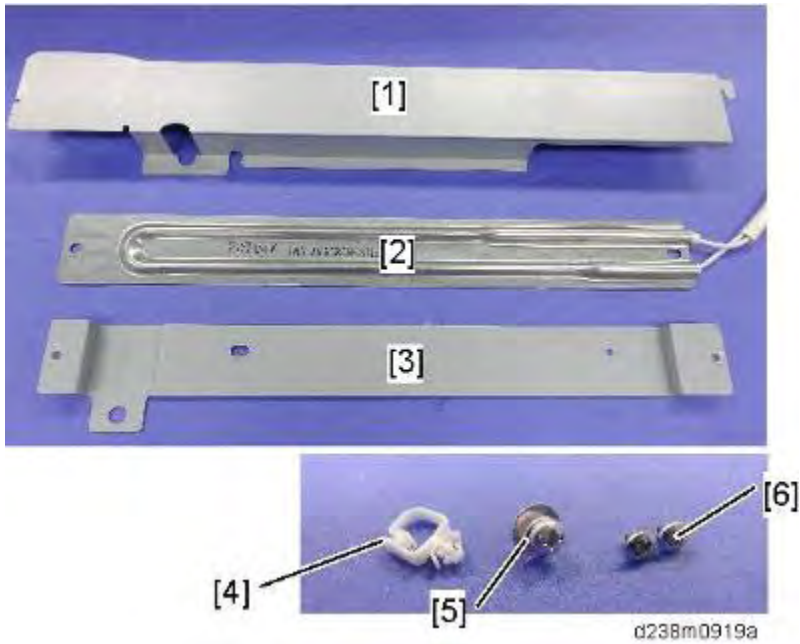
(1) Heater (lamp) for Scanner

No.	Description	Q'ty
1	COVER: HEATER: SCANNER	2
2	HEATER:120V:9W HEATER:230V:9W	1
3	BRACKET HEATER: SCANNER	1
5	SCREW:POLISHED ROUND/SPRING:M4x8	1
6	SCREW M3x3	2

(2) Electrical components

No.	Description	Q'ty
-	TAPPING SCREW M3X6	3
4	CLAMP	6
-	HARNESS: SCANNER/PCU	1
-	PCB: DHB	1
-	HARNESS :DC: DHB	1
-	HARNESS :AC: DHB	1

Installation

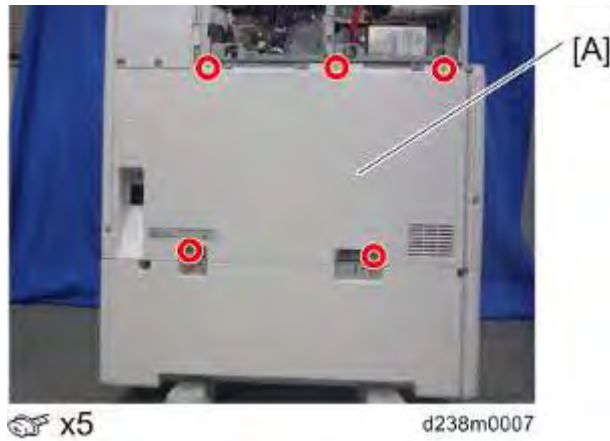


Installation procedure

1. Remove the rear cover [A].



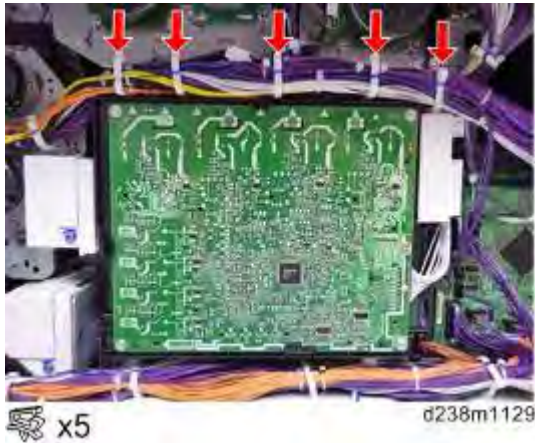
2. Remove the rear lower cover [A].



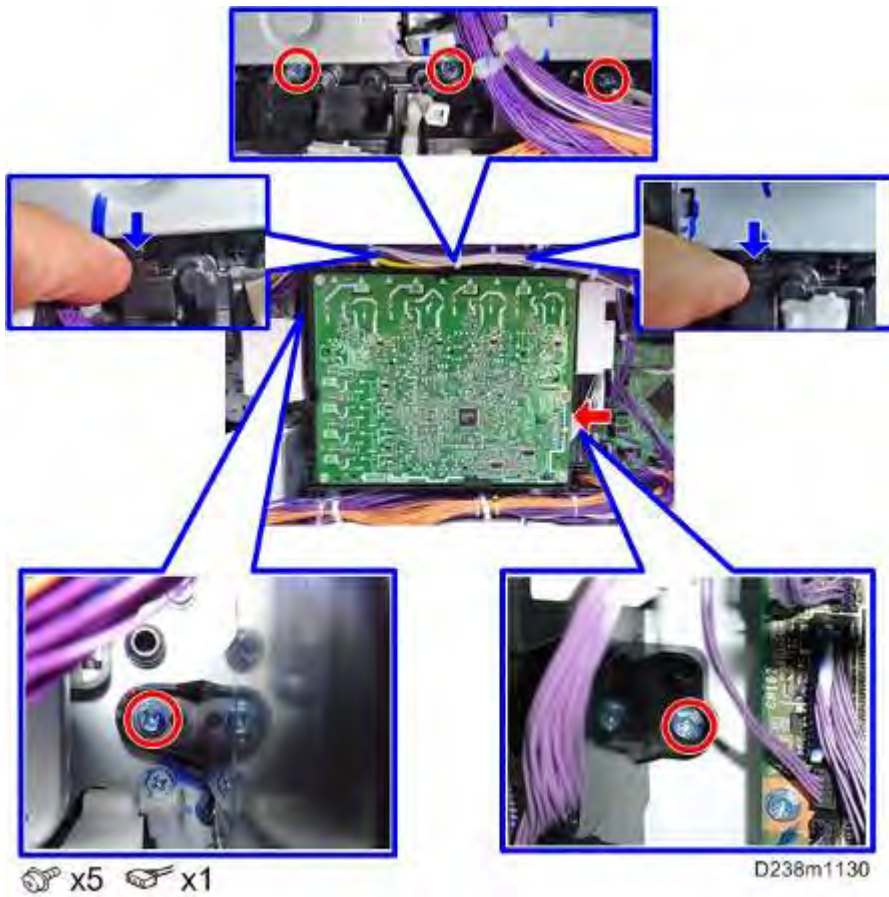
3. Remove the power supply box [A] (⚙️ x6, Among them, tapping screw x1)



- 4. Release the 5 clamps.

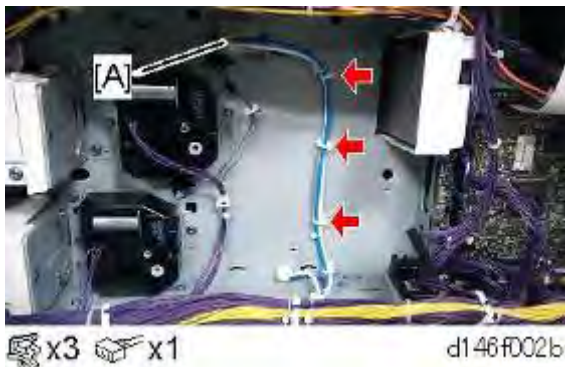


- 5. Remove the HVP-CB with bracket [A] (Hook x2).





6. Connect the combined Blue/White harness to the back frame [A].



Note

- The harness will be connected to the relay board. See the details in step 8.

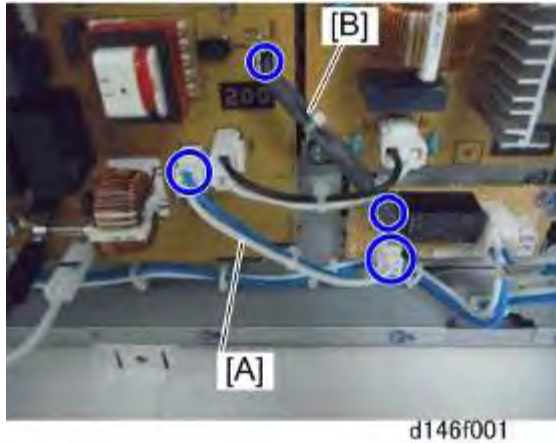
7. Reinstall the HVP-CB unit and power supply box.
8. Secure the relay board to the main machine and connect the Blue/White harness to the socket on the board (🔩 x 1, 🛠 x 3).



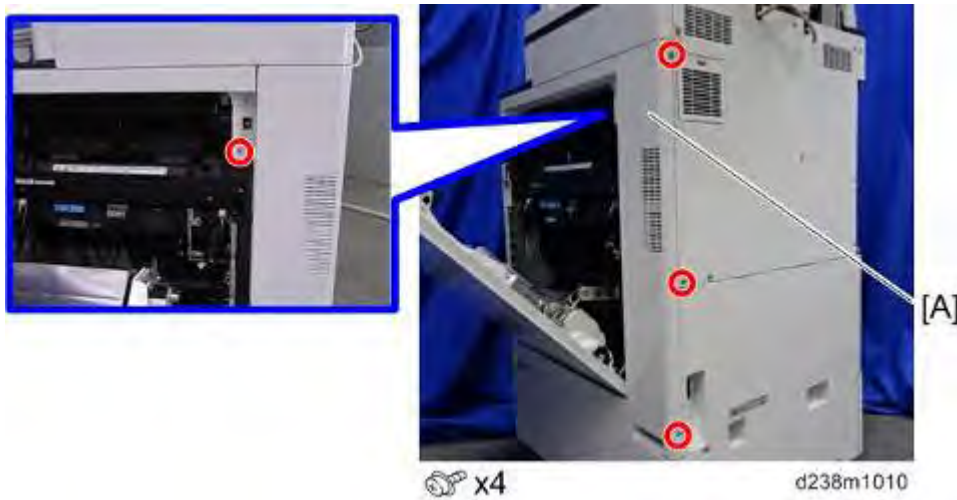
9. Connect the harnesses on the relay board to the sockets on the PSU.

Note

- Two types of harnesses are packed with the heater. Both the Blue/White one [A] and the Gray one [B] must be connected as shown below.



10. Remove the right rear cover [A] (🔩 x4, among them, tapping screw x1)



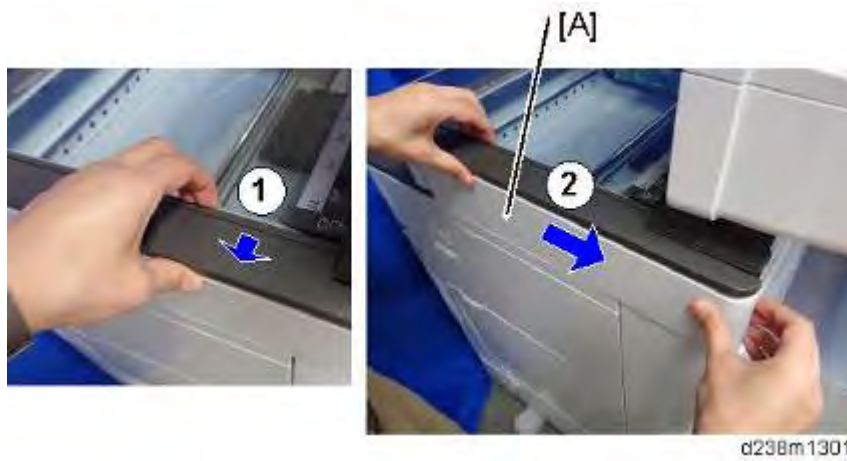
11. Remove a screw.



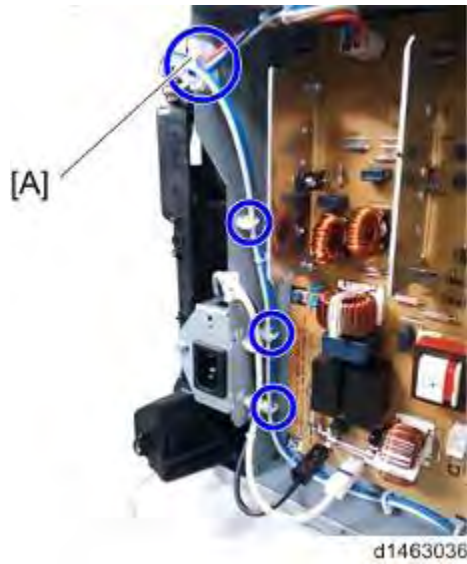
12. Remove the scanner right cover [A].

Remove the hook at the upper part, and then slide the cover in the rear direction.

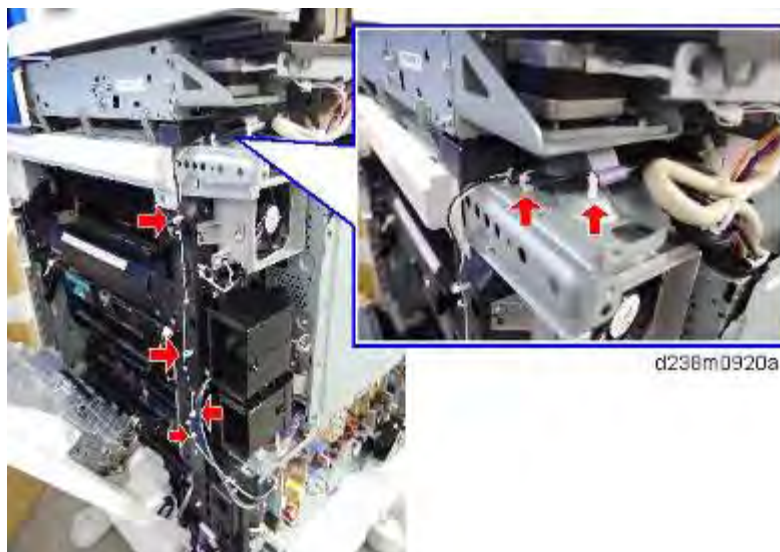
Anti-Condensation Heater (Scanner, PCDU)



13. Route the harness around the outside of the PSU and pull the harness out of the electrical box through the hole [A] (🔩 x 4).



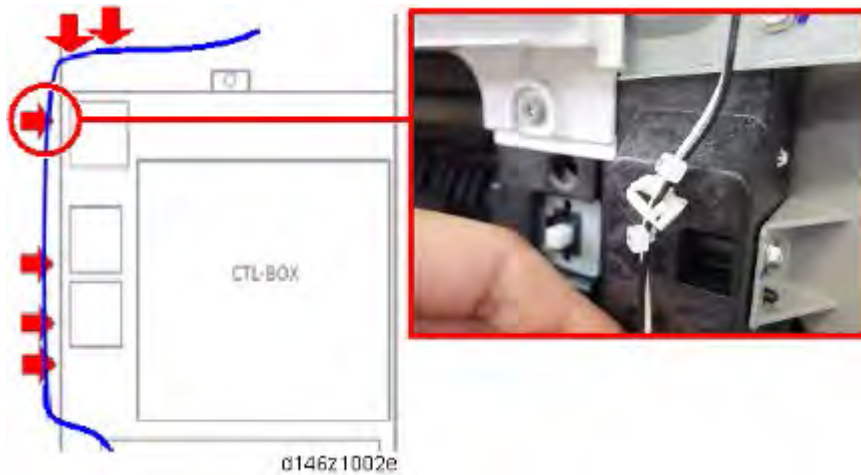
14. Route the harness in the direction of the scanner (🔩 x 6).



★ Important

- Fasten the clamp between the bindings of the harness at the location indicated by

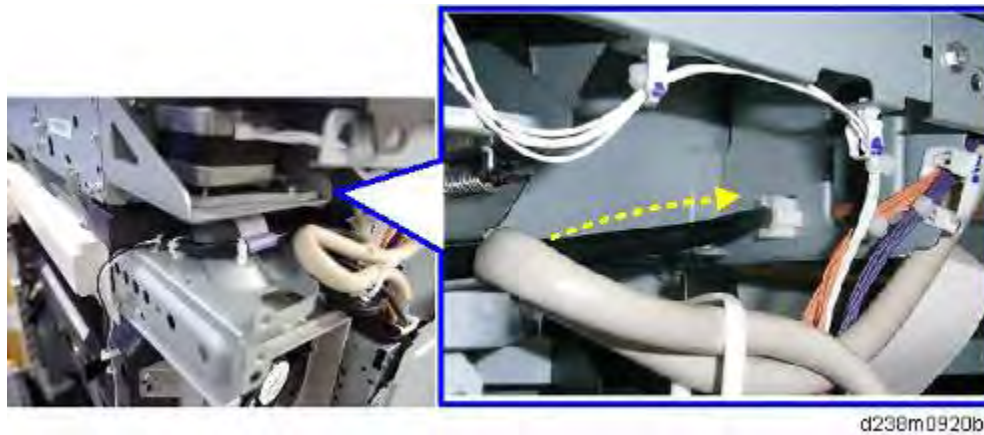
the red circle.



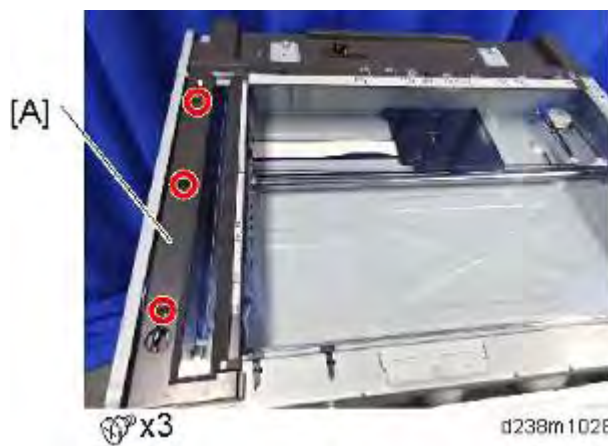
Installation

15. Attach the connector to the frame.

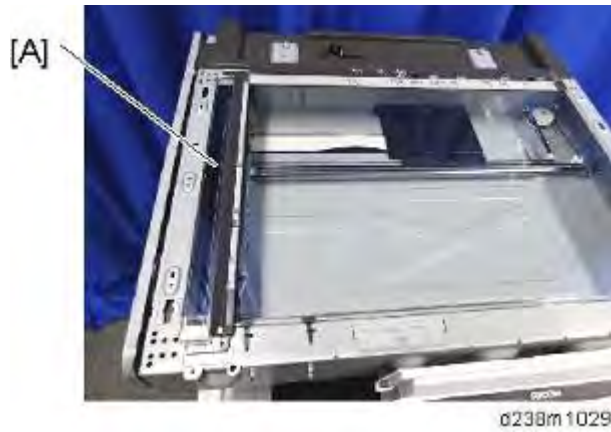
Connect it to the heater harness in step 25.



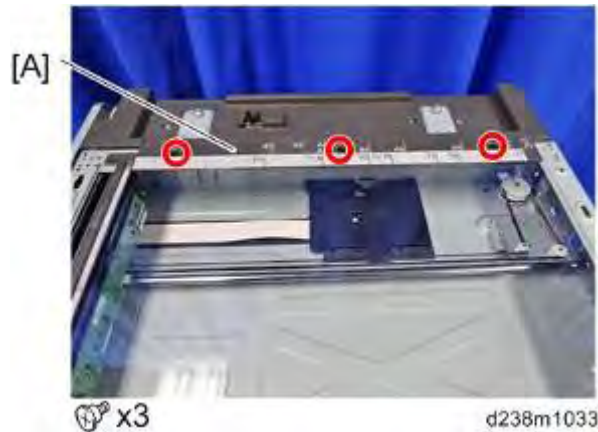
16. Remove the scale [A]



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



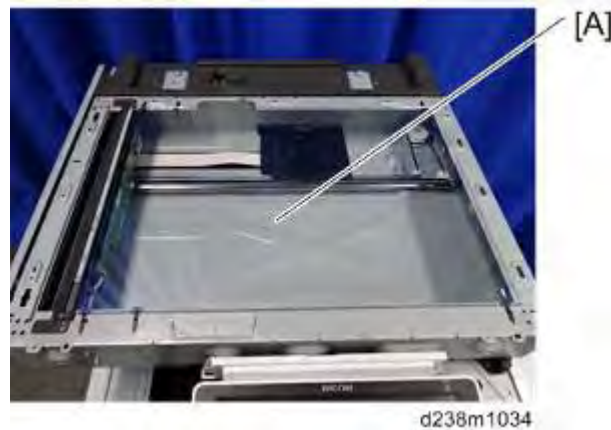
18. Remove the rear scale [A]



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

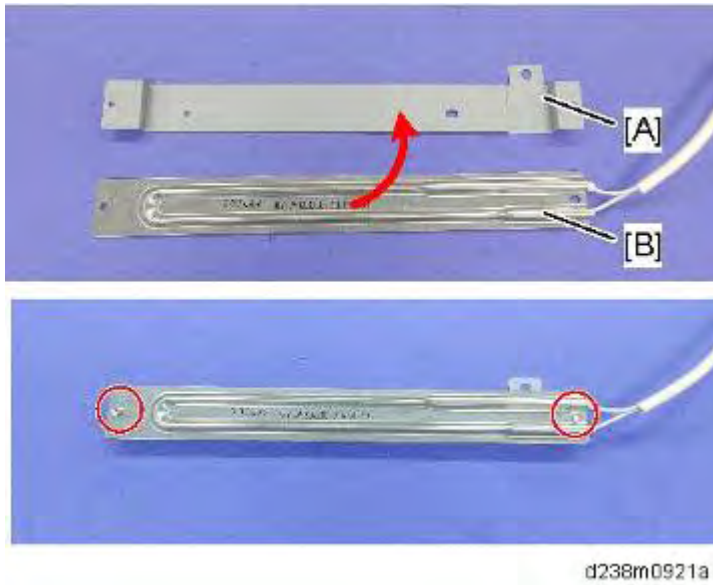
⚠ CAUTION

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

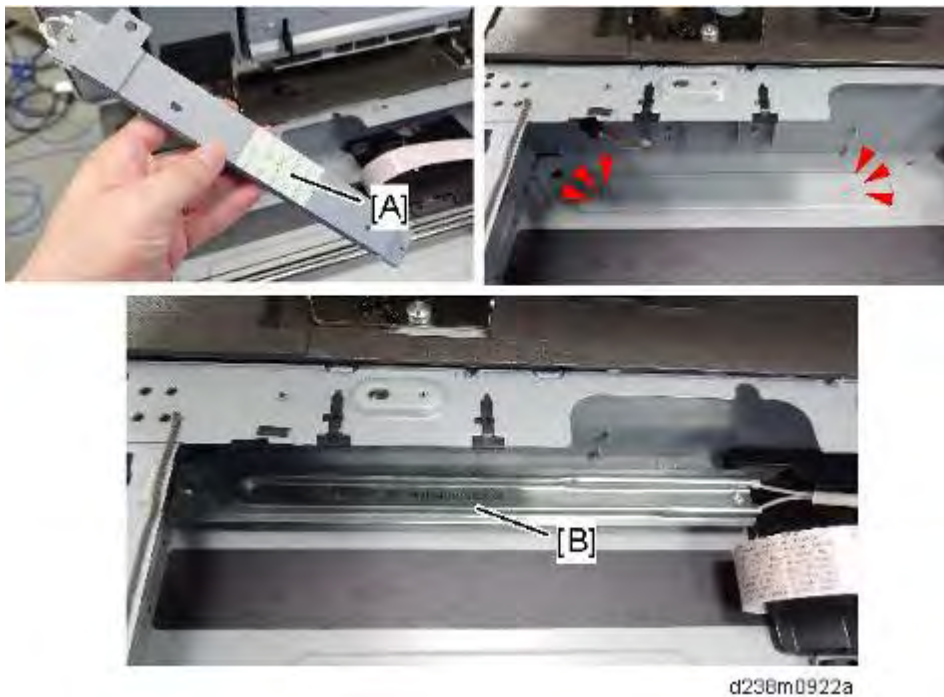


20. Move the scanner carriage to the right.

21. Attach the heater [B] to the bracket [A] provided with the accessories (🔩 × 2).



22. Remove the release paper [A] on the back side of the bracket, and secure the heater [B] with the seal, aligning it with the boss on the frame.



23. Pull the harness [A] out of the frame hole.
Route the harness into the harness guide.



24. Attach the heater cover [A] (🔩 x 1).



25. Connect the heater harness that was pulled out of the frame hole to the connector which was mounted in step 15.



26. Reattach all the removed covers.

2.3.2 ANTI-CONDENSATION HEATER (PCDU)

ⓘ Note

- This option is provided as a service part.
- If you want to install Anti-Condensation Heater (PCDU), electrical parts (1) and heater for PCDU (2) should be ordered.

Accessory Check

(1) Electrical parts

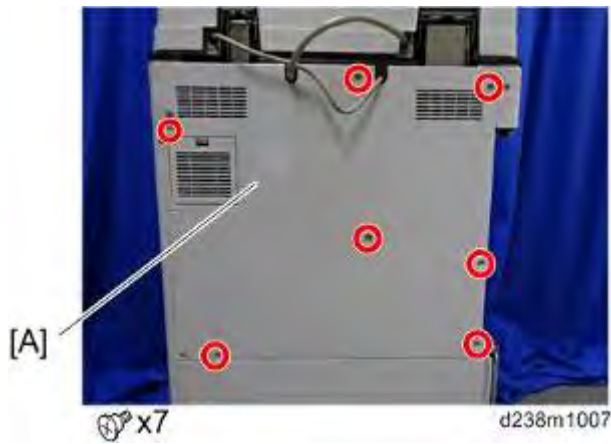
Description	Q'ty
TAPPING SCREW M3X6	3
CLAMP	6
HARNESS: SCANNER/PCU	1
PCB: DHB	1
HARNESS :DC: DHB	1
HARNESS :AC: DHB	1

(2) Heater for PCDU

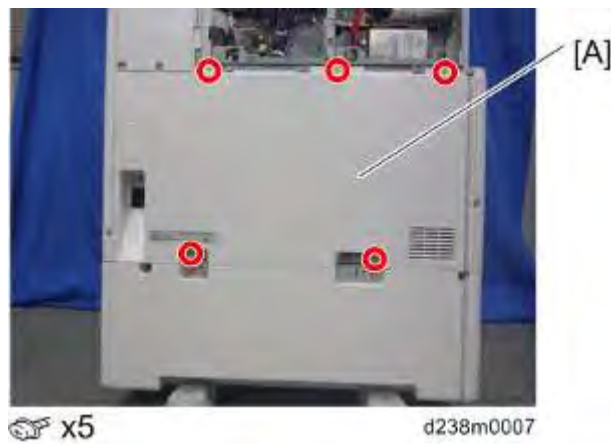
Description	Q'ty
TAPPING SCREW: WASHER M3X8	1
HEATER: PHOTOCONDUCTOR: EU HEATER: PHOTOCONDUCTOR: NA	1
DECAL HIGHT TEMP	1

Installation procedure

1. Remove the rear cover.



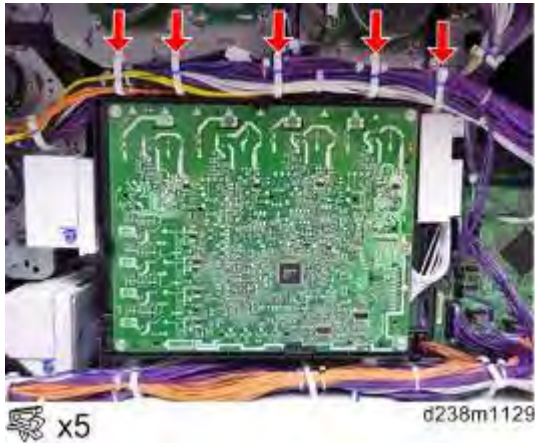
2. Remove the rear lower cover.



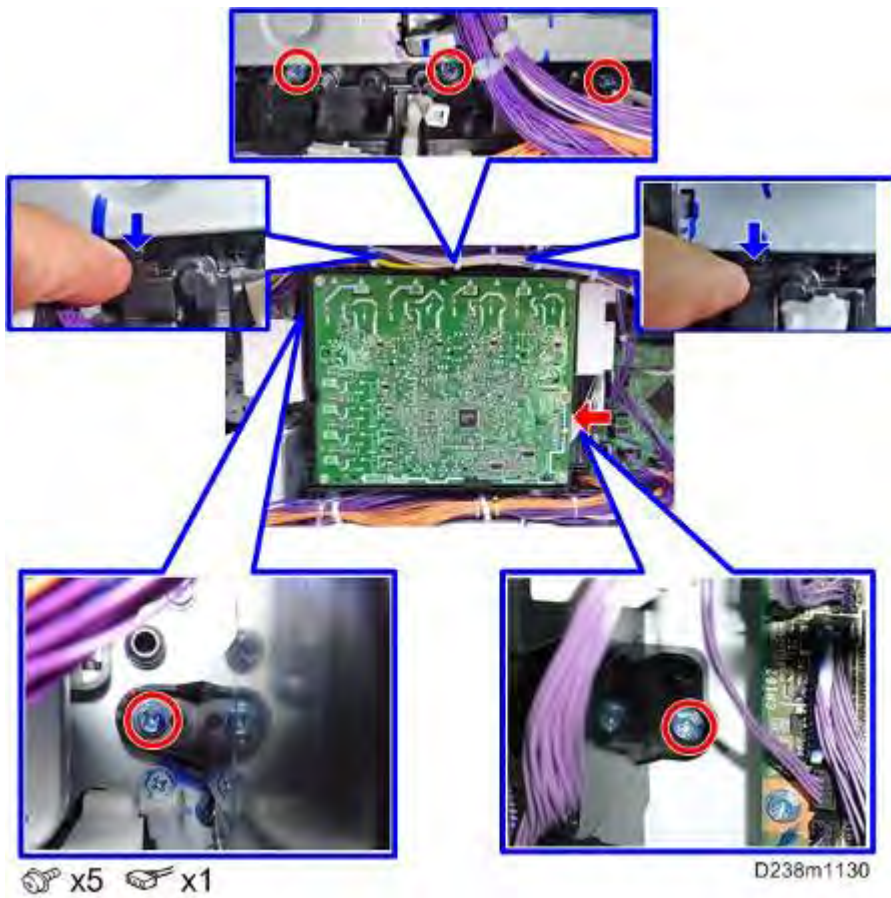
3. Remove the power supply box [A] (🔩 x6, Among them, tapping screw x1).



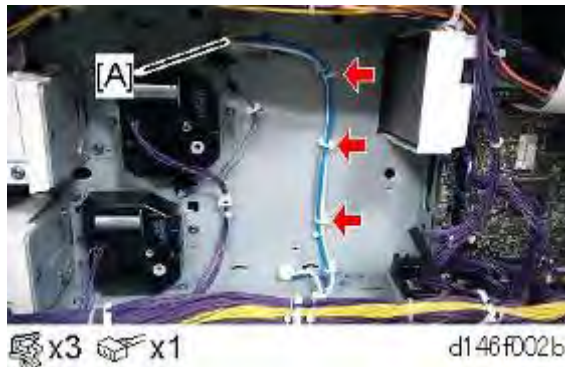
4. Release the 5 clamps.



5. Remove the HVP-CB with bracket [A] (Hook x2).



6. Connect the combined Blue/White harness to the back frame [A].



↓ Note

- The harness will be connected to the relay board. See the details in step 8.

7. Reinstall the HVP-CB unit and power supply box.

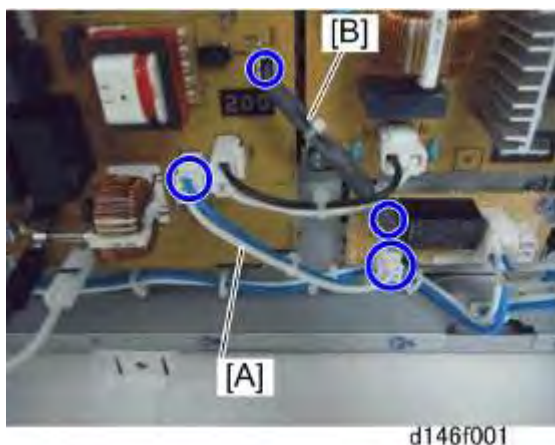
8. Secure the relay board to the main machine and connect the Blue/White harness to the socket on the board (⚙️ x 1, ⚙️ x 3).



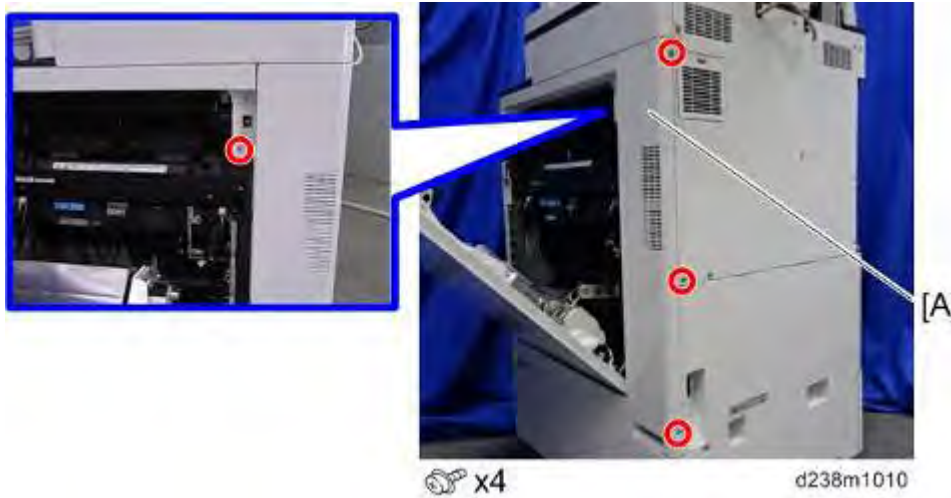
9. Connect the harnesses on the relay board to the sockets on the PSU.

↓ Note

- Two types of harnesses are packed with the heater. Both the Blue/White one [A] and the Gray one [B] must be connected as shown below.



10. Remove the right rear cover [A] (🔩 x4, among them, tapping screw x1).

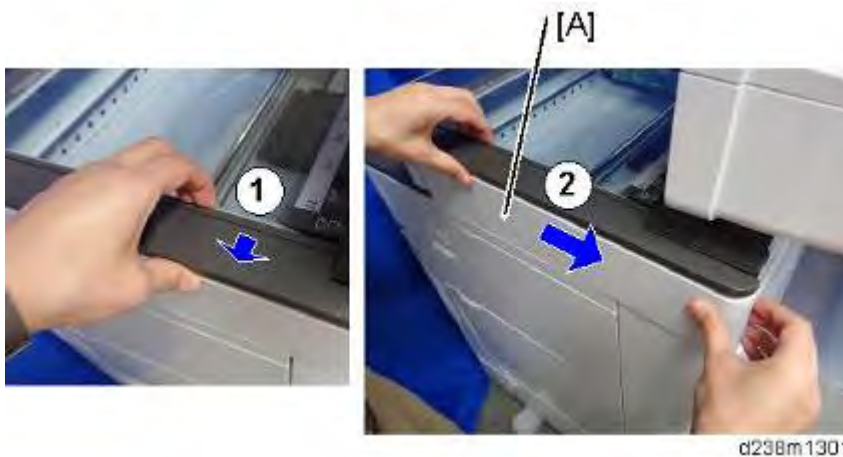


11. Remove a screw.



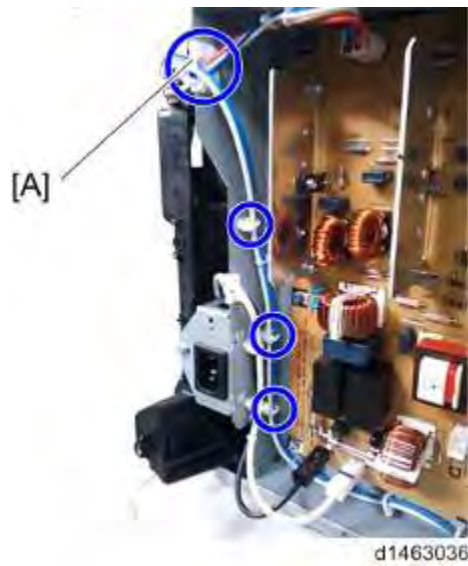
12. Remove the scanner right cover [A].

Remove the hook at the upper part, and then slide the cover in the rear direction.

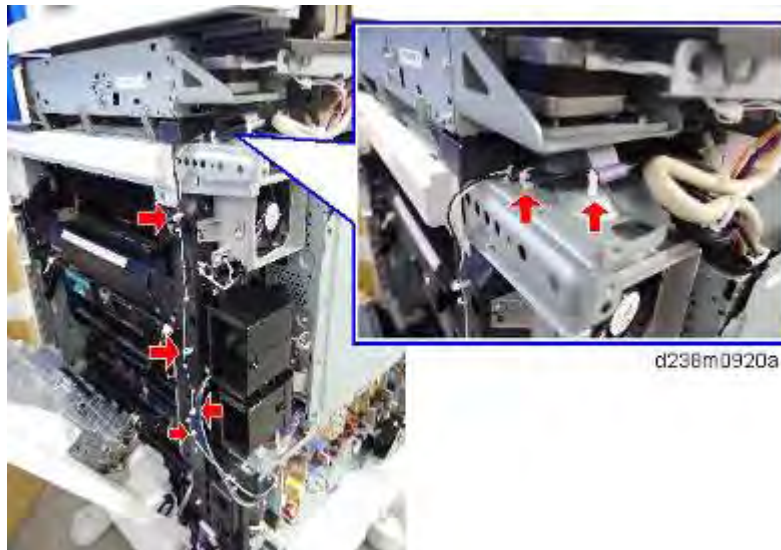


13. Route the harness around the outside of the PSU and pull the harness out of the electrical box through the hole [A] (🔩 x 4).

Anti-Condensation Heater (Scanner, PCDU)

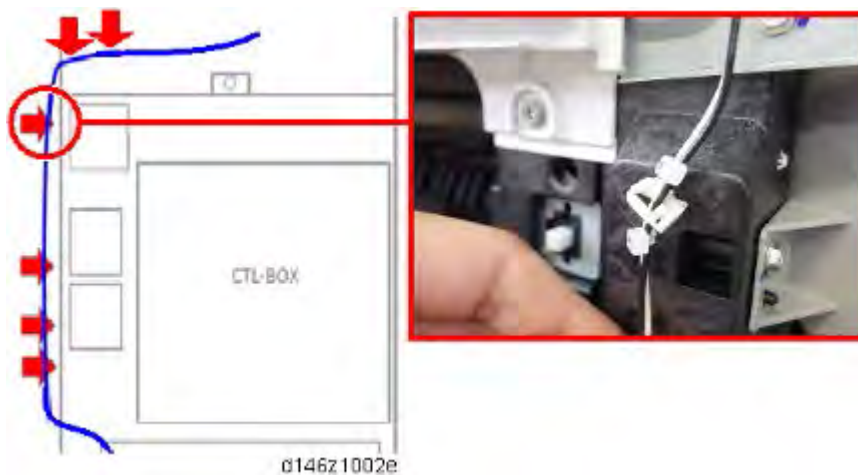


14. Route the harness in the direction of the scanner (🌀 x 6).

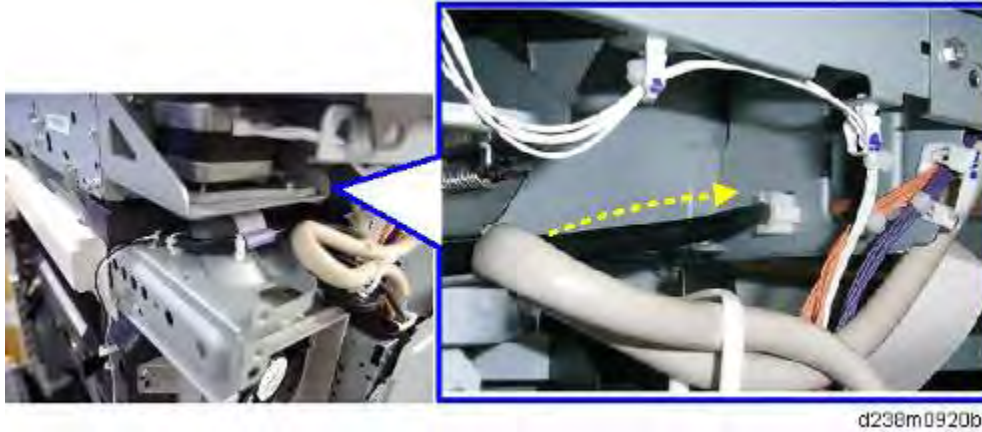


★ Important

- Fasten the clamp between the bindings of the harness at the location indicated by the red circle.



15. Attach the connector to the frame.



Installation

- 16. Remove Feed Trays 1 and 2.
- 17. The connector cover located inside the machine [A] (🔩 × 1).



- 18. Temporarily tighten a screw at the top (🔩 M3x8: x1).



19. Install the heater [A] by connecting the connector to the inside of the machine, then tighten the screw completely.

Note

- Hold the heater against the inside during final tightening.



20. Reinstall the connector cover (🔩 × 1).

21. Attach the warning decal [A].



22. Reassemble the machine.

23. Connect the power cord, and then check that the heater is being powered and heated.

2.4 ANTI-CONDENSATION HEATER FOR PAPER FEED TRAYS

CAUTION

- 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.

2.4.1 ACCESSORY CHECK

Anti-Condensation Heater (Service Option) for Main Unit

No.	Description	Q'ty	Remarks
1	Tray heater	1	
2	Tapping screw: M3 X 8	1	
3	PCB: DHB	1	
4	Harness for tray	1	
5	Harness for DC	1	
6	Harness for AC	1	
7	Tapping screw: M3 X 6	3	

Anti-Condensation Heater (Service Option) for Optional PFU and LCIT

No.	Description	Q'ty	Remarks
1	Tray heater	1	
2	Harness	1	
3	Spring screw:M4 X 10	1	

⚠ CAUTION

- Make sure to install the tray heater with the rated voltage that matches your country/region. **DO NOT install** the 100V tray heater on the 200V rated machine, under any circumstances.
- Make sure to remove the red tag and orange tape before you connect the tray heater to the main machine paper tray, paper feed unit, or LCT.

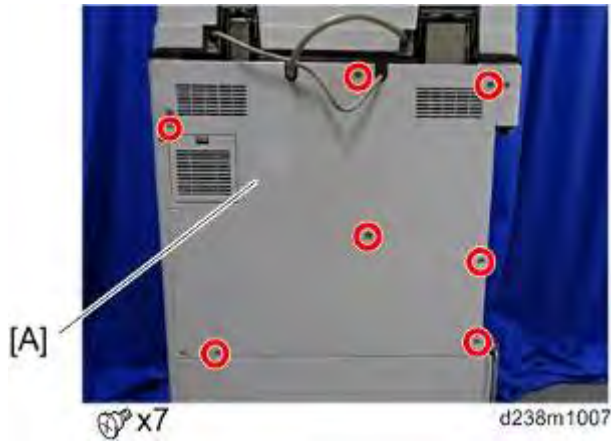
Before connecting to Main Machine Tray, Paper feed Unit or LCT

- Remove the red tag and the orange tapes.

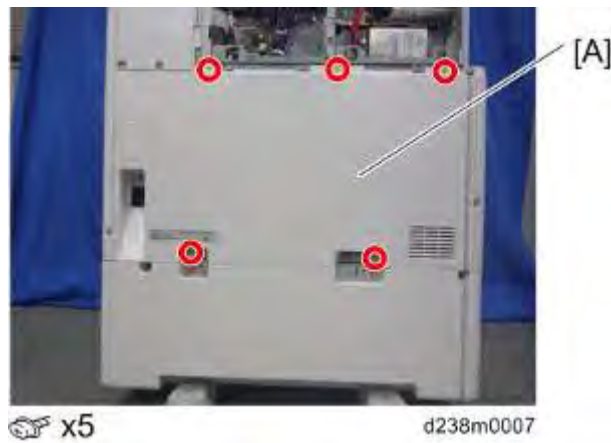


2.4.2 CONNECTING TO MAIN MACHINE TRAY

1. Remove the rear cover [A].



2. Remove the rear lower cover [A].



3. Attach PCB: DHB (🔩 X 3).



4. Connect the two harnesses between "PCB: DHB" and "PSU."



d1469002

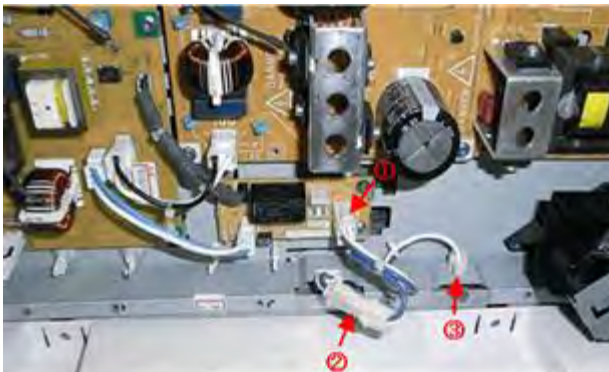
Note

- Red dashed circled cable is only white for NA, red for EU/AA.



d238m1376

5. Connect connector 1.
6. Connect connector 2 to the harness already attached.
7. Attach connector 3 for the optional paper bank.



d1469003

Note

- This cable is only white for NA/EU/AA.



8. Remove trays 1 and 2 from the machine.



9. Connect the connector of the heater to the main machine.



10. Install the heater inside the machine (🔩 x 1).

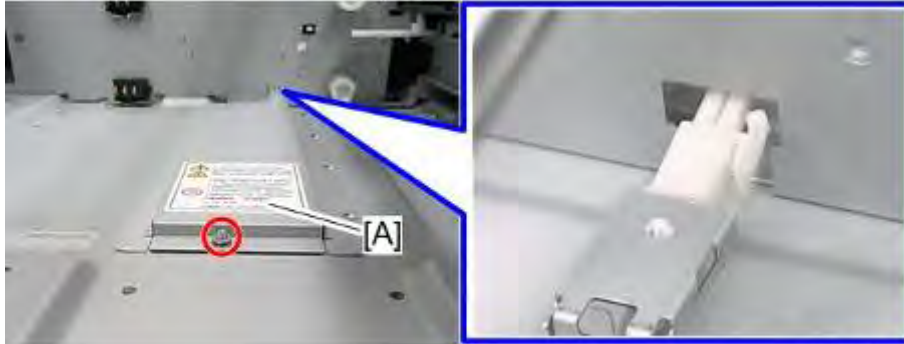
Anti-Condensation Heater for Paper Feed Trays



11. Reattach trays 1 and 2.

2.4.3 CONNECTING TO PAPER FEED UNIT PB3160

1. Perform Steps 1 to 7 of "Connecting to Main Machine Tray" (page 2-62).
2. Pull out the 1st and 2nd 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 (🔩 x1).



d197z1082

4. Remove the securing brackets [A] of the optional paper feed unit.



🔩 x2

d238m0836

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

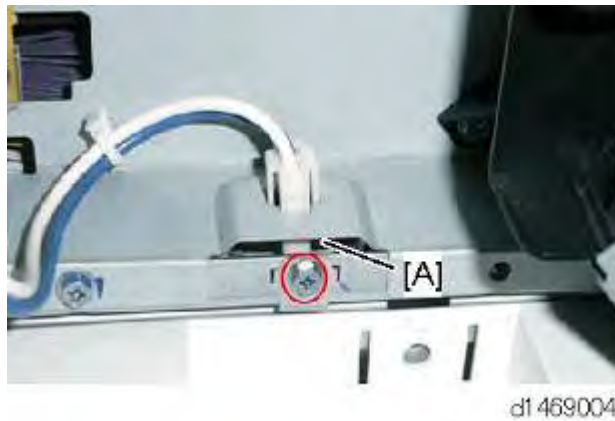


🔩 x2

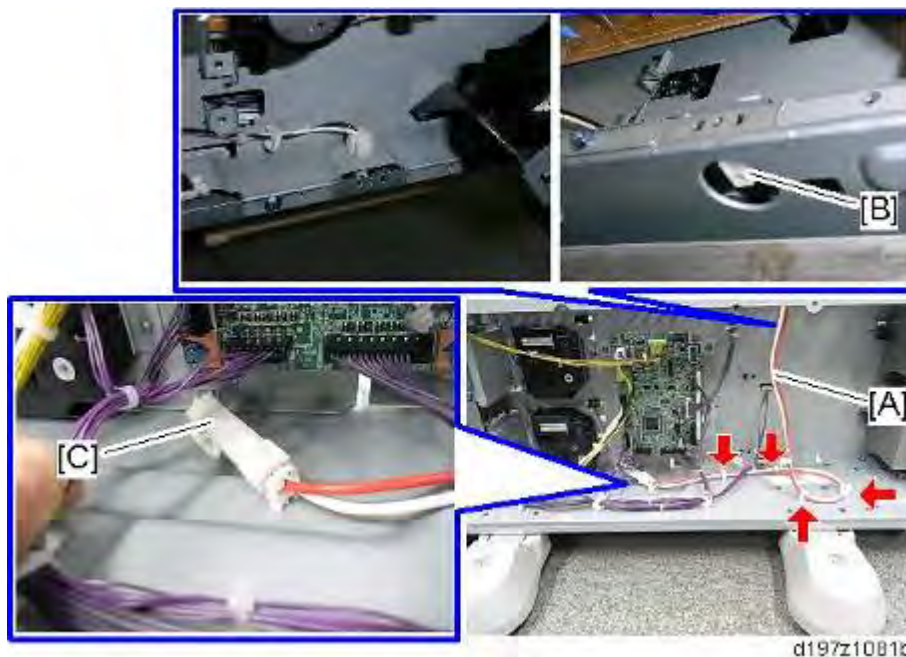
d238m0837

6. Remove the bracket [A] on the bottom of the main unit (🔩 x1).

The removed bracket can be discarded.



7. 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] (x4).



8. Reinstall the removed parts and covers.
 9. 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.

Important

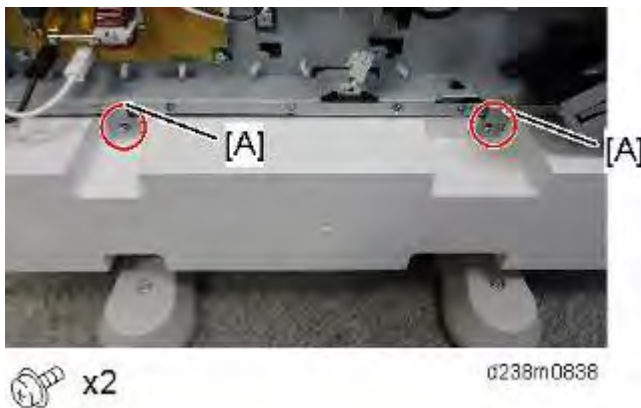
- The PCU and scanner heaters must be disabled because the temperature in the machine could become too high, causing problems with toner clogging, or damage to the scanner lamp stabilizer

2.4.4 CONNECTING TO PAPER FEED UNIT PB3150

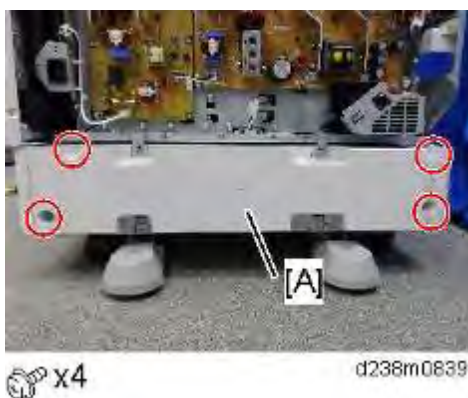
1. Perform Steps 1 to 7 of "Connecting to Main Machine Tray" (page 2-62).
2. Pull out the paper feed tray of PB3150.
3. Put the harness of the heater [A] for the optional paper feed unit through the hole at the inner rear frame, and then attach it (🔩 x1).



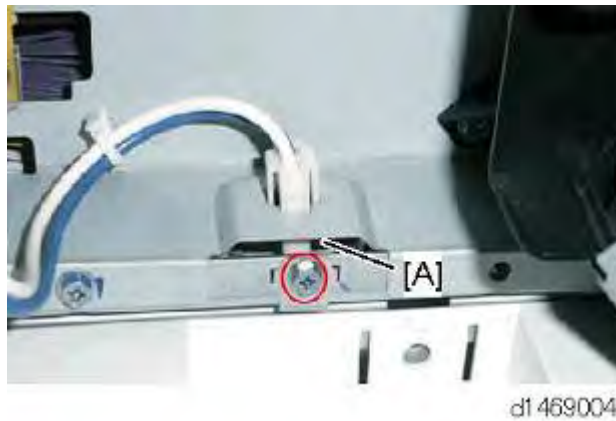
4. Remove the securing brackets [A] of Paper Feed Unit PB3150.



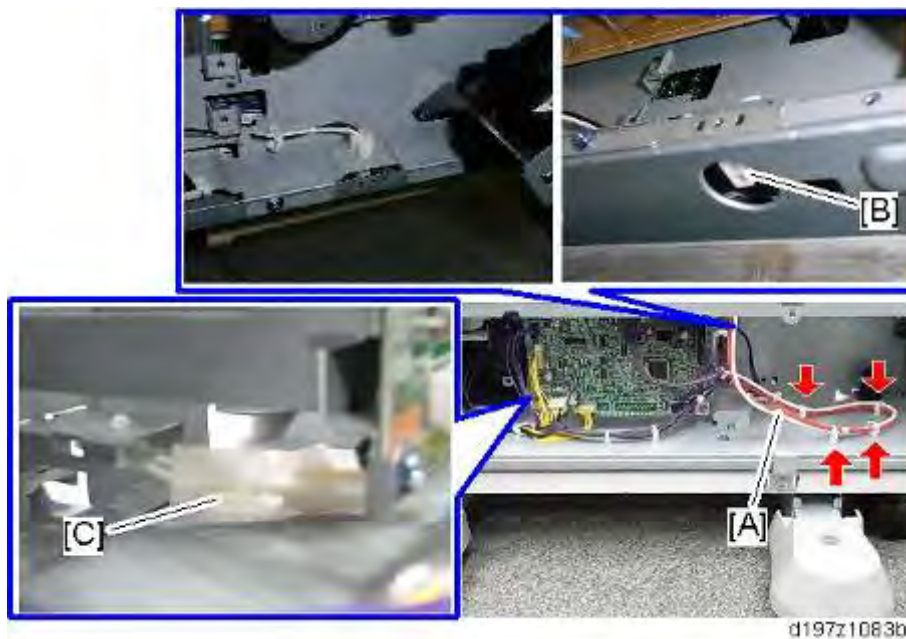
5. Remove the rear cover [A] of Paper Feed Unit PB3150.



6. Remove the bracket [A] on the bottom of the main unit (🔩 x1).
The removed bracket can be discarded.



7. 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] (x4).



8. Reinstall the removed parts and covers.
 9. 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.

Important

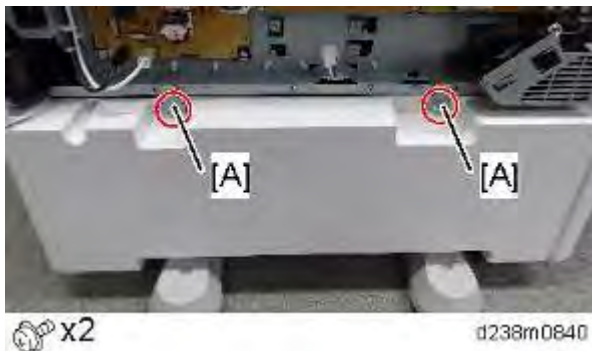
- The PCU and scanner heaters must be disabled because the temperature in the machine could become too high, causing problems with toner clogging, or damage to the scanner lamp stabilizer

2.4.5 CONNECTING TO LCIT PB3170/ PB3230

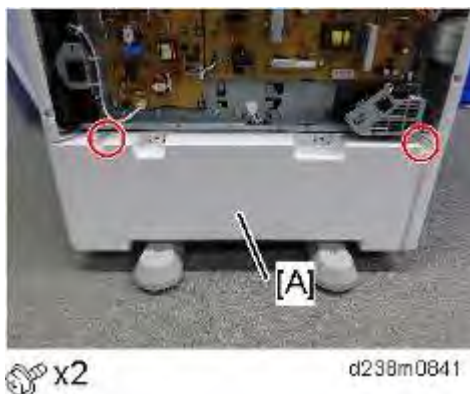
1. Perform Steps 1 to 7 of "Connecting to Main Machine Tray" (page 2-62).
2. Pull out the paper feed tray of the optional LCT unit.
3. Pass the harness of the heater [A] for the optional tray out through the hole in the inner rear frame of the optional LCT unit, and then attach it (🔩 x1).



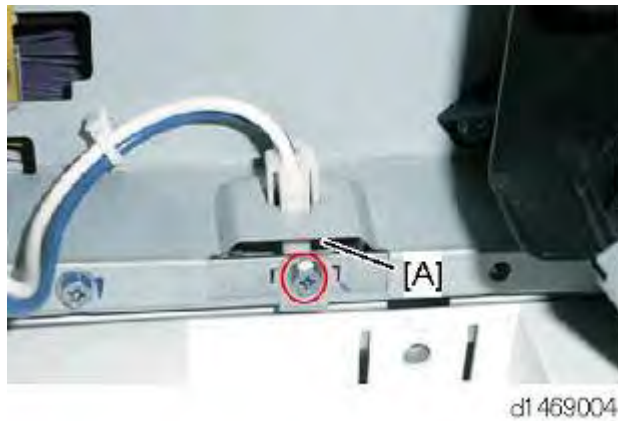
4. Remove the securing brackets [A] of the optional LCT unit.



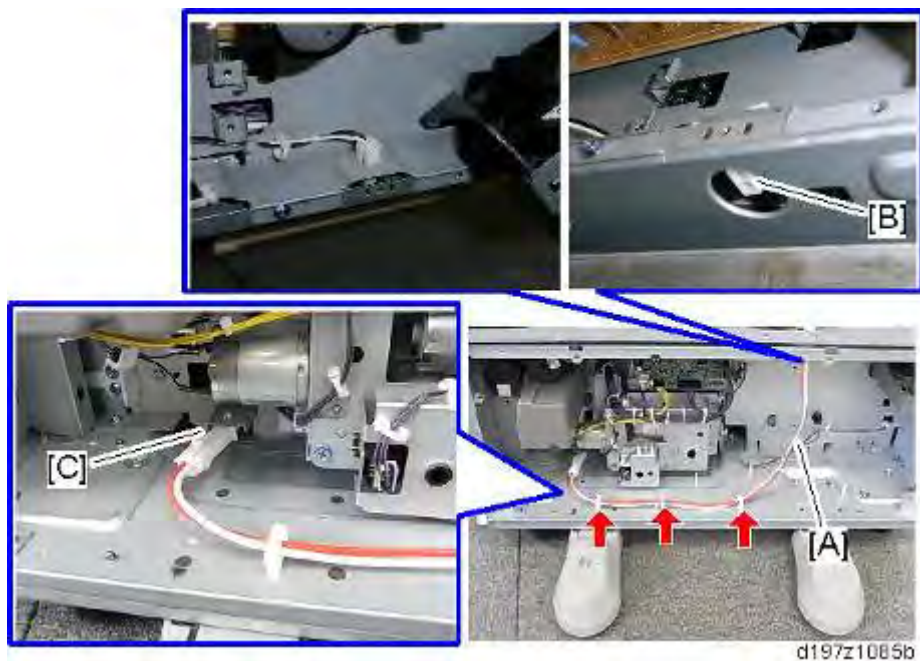
5. Remove the rear cover [A] of the optional LCT unit.



6. Remove the bracket [A] on the bottom of the main unit (🔩 x1).
The removed bracket can be discarded.



7. Connect the PFU harness [A] of the optional LCT unit to the relay harness [B] of the main unit and the heater harness [C] (x3).



8. Reinstall the removed parts and covers.
 9. 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.

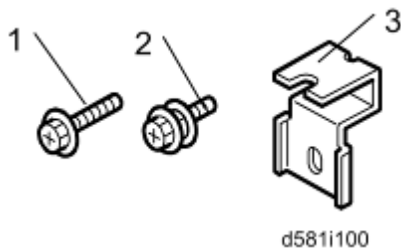
★ Important

- 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

2.5 PAPER FEED UNIT PB3160 (D693)

2.5.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Screws (M4 x 10)	2	
2	Screw with Spring Washer (M4 x 10)	1	
3	Securing Bracket	2	

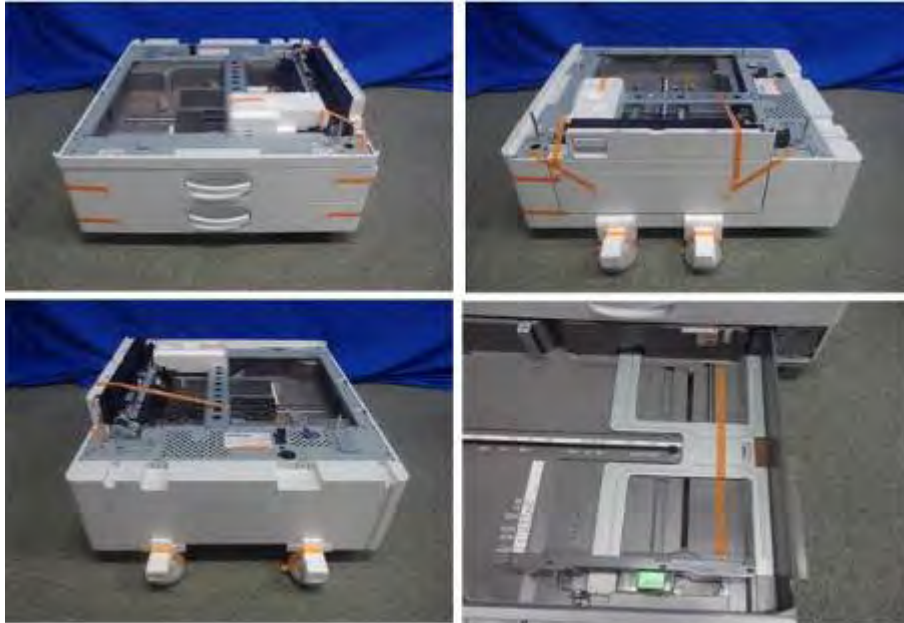


2.5.2 INSTALLATION PROCEDURE

⚠ CAUTION

- The main machine weighs approximately 100 kg. Make sure to lift it with the help of at least one more person.
- 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 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.
- 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.

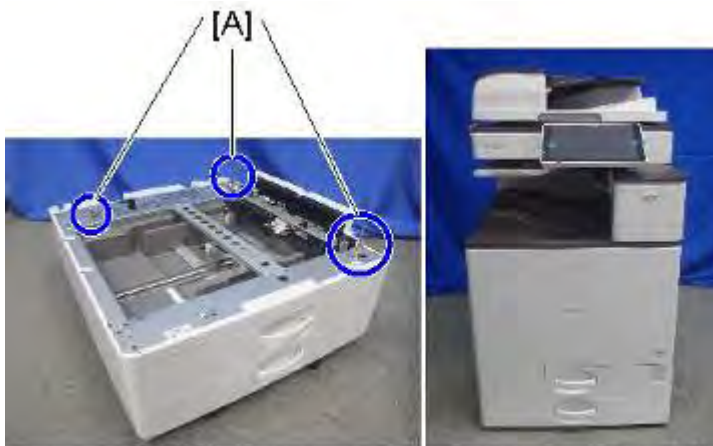
1. Remove the orange tape and retainers.



d238m0546

2. Remove the accessories (fixing screws, etc.) (provided with the machine) from the package.

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



d238m0563

Note

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



d238m0935

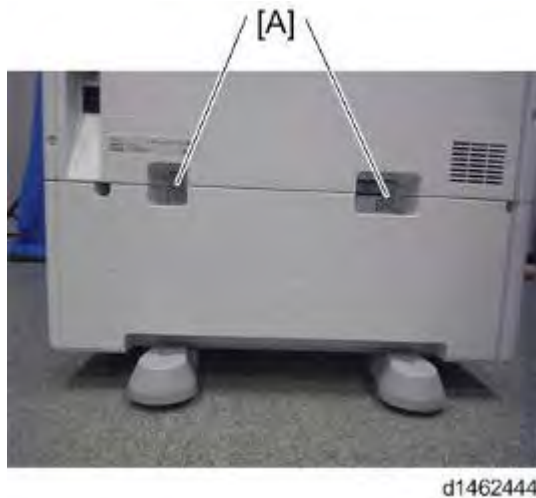
- In particular, do not lift the machine by holding the scanner unit, etc, because this may cause the machine to deform.

- 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.

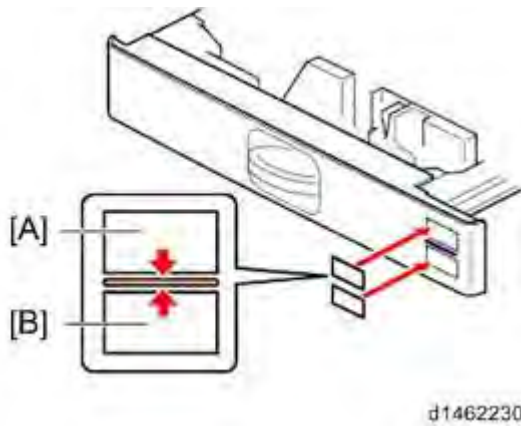
3. Pull out the 2nd paper feed tray.
4. Using a securing bracket as a screwdriver, fix the machine to the feed unit (spring washer: screw: M4×10: 1).



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



6. Reattach the paper feed tray to the machine
7. Attach the decals as shown below.



[A]: Tray number decal

[B]: Paper size decal

Note

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

8. Lock the casters of the paper feed unit.



d1462439

9. Connect the power cord to the machine.

Note

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



d1462468

10. Turn ON the main power.

11. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.

12. Adjust the registration for the paper feed unit.

- SP1-002-004 (Side-to-Side Registration Paper Tray 3)
- SP1-002-005 (Side-to-Side Registration Paper Tray 4)

SP descriptions

- **SP1-002 (Side-to-Side Registration)**

Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

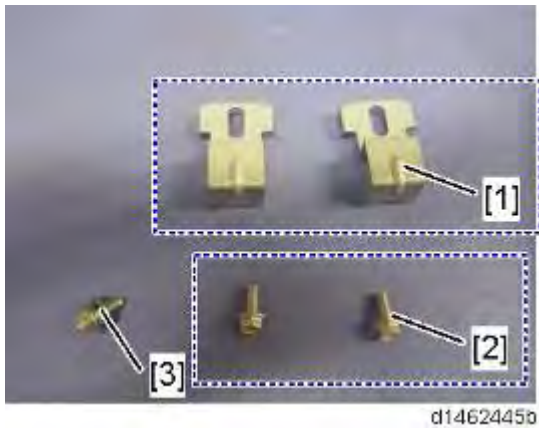
Increasing a value: The image is moved towards the rear edge of the paper.

Decreasing a value: The image is moved towards the front edge of the paper.

2.6 PAPER FEED UNIT PB3150 (D694)

2.6.1 ACCESSORY CHECK

No.	Descriptions	Q'ty	Remarks
1	Securing Bracket	2	
2	Screws - M4 x 10	2	
3	Screw with Spring Washer - M4 x 10	1	



2.6.2 INSTALLATION PROCEDURE

⚠ CAUTION

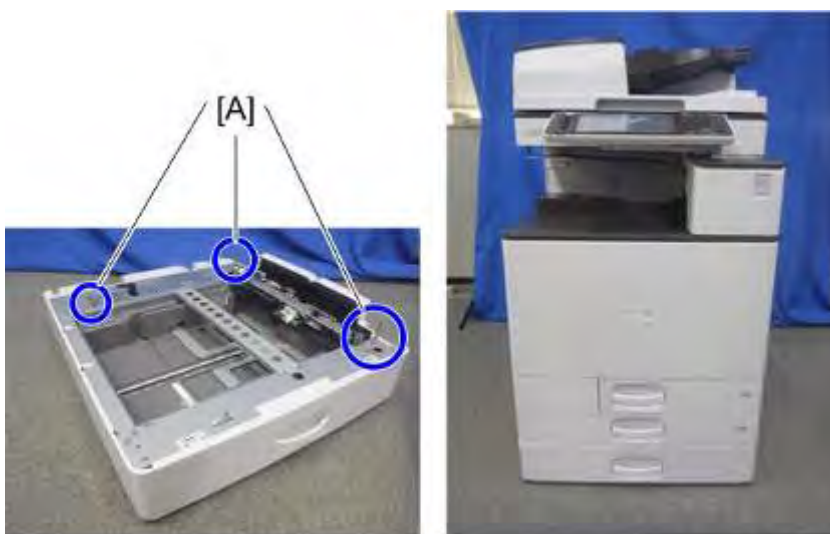
- The main machine weighs approximately 100 kg. Make sure to lift it with the help of at least one more person.
- The machine should be held at the correct locations and lifted gently by two people. If it is lifted without care, handled carelessly or dropped, it may result in injury.
- When installing this option, turn 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.
- 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.



d238m0547

2. Remove the accessories (fixing screws, etc.) (provided with the machine) from the package.
3. Holding the grips on the machine, align the machine with the locating pins [A], and place the machine on the paper feed unit.



d1462447

Note

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



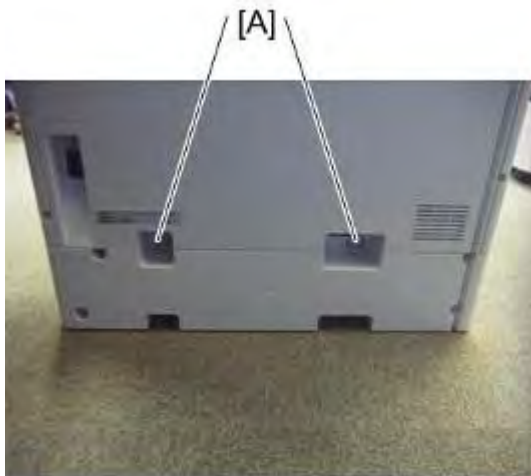
- In particular, do not lift the machine by holding the scanner unit, etc., because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

4. Pull out the 2nd paper feed tray.

5. Using a securing bracket as a screwdriver, fix the machine to the feed unit (spring washer: screw: M4×10: 1).

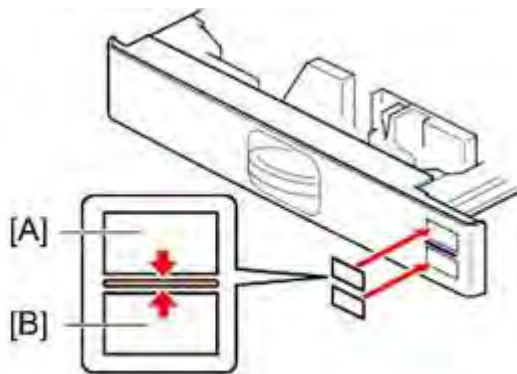


6. Attach the securing brackets [A] to two positions on the left and right at the rear of the machine (screws: 1 each).



d1462449

7. Reattach the paper feed tray to the machine.
8. Attach the decals as shown below.



d1462230

[A]: Tray number decal

[B]: Paper size decal

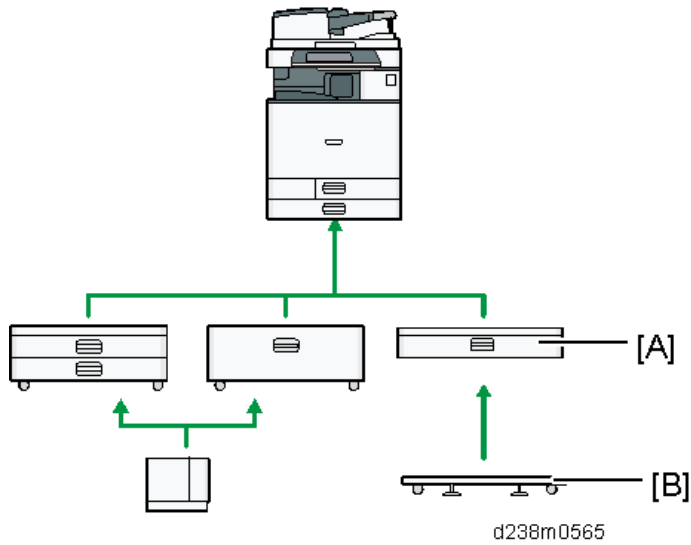
Note

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

9. Connect the power cord to the machine.
10. Turn ON the main power.
11. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.
12. Adjust the registration for the paper feed unit.
SP1-002-004 (Side-to-Side Registration Paper Tray 3)

Note

- Paper Feed Unit PB3150 [A] is not supplied with a caster. You can attach the optional Caster Table Type M3 [B] (page 2-106).



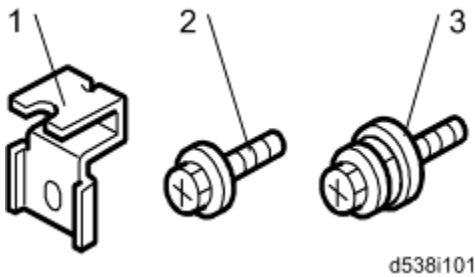
SP descriptions

- **SP1-002 (Side-to-Side Registration)**
Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.
Increasing a value: The image is moved towards the rear edge of the paper.
Decreasing a value: The image is moved towards the front edge of the paper.

2.7 LCIT PB3170/PB3230 (D695)

2.7.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Securing Bracket	2	
2	Screw(M4x10)	2	
3	Hexagonal Bolt	1	



2.7.2 INSTALLATION PROCEDURE

⚠ CAUTION

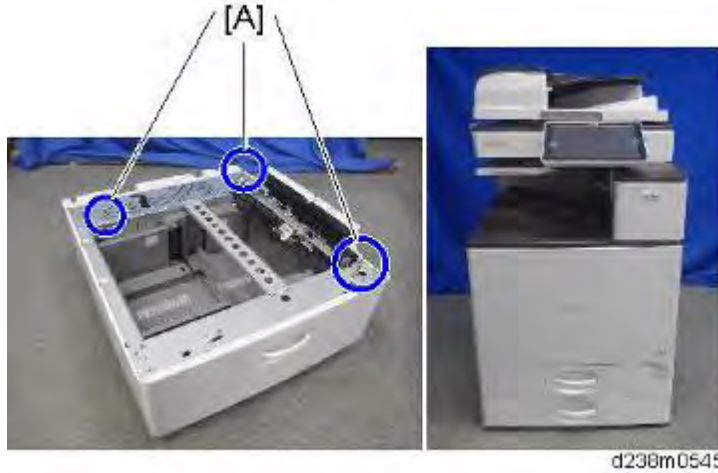
- The main machine weighs approximately 100 kg. Make sure to lift it with the help of at least one more person.
- The machine should be held at the correct locations and lifted gently. If it is lifted without care, handled carelessly or dropped, it may result in an injury.
- When installing this option, turn 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.
- 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.



c238m544

2. Remove the accessories (fixing screws, etc.) (provided with the machine) from the package.
3. Holding the grips on the machine, align the machine with the locating pins [A], and place the machine on the paper feed unit.



Note

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



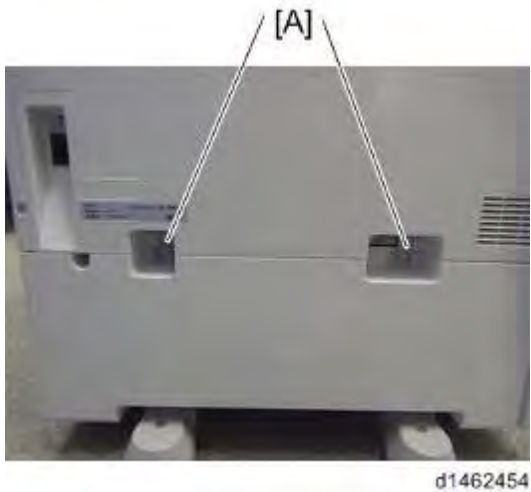
- In particular, do not lift the machine by holding the scanner unit, etc., because this may cause the machine to deform.
- Do not put the machine down on the paper feed unit as a temporary resting place. This may cause the paper feed unit to deform. Always connect the machine and paper feed unit properly.

4. Pull out the 2nd paper feed tray.

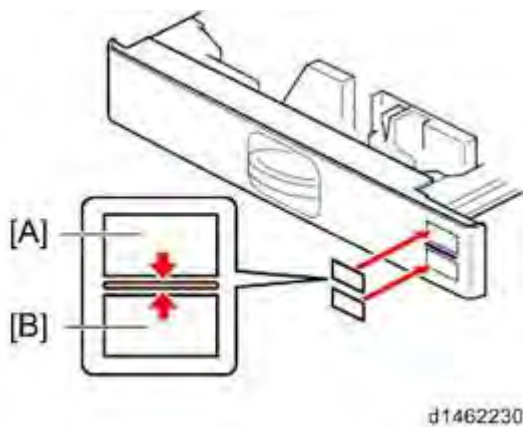
- Using a securing bracket as a screwdriver, fix the machine to the feed unit (spring washer: screw: M4×10: 1).



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



- Reattach the paper feed tray to the machine.
- Attach the decals as shown below.



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

Note

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

9. Lock the casters of the paper feed unit.



d1462439

10. Connect the power cord to the machine.

Note

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



d1462468

11. Turn ON the main power.

12. Set the paper, and check that the paper size set in the paper feed tray is displayed on the operation panel.

13. Adjust the registration for the paper feed unit.

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

SP descriptions

- SP1-002 (Side-to-Side Registration)
Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.
Increasing a value: The image is moved towards the rear edge of the paper.
Decreasing a value: The image is moved towards the front edge of the paper.

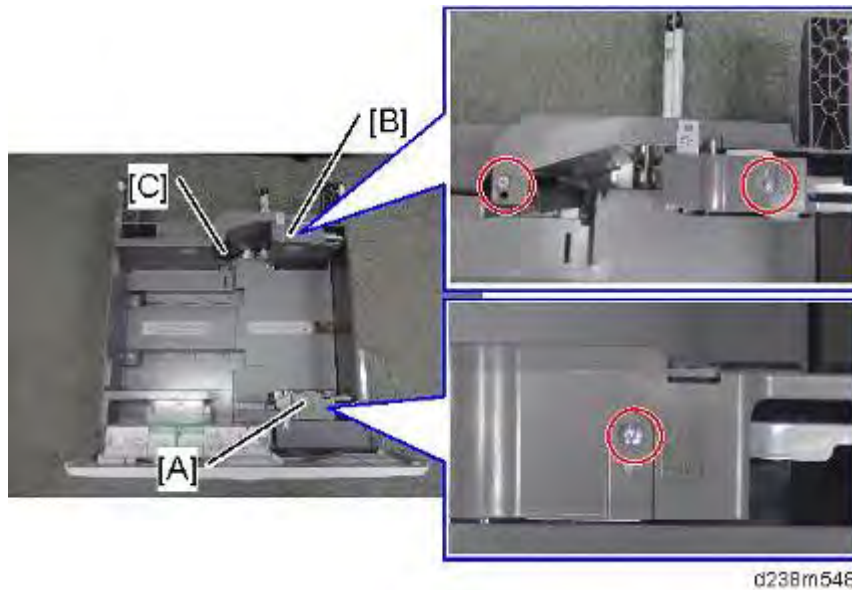
Changing the paper size

Paper size is set as shown below when the machine is shipped from the factory.

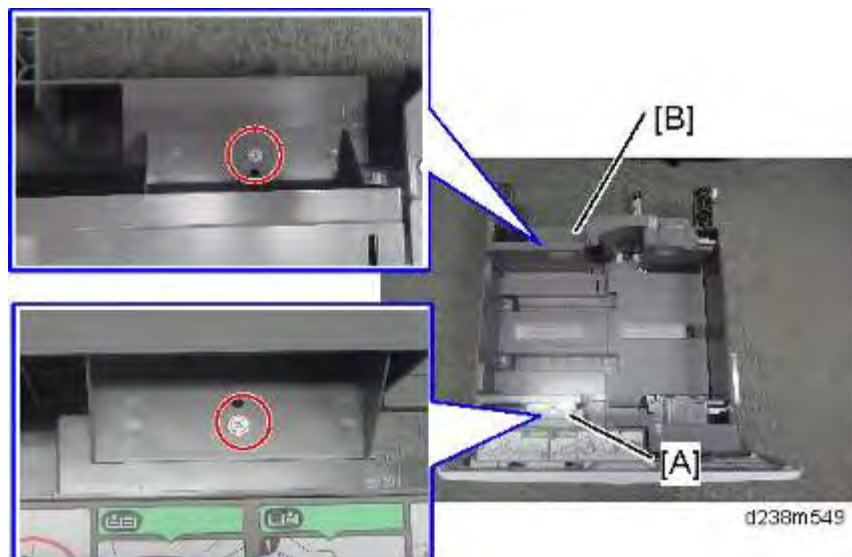
- NA: LT LEF
- EU.AA.CHN: A4 LEF

The paper size can be changed to A4 or LT.

1. Pull out the left tray and right tray.
2. Remove the screws on the right tray side fences (front [A], rear [B]) and right tray end fence [C] (🔩x3).



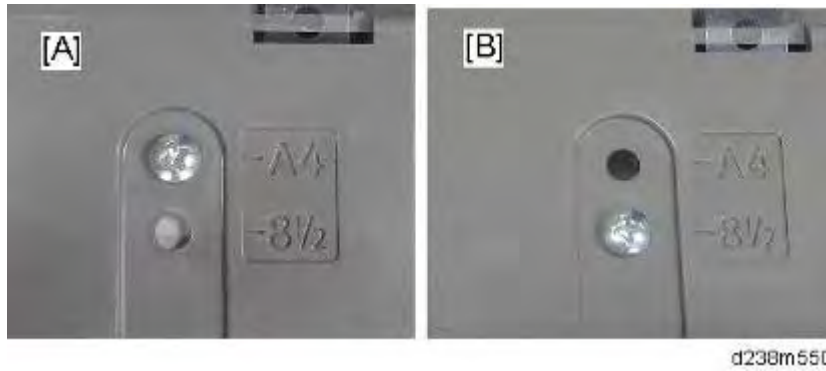
3. Remove the screws on the left tray side fences (front [A], rear [B])



4. Slide the fences to the required position (A4 or LT), and then tighten the screws.

[A]: A4 position (screw holes of the metal frame are hidden)

[B]: LT position (screw holes of the metal frame are visible)



5. Make sure that the spring [A] is attached.



6. Specify the following SP to set the paper size of the tandem paper tray.

SP5-181-007 (Size Adjust: TRAY 3/T-LCT: 1)

0: A4 LEF

1: LT LEF

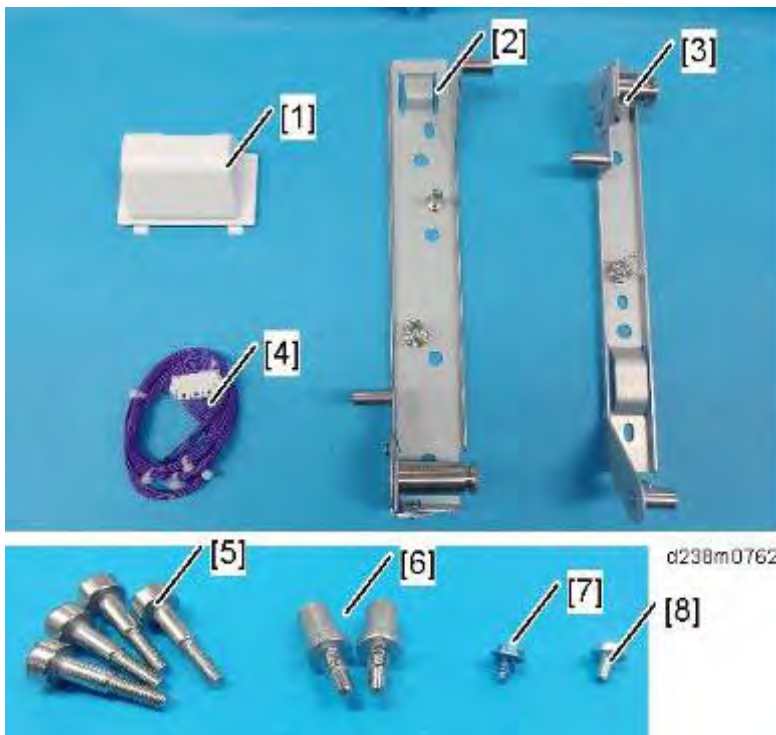
2.8 LCIT RT3030 (D696)

Important

- To install this optional unit, Paper Feed Unit PB3160 (D693) or LCIT PB3170/LCIT PB3230 (D695) is required.

2.8.1 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 – M3 x 6	1	
8	Screw – M3 x 6	1	



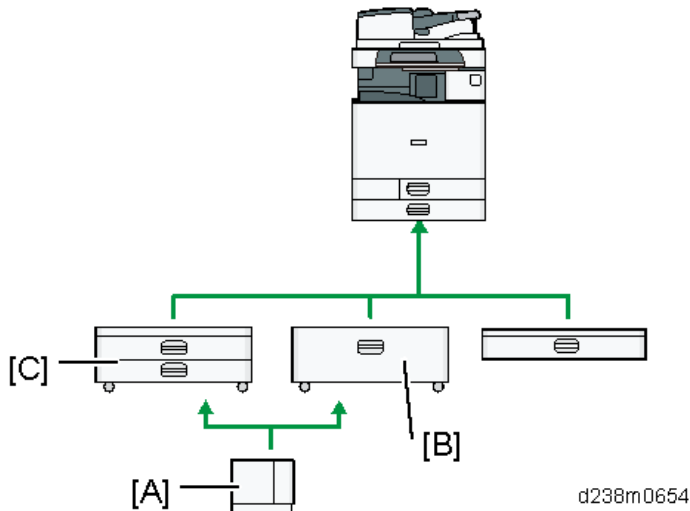
2.8.2 INSTALLATION PROCEDURE

⚠ CAUTION

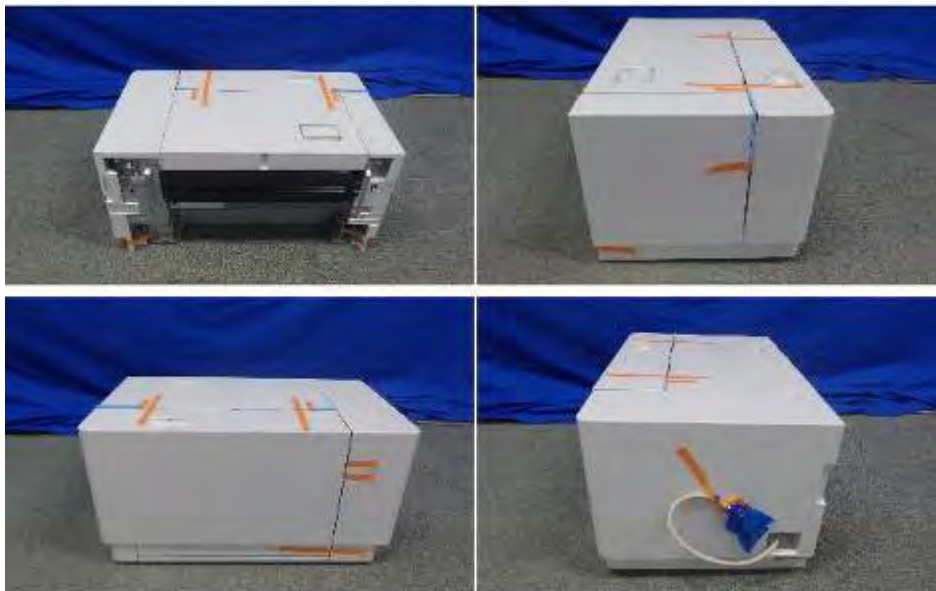
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

📌 Note

- Before installing this option [A], first you must install the "Paper Feed Unit PB3160 [C] (D693)" or "LCIT PB3170/LCIT PB3230 [B] (D695)."



1. Remove the orange tape and retainers.

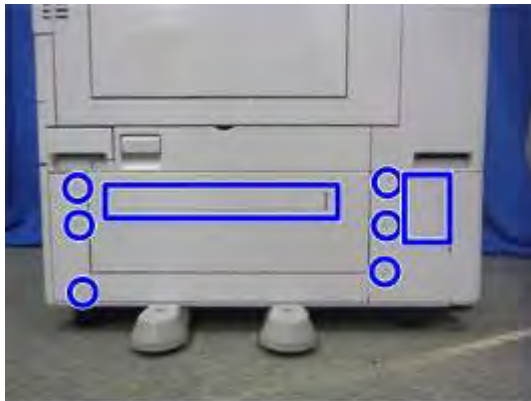


2. Remove the accessories (stud screws, etc.) provided with the machine.



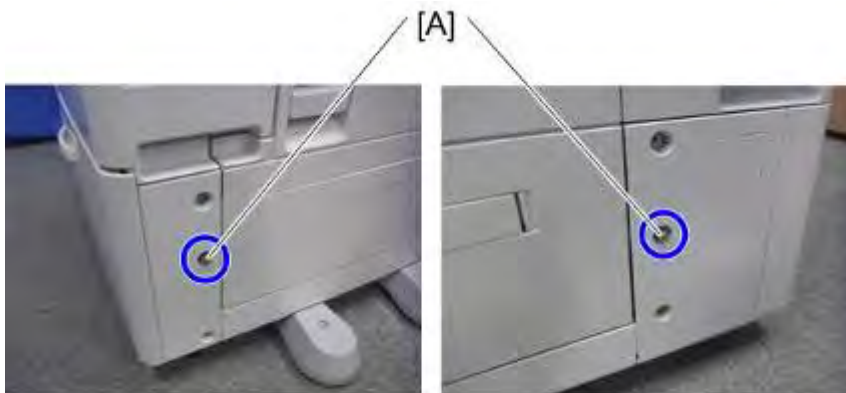
d238m0764

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



d1462457

4. Attach the joint pins [A] to the front and rear on the right of the paper feed table.



d1462458

5. Attach the front bracket [A], rear bracket [B] at the positions of the joint pins (⚙️ x4).



d1462459

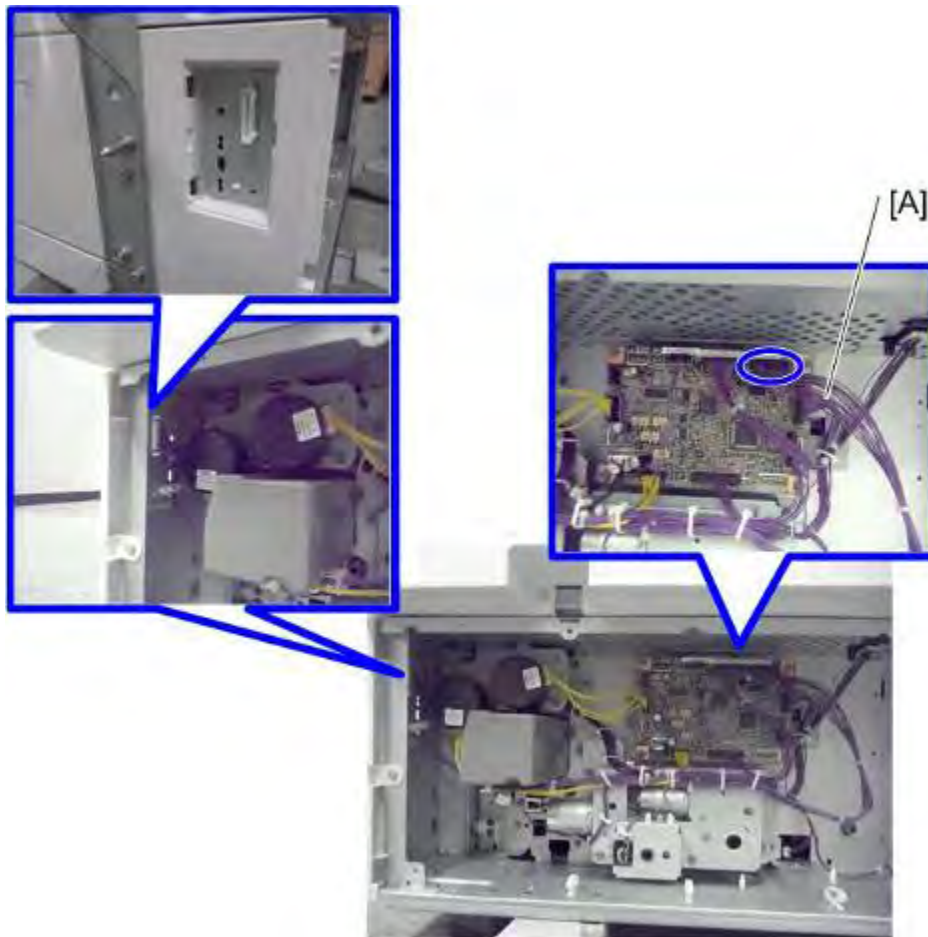
6. Remove the paper feed table rear cover [A] (⚙️ x2).



d1462460

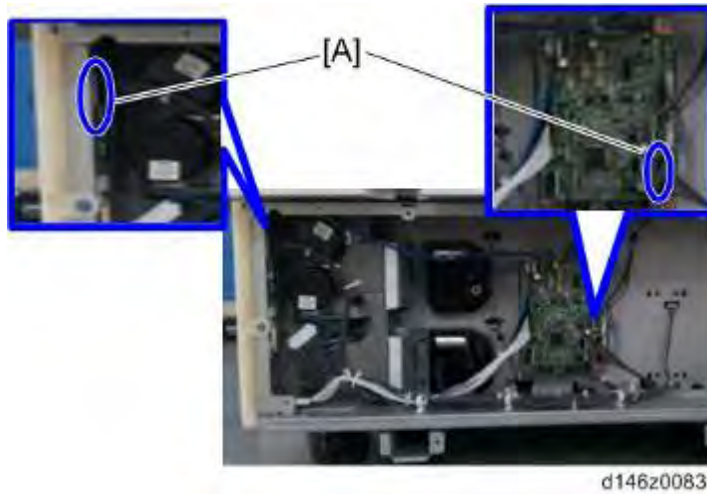
7. Connect the harness [A].

For a machine with Paper Feed Unit PB3170/LCIT PB3230



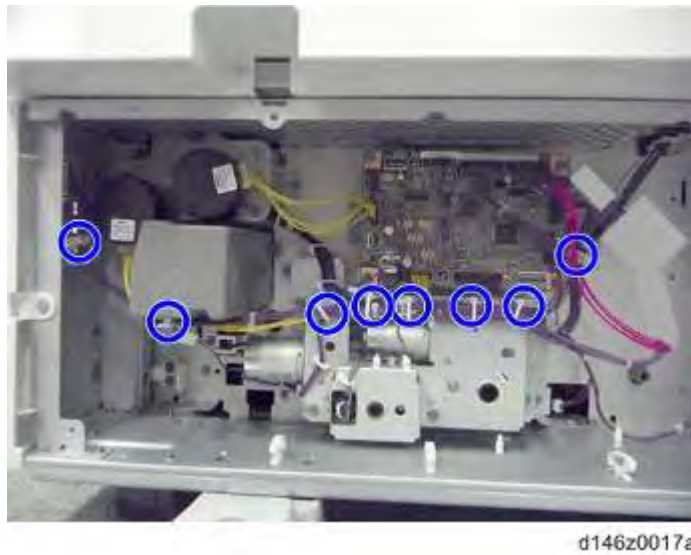
d1462461

For a machine with Paper Feed Unit PB3160



8. Clamp the harness.

For a machine with Paper Feed Unit PB3170/LCIT PB3230



For a machine with Paper Feed Unit PB3160



9. Attach the paper feed table rear cover.

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



11. Connect the cable [A] of the side LCT to the machine (🔧 x1).



12. Attach the connector cover [A] (🔧 x1).



13. Push the side LCT towards the machine.



14. Turn On the main power.
15. Set the paper, and check that the paper size set in the paper feed tray is displayed on the control unit.
16. Do the registration adjustment for the large capacity tray.
SP1-002-007 (Side-to-Side Registration Large Capacity Tray)

SP descriptions

SP1-002 (Side-to-Side Registration)

Adjusts the side-to-side registration by changing the laser main scan start position for each mode and tray.

Increasing a value: The image is moved towards the rear edge of the paper.

Decreasing a value: The image is moved towards the front edge of the paper.

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, LT, or B5.

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.**



d1462466

3. Also change the rear side fence to the same size position.



d1462467

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

SP5-181-017 (Size Adjust: LCT)

- 0: A4 LEF
- 1: LT LEF
- 2: B5 LEF

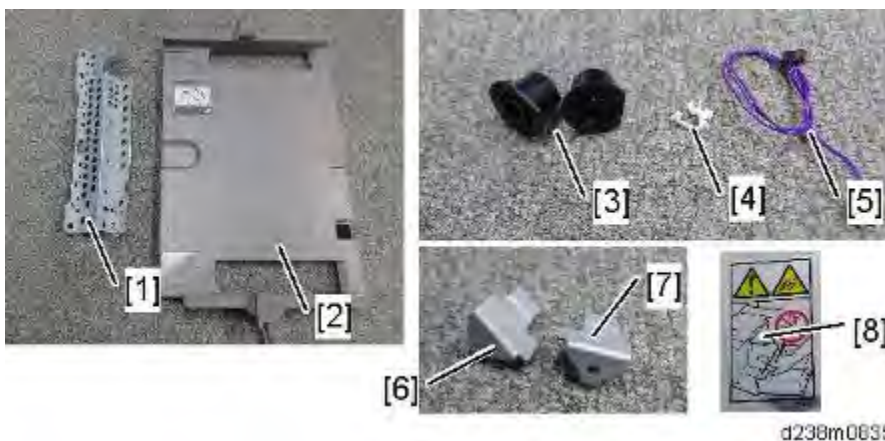
2.8.3 MODIFICATION FOR INCREASING THE LCIT CAPACITY

List of Parts to be Attached

You can increase the number of sheets that can be stacked in the LCIT by mounting the following parts.

No.	Description	Q'ty	Remarks
1	Bracket for remaining paper sensor	1	
2	Paper tray	1	
3	Belt pulley	2	
4	Clamp	1	
5	Harness	1	
6	Tray holder (Rear)	1	
7	Tray holder (Front)	1	
8	Decal	1	
9	Side Fence (Front)		
10	Side Fence (Rear)		

Installation





If the caution decal [A] is attached to the right cover, that LCIT has already been replaced with the parts for increasing the LCIT capacity.

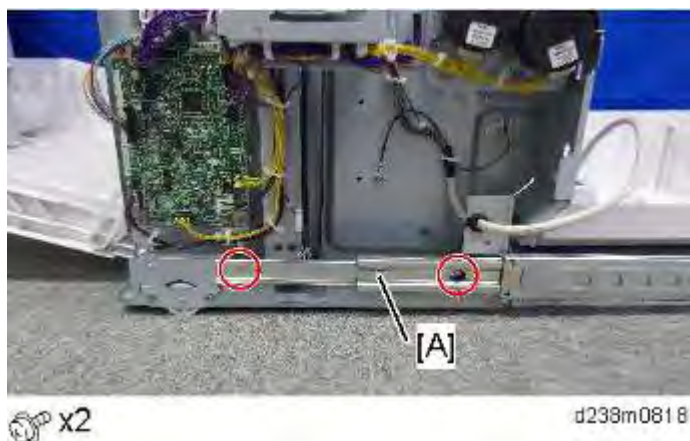


Replacement Procedure

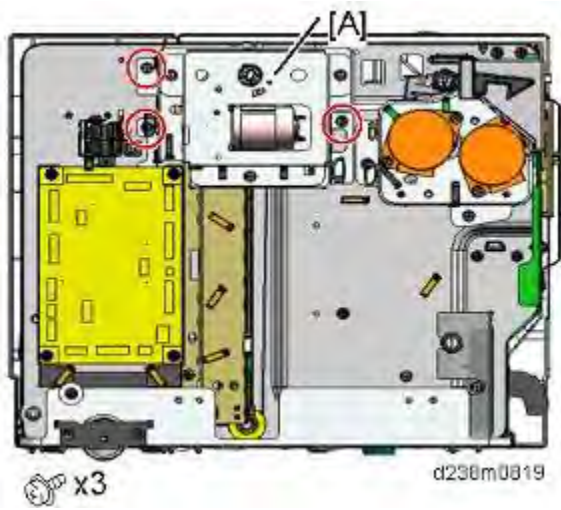
1. Remove the rear cover [A].



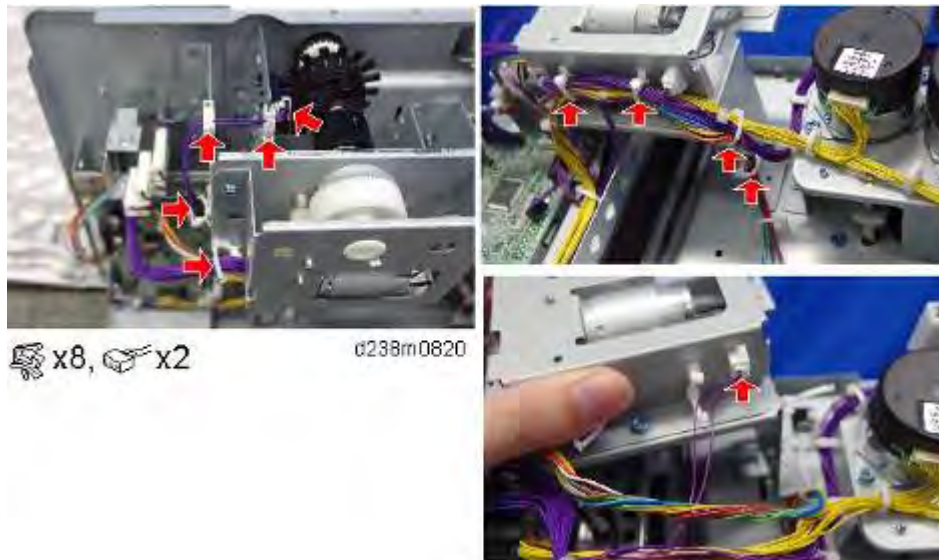
2. Remove the rear slide rail [A].



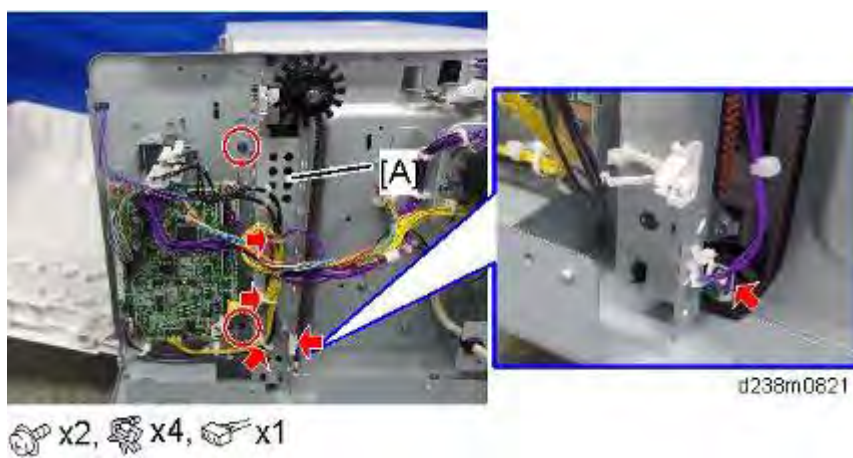
3. Remove the lift motor bracket [A].



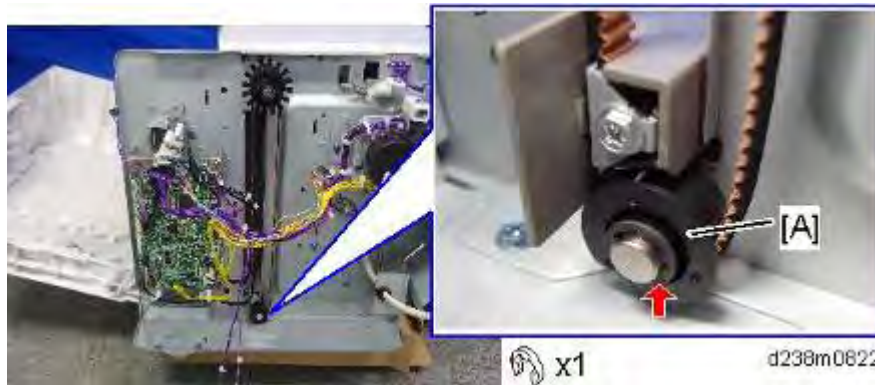
4. Remove the harness and connector for the lift motor bracket.



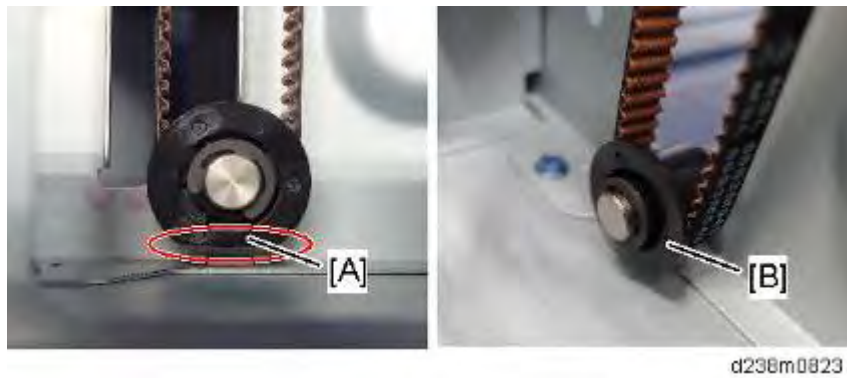
5. Remove the bracket for the remaining paper sensor [A].



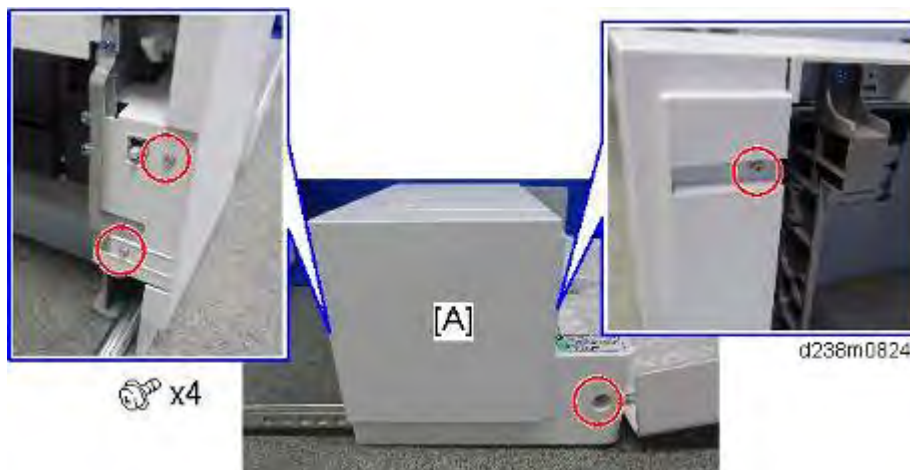
6. Remove the rear belt pulley [A] and replace it with the part for increasing the LCIT capacity.



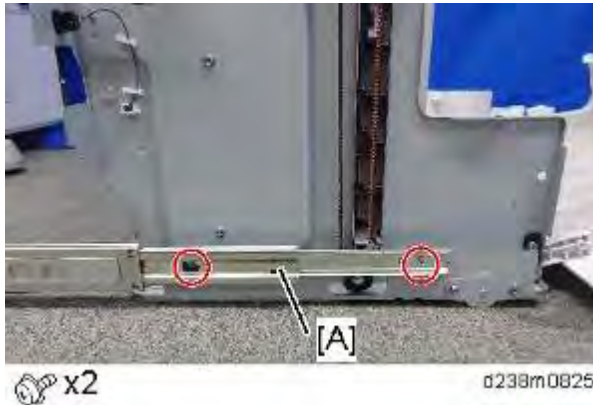
- To prevent interference with the frame, attach the part with the cut surface [A] facing down.
- Attach the part with the flange-side [B] facing out.



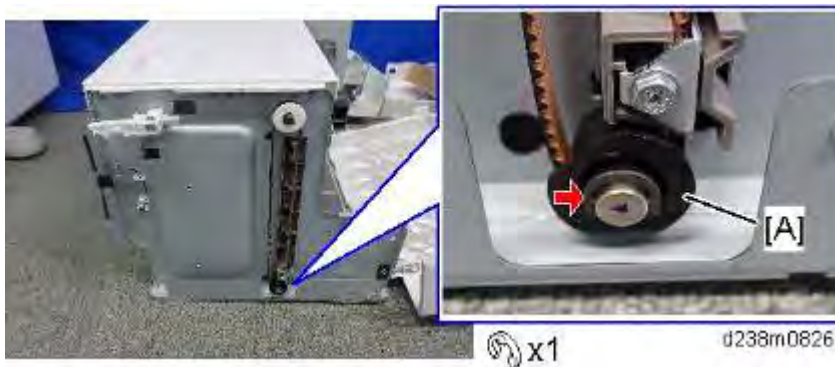
7. Remove the front cover [A].



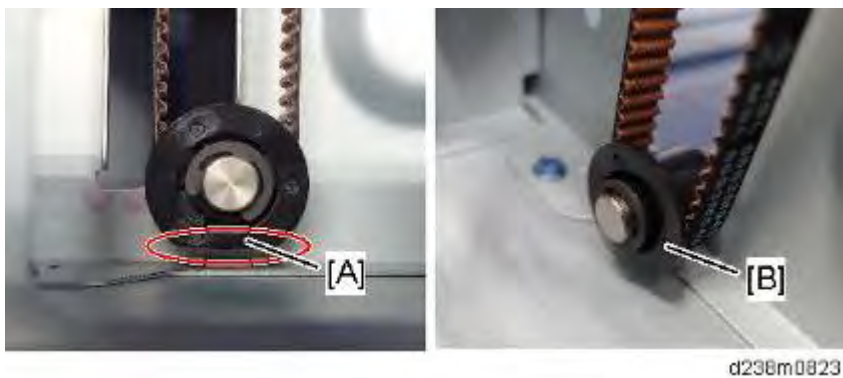
8. Remove the front slide rail [A].



9. Remove the front belt pulley [A] and replace it with the part for increasing the LCIT capacity.




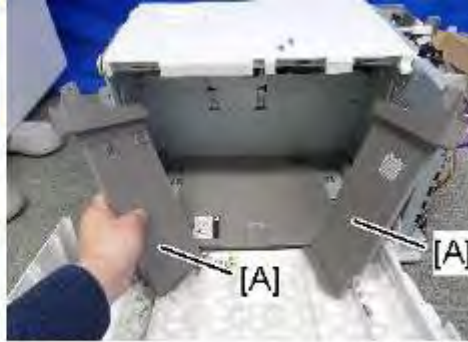
- To prevent interference with the frame, attach the part with the cut surface [A] facing down.
- Attach the part with the flange-side [B] facing out.



10. Remove the side fences [A].

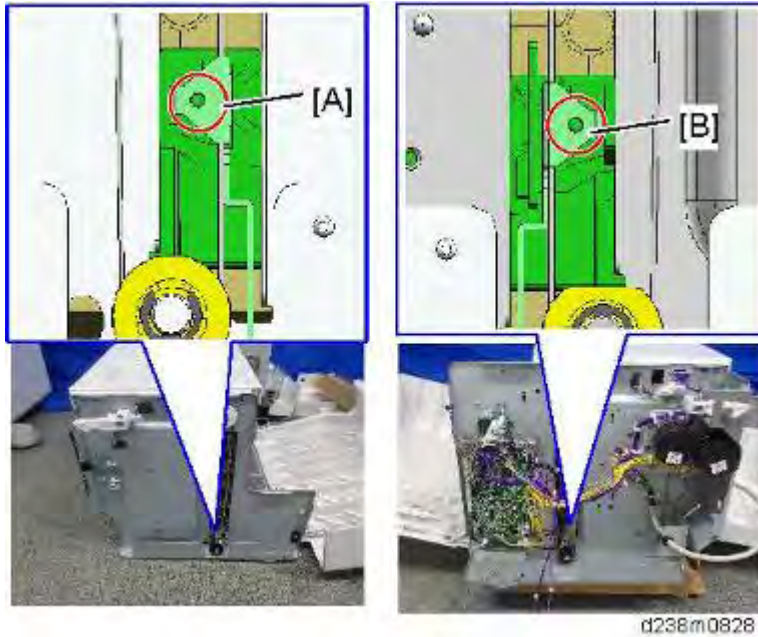


 x2

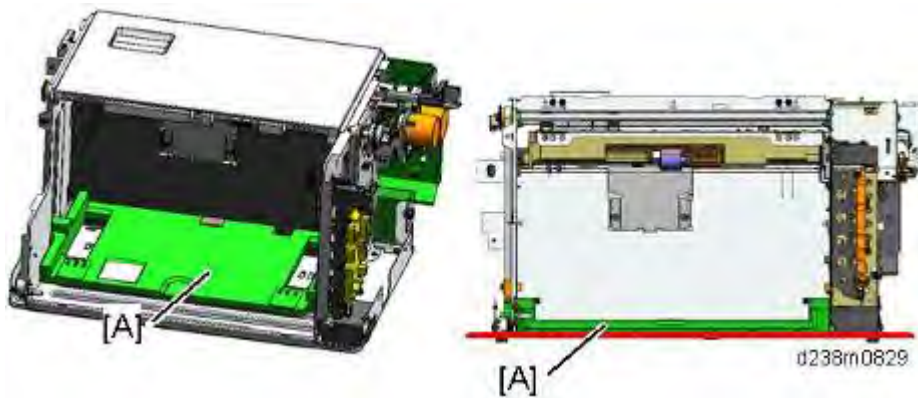


d238m0827

11. Remove the tray holders [A] [B].



12. Replace the tray [A] with the part for increasing the LCIT capacity.
Make sure to keep the tray on the base and pull out the tray horizontally.



13. Attach the side fences for increasing the LCIT capacity.

14. Attach the tray holder for increasing the LCIT capacity.

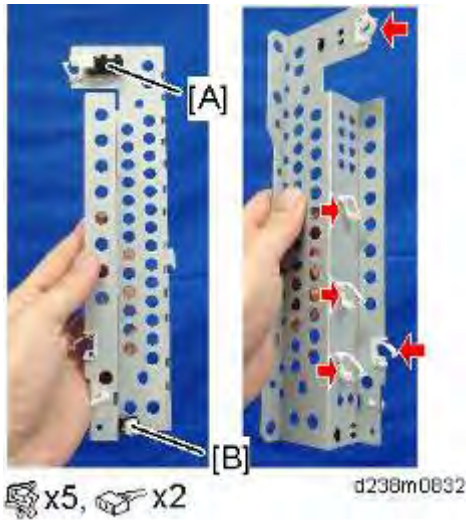


15. Attach the decal [A].

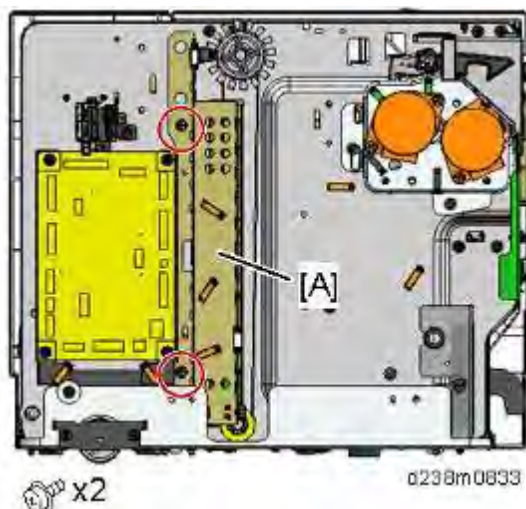


16. Attach the front slide rail.

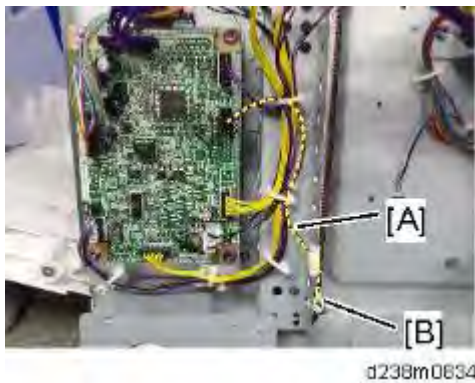
17. Remove the remaining paper sensors [A] and [B] from the bracket and the clamp, and then attach them to the bracket for remaining paper sensors with increased LCIT capacity.



18. Attach the bracket for the remaining paper sensor [A].



19. Replace the harness [A] with the harness for increased LCIT capacity, attach the clamp [B], and then connect it to the tray's lower limit sensor.

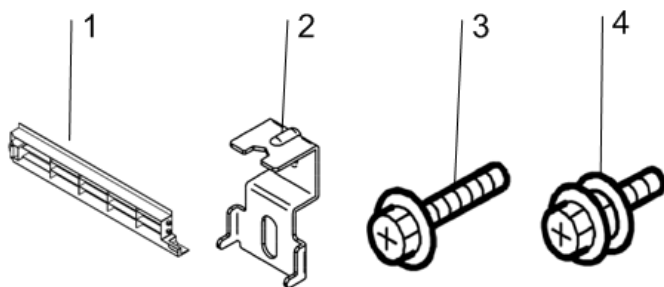


20. Reattach the removed unit and cover.

2.9 CASTER TABLE TYPE M3 (D178)

2.9.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Right Lower Cover	1	
2	Securing Bracket	2	
3	Screws (M4 x 10)	2	
4	Screw with Spring Washer (M4 x 10)	1	



d1465005

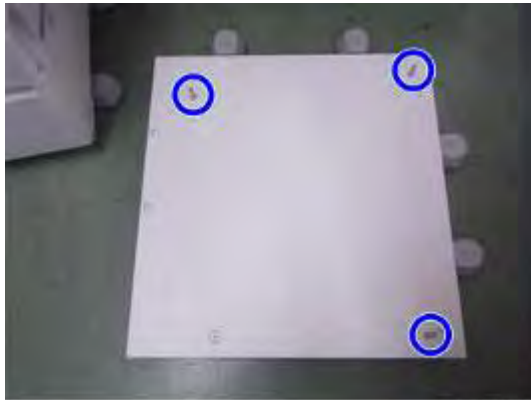
2.9.2 INSTALLATION PROCEDURE

⚠ CAUTION

- The main machine weighs approximately 100 kg. Make sure to lift it with the help of at least one more person.
- 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.
- 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.
- 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.

How to place the MFP on the caster table

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



d1463030

Note

- When you lift the machine, hold the lifting handles.

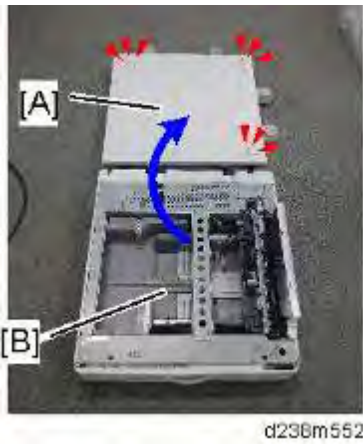


d238m0935

- 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.
2. Pull out the 2nd paper feed tray.
 3. Using a securing bracket, fix the machine 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. Reattach the 2nd paper feed tray to the machine.

How to place the Paper Feed Unit PB3150 on the caster table

1. Place the paper feed unit [B] on the caster table [A].



2. Pull out the 1st paper feed tray.
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. Reattach the paper feed tray.

2.10 PLATEN COVER PN2000 (D700)

2.10.1 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	



2.10.2 INSTALLATION PROCEDURE

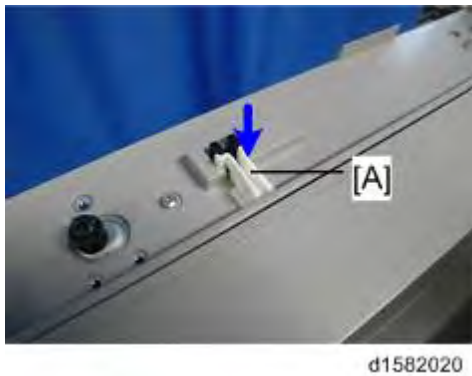
⚠ CAUTION

- 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.

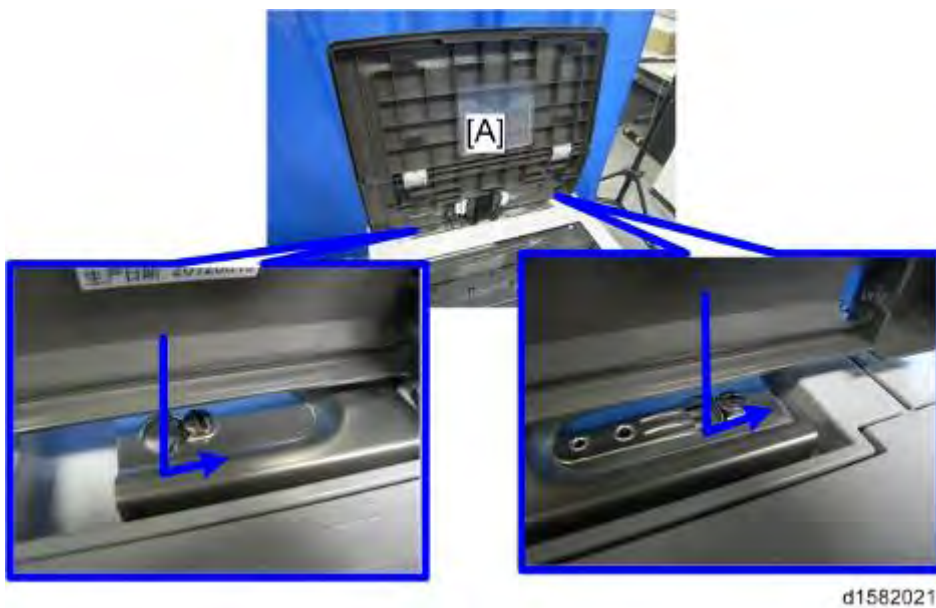
1. Install the stepped screws (🔩 x 2).



2. Install the feeler guide [A].

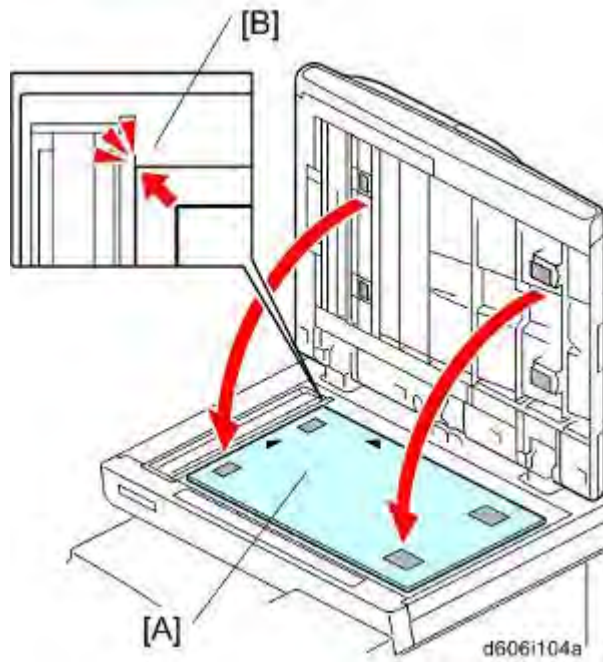


3. Install the platen cover [A].



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.

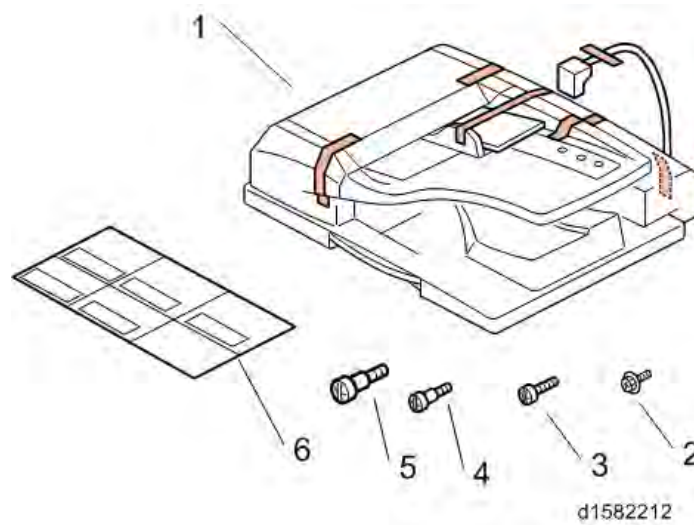


6. Close the platen cover.
7. Open the platen cover.
8. Press the surface of the platen sheet gently to fix it on the platen cover securely.

2.11 ARDF DF3090 (D779)

2.11.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
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	



2.11.2 INSTALLATION PROCEDURE

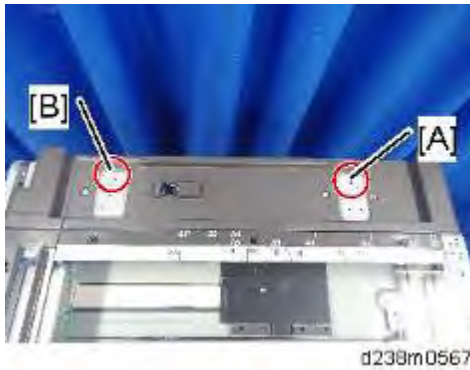
⚠ CAUTION

- 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.

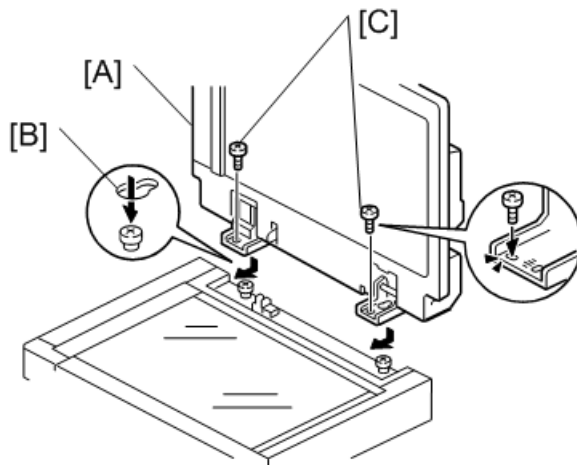
★ Important

- Do not turn the power on until you perform "adjustment after installation," or it may not start normally.

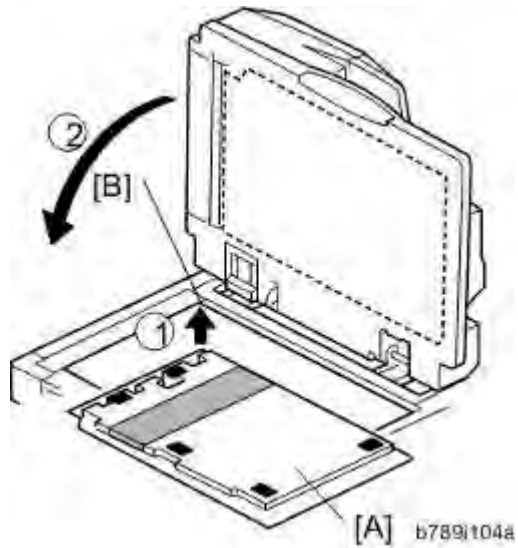
1. Remove all the tapes and shipping retainers.
2. Insert the two stud screws ([A] is the larger stud, [B] is the smaller stud).



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.



9. Remove the rear cover [A].

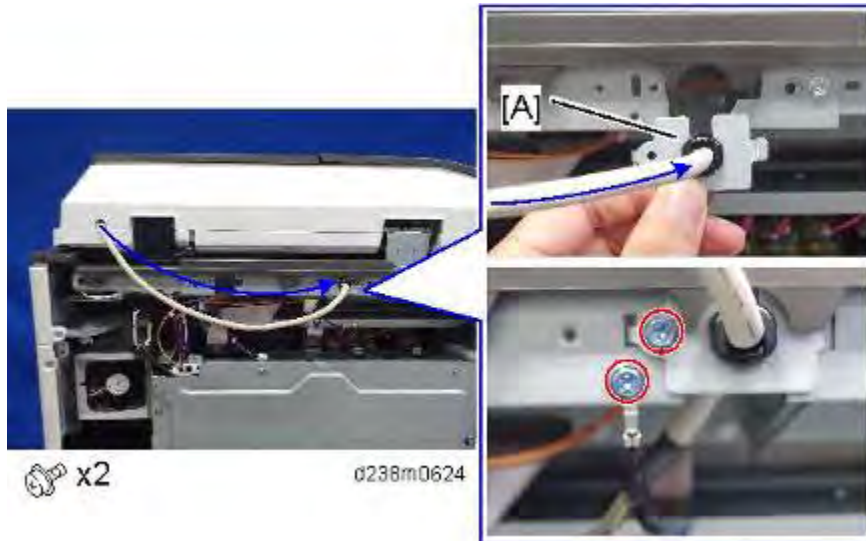


10. Remove the small disposable cover [A] on the rear cover (on the right side).



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

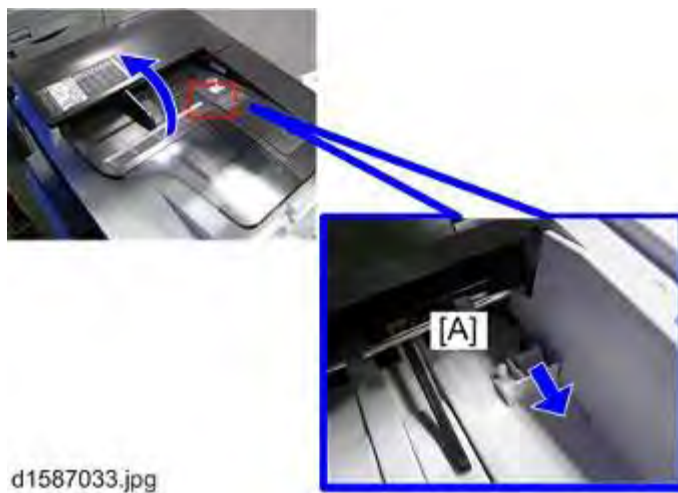
Make sure to connect the grounding wire.



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

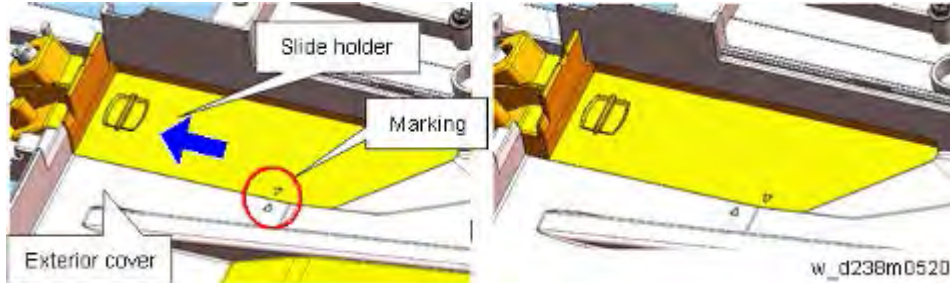


13. Reattach the rear cover.
14. Lift the ARDF original tray.
15. Slide the stamp holder [A] out and install the stamp cartridge in it, if necessary.

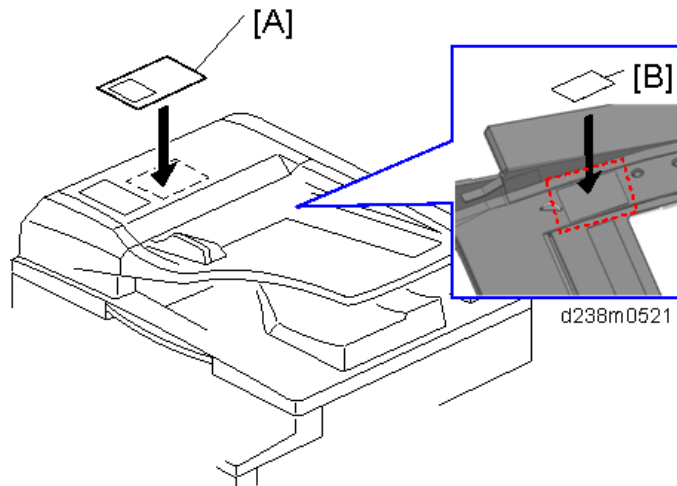


Note

- 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] [B] to the top cover as shown. Choose the language that you want.



17. Plug in and turn ON the main power.
18. Set SP4-688-001 (DF Density Adjustment ARDF) to "106."
19. 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 (see page 4-221 ARDF Image Adjustment for ARDF).

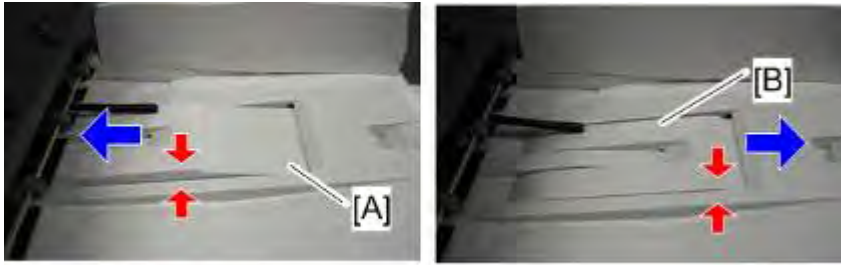
When feeding thin paper

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



d1585055

2.12 SPDF DF3100 (D3B0)

2.12.1 ACCESSORY CHECK

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



2.12.2 INSTALLATION PROCEDURE

⚠ CAUTION

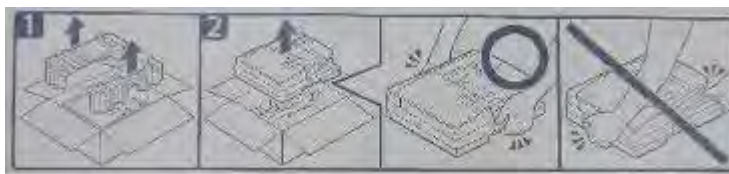
- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

★ Important

- Do not turn the power on until you perform "adjustment after installation," or it may not start normally.

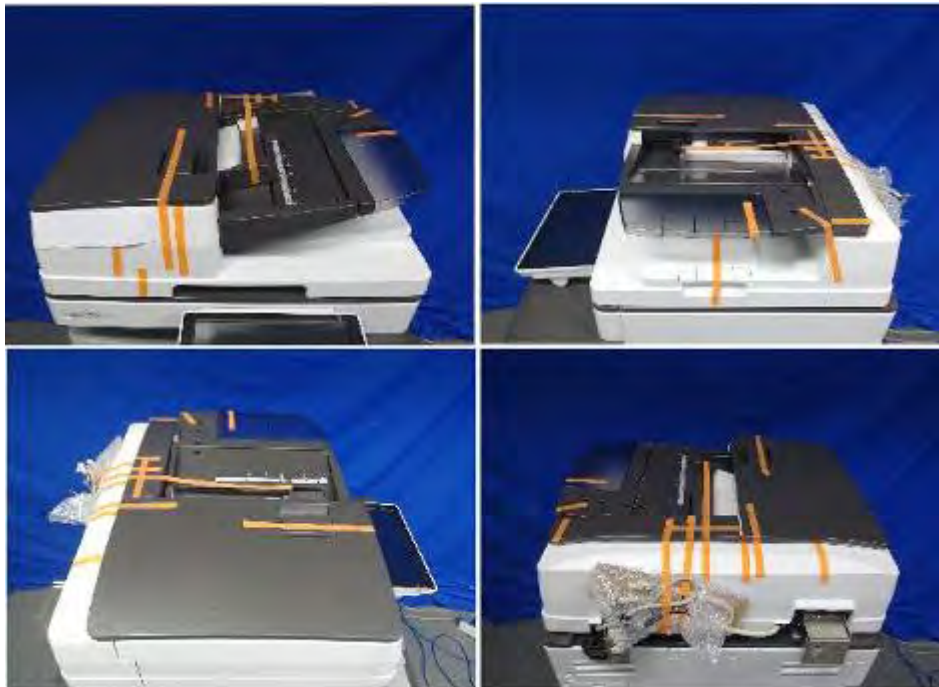
Attaching the SPDF

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



d238m0606


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



d238m0608

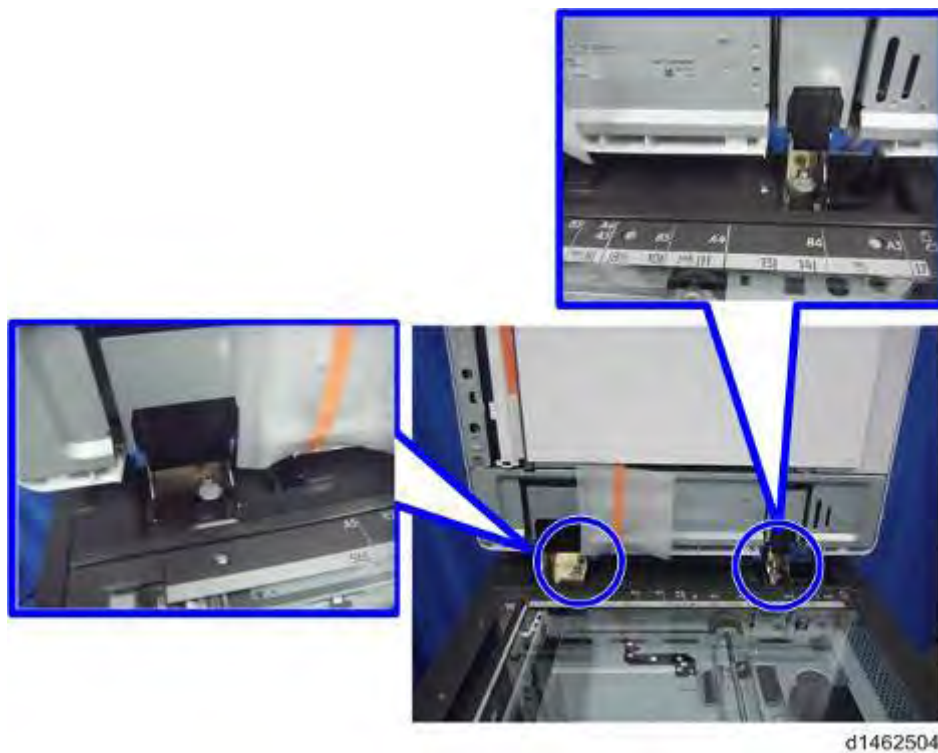
3. Remove the accessories in the package (boards, fixing screws, etc.).
4. Attach the 2 stepped screws to the machine.



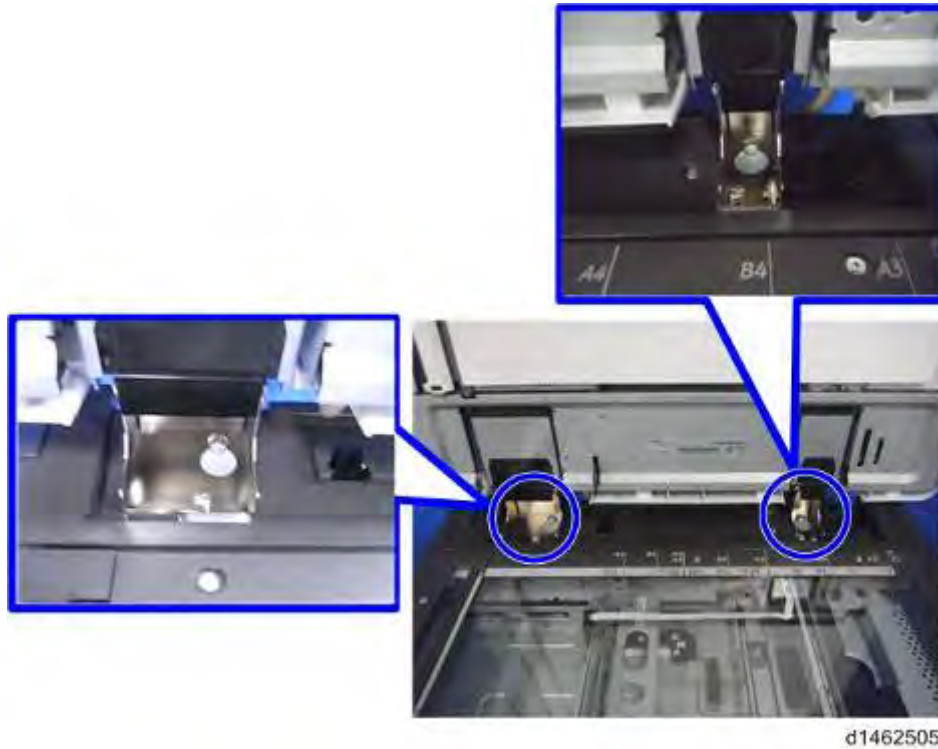
 x2

d298m0609

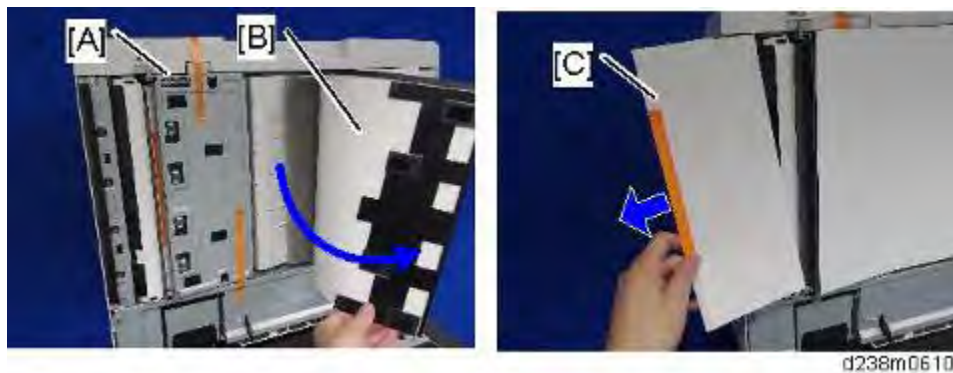
5. Align the hinges of the SPDF with the stepped screws, and attach them by sliding them in.



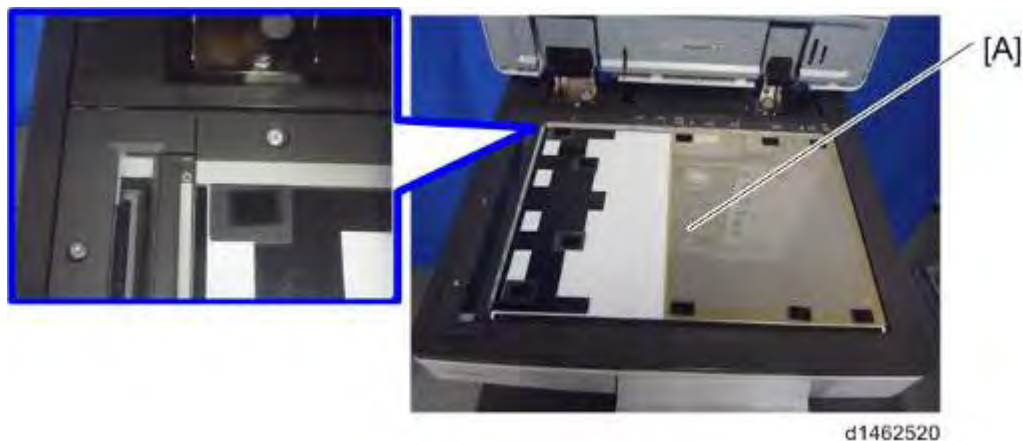
6. Fix the SPDF to the machine (coin screws x2)



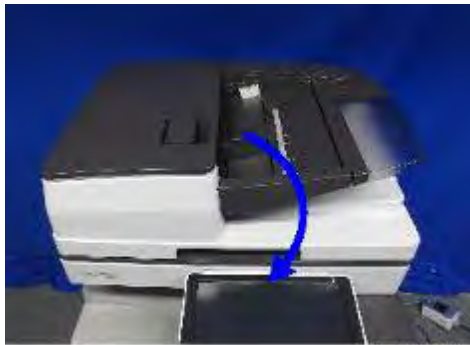
7. Release the lever [A], then open the pressure plate sheet [B], and gently remove the protective sheet [C].
8. Remove the filament tape, and shut the pressure plate sheet.



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.

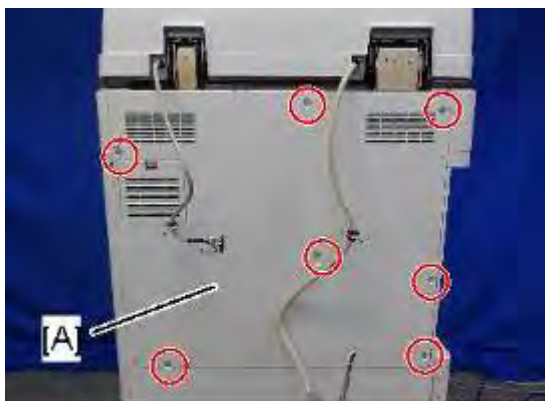


10. Close the SPDF slowly, and attach the platen sheet and SPDF.



d238m0611

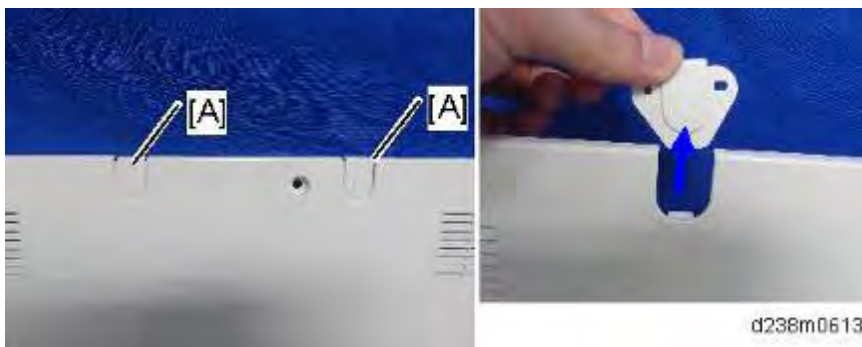
11. Remove the rear cover [A].



x7

d238m0612

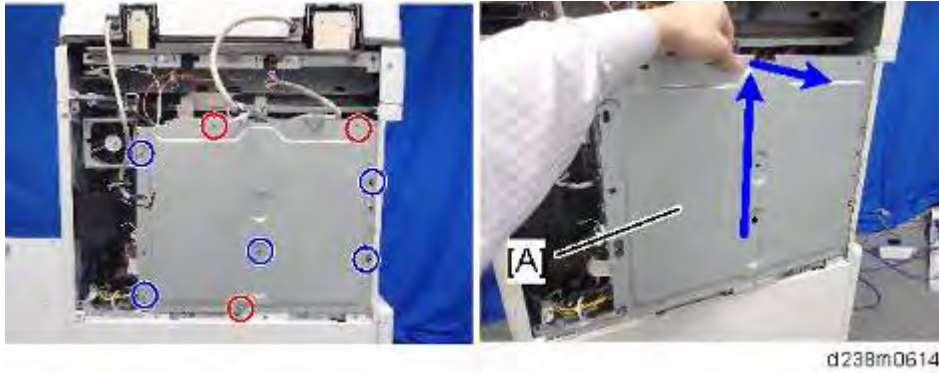
12. Remove the small disposable covers [A] on the rear cover.



d238m0613

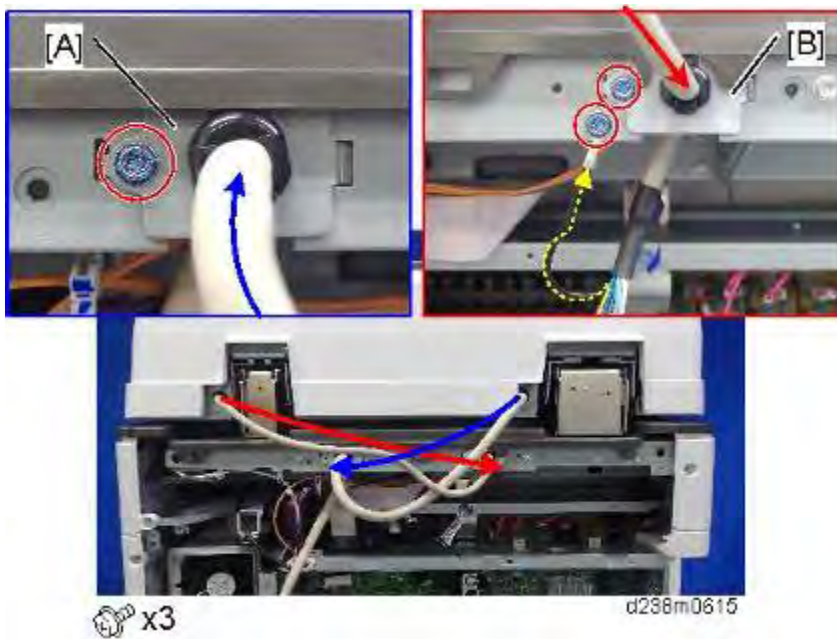
13. Remove the controller box cover [A].

Red Circle: Remove, Blue Circle: Loosen

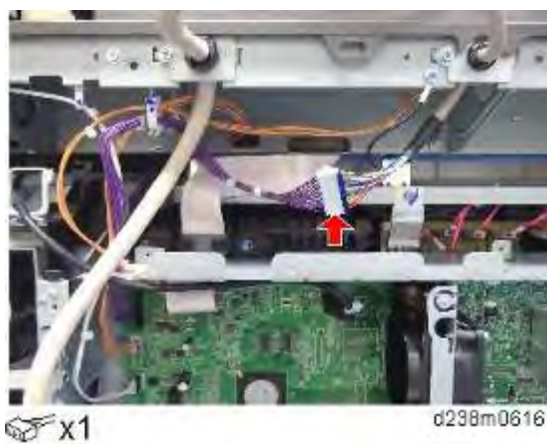


14. Connect the SPDF cable as shown and mount the brackets [A] [B] on the machine's rear frame.

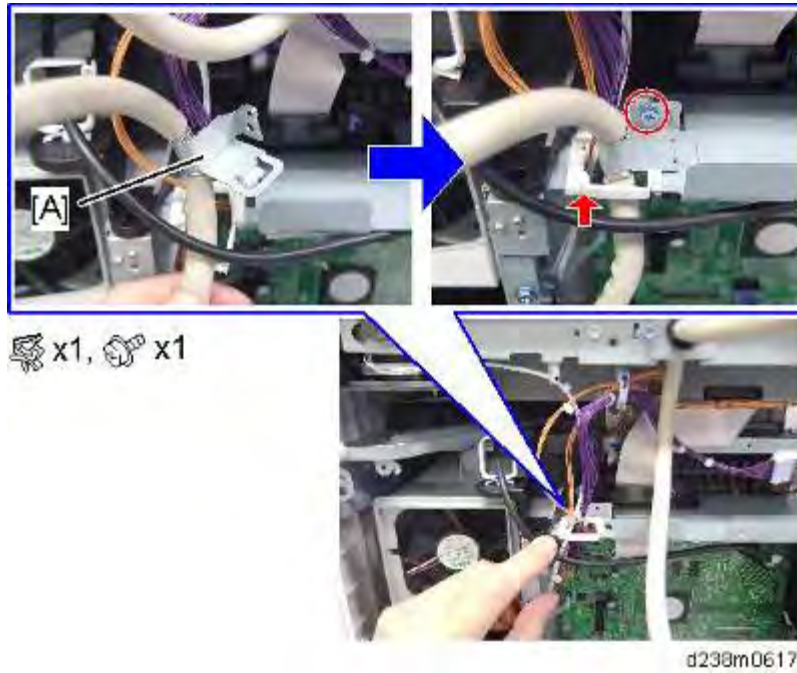
Make sure to connect the grounding wire.



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



16. Attach the scanner cable [A] with the bracket on the upper frame of the controller box.



17. Connect the cable to the IPU (CN564).



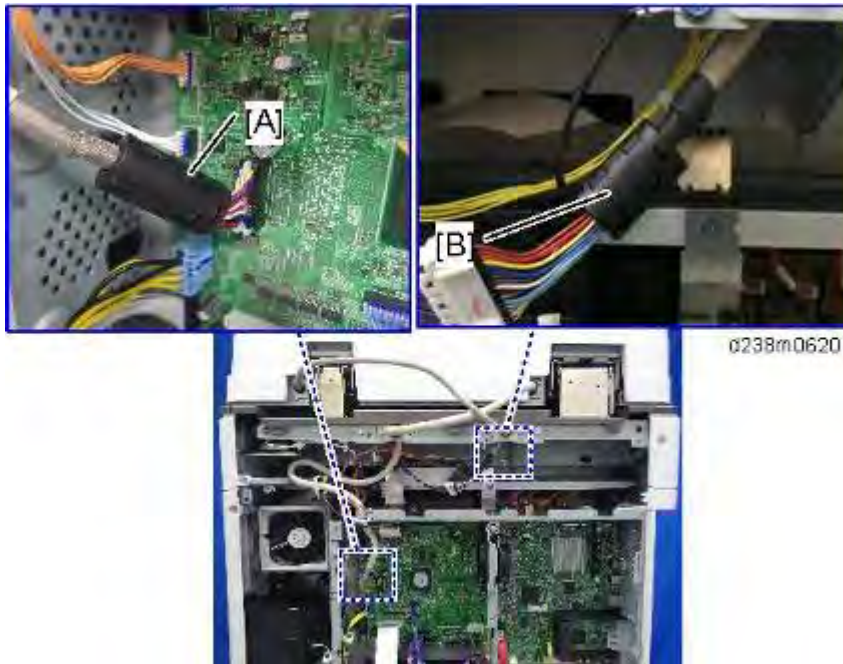
18. Tuck in the excess length portion of the cable to the back of the machine.



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

Attach [A] close to the connector.

Attach [B] in the area near the end of the tube.



20. Reattach the controller box cover and the rear cover.
21. Attach the decals [A] [B] to the SPDF.

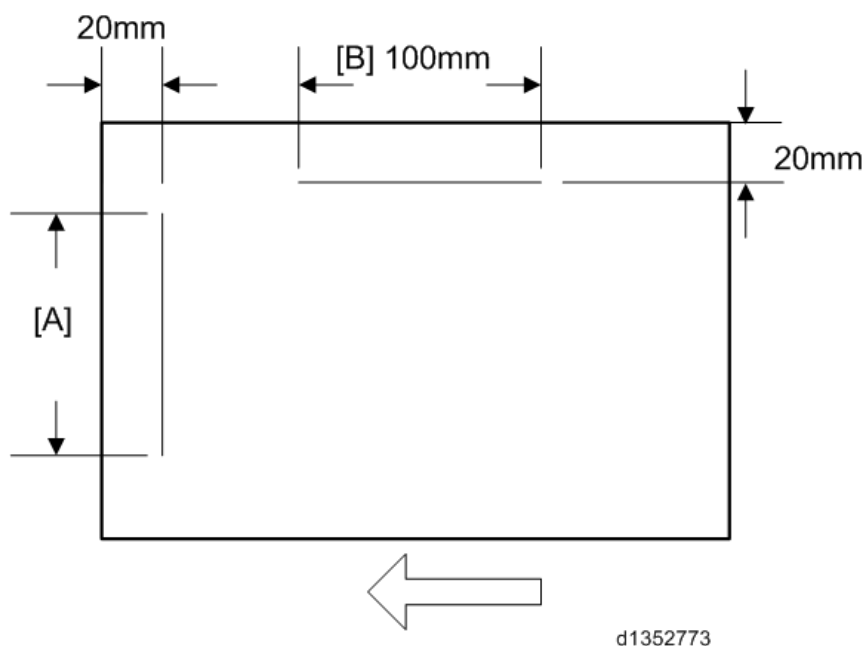


Adjust SP Settings

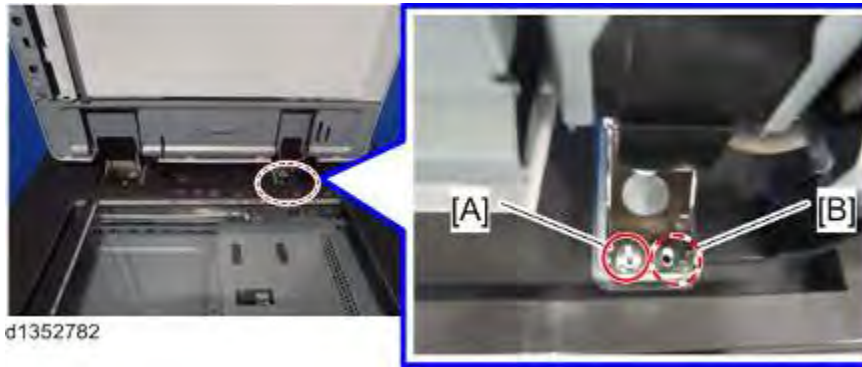
1. Turn ON the main power.
2. Set SP4-688-002 (Scan Image Density Adjustment 1-pass DF) to "101."
3. Execute SP4-730-002 (FROM Main Factory Setting Execution ON/OFF).
4. Check the vertical registration for the SPDF.

1. 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 [A] is within $0\pm 1\text{mm}$
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)
5. Check the horizontal registration for the SPDF.
 1. Copy the original and make sure that the position of the line [B] that you wrote on the original (see above) is within $0\pm 2\text{mm}$.
 2. 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 $0\pm 2\text{mm}$.
 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

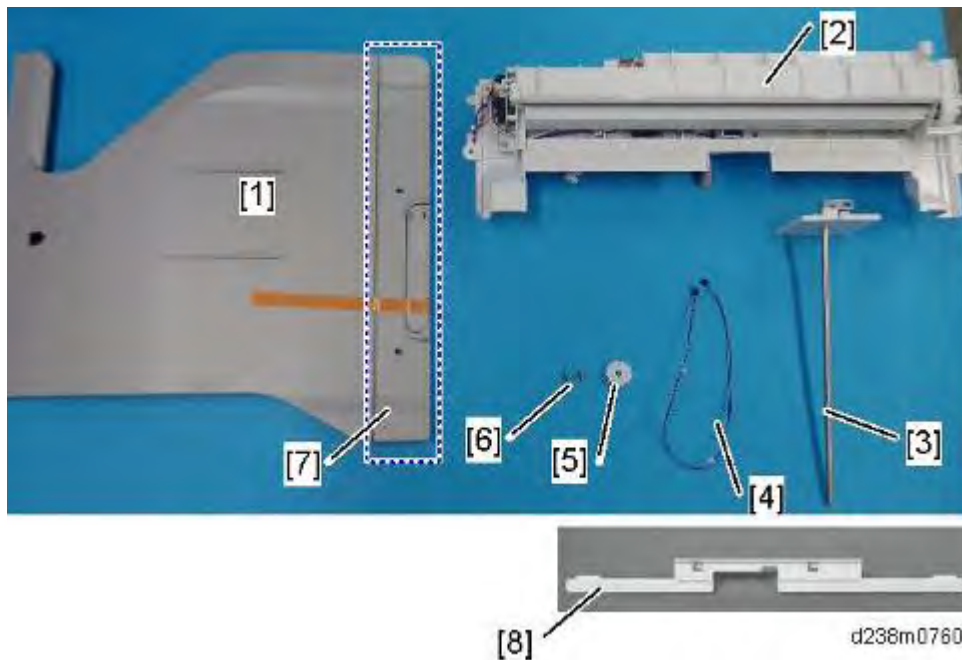
- **SP4-688-002 (Scan Image Density Adjustment: 1-pass DF)**
Adjusts density difference between Book and ADF. This SP is only for the SPDF models.
- **SP4-730-002 (FROM Main Factory Setting Execution ON/OFF)**
Copies the parameters written in FROM in the SPDF to the engine board in the MFP. This SP is only for the SPDF models.

1 Bin Tray BN3110 (D3CQ)

2.13 1 BIN TRAY BN3110 (D3CQ)

2.13.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Tray	1	
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



2.13.2 INSTALLATION PROCEDURE

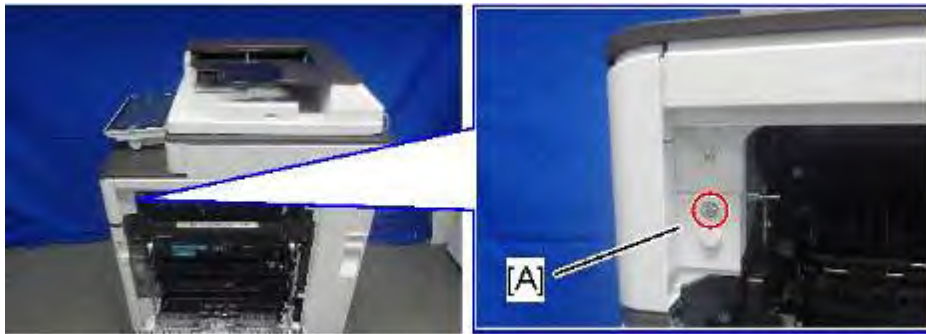
⚠ CAUTION

- 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.

★ Important

- When attaching this 1-bin tray unit at the same time as Bridge Unit BU3070 or Side Tray Type M3, attach this tray first. Otherwise, the 1-bin tray's exit tray cannot be attached due to the Bridge Unit BU3070 or Side Tray Type M3.
- To use together with the "Internal Finisher SR3130", first attach the bottom plate of Internal Finisher SR3130, and then install the 1-bin tray.

- Remove the orange tape and shipping retainers.
- Remove the accessories (fixing screws, etc.) provided with the machine.
- Open the right door, and then remove the small cover [A].





 x1

d238m553

- Remove the proximity sensor cover [A].

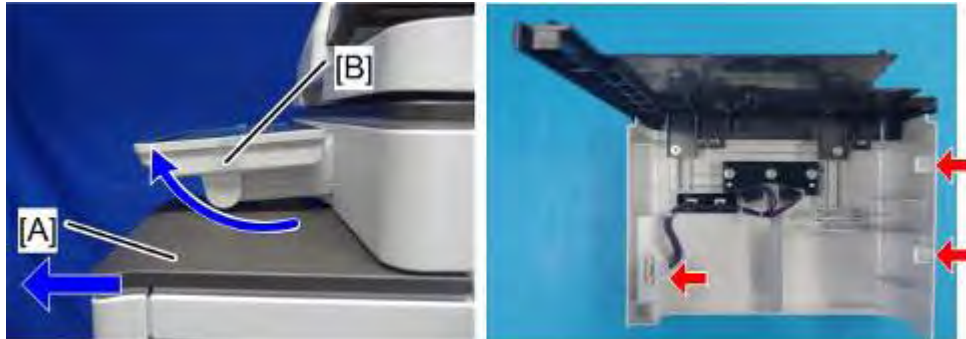


 x1,  x1

d238m554

Note

- Remember that there are three tabs at the positions of the red arrows.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the proximity sensor cover [A].



d238m555

5. Remove the paper exit tray [A].



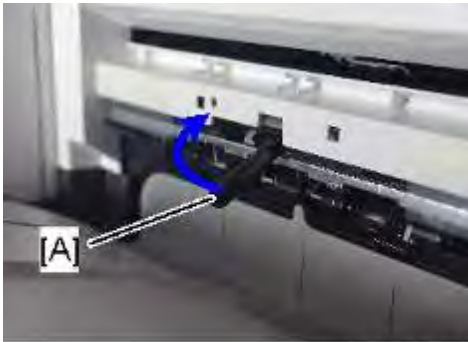
d1462023

6. Remove the paper exit feeler [A].



d238m0558

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



d238m0577

8. Open the front cover, and then remove the upper left cover [A] by pulling it towards the front (🔩 x1).



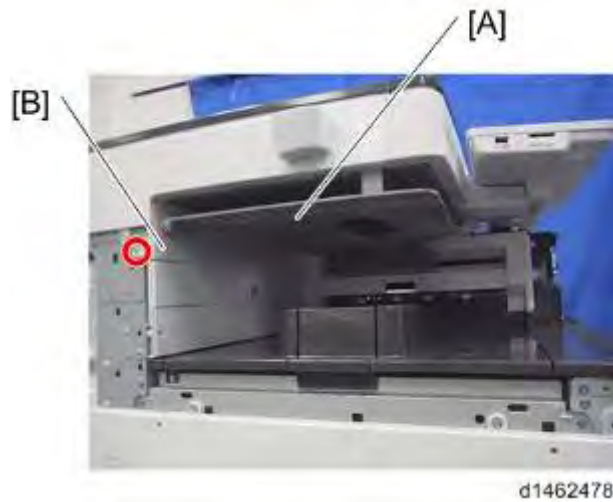
d1462008

9. Remove the left rear cover [A] (🔩 x2).



d1462010

10. Remove the inverter tray [A], and tray support rod cover [B] (🔩 x1).



11. Remove the paper exit cover [A] (🔩 x1).



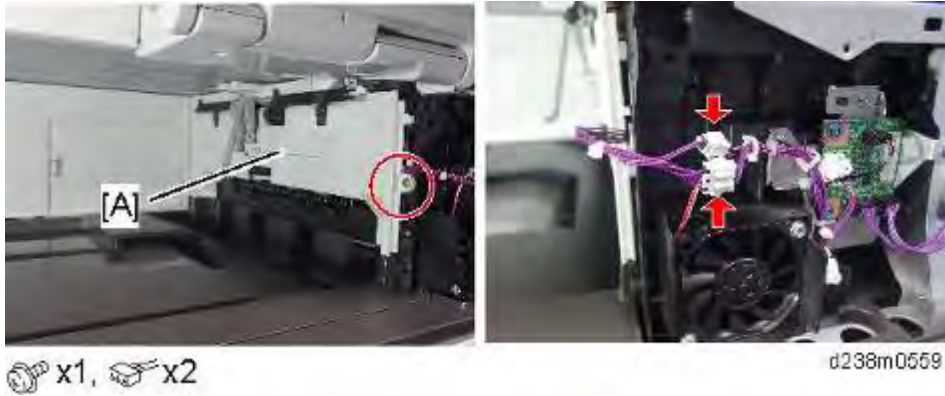
12. Attach the gear [A] provided with the accessories.



13. 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.

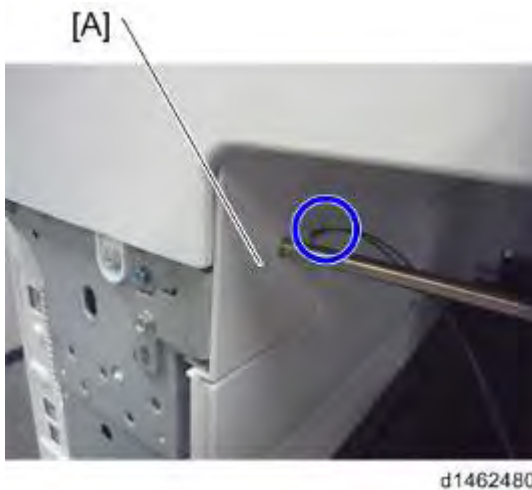


14. Attach the harness provided with the accessories.



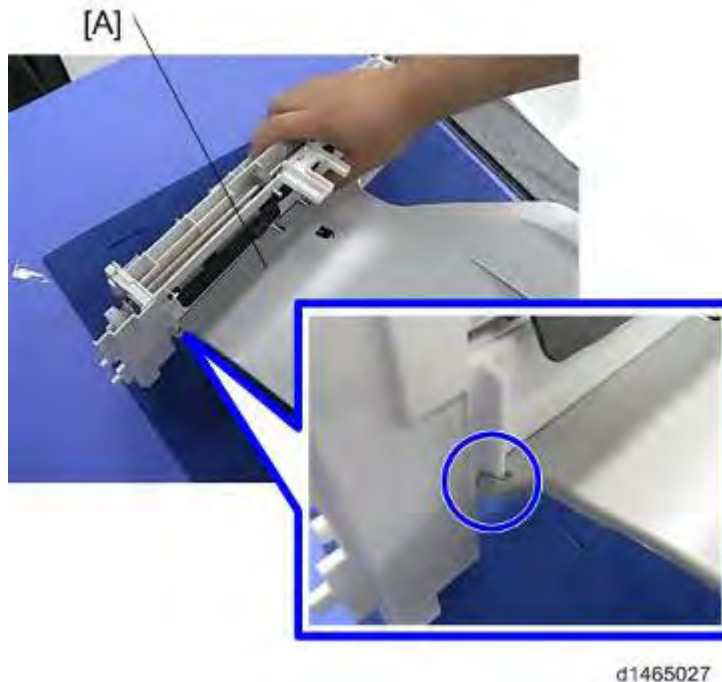
15. Attach the tray support bar [A] (🔩 x1).

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 [A] and comes outside of it as shown below.



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

1 Bin Tray BN3110 (D3CQ)



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



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



19. Reattach the left rear cover, upper left cover and proximity sensor cover, and close the right door.

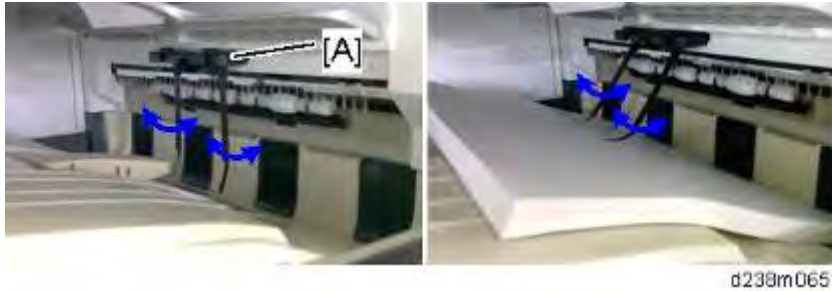
20. Reattach the paper exit tray and paper exit feeler.

21. Turn ON the main power.
22. Check that output to this tray can be selected on the operation panel, and check 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.



2.14 INTERNAL SHIFT TRAY SH3070 (D691)

2.14.1 ACCESSORY CHECK

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



d236m0574

2.14.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

📌 Note

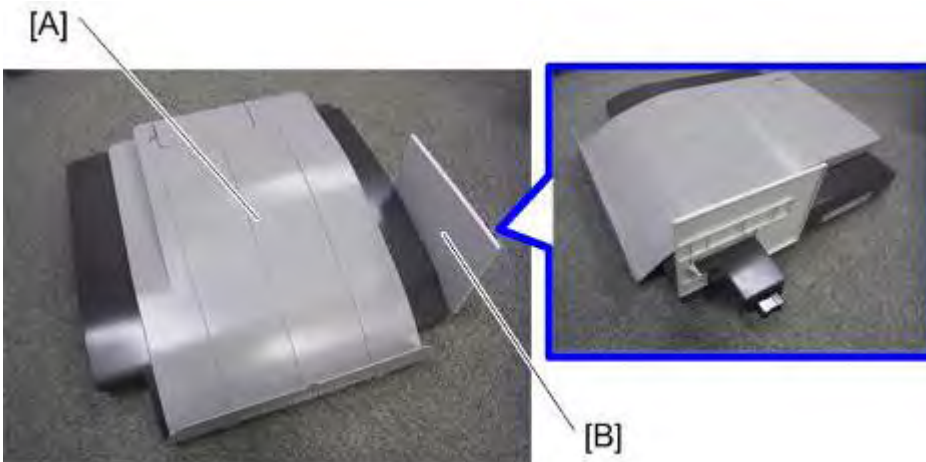
- The internal shift tray cannot be used together with the following peripherals:
 - Side Tray Type M3 (D725)
 - Internal Finisher SR 3180 (D766)
 - Internal Finisher SR 3130 (D690)
 - Bridge Unit BU3070 (D685)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", attach the "1 Bin Tray BN3110 (D3CQ)"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

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



d238m0575

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



d1462486

3. Remove the paper exit tray [A].



d1462023

4. Remove the connector cover [A].



5. Attach the shift tray [A].



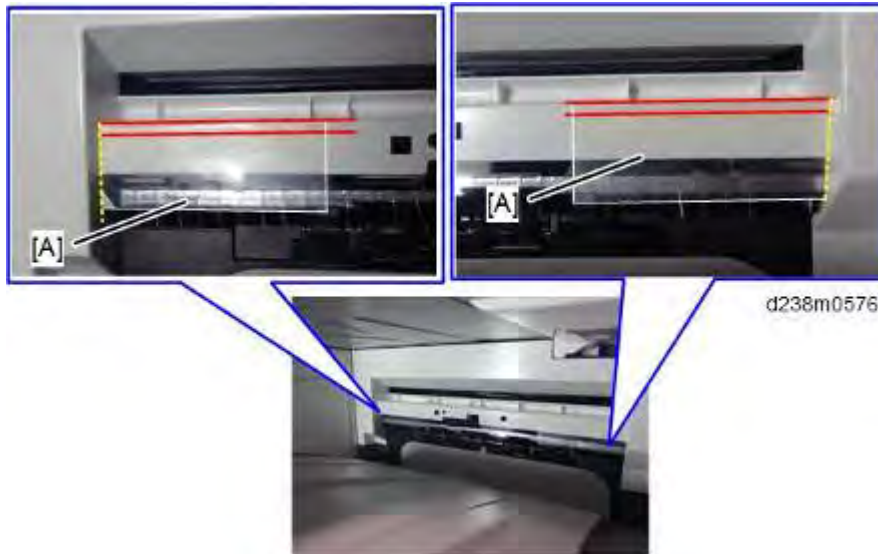
6. Remove the paper exit feeler [A] to apply the Mylar sheet properly.



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

★ Important

- 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 **0-2.5mm** 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].

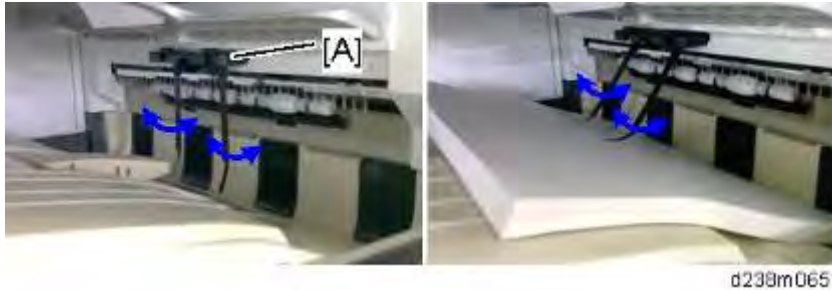


11. Do not use the lever supplied with the optional unit. Doing so may affect the stacking function.
12. Turn ON the main power.
13. Check that paper output to the shift tray can be selected at the operation panel, and check the operation.

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



Paper will get jammed in the following cases.

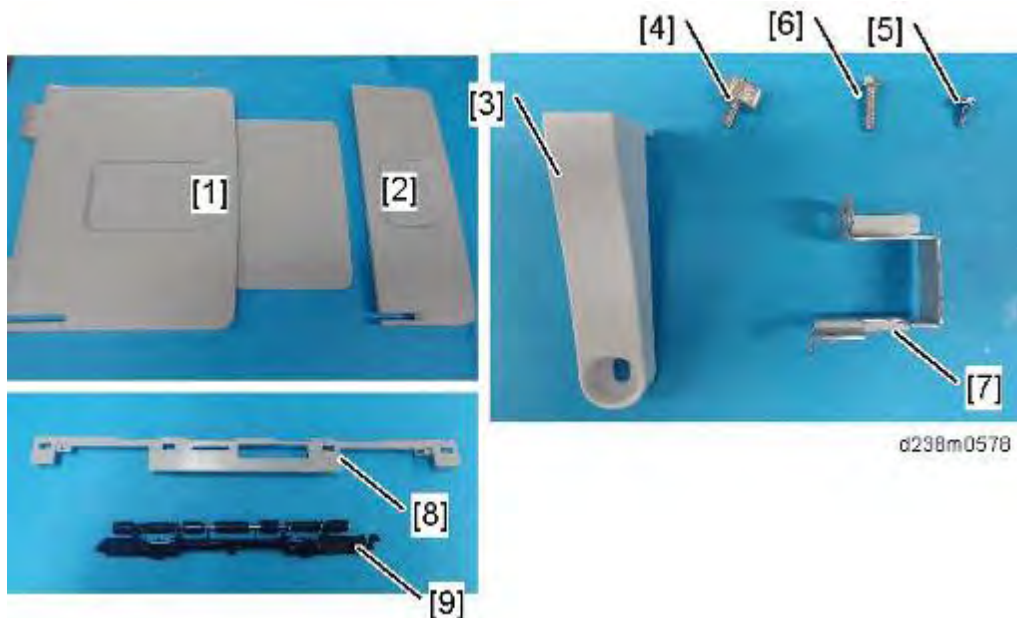
- The paper exit feeler does not function due to obstacles (such as cables).
- The paper exit feeler does not function when the paper is pulled out and pushed back again.



2.15 SIDE TRAY TYPE M3 (D725)

2.15.1 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 - M4 x 14	1	
6	Tapping screw - M3 x 8	1	
7	Bracket	1	
8	Paper Support Guide	1	
9	Driven Roller (Flat)	1	



2.15.2 INSTALLATION PROCEDURE

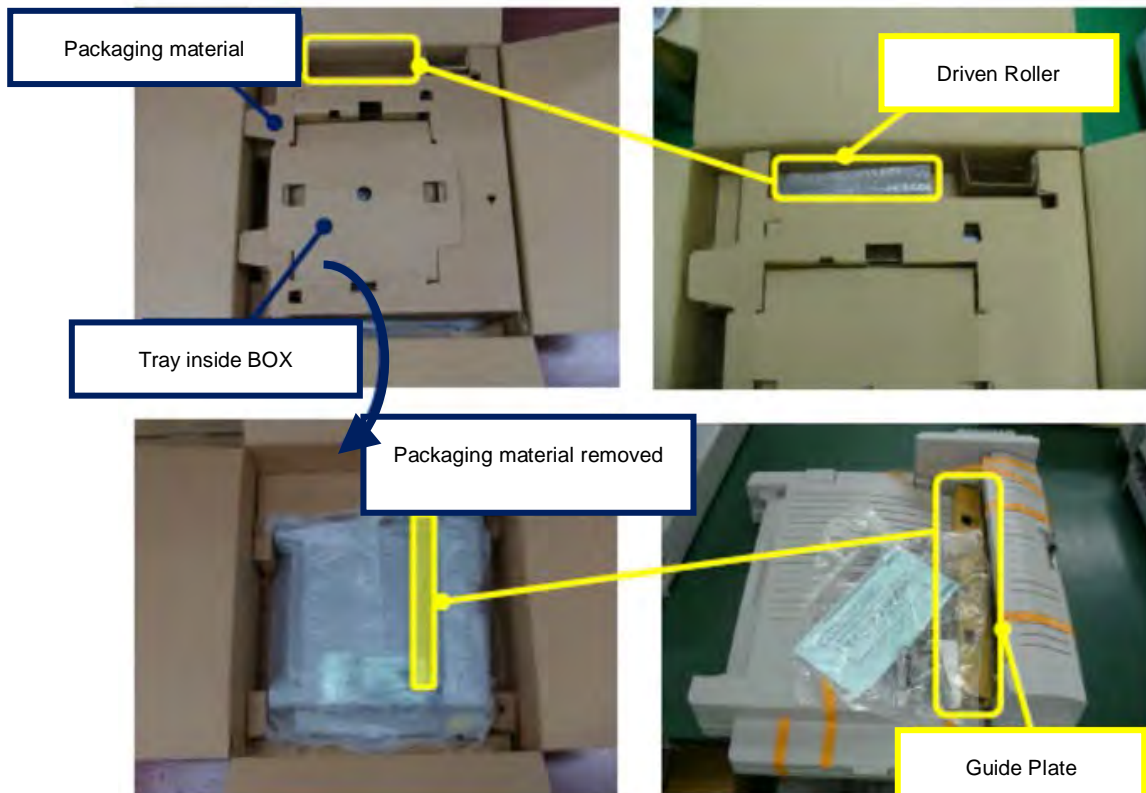
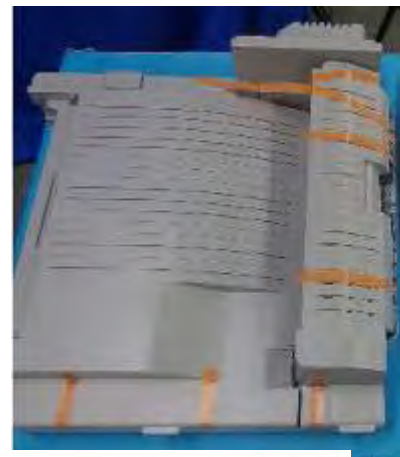
⚠ CAUTION

- 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.

📌 Note

- 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)
 - Internal Finisher SR 3130 (D690)
- 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.).



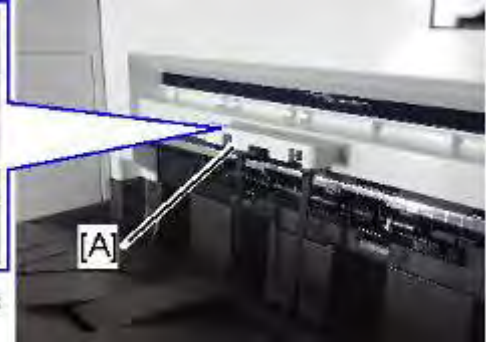
2. Remove the paper exit tray [A].



3. Remove the paper exit feeler [A].



d238m0558



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



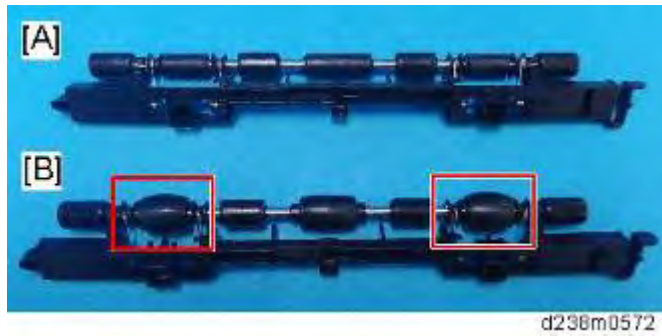
5. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- 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.



d238m0571b





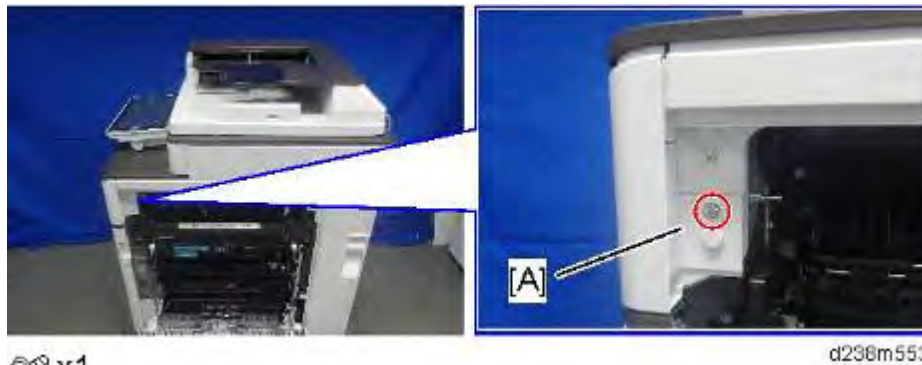
[A]: The supplied driven roller has flat rollers.

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

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





7. Open the right door, and then remove the small cover [A].



 x1

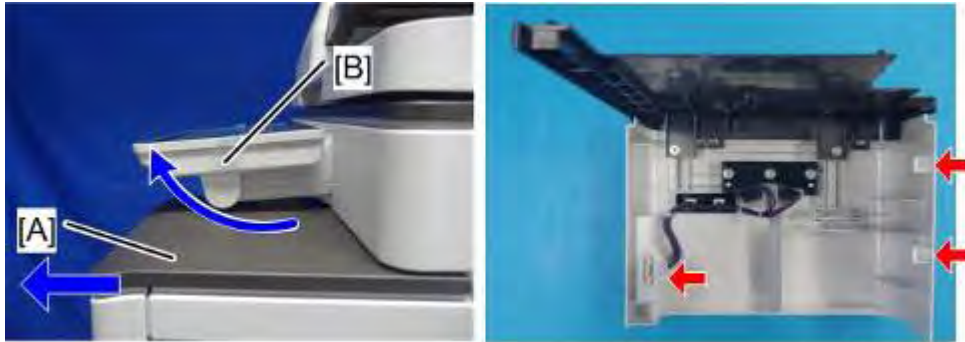
8. Remove the proximity sensor cover [A].



 x1,  x1

Note

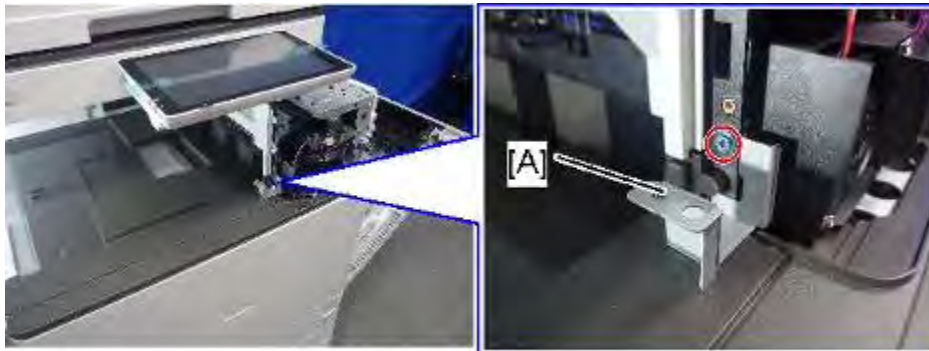
- Remember that there are three tabs at the positions of the red arrows.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the proximity sensor cover [A].



d238m555

Installation

9. Attach the bracket [A].



x1

d238m0556

10. Remove the connector cover [A].



d1462470

11. Attach the bracket [A].



12. Reattach the proximity sensor cover, and close the right door.

13. Attach the side tray unit [A] to the machine, and fix with a knob screw.



14. Attach the fixing plate [A] ( x1).



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

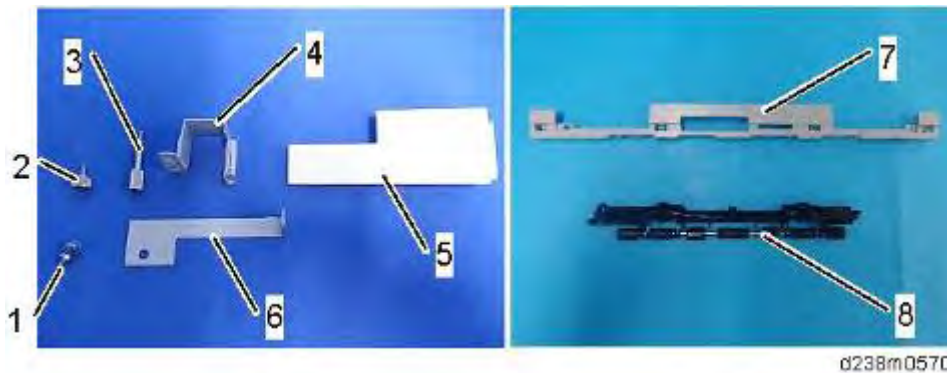


16. Turn ON the main power.
17. Check that paper output to the side tray can be selected at the operation panel, and check the operation.

2.16 BRIDGE UNIT BU3070 (D685)

2.16.1 ACCESSORY CHECK

No.	Description	Q'ty
1	Tapping screw- M3 x 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



d238m0570

⇒ **Note**

- The Guide Plate is contained inside a long, thin cardboard box inside the machine box. It may look like empty cardboard boxes, **so make sure NOT to dispose of it.**



Guide Plate, inside machine box

2.16.2 INSTALLATION PROCEDURE

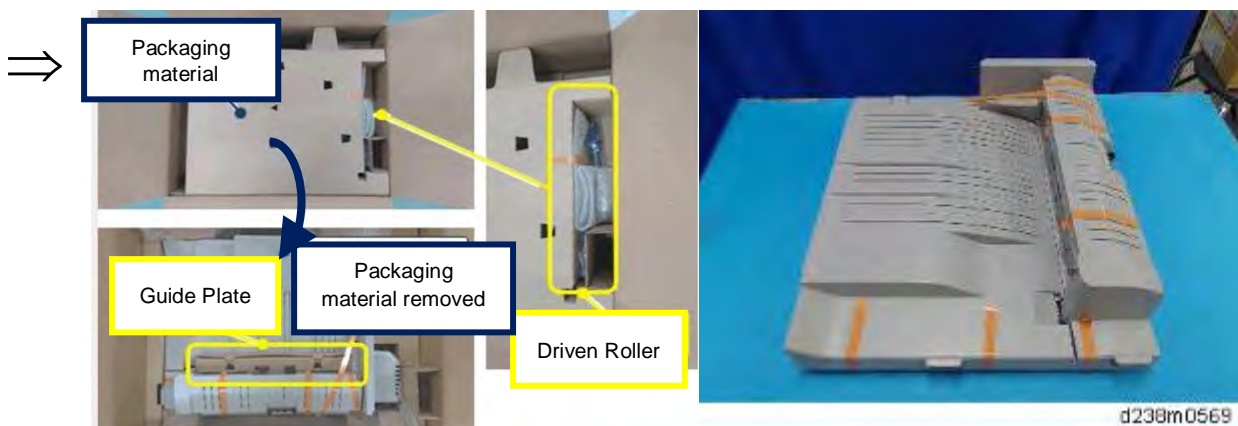
⚠ CAUTION

- 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.

📌 Note

- 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)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", attach the "1 Bin Tray BN3110 (D3CQ)" first before installing the bridge unit.

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



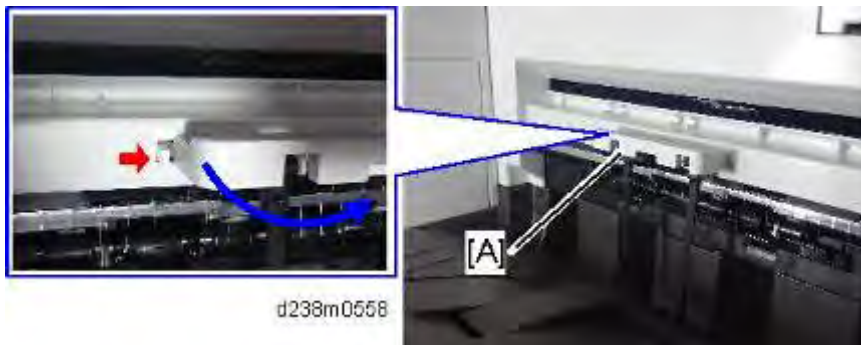
2. Remove the paper exit tray [A].



3. Remove the connector cover [A].



4. Remove the paper exit feeler [A].

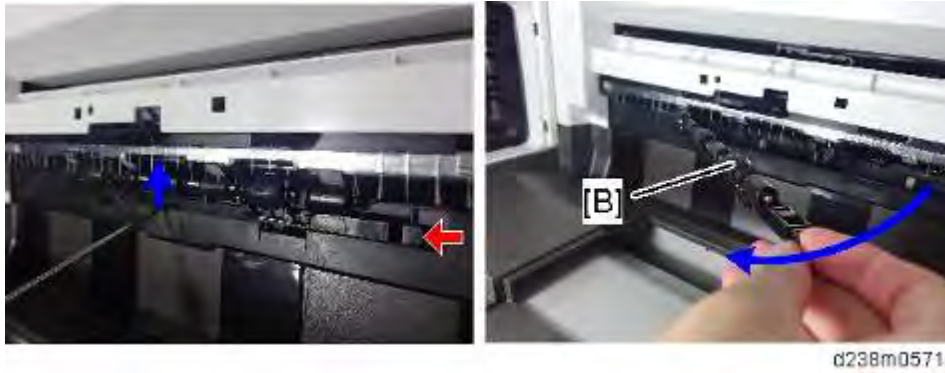


5. Tuck in the lever [A] for detecting when the tray is full.

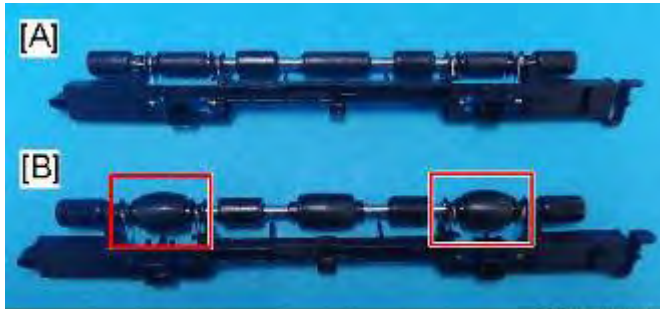


6. Remove the driven roller [B] at the machine's exit tray and attach the supplied driven roller [A].

- 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.



d238m0571



d238m0572

[A]: The supplied driven roller has flat rollers.

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

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



d238m0573b



8. Open the front cover.

9. Remove the upper left cover [A] (⚙️ x1).

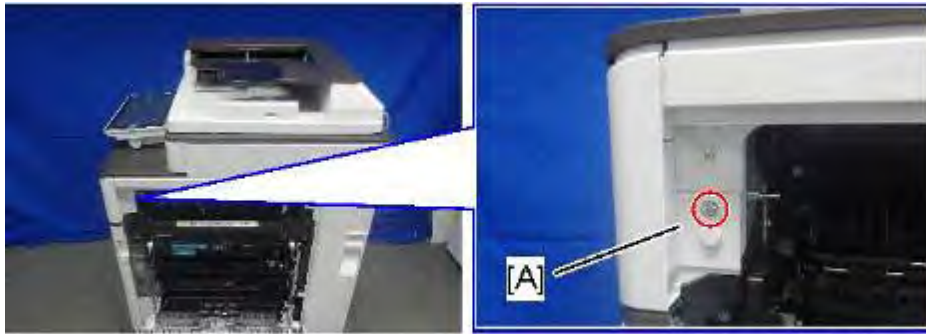
Note

- The screw removed is used again in step 16.



d1462008

10. Open the right door, and then remove the small cover [A].





d238m553

 x1

11. Remove the proximity sensor cover [A].



d238m554

 x1,  x1

 Note

- Remember that there are three tabs at the positions of the red arrows.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the proximity sensor cover [A].



d238m555

12. Attach the right front bracket [A].

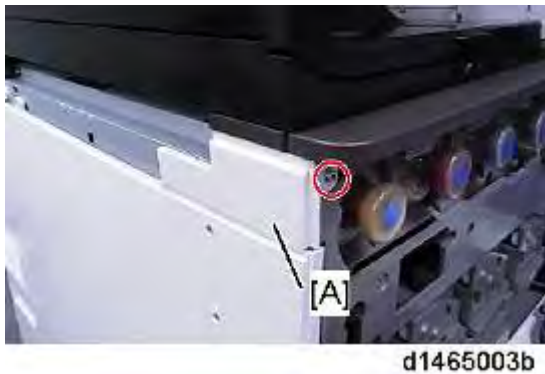


13. Attach the bridge unit [A] to the machine.



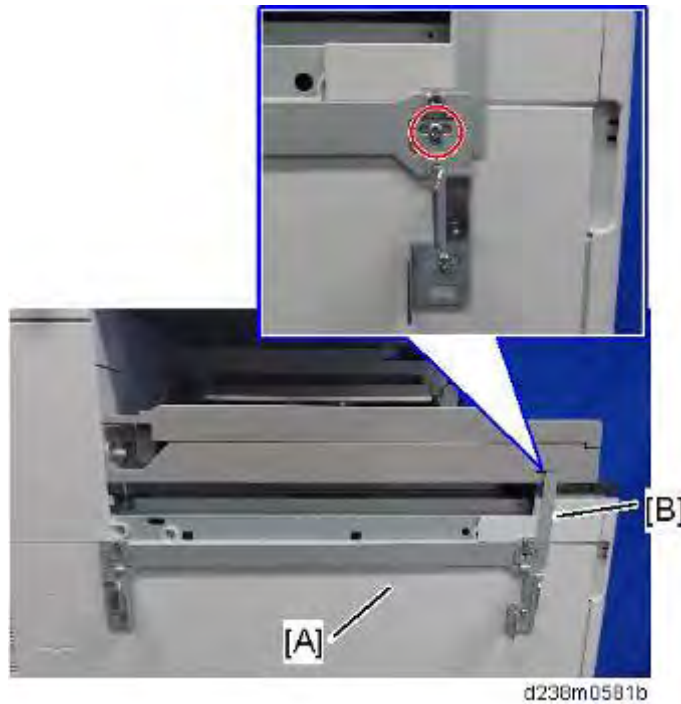
14. Attach the proximity sensor cover, and close the right door.

15. Attach the upper left cover [A] provided with the accessories (🔩 x1).



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

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



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

- Booklet Finisher SR3240 (D3BB) (page 2-155)
- Finisher SR3230 (D3BA) (page 2-155)
- Booklet Finisher SR3220 (D3B9) (page 2-179)
- Finisher SR3210 (D3B8) (page 2-187)

18. After the finisher is installed, turn ON the main power.

19. Check that the finisher can be selected at the operation panel.

2.17 BOOKLET FINISHER SR3240 (D3BB)/FINISHER SR3230 (D3BA)

★ Important

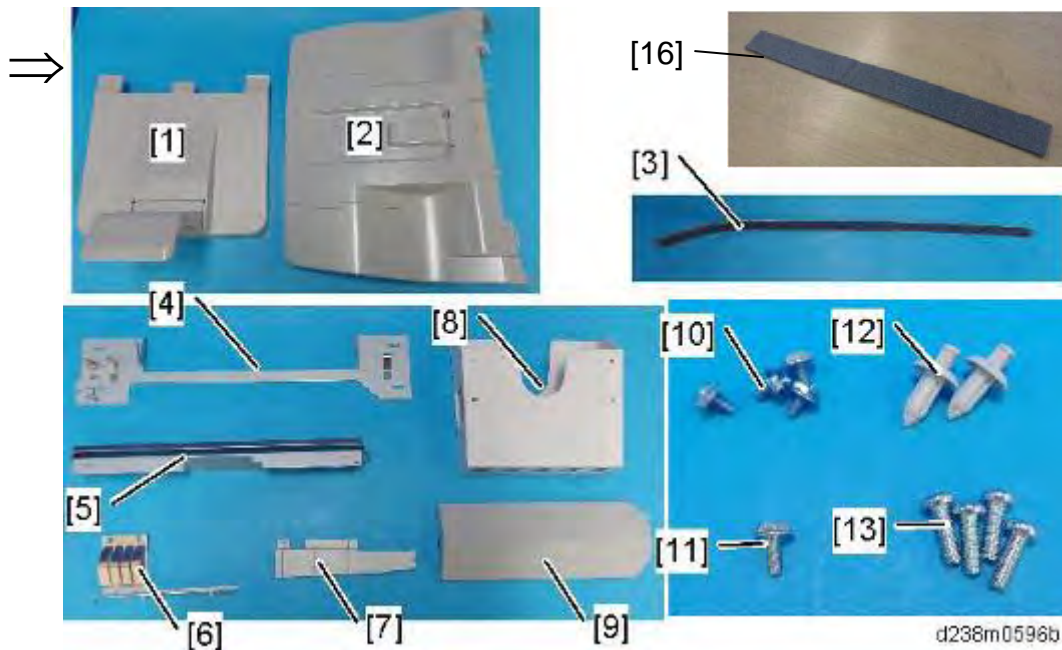
- To attach this optional unit, the following optional units are required.
 - Bridge Unit BU3070 (D685)
 - LCIT PB3170/PB3230 (D695) or Paper Feed Unit PB3160 (D693)

2.17.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Booklet Tray	1	Booklet Finisher SR3240 only
2	Shift Tray 2	1	
3	Cushion	1	
4	Joint Bracket	1	
5	Relay 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	
14	Proof Support Tray	1	Internal multi-fold unit of other models only
15	Shift Tray Support Tray	1	Internal multi-fold unit of other models only
⇒ 16	Saddle Stapler Unit Cushion	1	Booklet Finisher SR3240 only

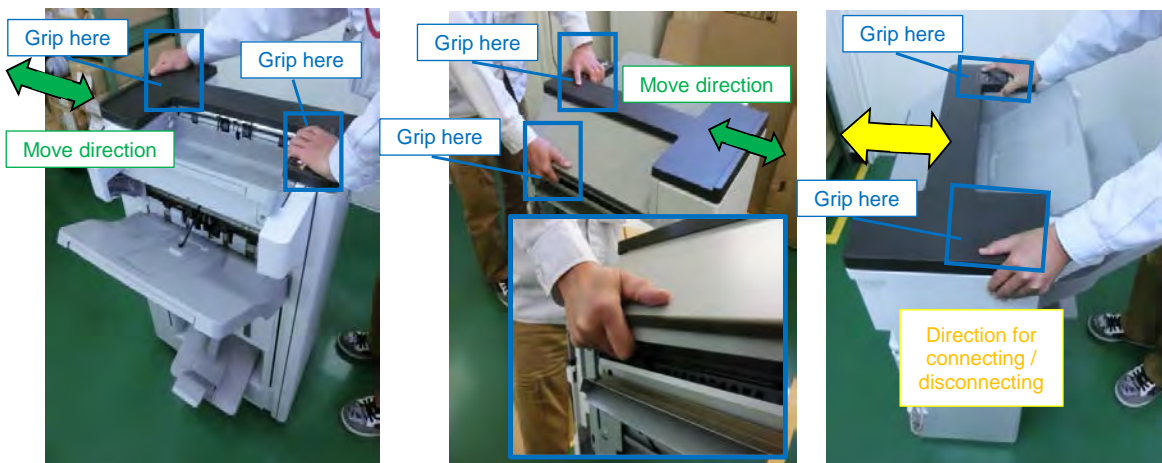
NOTE: Accessories No. 14 and 15 are included only in 1st mass production units.

NOTE: When installing the **Booklet Finisher SR3240** on a fragile surface (e.g., any kind of coated, metallic, tile, stone, or wooden floor or flooring), make sure to **attach a cushion sheet (16) to the bottom of the support stands** of the saddle stitch unit.



2.17.2 MOVING THE FINISHER

- As a general rule for moving the finisher, move it from the front to the rear of the machine as indicated with the arrows in green, by gripping the positions outlined in blue in the photo below.
- Make sure to grip both front and back of the finisher at the top to prevent the unit from tipping over.
- When connecting or disconnecting the finisher to or from the main frame, slightly move it in the direction indicated with the yellow arrow.



Note

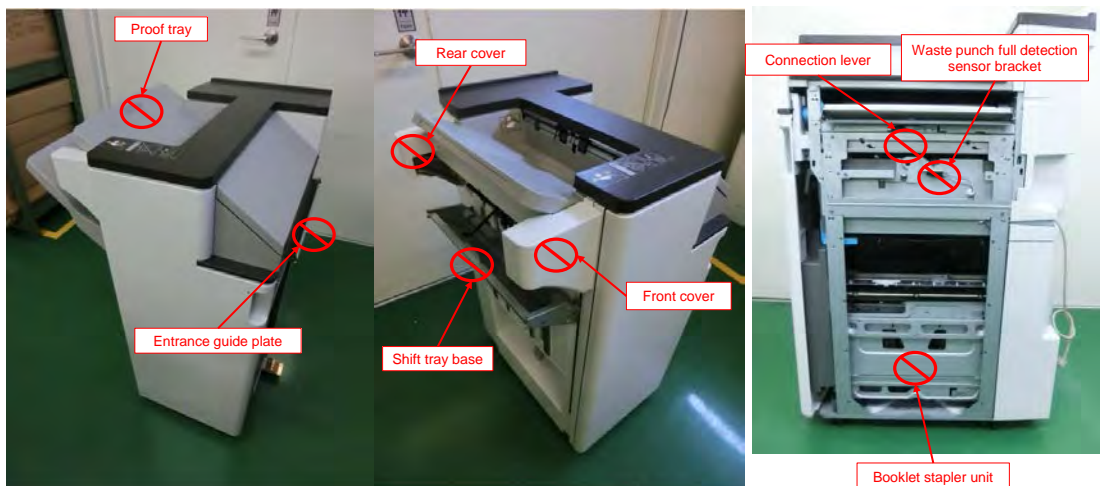
When the finisher has to be lifted up, for instance, when moving it over an object on the ground, hold the bottom frame. **DO NOT** hold the ground plate.



Installation

Do not grip the following locations when moving the finisher:

- Proof tray
- Entrance guide plate
- Front and rear covers
- Shift tray base
- Connection lever
- Waste punch full detection sensor bracket
- Booklet stapler unit (SR3240 only)



SM

2-157

D238/D239/D240/D241/D242/
D0AC/D0AD/D0AE/D0AF/D0AG

2.17.3 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

📌 Note

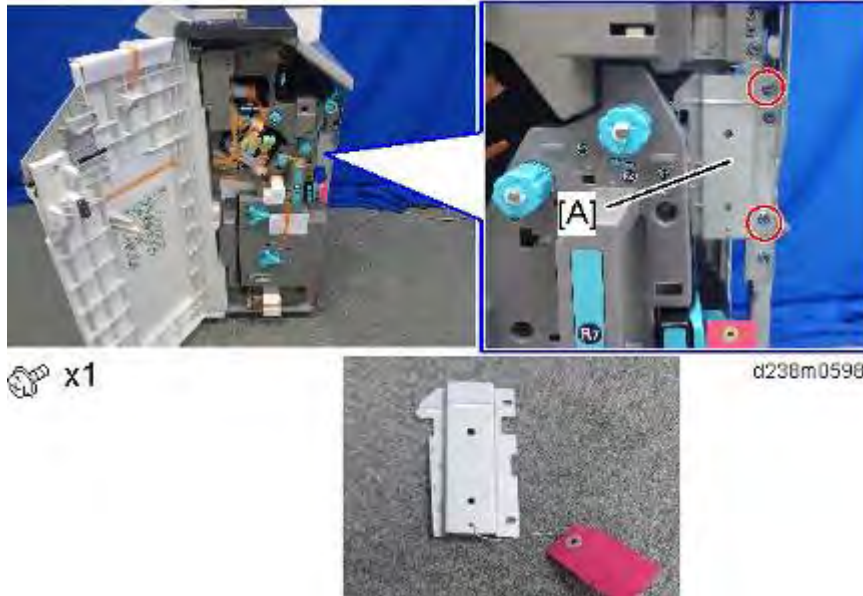
- Before installing this option, attach the "Bridge Unit BU3070 (D685)" first.
- Attach the "LCIT PB3170/PB3230 (D695)" or "Paper Feed Unit PB3160 (D693)" first before installing this option.

⇒ 1. Remove the external orange tape and shipping retainers.

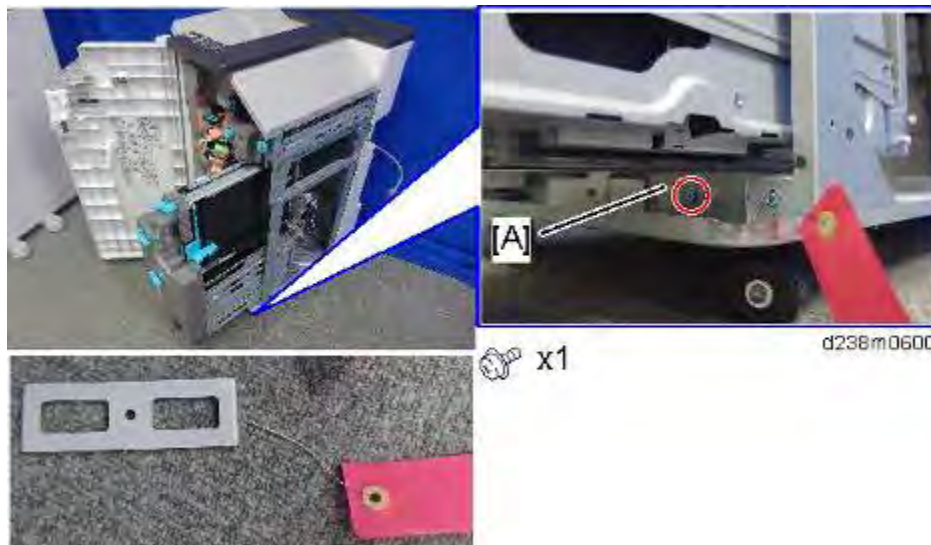


2. Open the front cover, and remove the orange tapes, shipping retainers and fixing bracket [A].

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.

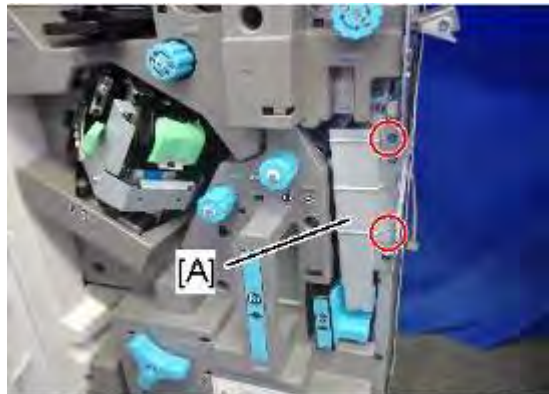


3. Pull out the saddle stitch unit and remove the fixing bracket [A] at the lower part of the finisher.



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.




 x2

d238m0759

5. Pull out the saddle stitch unit [A] again, and remove the orange tape and shipping retainers (Booklet Finisher SR3240 only).



6. Remove the accessories in the package (fixing screws, etc.).
7. Attach the shift tray [A] ( x1:3x8).



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

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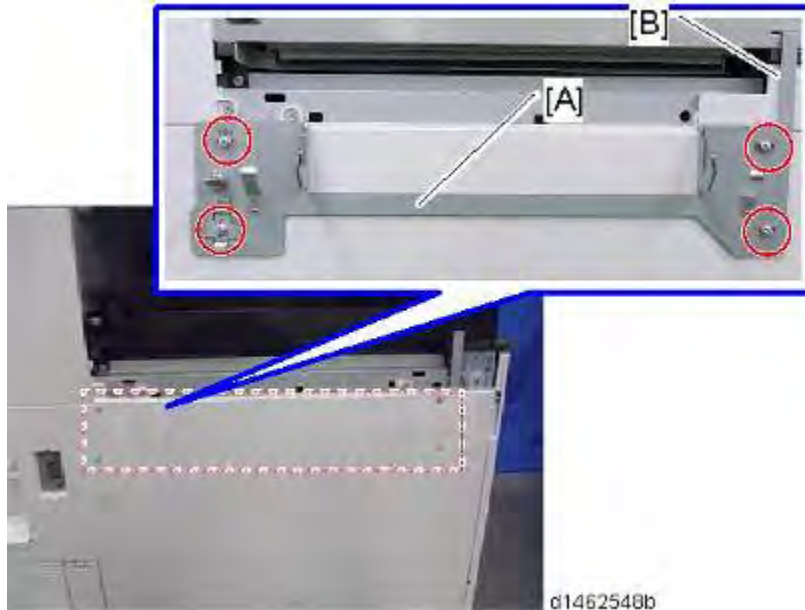
9. Attach the relay guide plate [A] (⚙️ x2: 3x6).



10. Attach the ground plate [A] (⚙️ x2: 3x6).



11. Attach the joint bracket [A] to the machine (screws: 4x10).
Tighten the joint bracket [A] and bracket [B] of the bridge unit together.



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



 x1

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



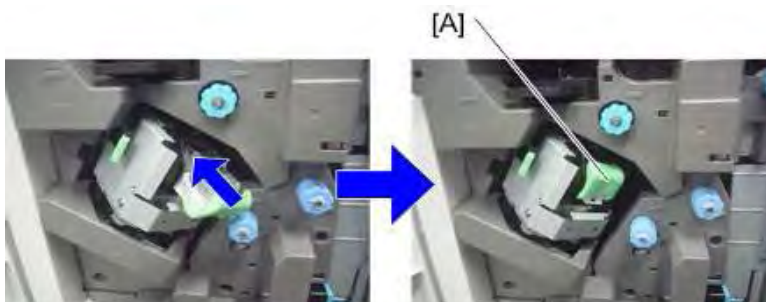
 x1

Rev. 11/22/2016

15. Connect the interface cable to the machine.



16. Set the staple cartridge [A].



17. Attach the tray holder ( x2).



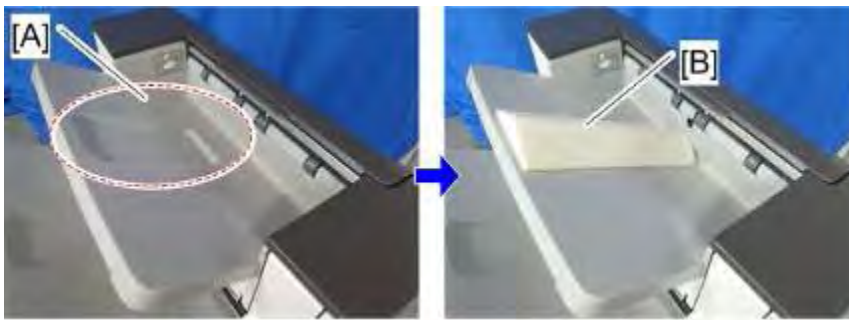
18. Close the front cover.
19. Turn ON the main power.
20. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper (page 6-340).
21. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

Attaching the Proof Support Tray

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



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



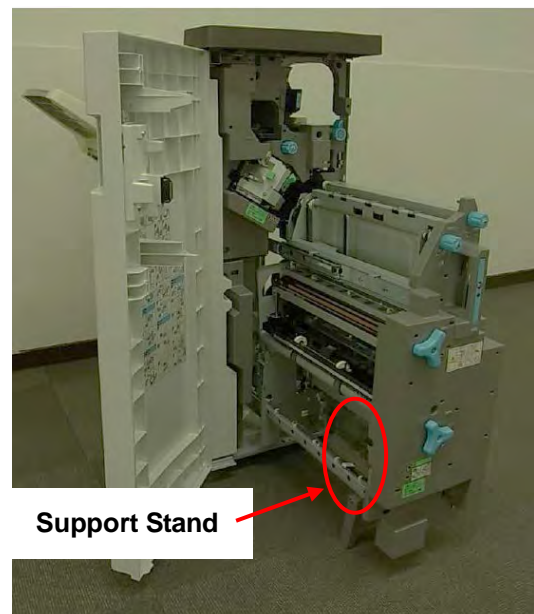
Problem that may occur after attaching this support tray:

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.

⇒ ***Attaching the Saddle Stapler Unit Cushion***

This is to avoid damaging the surface on which the finished installed, which can happen when the saddle stitch unit is opened. When the unit is opened, the edge of the support stand can sometimes scratch the installation surface.

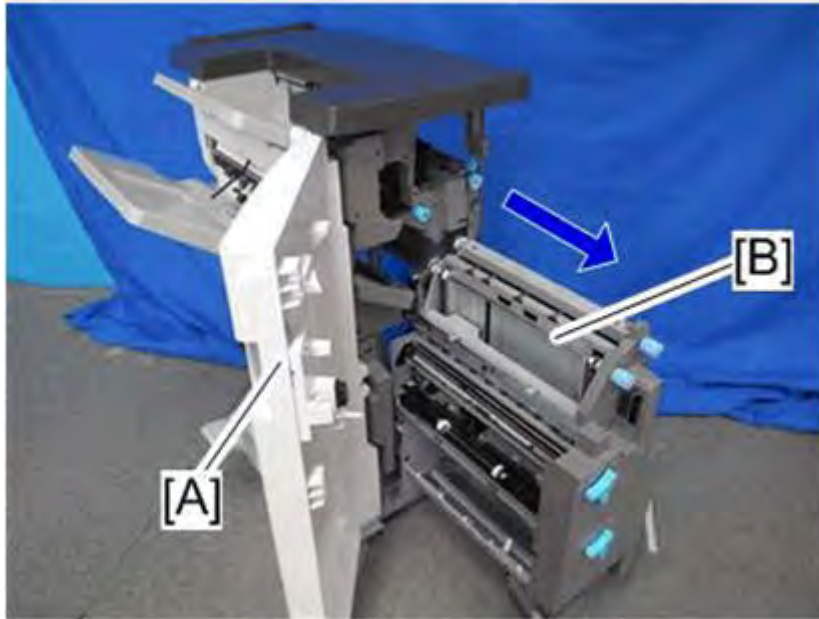


★ Important

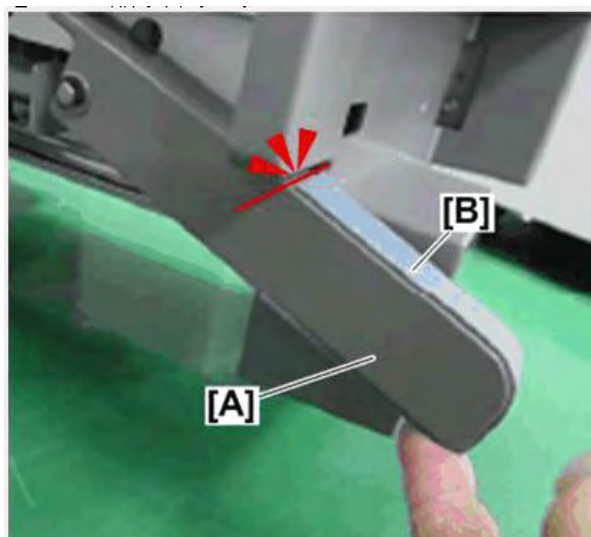
- DO NOT attach the cushion if you are installing the finisher on a carpeted or cushioned floor. This is because the friction between this surface and the support stand (which happens over time as the unit is opened/closed) will expose the adhesive surface of the cushion.

⇒ Saddle Stapler Unit Cushion Installation Procedure

1. Open the Front Cover [A] and pull out the Saddle Stitch Unit [B].



2. Lift up the Support Stand [A] of the Saddle Stitch Unit, and push against the upper part. Then, attach the Cushion Sheet [B] while aligning the edge to the upper part.



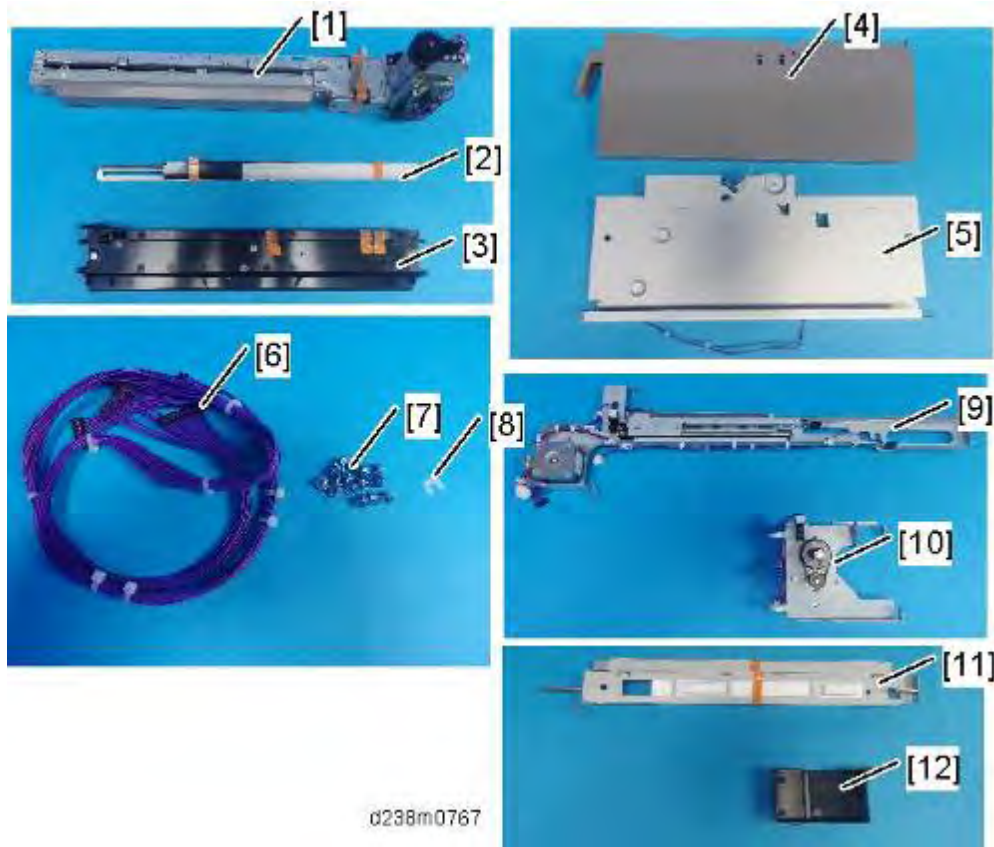
2.18 PUNCH UNIT PU3060 (D706)

↓ Note

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

2.18.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Punch Unit	1	
2	Registration Guide Plate	1	
3	Punch Waste Paper Guide	1	
4	Hopper	1	
5	Hopper Bracket	1	
6	Harness	1	
7	Tapping Screw- M3x6	14	
8	Clip Ring	1	
9	Side-to-side Detection Unit	1	
10	Punch Unit Movement Motor Unit	1	
11	Punch Unit Stay	1	
12	Cover	1	



2.18.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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] (x2)

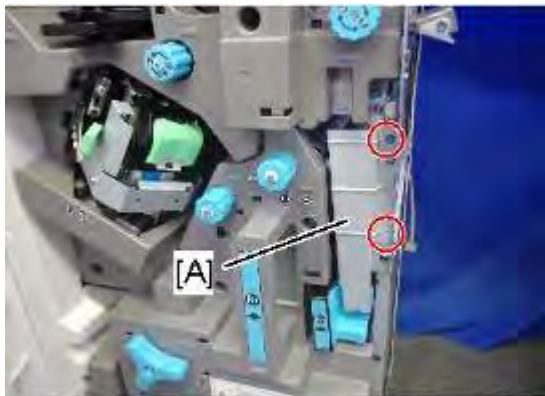


2. Remove the rear lower cover [A] (x2)



d7060012

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



d238m0759

x2

- Remove the inner cover [A] (x3, x1)

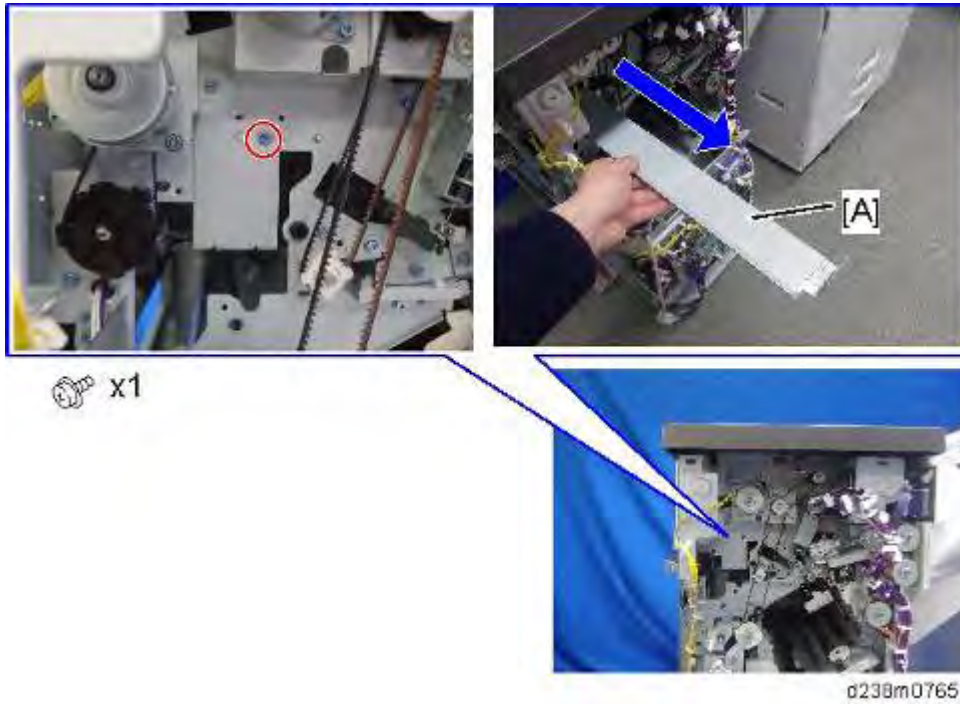
Note

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

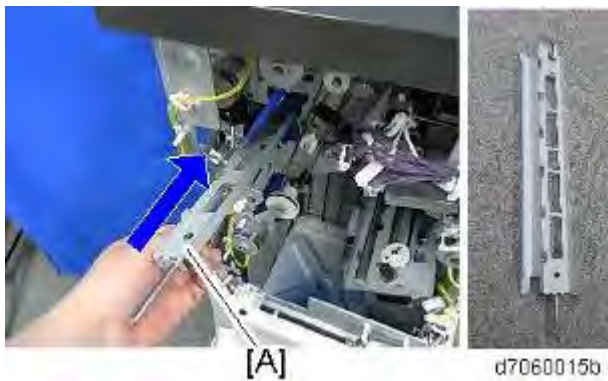


d7060013

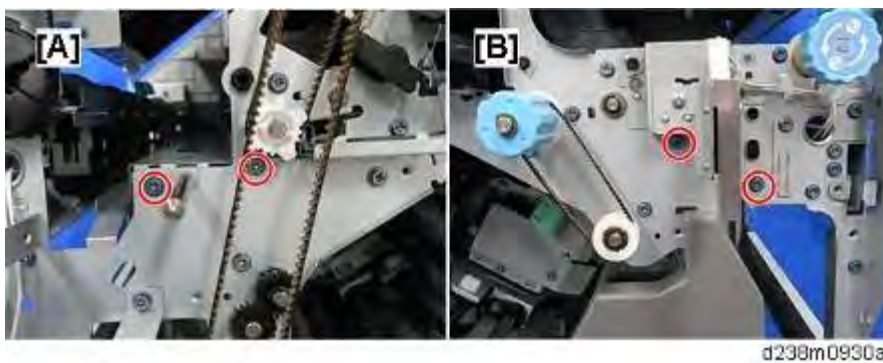
5. Remove the punch guide plate [A].



6. Attach the punch unit stay [A] (x4).



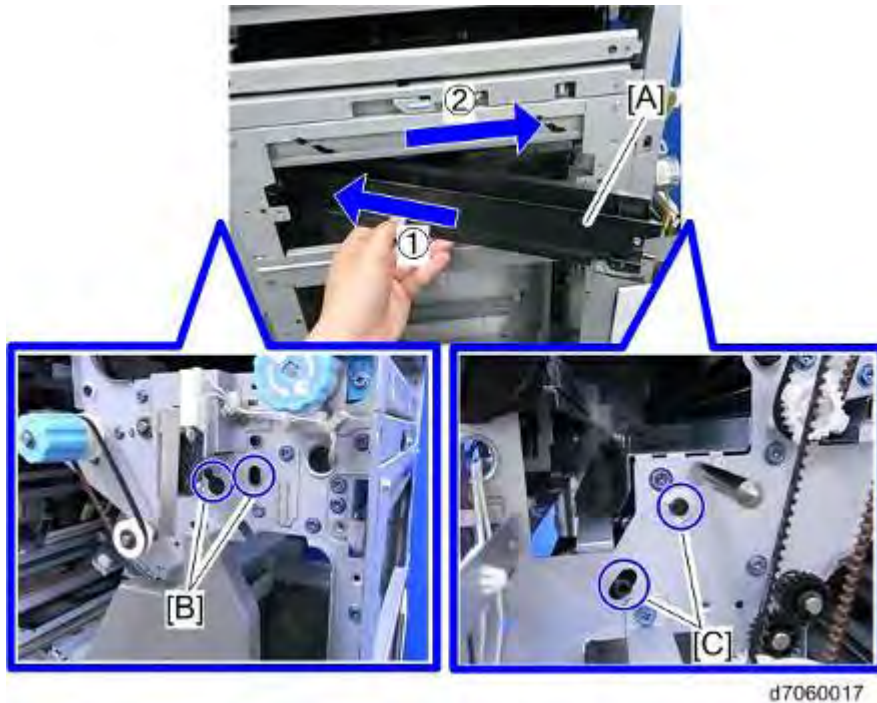
[A]: Rear, [B]: Front



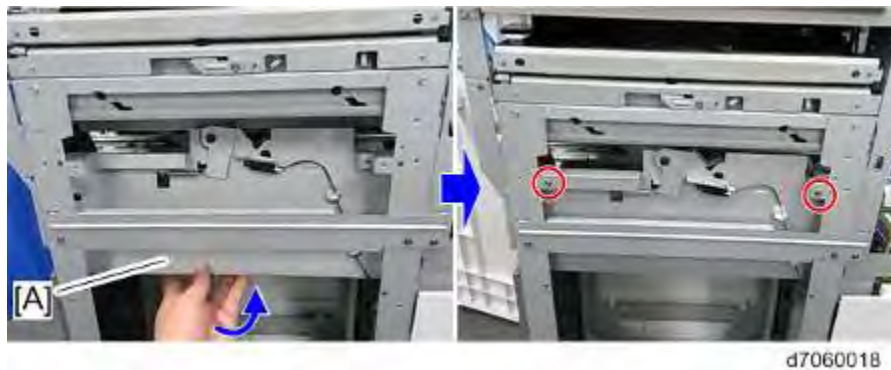
7. Attach the punch waste paper guide [A] (1x1).

↓ Note

- 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].



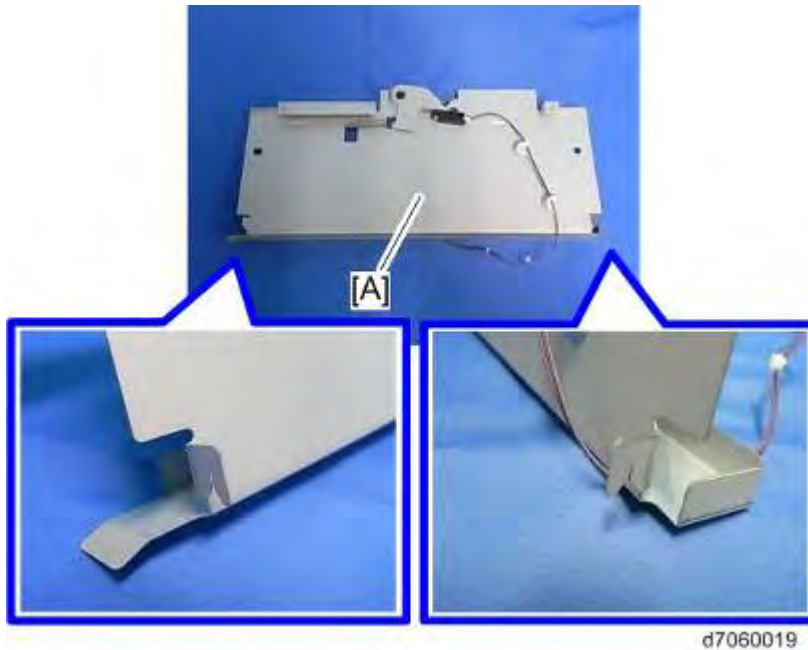
8. Attach the hopper bracket [A], inserting from the outside frame of the finisher. (1x2, 2 hooks)



↓ Note

- Hook the hooks of the hopper bracket onto the back side of the frame.

Punch Unit PU3060 (D706)



d7060019



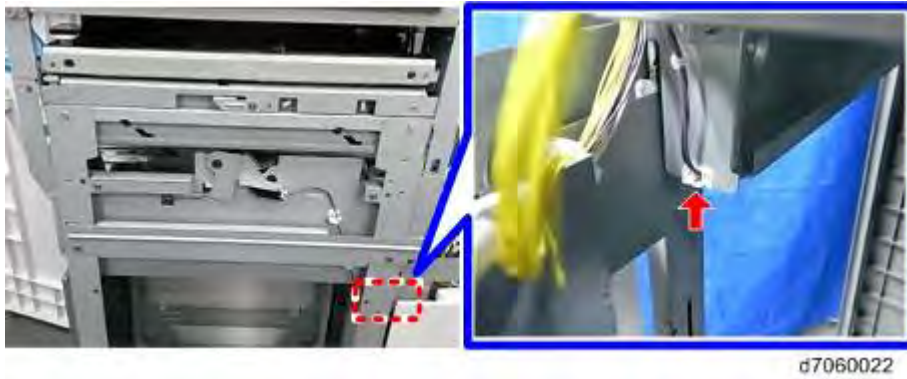
d7060020

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

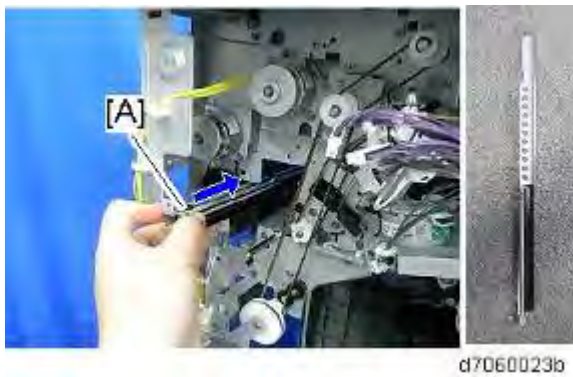


d7060021

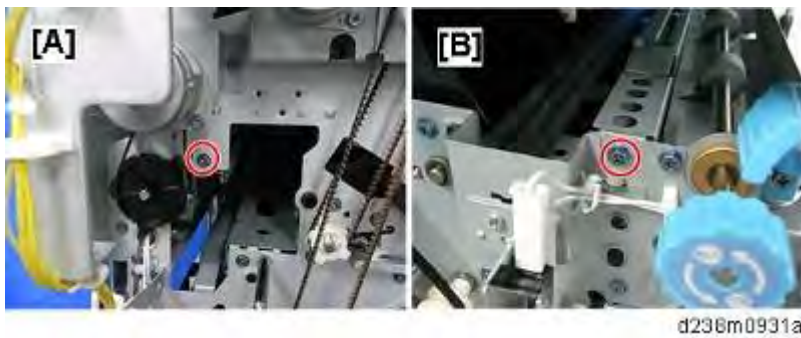
9. Fix the harness of the hopper sensor. ( x1)



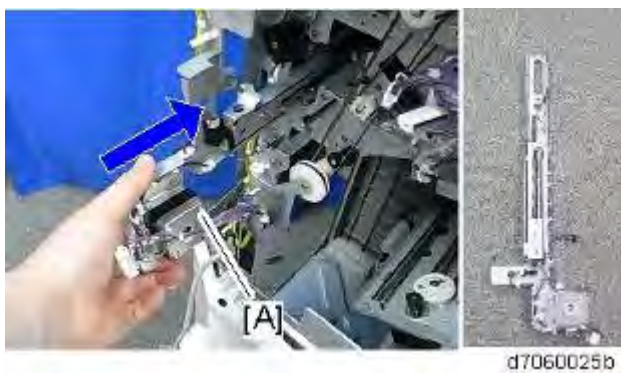
10. Attach the registration guide plate [A]. ( x2)

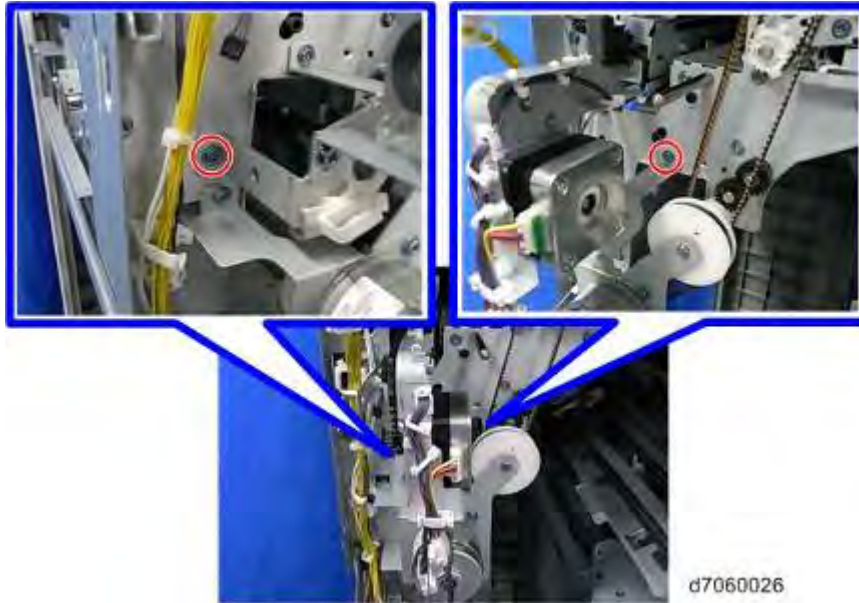


[A]: Rear, [B]: Front



11. Attach the side-to-side detection unit [A]. ( x2)





Note

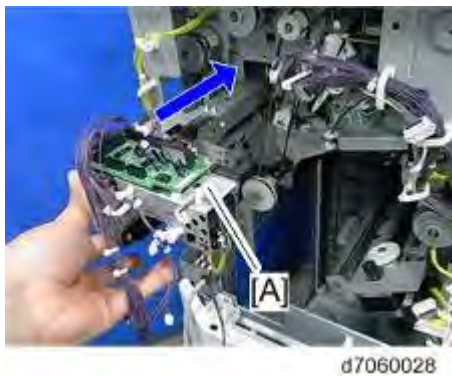
- Insert the front pins of the side-to-side detection unit into the holes of the frame.



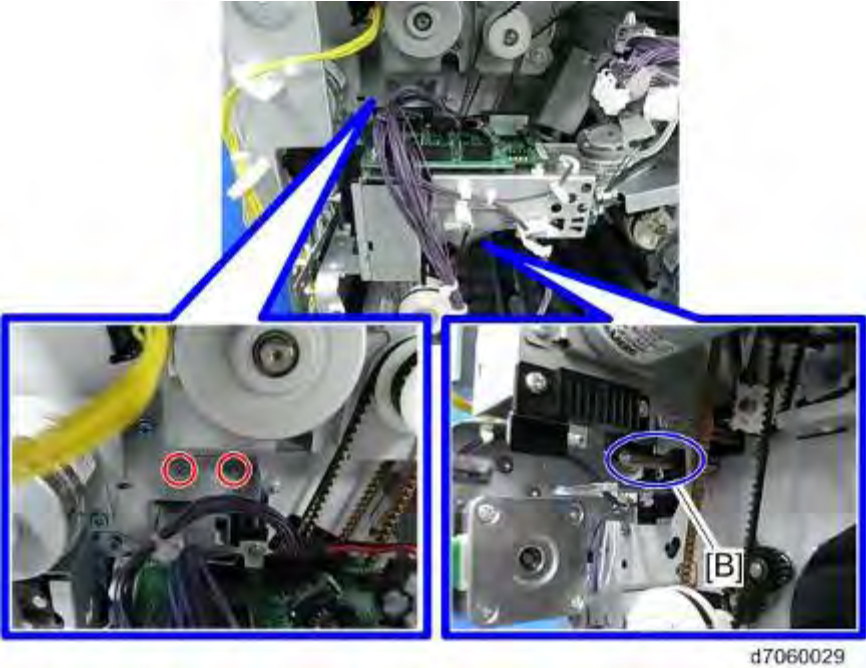
12. Attach the punch unit [A]. ( x2)

Note

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



- Rear



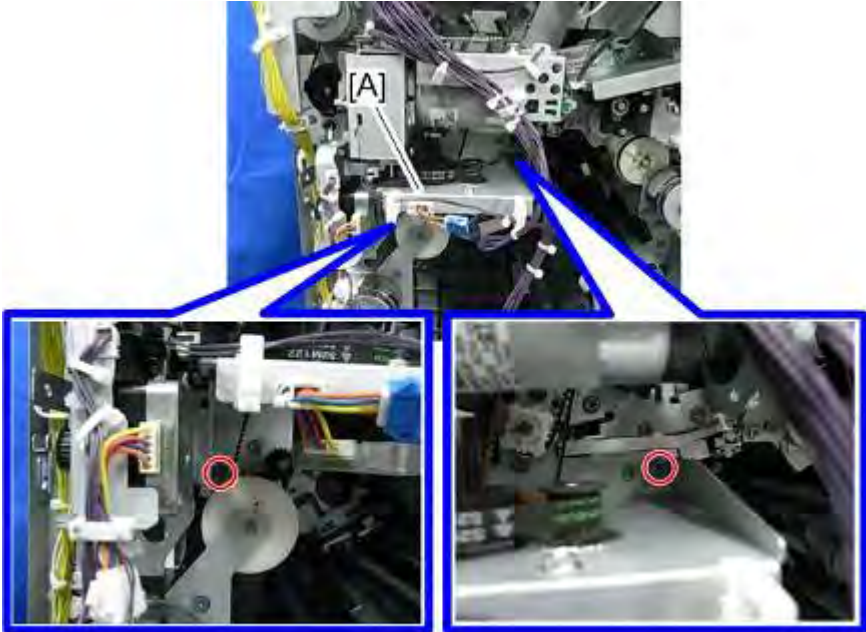
d7060029

- Front



d7060030

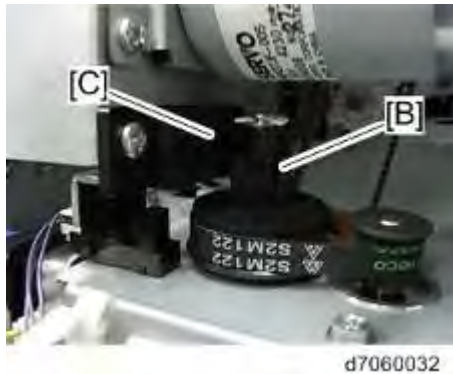
13. Attach the punch unit movement motor unit [A]. ( x2)



d7060031

↓ Note

- 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.



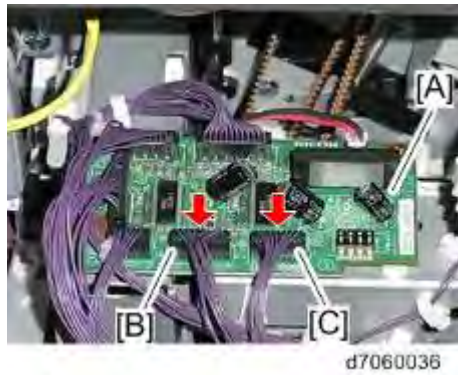
15. Connect the harness of the punch unit to the connector of the registration drive unit.



16. Connect the harness of the punch unit to the main board, and then clamp it. ( x2,  x2)



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



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



19. Fix all the harnesses of the punch unit PU3060. ( x8)



20. Attach the hopper [A].



d7060038

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

2.19 BOOKLET FINISHER SR3220 (D3B9)

★ Important

- To attach this optional unit, the following optional units are required.
 - Bridge Unit BU3070 (D685)
 - LCIT PB3170/PB3230 (D695) or Paper Feed Unit PB3160 (D693)

2.19.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Shift Tray	1	
2	Booklet Tray	1	
3	Joint Bracket	1	
4	Relay Guide Plate	1	
5	Cushion	1	
6	Tapping screws - M3 x 6	4	
7	Tapping screw - M4 x 8	1	
8	Screws - M4 x 12	4	
9	Ground Plate	1	
10	Proof Support Tray	1	



2.19.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

⬇ Note

- Before installing this option, attach the "Bridge Unit BU3070 (D685)" first.
- Attach the "LCIT PB3170/PB3230 (D695)" or "Paper Feed Unit PB3160 (D693)" first before installing this option.

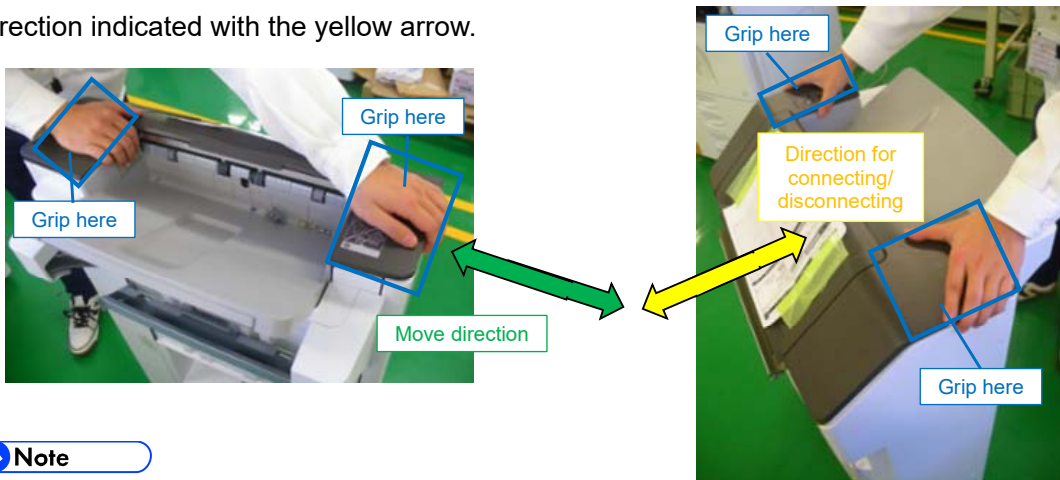
★ Important

- ⇒
 - The following is important information when moving the finisher.

As a general rule for moving the finisher, move it from the front to the rear of the machine as indicated with the arrows in green, by gripping the positions outlined in blue in the photo below.

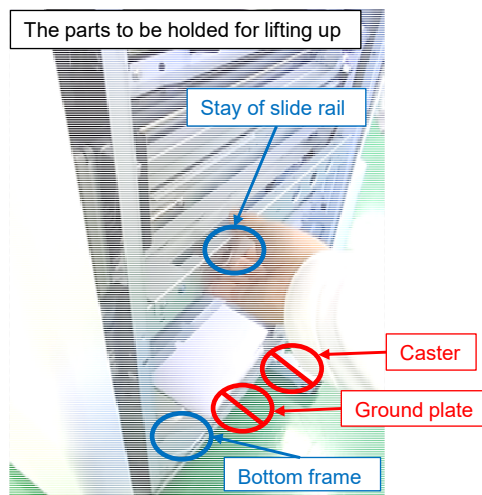
Make sure to grip both front and back of the finisher at the top to prevent the unit from tipping over.

When connecting or disconnecting the finisher to or from the main frame, slightly move it in the direction indicated with the yellow arrow.



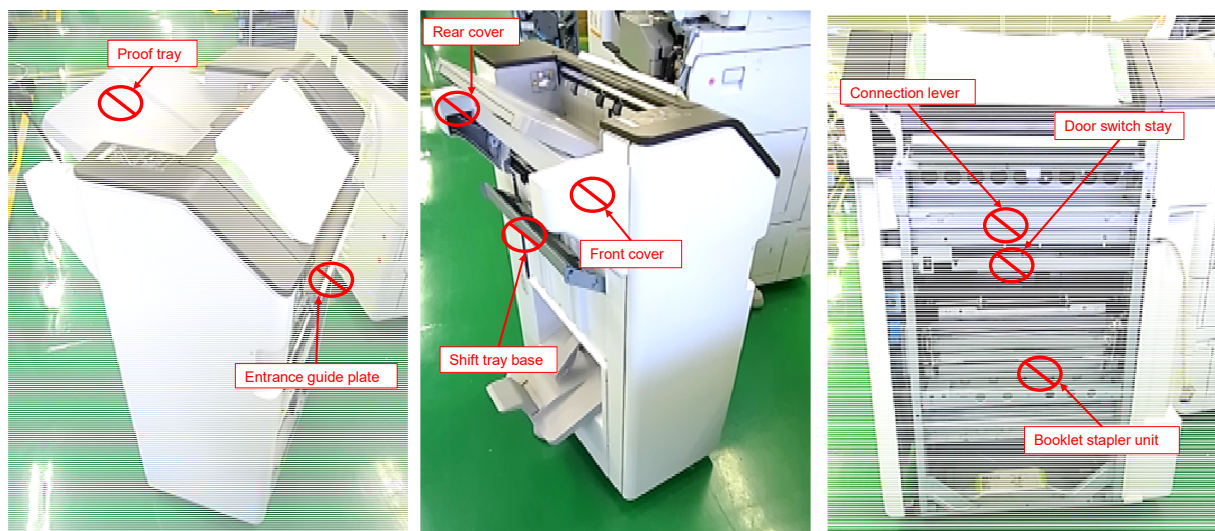
⬇ Note

- When the finisher has to be lifted up, for instance, when moving it over an object on the ground, hold the stay of the slide rail or the bottom frame. DO NOT hold the ground plate or caster.



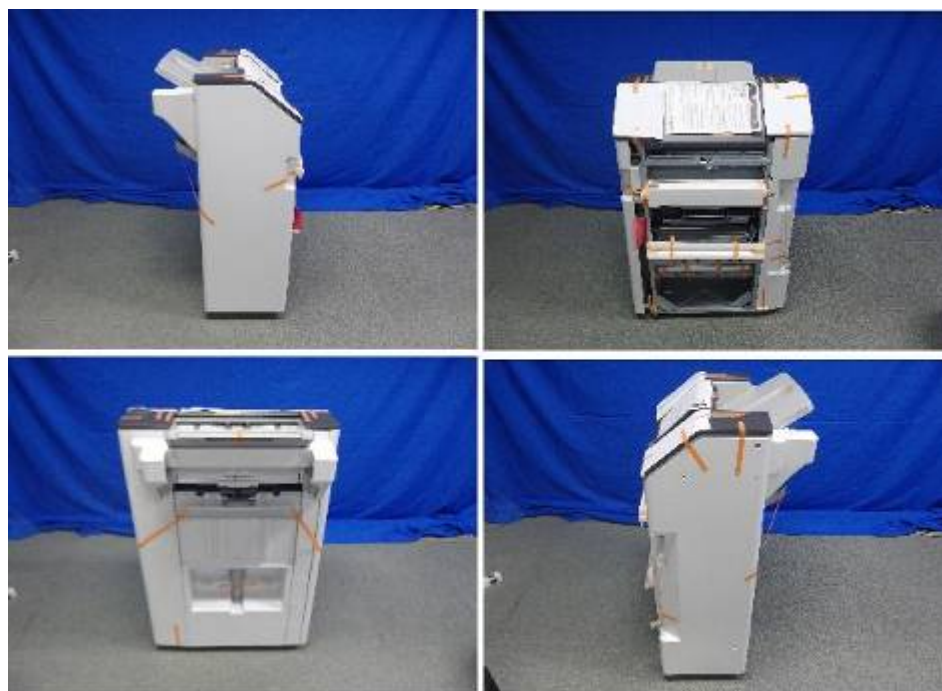
⇒ Do not grip the following locations when moving the finisher:

- Proof tray
- Entrance guide plate
- Front and rear covers
- Shift Tray base
- Connection lever
- Door switch stay
- Booklet stapler unit



Installation

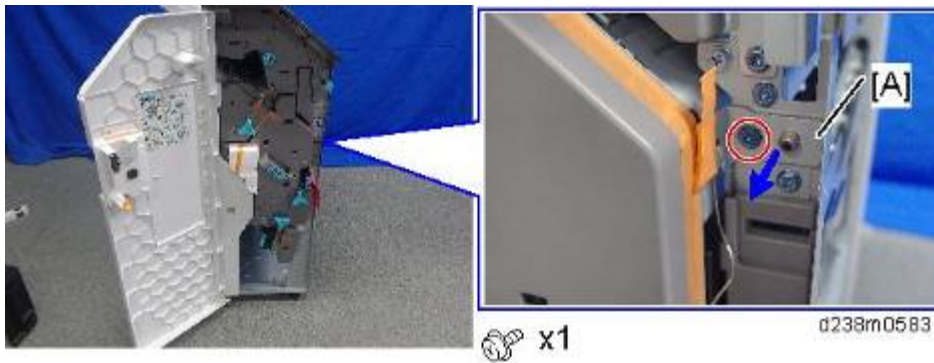
1. Remove the external orange tape and shipping retainers.



d238m0584

2. Open the front cover, and then remove the filament tape and packing materials.

3. Remove the fixing bracket [A].



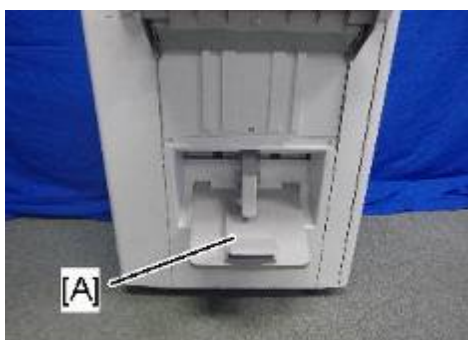
4. Pull out the saddle stitch unit [A], and remove the filament tape and packing materials.



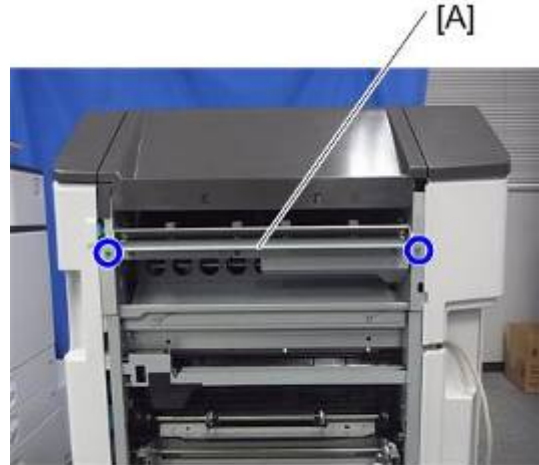
5. Remove the accessories in the package (fixing screws, etc.).
6. Attach the shift tray [A] (🔩 x1 : M4 x 8).



7. Attach the booklet tray [A].

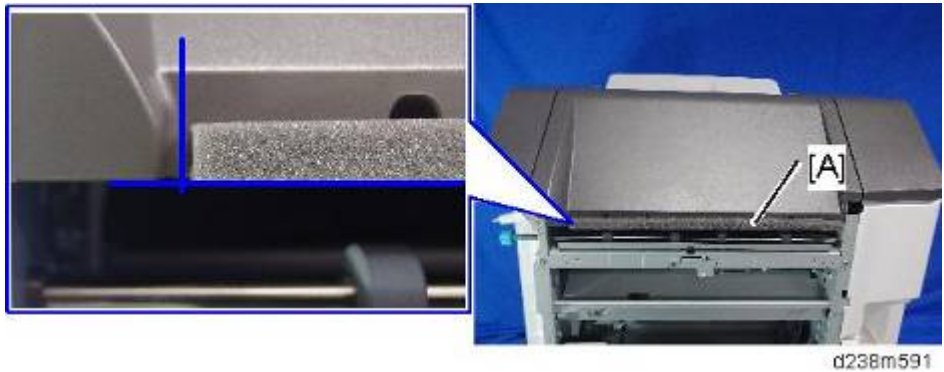


8. Attach the relay guide plate [A] (🔩×2).



9. 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 front-lower edge [A] of the upper cover.



d238m591

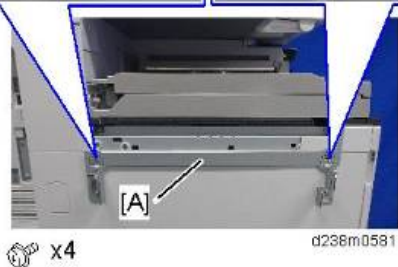
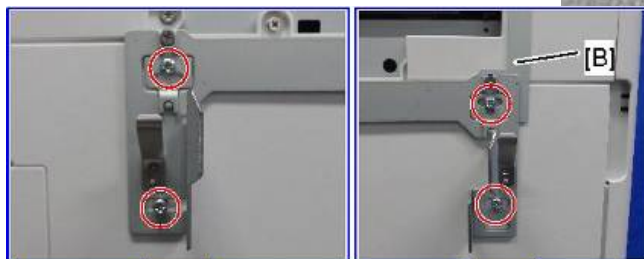
10. Attach the ground plate [A] (🔩×2). ⇒

11. Attach the joint bracket [A] to the machine (🔩×4 : 4x12). ↓

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



d1462532

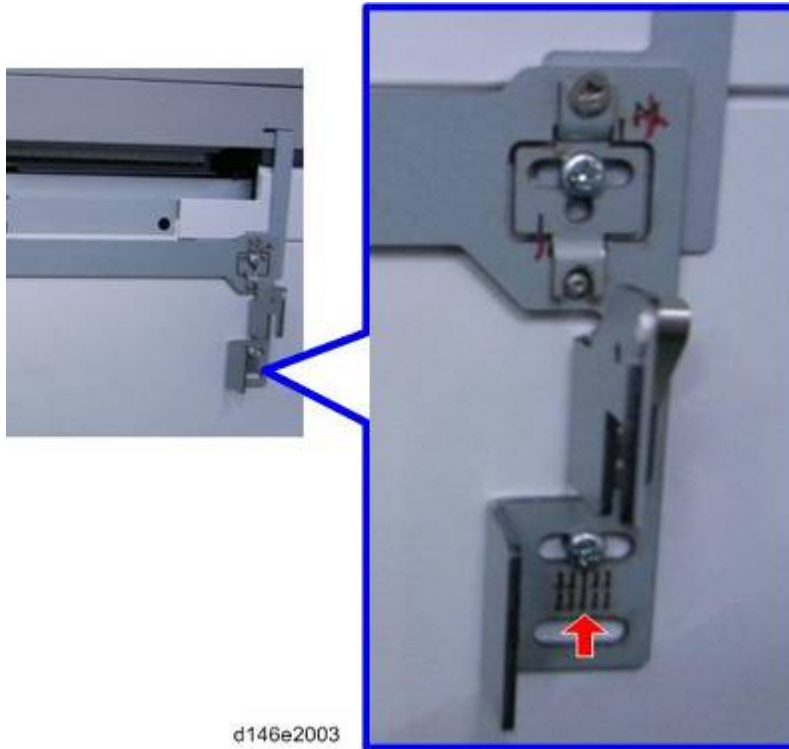


🔩 x4

d298m0581

Note

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



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. (x1)



14. Connect the interface cable to the machine.



d1462535

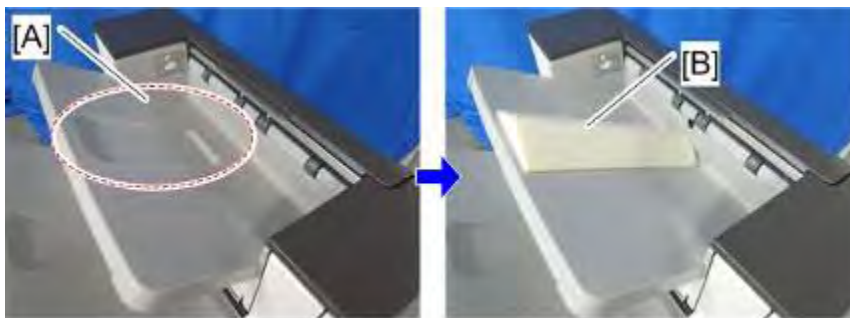
15. Close the front cover.
16. Turn ON the main power.
17. Deliver some A3/DLT paper to the proof tray and check if the vertical registration is correct according to the adjustment scale for A3/DLT paper (page 6-340).
18. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

Attaching the Proof Support Tray

When using B4, LG or larger paper, or when using limp paper, the sheet may become kinked, 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.

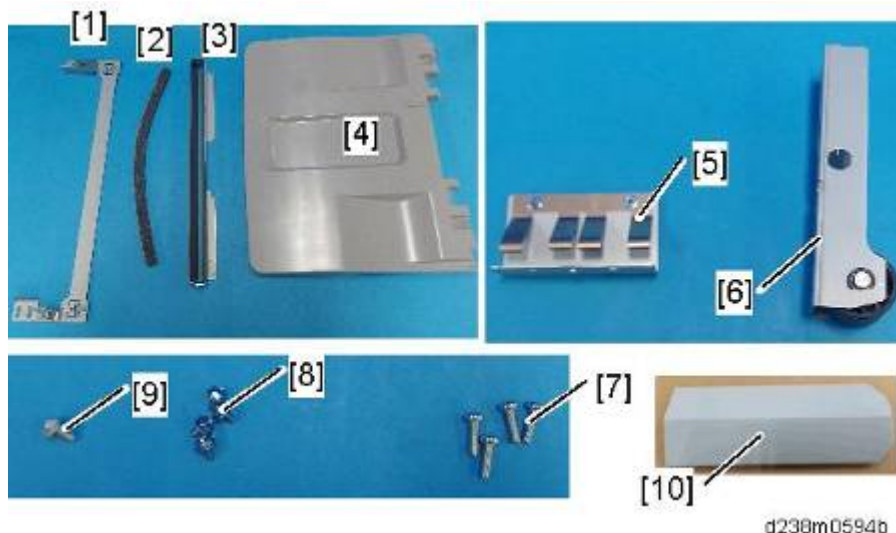
2.20 FINISHER SR3210 (D3B8)

★ Important

- To attach this optional unit, the following optional units are required.
 - Bridge Unit BU3070 (D685)
 - LCIT PB3170/PB3230 (D695) or Paper Feed Unit PB3160 (D693)

2.20.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Joint Bracket	1	
2	Cushion	1	
3	Relay 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 of the shipping box.
7	Screws - M4 x 12	4	
8	Tapping screws - M3 x 6	4	
9	Tapping screw - M4 x 8	1	
10	Proof Support Tray	1	
-	Installation Instruction for stabilizer	1	



2.20.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

📌 Note

- Before installing this option, attach the "Bridge Unit BU3070 (D685)" first.
- Attach the "LCIT PB3170/PB3230 (D695)" or "Paper Feed Unit PB3160 (D693)" first before installing this option.

★ Important

- ⇒
- Refer to **IMPORTANT** information regarding Moving the Finisher in Booklet Finisher SR3220 (D3B9). The same precautions concern the SR3210 (D3B8).
 - When you lift the finisher at the time of unpacking, do not hold the part [A]. Doing so may damage the frame.

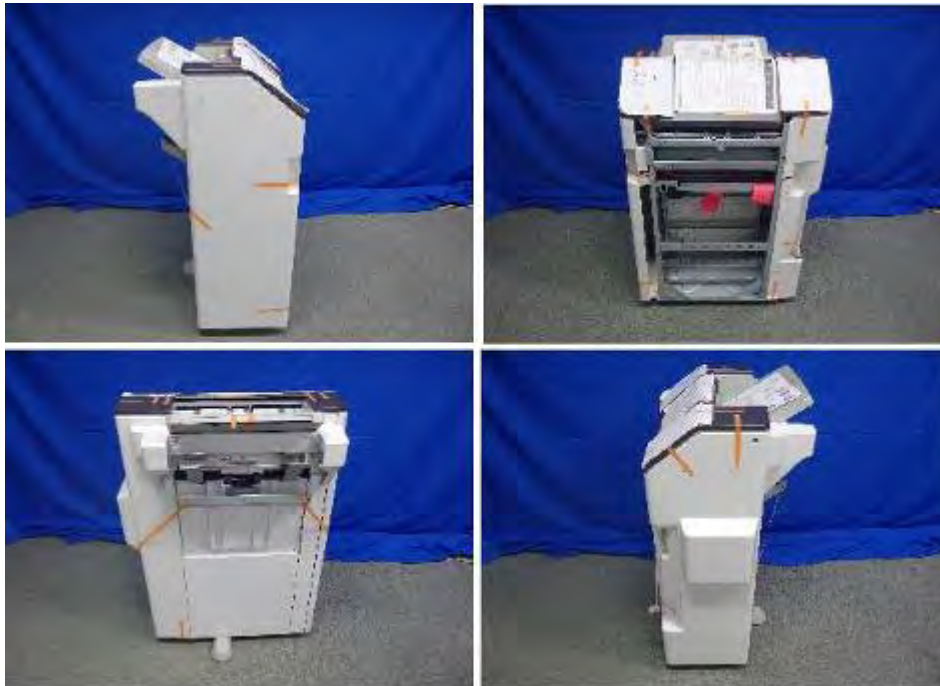


- After unpacking, immediately attach the stabilizer [B] to prevent toppling. Push it in thoroughly along the guide [A] until it clicks.



d238m592

2. Remove the external orange tape and shipping retainers.



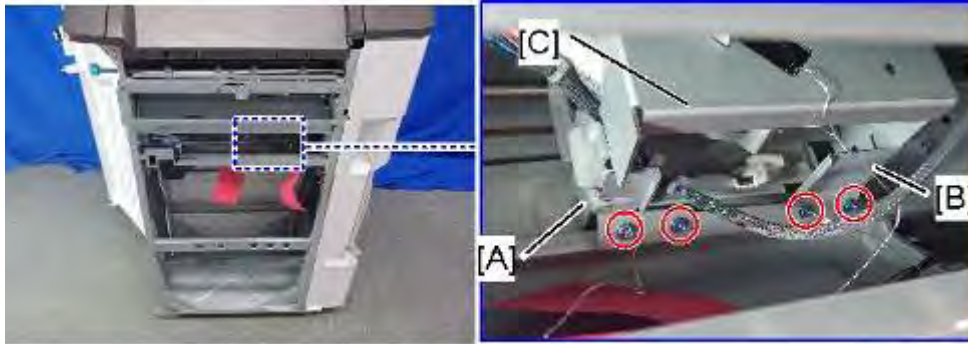
d238m0585

3. Open the front cover, and then remove the filament tape and packing materials.



d238m0566

4. Remove the accessories in the package (fixing screws, etc.).
5. Remove the fixing brackets of the stapleless stapler unit.
Remove the fixing brackets in the order of [A], [B], and [C].



d238m587

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



d238m588

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



d238m0807

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



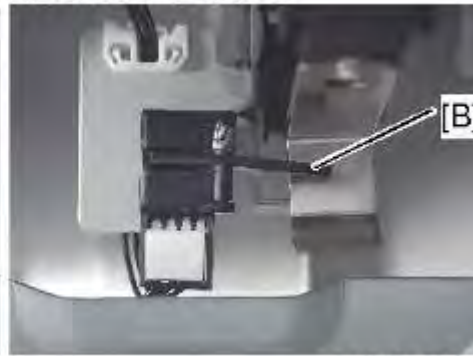
d238m589

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

Correct Position



Incorrect Position



w_d238m590a

6. Attach the shift tray [A] (🔩 x1: M4 x 8).



d1462529

7. Attach the relay guide plate [A] (🔩 x2).



d1462531

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 front-lower edge [A] of the upper cover.

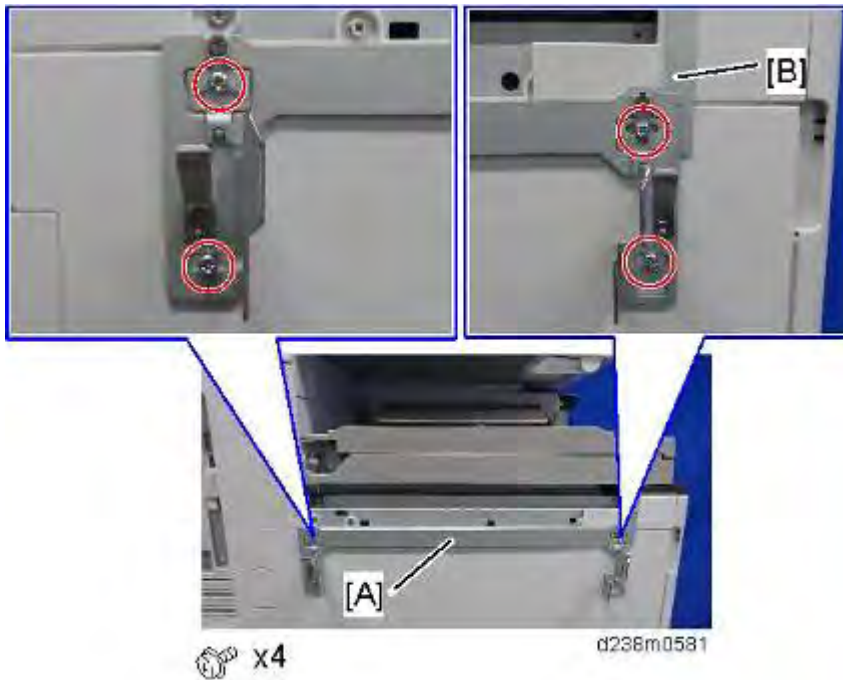


9. Attach the ground plate [A] (🔩 x2).



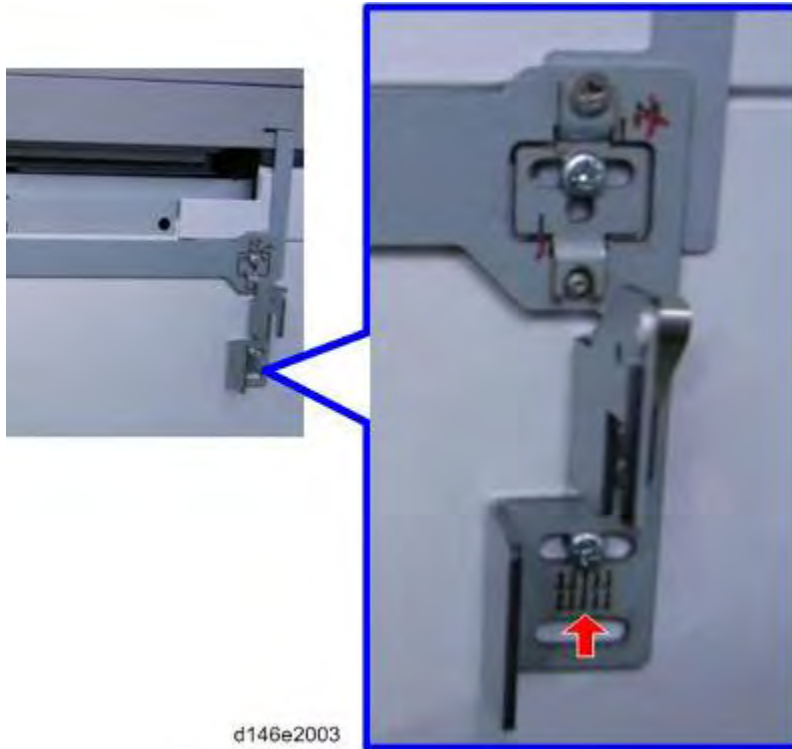
10. Attach the joint bracket [A] to the machine (🔩 x4 : 4x12).

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



⬇ Note

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



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



12. Connect the finisher to the main unit, and then push in the connection lever [A] to fasten it to the main unit. (🔑 x1).



13. Connect the interface cable to the machine.



d1462535

14. Close the front cover.
15. Turn ON the main power.
16. 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 (page 6-340).
17. Check that the finisher can be selected on the operation panel, and check the finisher's operation.

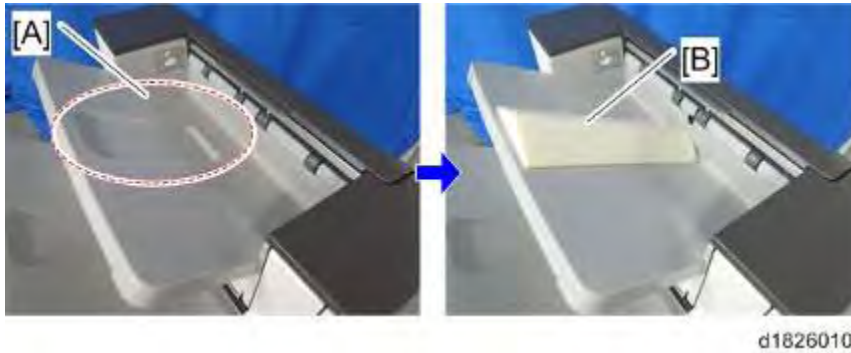
Attaching the Proof Support Tray

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



d1826009

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 using A4, LT or smaller paper, the machine will detect when the tray is full at 200 sheets instead of the normal 250 sheets.

When using B4, LG or larger paper, the machine detects when the tray is full at 50 sheets as usual.

2.20.3 STAPLELESS STAPLER INITIAL SETTINGS

ⓘ Note

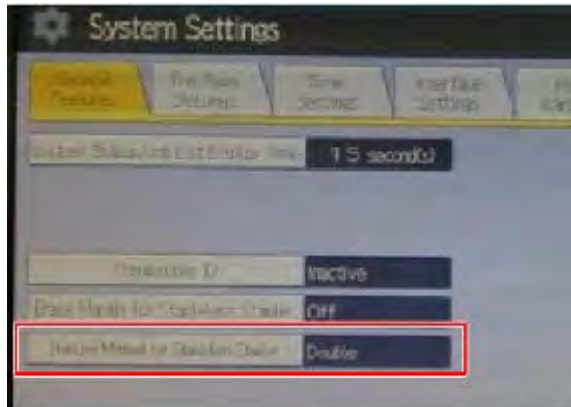
- To adjust the strength of the crimp between sheets of stapled paper, there is a setting to select either single or double stapling.
- The crimp is weakened when there is an image (toner) at the point which is to be stapled. There also is a setting to mask the image on the point for stapling, in order 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 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.

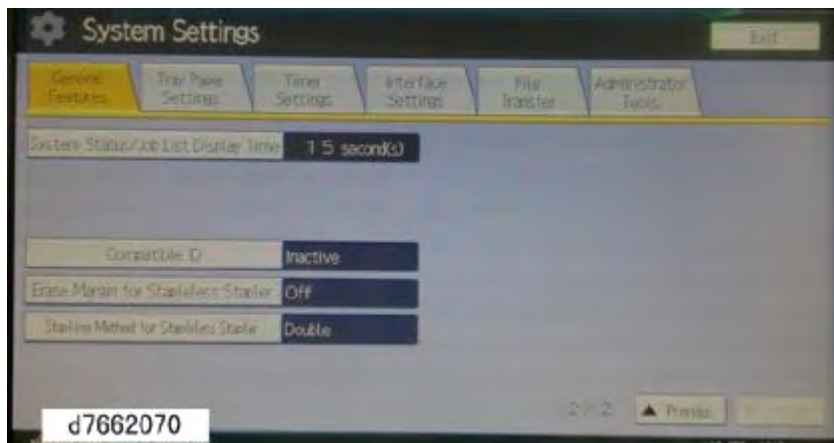
1. Press the [User Tools] icon on Home screen.
2. Press [Machine Features] > [System Setting] > [General Setting] > [Stapling Method for Stapleless Stapler].
3. Select [Double] or [Single].



d7665070a

How to set Margin Erase for Stapleless Stapler

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



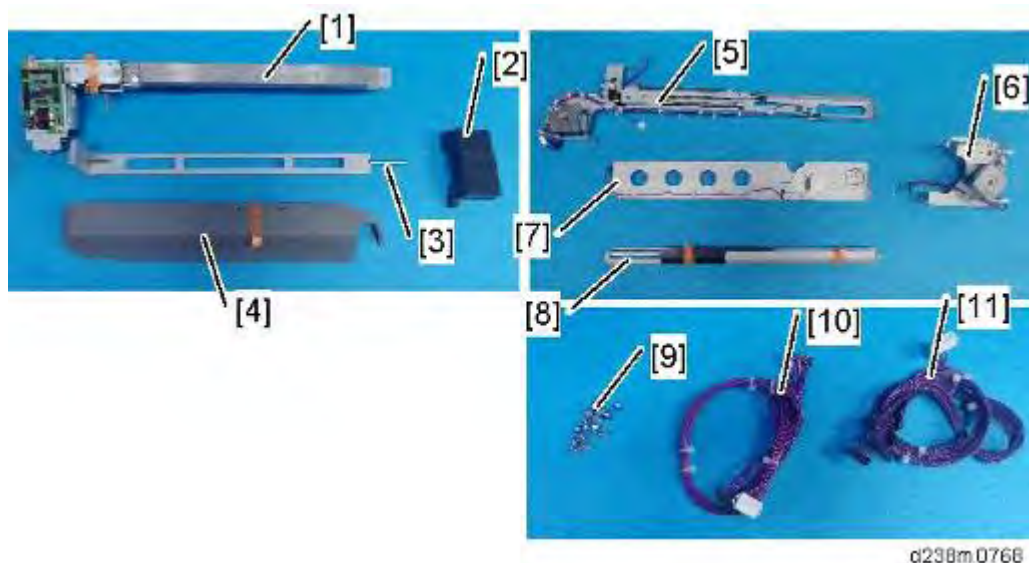
2.21 PUNCH UNIT PU3050

Note

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

2.21.1 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 - M3 × 6	16	
10	Harness (Short)	1	Used for SR3220
11	Harness (Long)	1	Used for SR3210



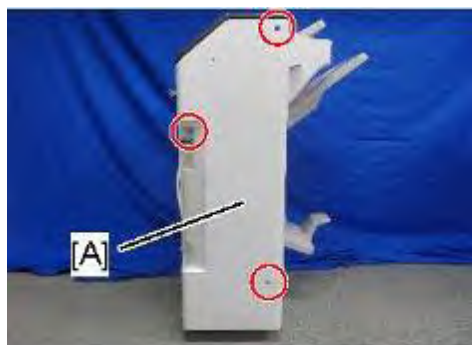
d238m0766

2.21.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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 [A] (Ⓜ x3).



d238m0769

4. Open the top cover, and then remove the arm [A] (Ⓜ x1).



d238m1399

5. Open the finisher front cover, remove the three knobs (🔩 x1).

↓ Note

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



d6873232

6. Pull the saddle stitch unit [A] or stapling unit.



d6873233

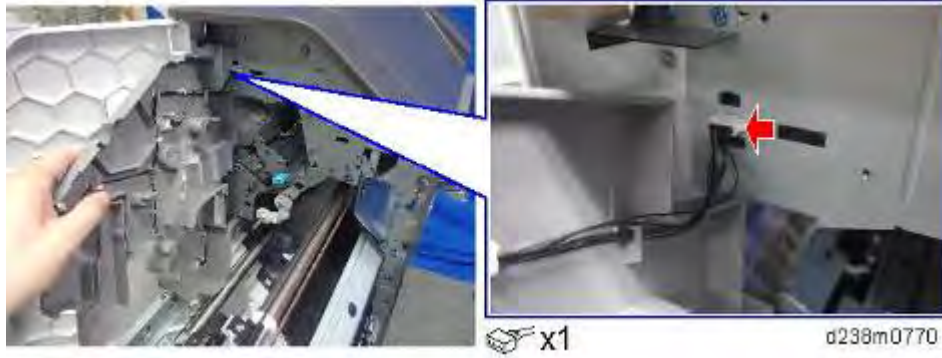
7. Remove the finisher inner cover [A] (🔩 x3)



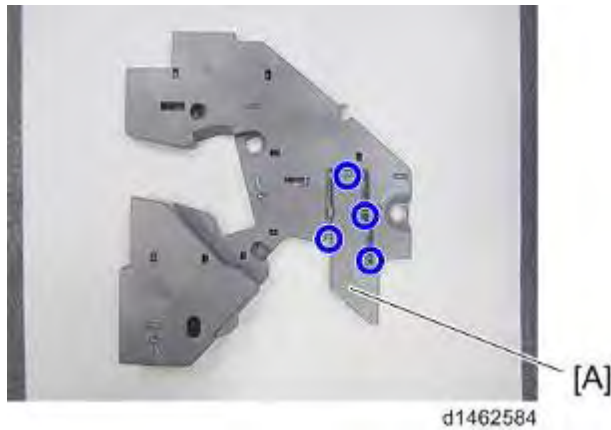
d687z0001

↓ Note

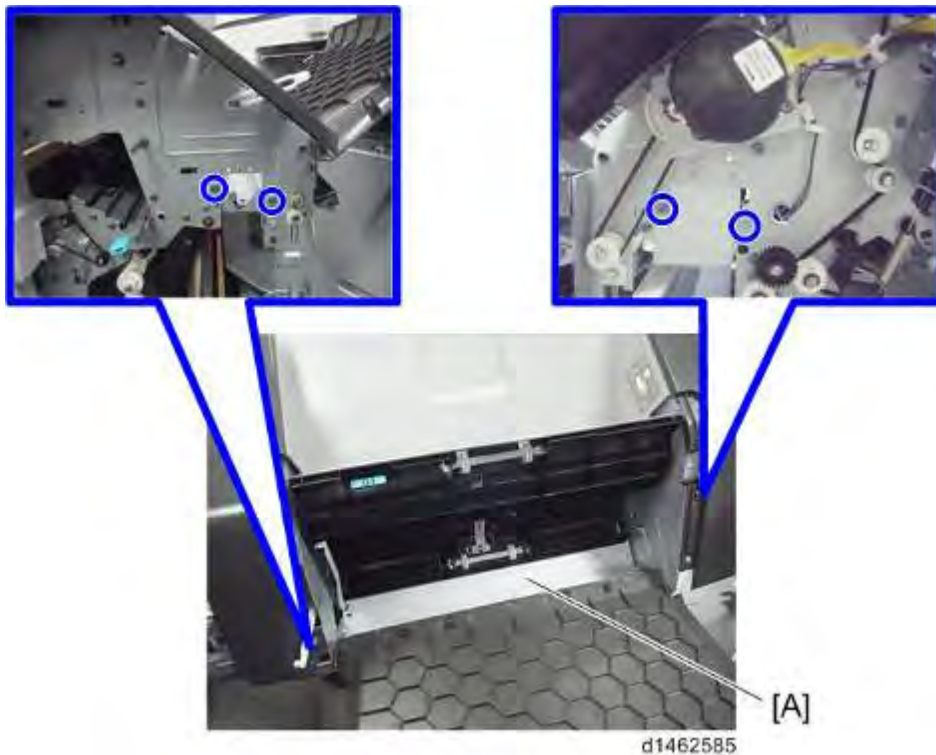
- Remove the connector at the back of the inner cover.



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

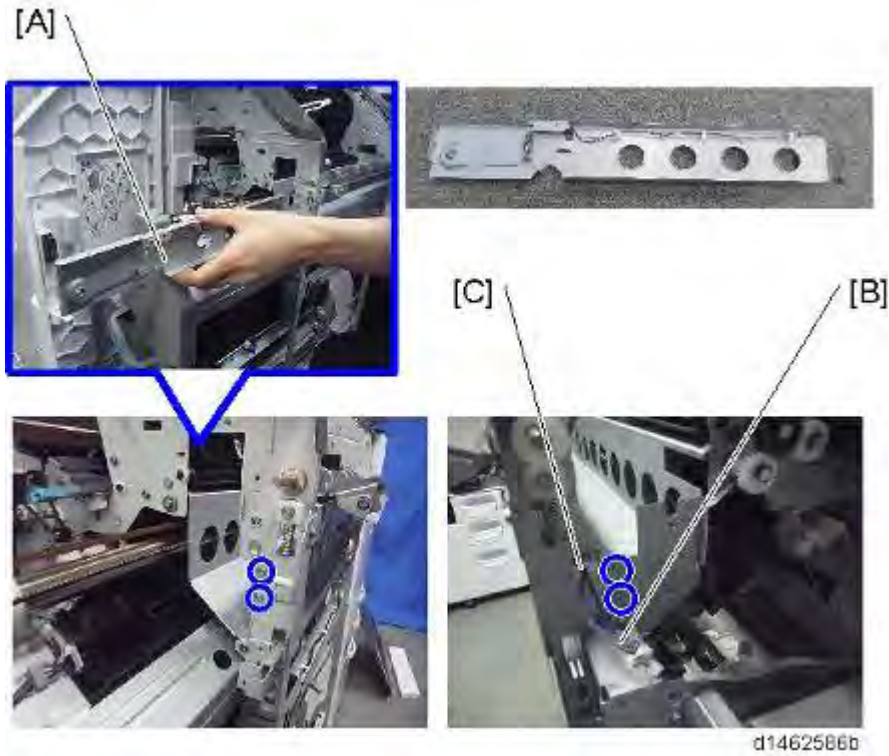


9. Remove the guide plate [A] (⚙️ x4).



10. Insert and attach the hopper guide plate [A] from the front (⚙️ x4).

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

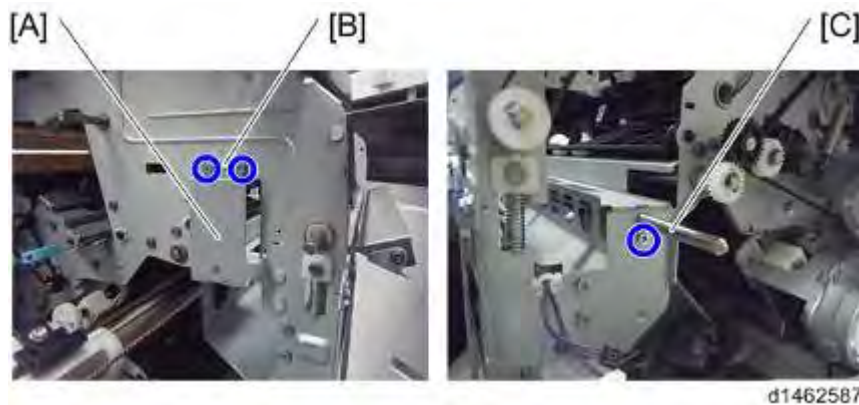


11. Attach the stay [A] (🔩x3).

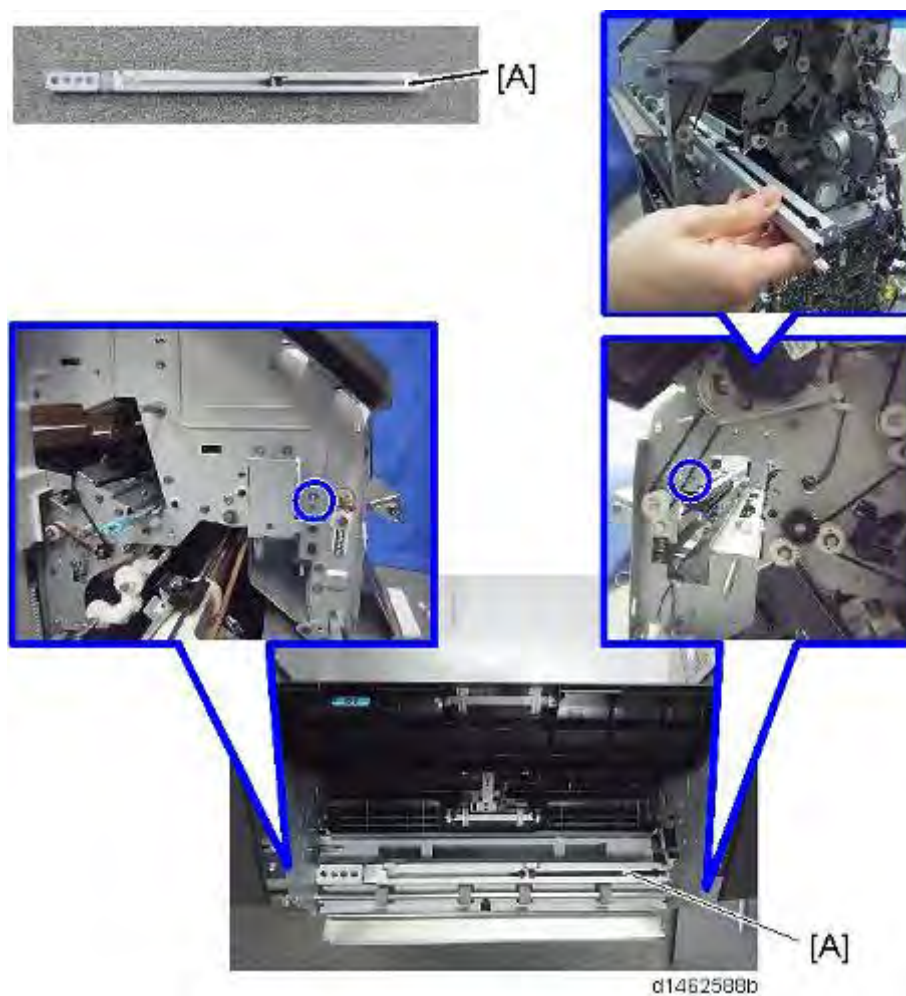


Front [B]: Insert the holes in the stay over the embossed parts on the finisher.

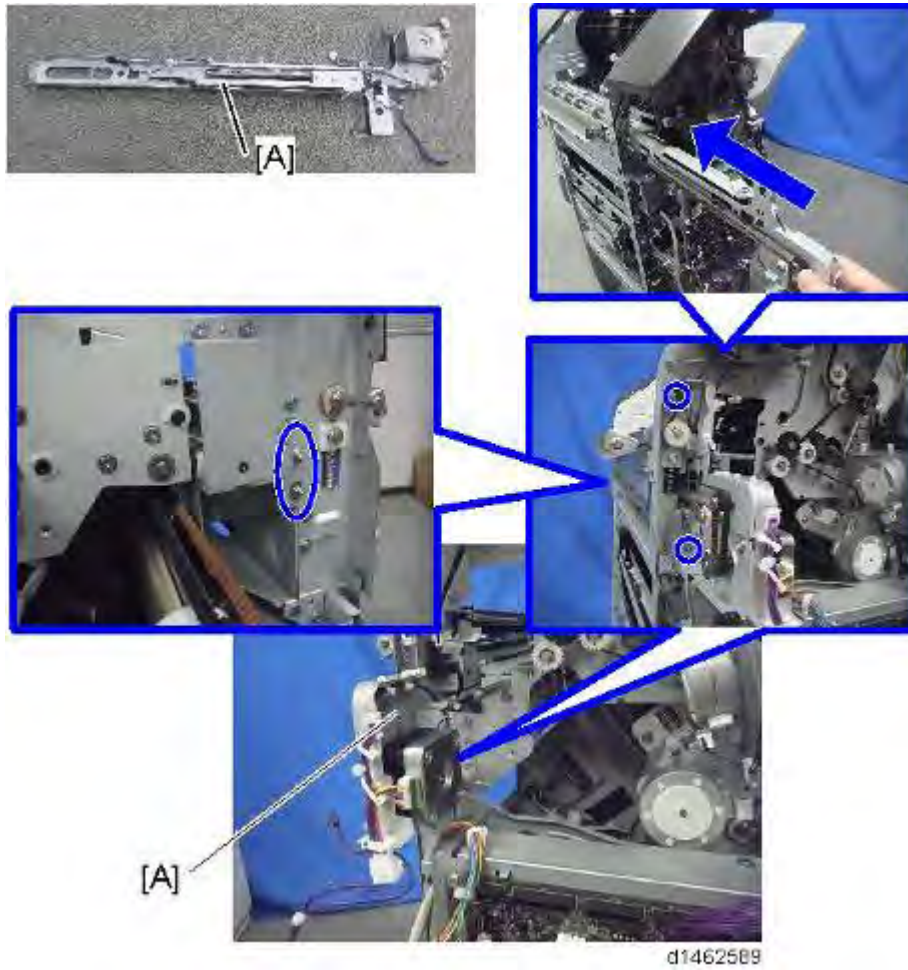
Rear [C]: Place the axis of the stay through the notch in the finisher.



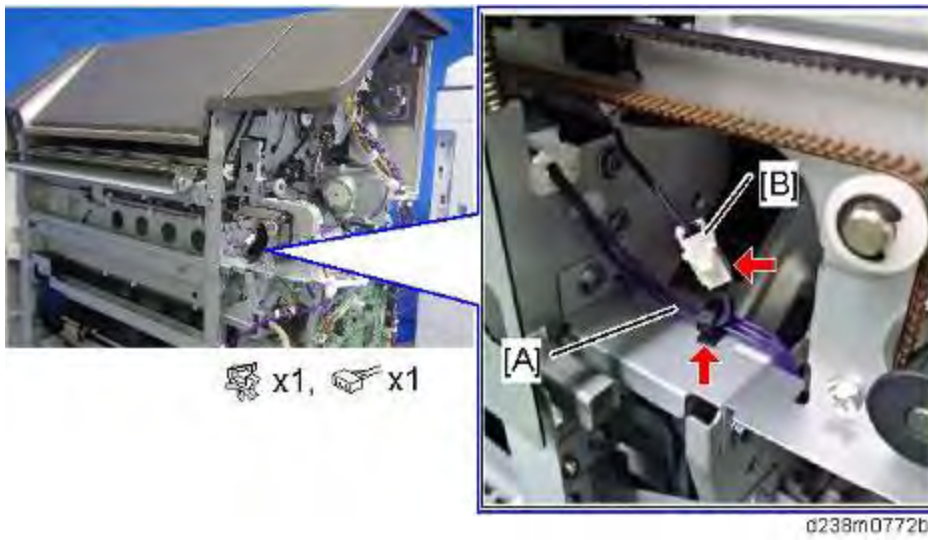
12. Insert and attach the guide plate [A] from the rear (🔩x2).



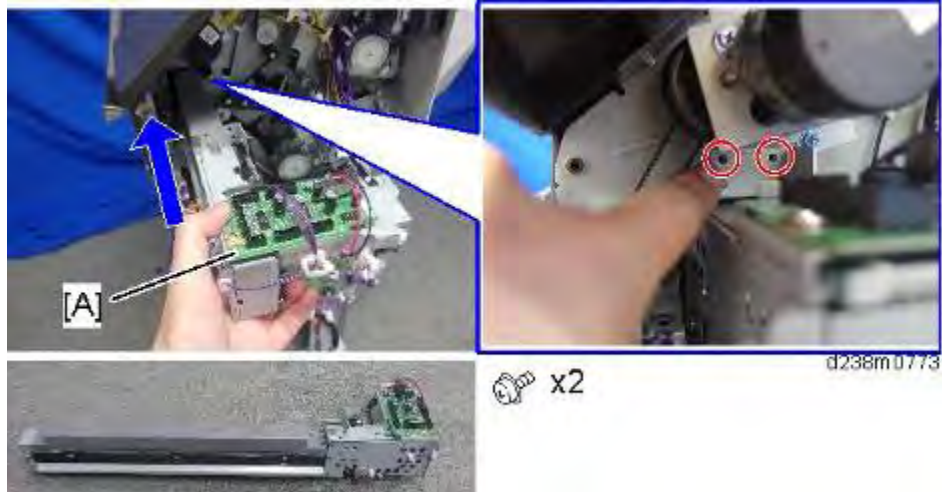
13. Insert and attach the side-to-side detection unit [A] from the rear (🔩 x2).
Front: The two shafts of the unit are passed through bearings in the finisher.



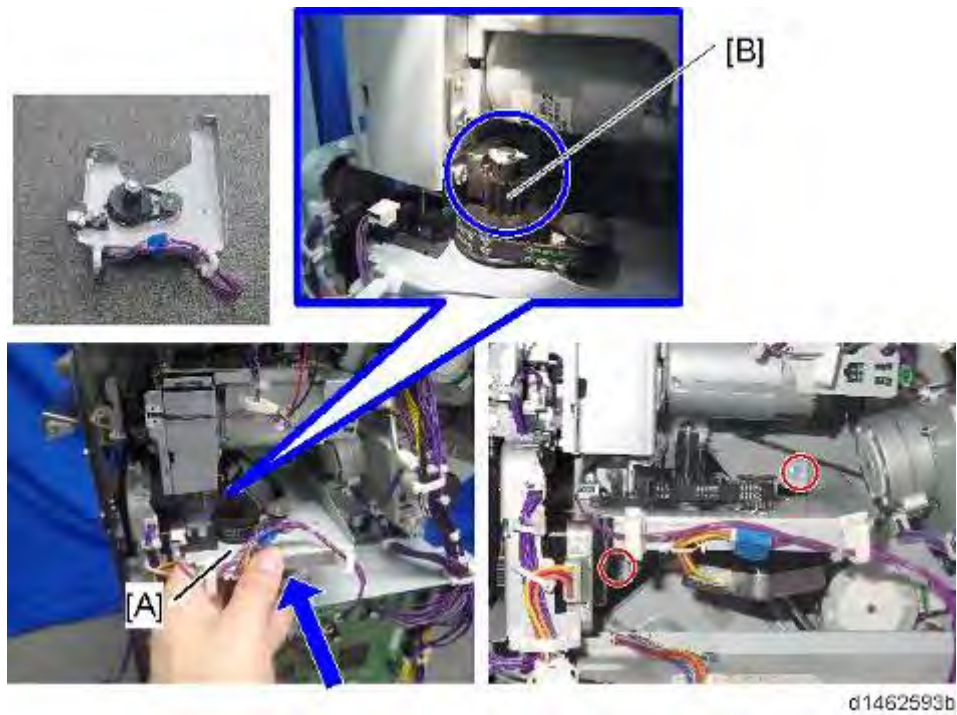
14. Connect the harness [A] of the hopper guide plate to the relay connector [B] of the side-to-side detection unit, and then clamp the harness.



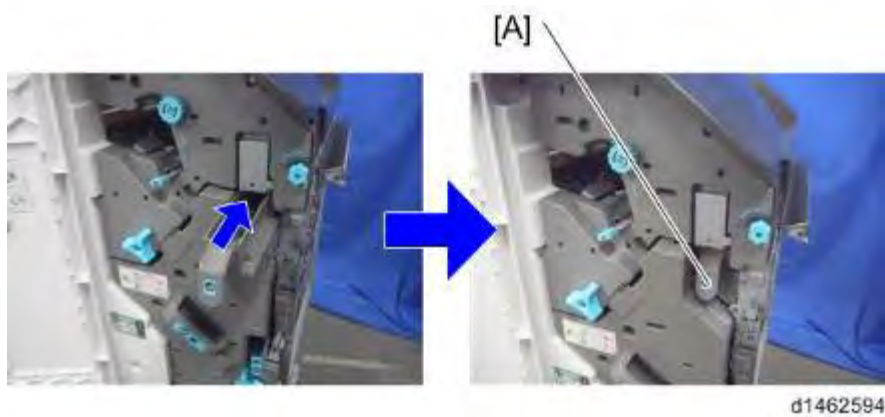
15. Insert and attach the punch unit [A] from the rear.



16. Attach the punch unit movement motor unit [A] so that the gear [B] meshes firmly (🔧 x2).



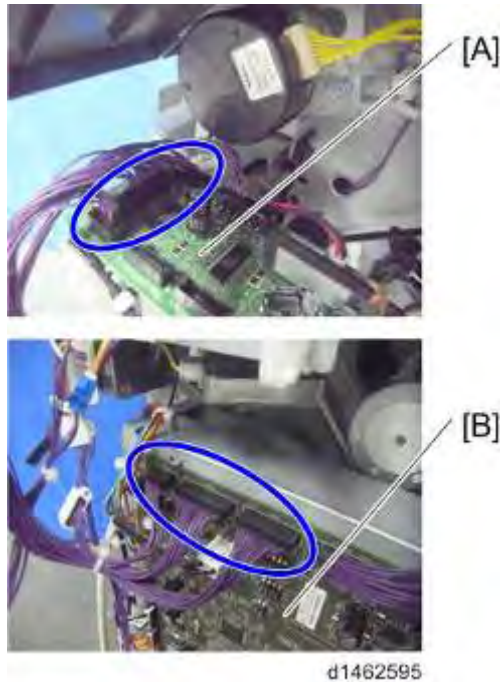
17. Insert the hopper [A].



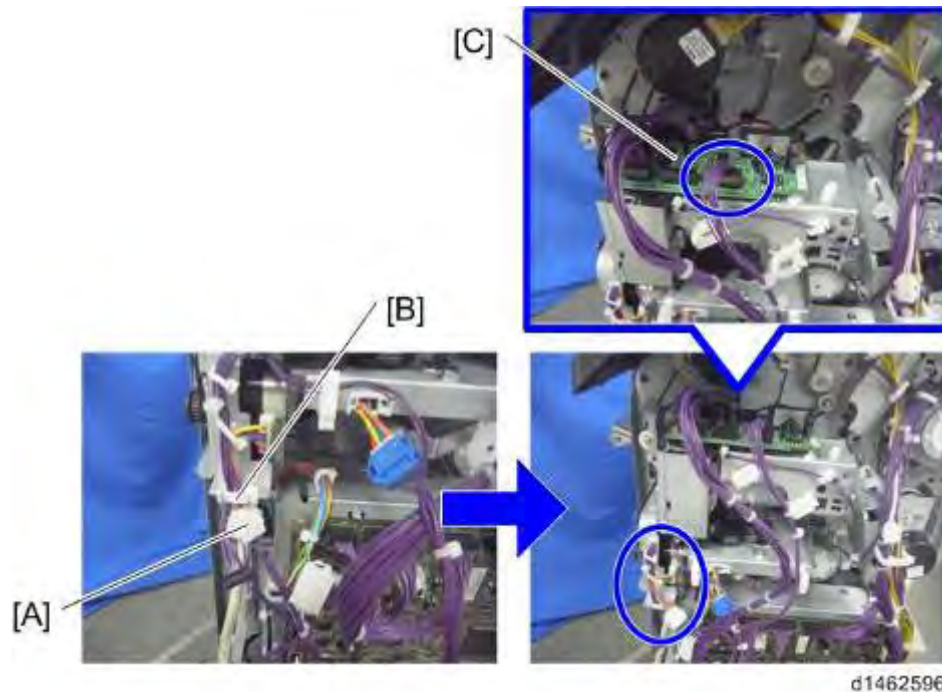
18. Connect the provided harness to the punch unit board [A] and the control board [B] of

the finisher (🔧 x6).

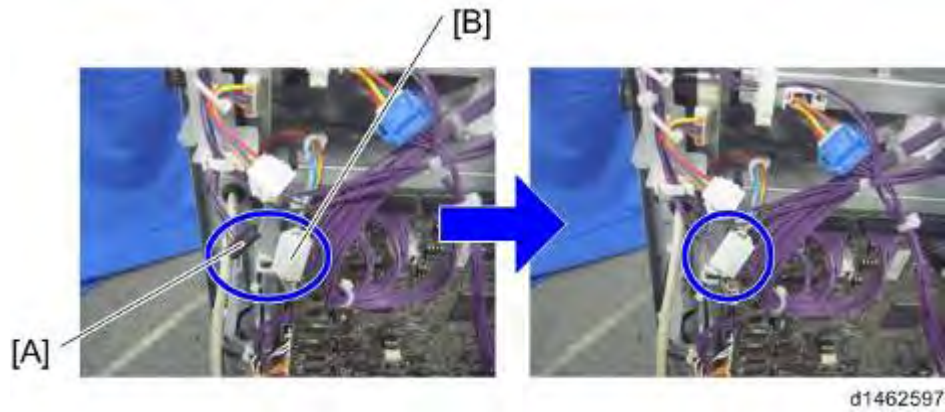
Use Harness (short) for SR3220 and Harness (long) for SR3210.



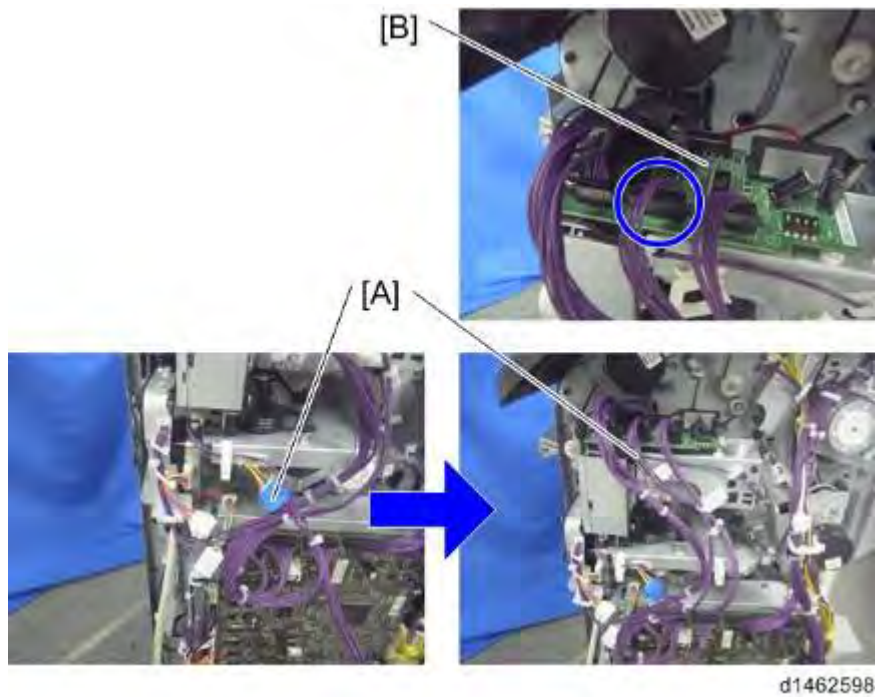
19. Remove the harness [A] from the clamp [B], and connect it to the punch unit board [C] (🔧 x1).



20. Connect the harness [A] of the side-to-side detection unit to the relay connector [B] of the harness (🔧 x1).



21. Connect the harness [A] of the punch unit movement motor unit to the punch unit board [B] (🔧 x1).



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



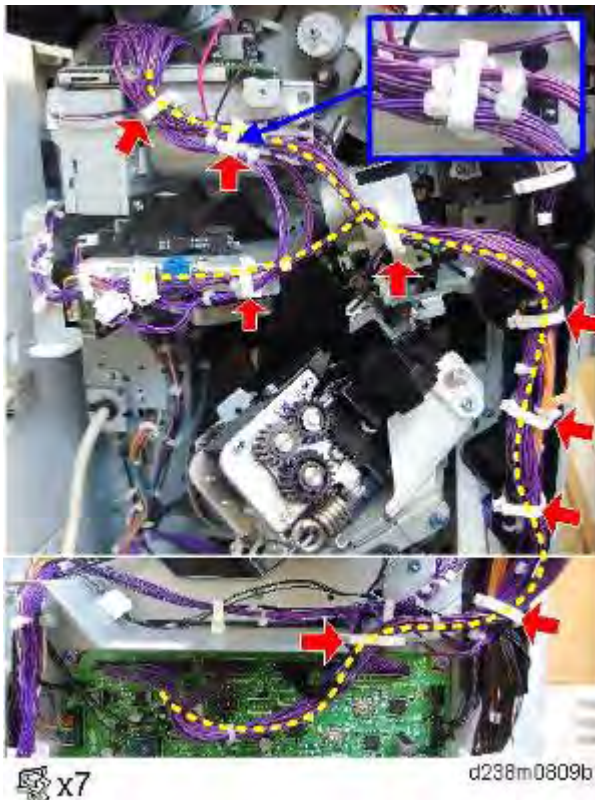
23. Clamp the harnesses.

For SR3220



d146z0068

For SR3210



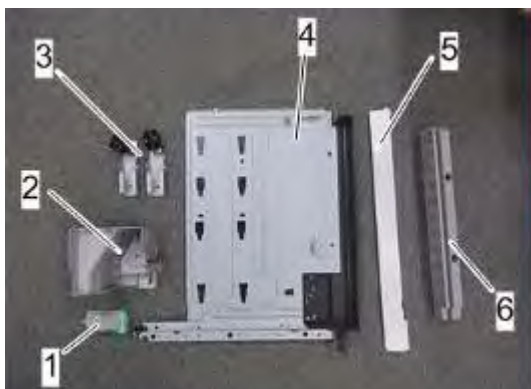
d238m0809b

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

2.22 INTERNAL FINISHER SR3130 (D690)

2.22.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Staple Cartridge	1	
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 x 6	6	
-	Tapping Screw – M4 x 6	1	
-	Decal - EMC Address	1	



2.22.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

📌 Note

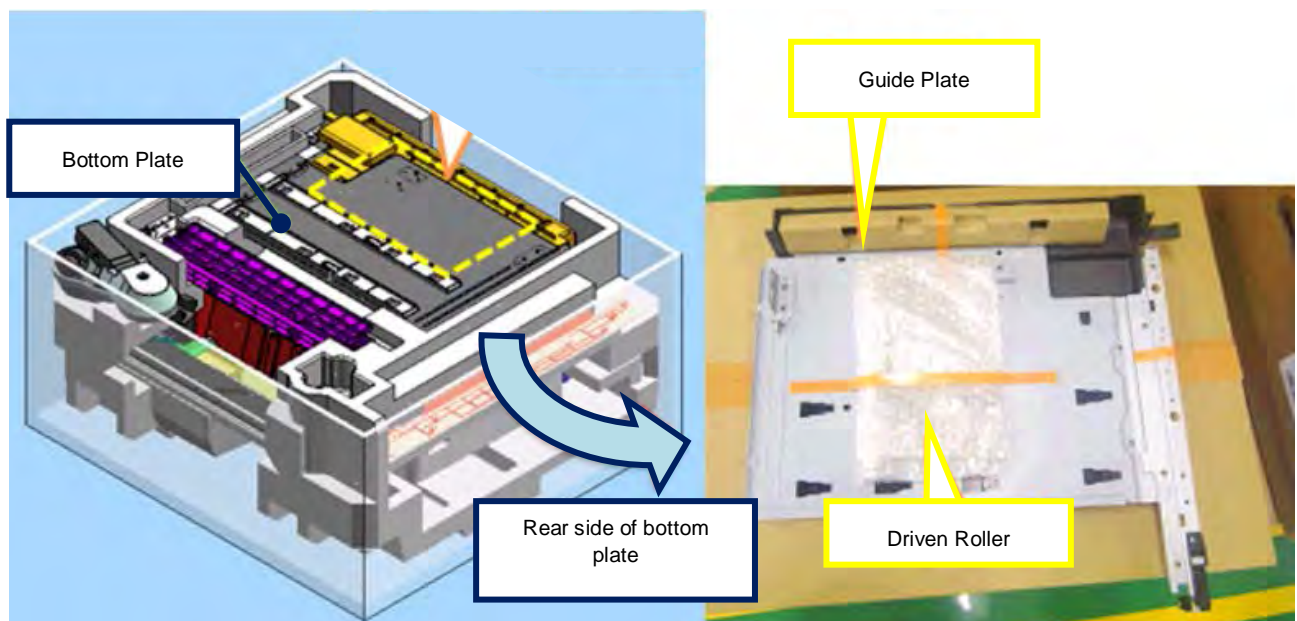
- This option cannot be used together with the following peripherals:
 - Internal Shift Tray SH3070 (D691)
 - Side Tray Type M3 (D725)
 - Internal Finisher SR 3180 (D766)
 - Bridge Unit BU3070 (D685)
- To use together with the "1 Bin Tray BN3110 (D3CQ)", after attaching the bottom plate of this option,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



d1462556

2. Remove the package accessories (fixing screws, etc.).



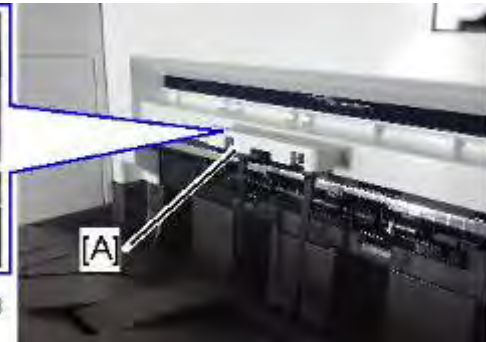
- 3. Remove the paper exit tray [A].



- 4. Remove the paper exit feeler [A].



d238m0558



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



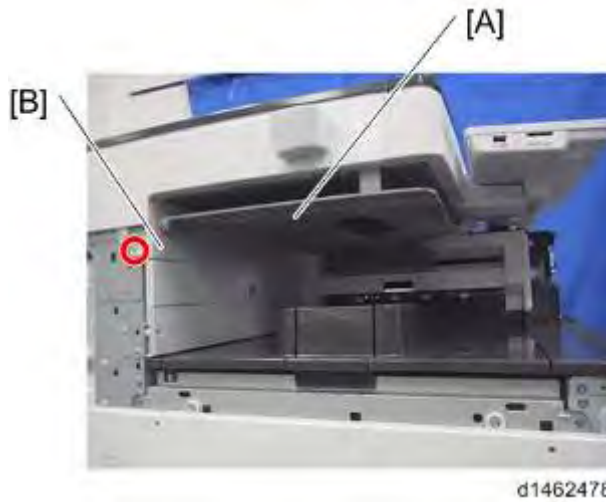
- 6. Open the front cover, and then remove the upper left cover [A] (⚙️ x1).



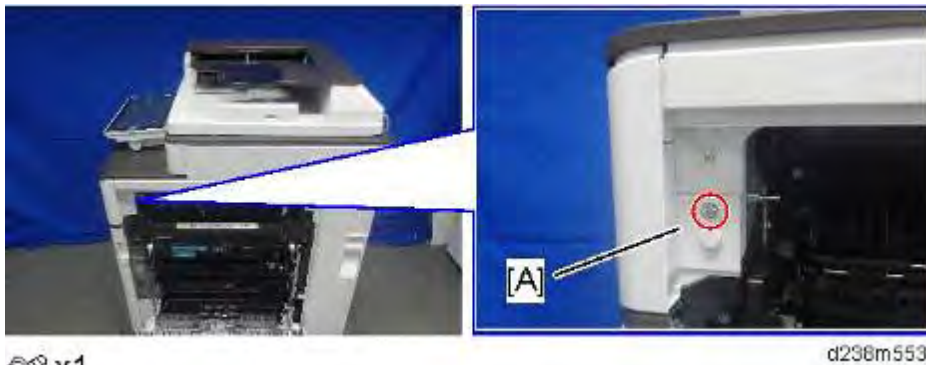
- 7. Remove the left rear cover [A] (⚙️ x2).



8. Remove the inverter tray [A], and tray support plate [B] (⚙️ x1).

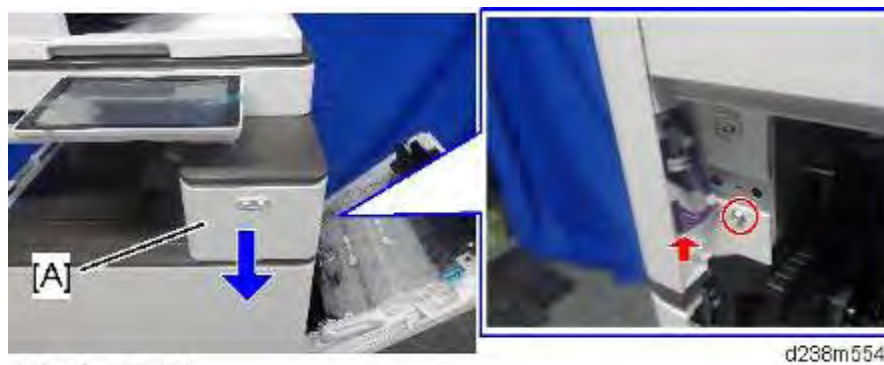


9. Open the right door, and then remove the small cover [A].



⚙️ x1

10. Remove the proximity sensor cover [A].



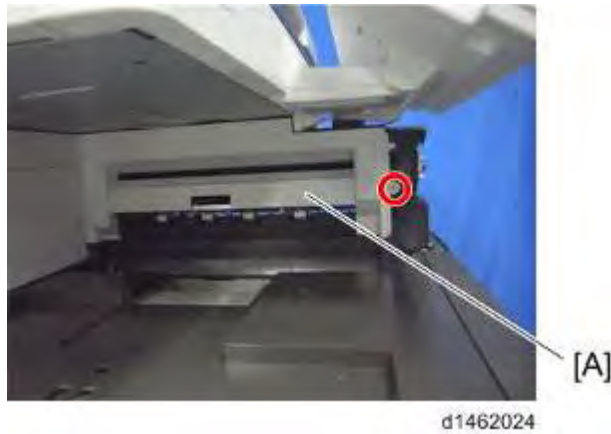
⚙️ x1, ⚙️ x1

ⓘ Note

- Remember that there are three tabs at the positions in the red arrows.
- Tilt the operation panel [B] upward to a horizontal position, and then remove the proximity sensor cover [A].



11. Remove the paper exit cover [A] (🔩 x1).



12. Remove the connector cover [A].



13. Remove the paper exit lower cover [A] (🔩 x3).



14. Remove the upper rear inner cover [A] (⌀ x2)



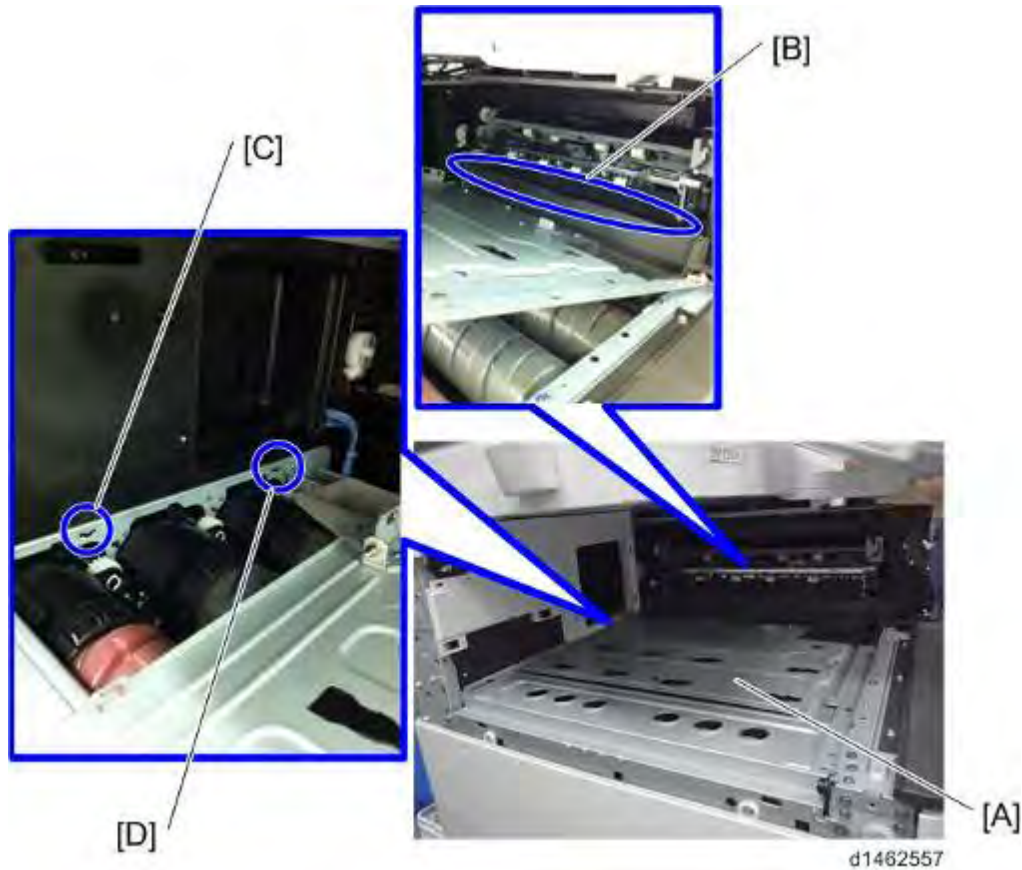
d1462565

15. Install a screw removed in step 13.



d197f0107

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] [D].



↓ Note

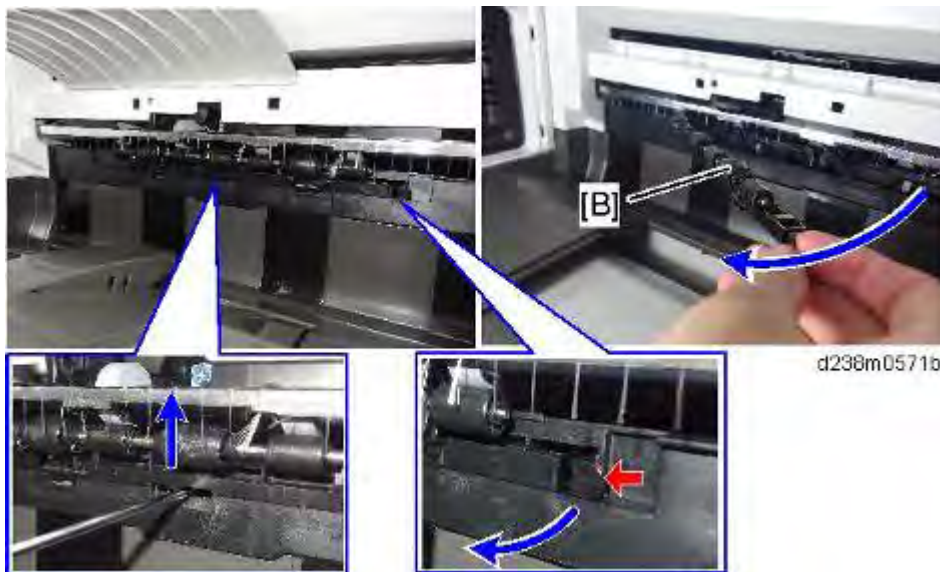
- The following procedure is the easiest way to set this component.
- 1) Slip the bottom plate [A] into the position in the blue circle [B].
- 2) Insert the bottom plate [A] into the hole in the blue circle [C].
- 3) When the bottom plate [A] is picked up (see below), it can be inserted into the hole in the blue circle [D].



17. Attach the bottom plate [A] (🔩×3)



18. Attach the upper rear inner cover.
19. Attach the paper exit cover.
20. Reattach the connector cover, proximity sensor cover, 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 red frames).

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



Note

- 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 [A] from left to right to attach it (🔩×1).



24. Reattach the inverter tray.

25. Attach the entrance guide plate [B] to the finisher [A] (🔩×2).



26. Slide the finisher [A] along the rail of the bottom plate from the left-hand side of the machine to attach it (🔩×1).



Note

- 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.

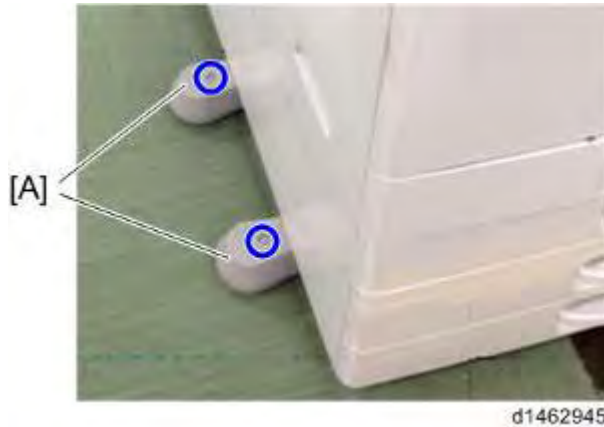
28. Insert the upper left cover [A] from the front, and slide it to reattach it.



29. Attach the stabilizers [A].

Note

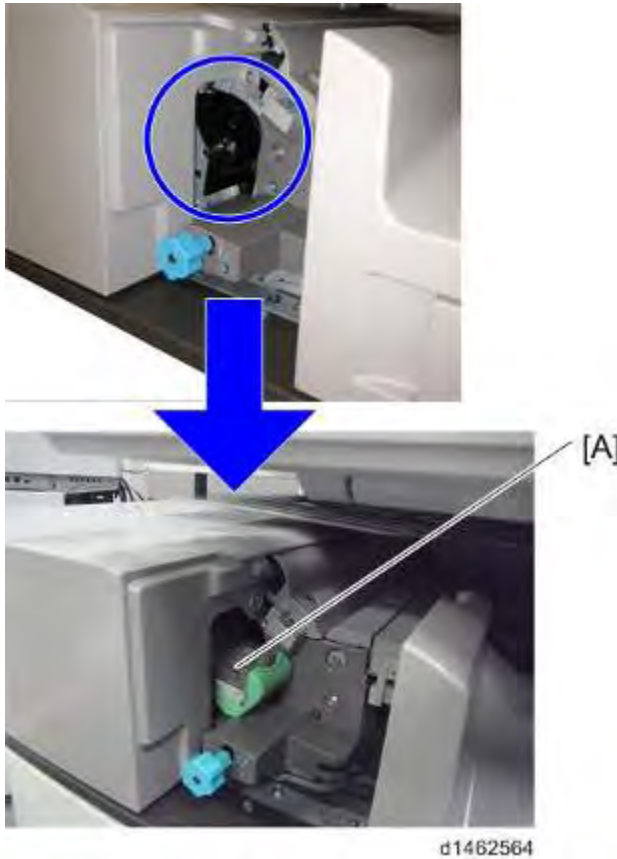
- Because the weight is biased to the right of the machine if the internal finisher is installed, stabilizers are required on the left side. Because they are included with the finisher, install these stabilizers at the same time as you install the internal finisher.



30. Connect the interface cable to the machine.



31. Move the stapler unit forward, then set the staple cartridge [A].



32. Reinstall the stapler unit, and then turn ON the main power.
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.

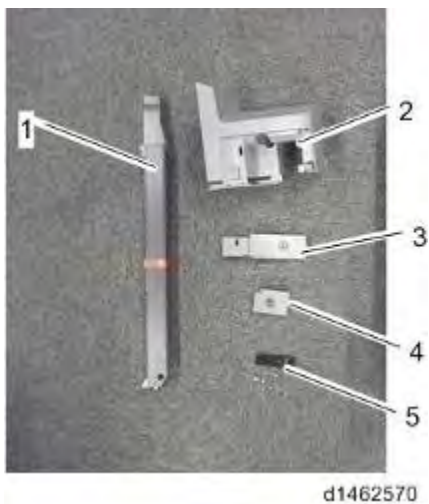
2.23 PUNCH UNIT PU3040 (D716)

Note

- Punching unit for the Internal Finisher SR3130 (D690).

2.23.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
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 - M3x 6	3	
-	Decal - EMC Address	1	



2.23.2 INSTALLATION PROCEDURE

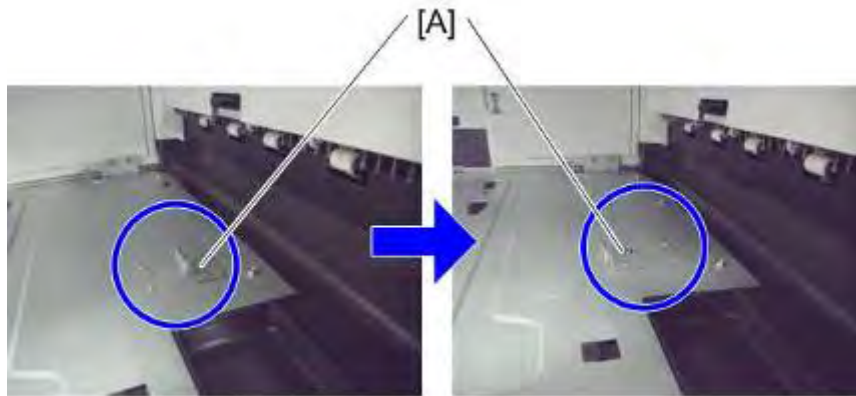
⚠ CAUTION

- 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.

📌 Note

- When supplied together with the "Internal Finisher SR3130", attach this option before installing the "Internal Finisher SR3130"
- If the "Internal Finisher SR3130" is already attached, attach this option after removing the finisher.

- Take out from the box, and remove the filament tape and packing material.
- Remove the finisher and finisher front right cover from the machine.
- Perform steps 1 to 21 of the installation procedure for the "Internal finisher SR3130."
- Change the fixing position of the bracket [A] of the bottom plate (🔩×1).



d1462571

- Replace the lock holder of the bottom plate with the lock holder [A] (🔩×1) provided with the accessories.

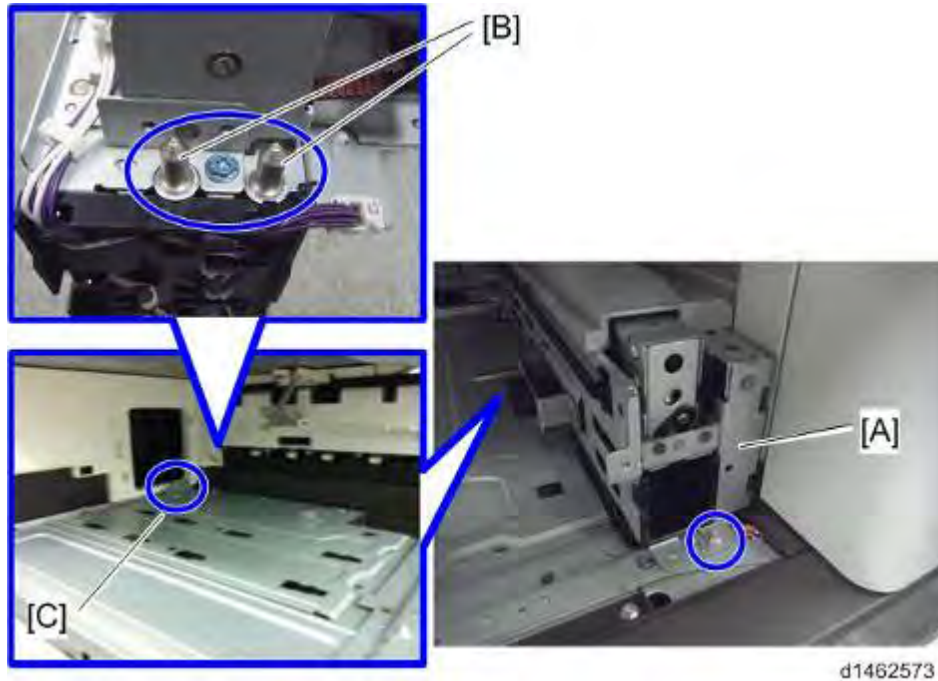


d1462572

- Reattach the proximity sensor cover.

7. Pass the shafts [B] of the punch unit [A] through the bearings [C] of the bottom plate, and attach to the machine (🔩×1, knob screw).

If it is difficult to insert by probing, look from the side while you insert it into the bearings of the bottom plate.



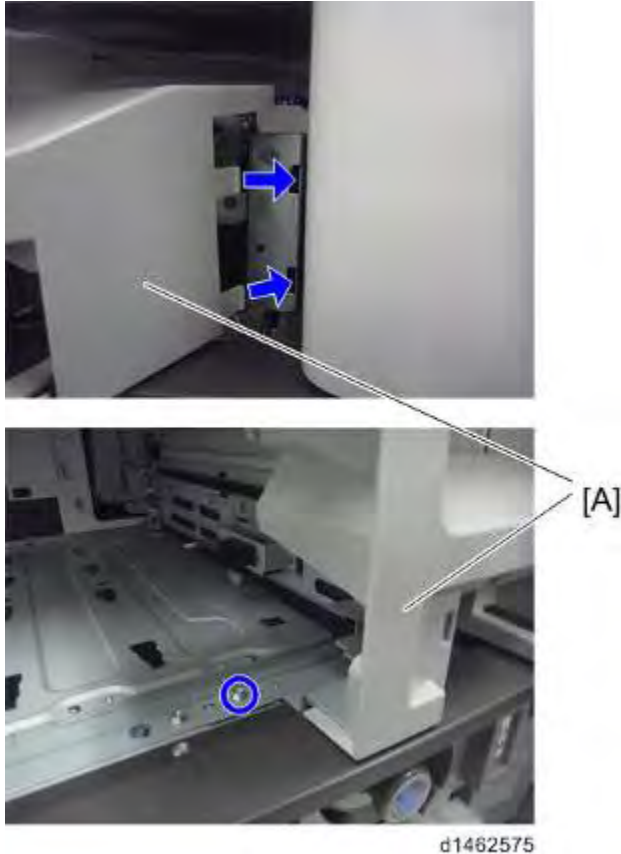
8. When installing the punch unit in a finisher that is already installed, remove the relay guide plate [A] (🔩×2).



Note

- This step is unnecessary when installing the finisher and punch unit at the same time.

9. Attach the punch unit cover [A] provided with the accessories, inserting the tabs (🔩 ×1).



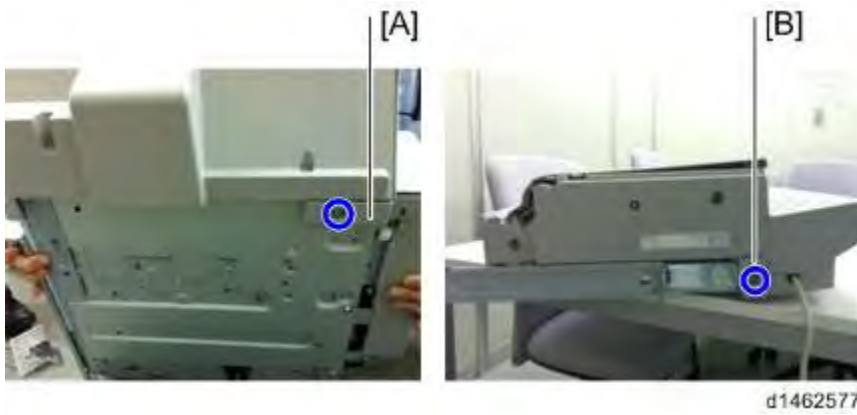
10. Insert the hopper [A].



11. Slide the finisher [A] along the rail of the bottom plate from the left-hand side of the machine to attach it (🔩 ×1).



12. Attach the components [A] and [B] to the finisher (🔩 x2).



13. Attach the left rear cover.

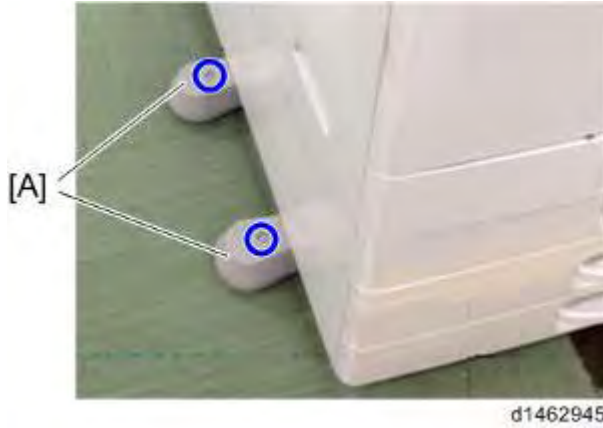
14. Insert the upper left cover [A] from the front, and slide it to attach it.



15. Attach stabilizers [A].

ⓘ Note

- Because the weight is biased to the right 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.



16. Connect the interface cable to the machine.



17. Move the stapler unit forward, then set the stapler [A].



18. Turn ON the main power.
19. Check that the finisher can be selected at the operation panel, and check the finisher and punch operation.

2.24 INTERNAL FINISHER SR3180 (D766)

2.24.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Bottom Plate	1	
2	Left Lower Cover	1	
3	Paper Exit Tray	1	
4	Tapping Screw:3X8	2	
5	Tapping Screw:3X8	2	
6	Tapping Screw:3X8	2	
7	Screw:M3X6	3	
8	Tapping Screw:3X6	1	
9	Tapping Screw:4X8	1	
10	Slide Rail	1	
11	Nylon Clamp	1	
12	Paper Support Guide	1	
13	Driven Roller (Flat)	1	

Installation



d238m0646

2.24.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

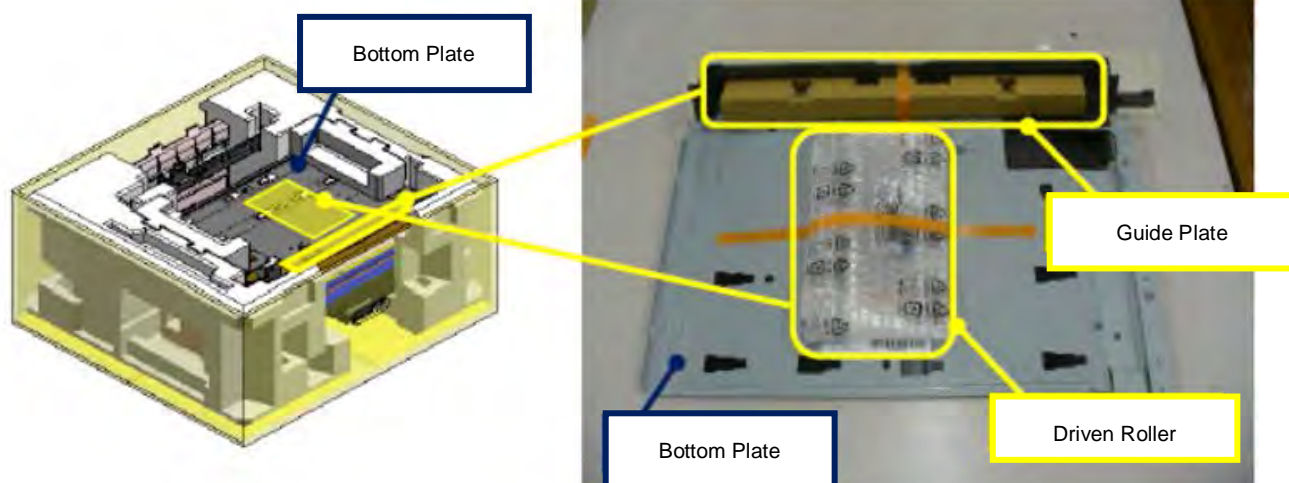
ⓘ Note

- 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)
- 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.

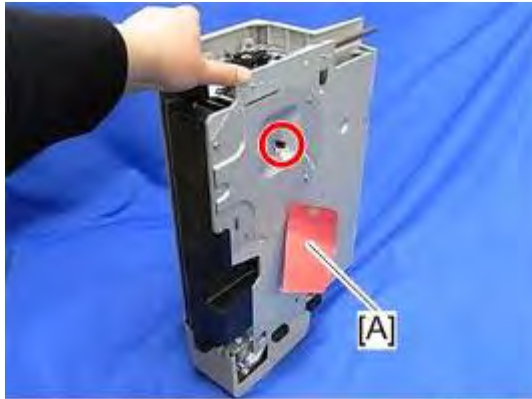
1. Remove the orange tape and shipping retainers.



d766z0002

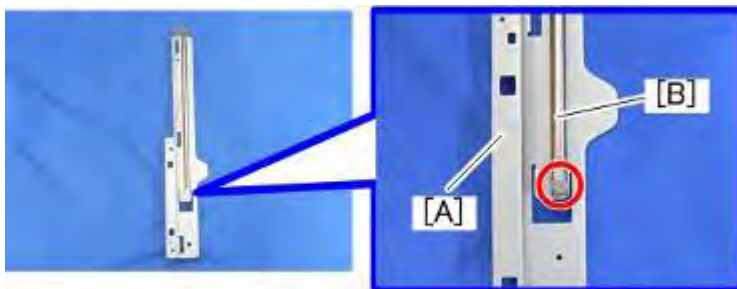


- 2. Remove the knob screw and red tag [A].



d7662074

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



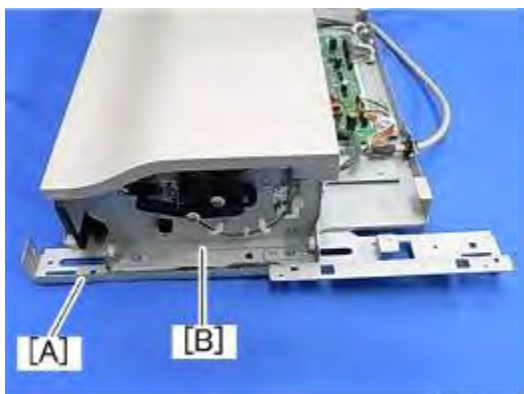
d766z0003

- 4. Remove the paper exit cover [A] (⚙️ x 2).



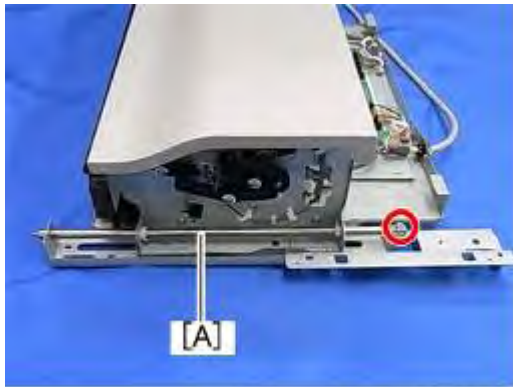
d766z0004

- 5. Place the slide rail [A] under the internal finisher [B].



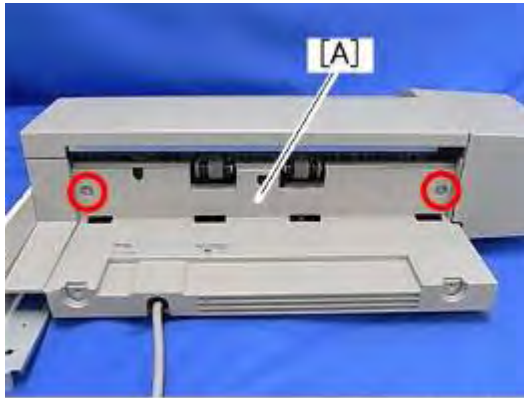
d766z0005

6. Insert the shaft [A] into the holes located in the slide rail and internal finisher, and then fasten with the screw (🔩 x 1).



d766z0006

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



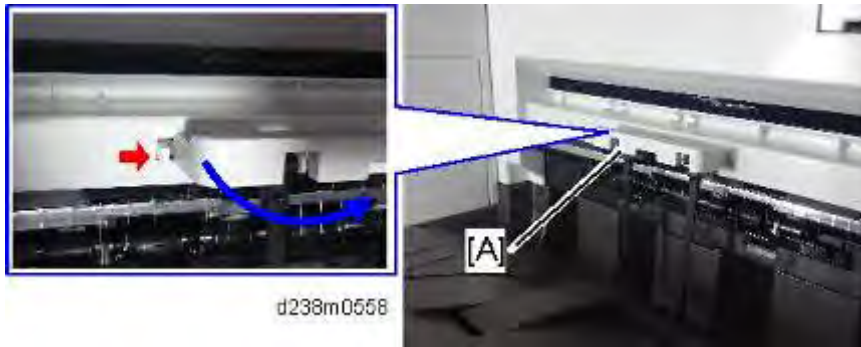
d177z4578

8. Remove the paper exit tray [A].



d1462023

- 9. Remove the paper exit feeler [A].



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



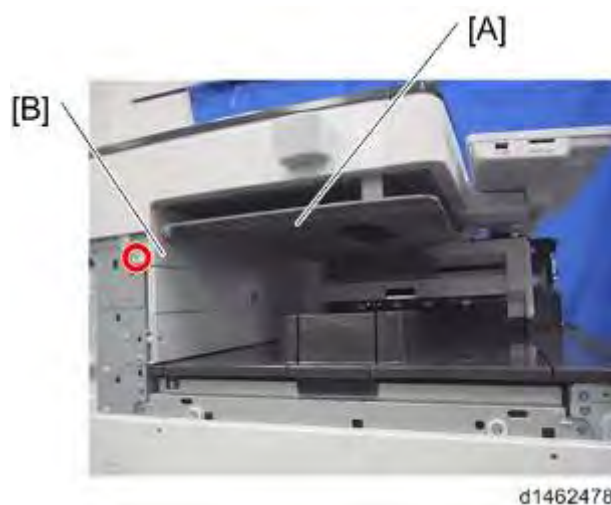
- 11. Open the front cover, and then remove the left upper cover [A] (🔩 x 1).



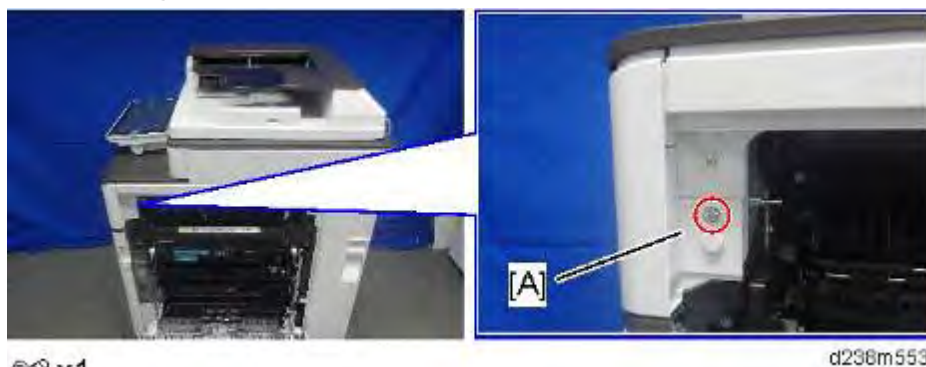
- 12. Remove the left rear cover [A] (🔩 x 2).



13. Remove the inverter tray [A] and tray support plate [B].

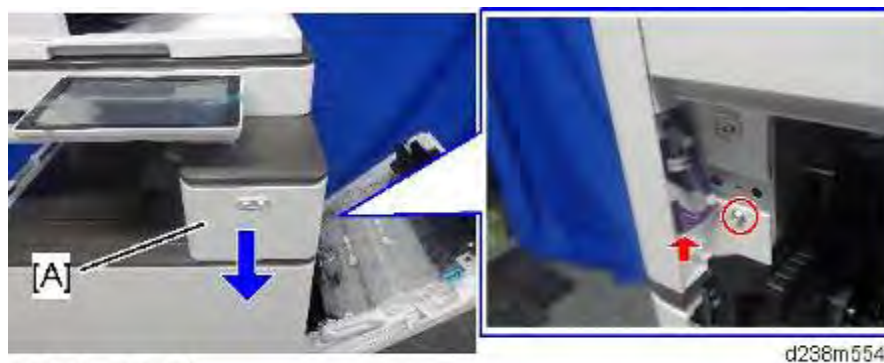


14. Open the right door, and then remove the small cover [A].



x1

15. Remove the proximity sensor cover [A].



x1, x1

Note

- Remember that there are three tabs at the positions of the red arrows.
- Tilt the Operation Panel [B] upward to a horizontal position, and then remove the proximity Sensor Cover [A].



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



17. Remove the connector cover [A].



18. Remove the paper exit lower cover [A] (🔩 x 3).

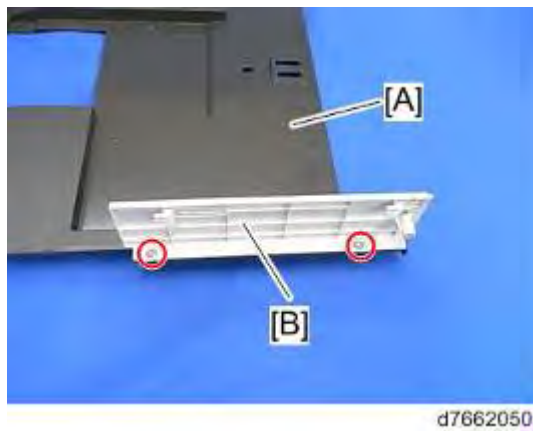
⬇️ **Note**

- The lower inside cover can be removed together with the paper exit lower cover, since the inside cover is secured on the paper exit lower cover with two screws.

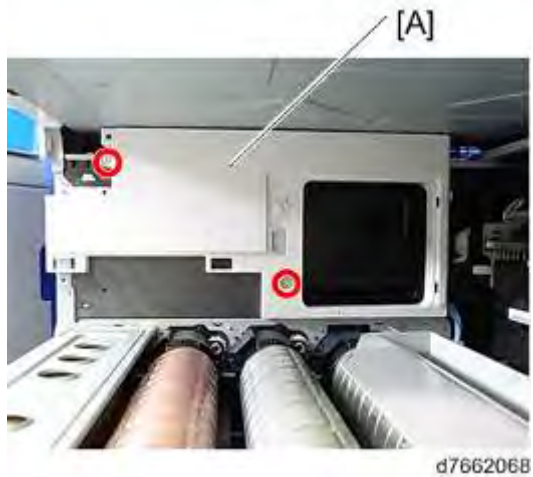
Internal Finisher SR3180 (D766)



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



20. Remove the upper inside cover [A] (🔩 x 2).



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



22. Install the bottom plate [A] (🔩 x 3, Accessory No. 7).



23. Install the lower inside cover (removed in step 19) [A] in the finisher (🔩 x 2, Accessory No.5).



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

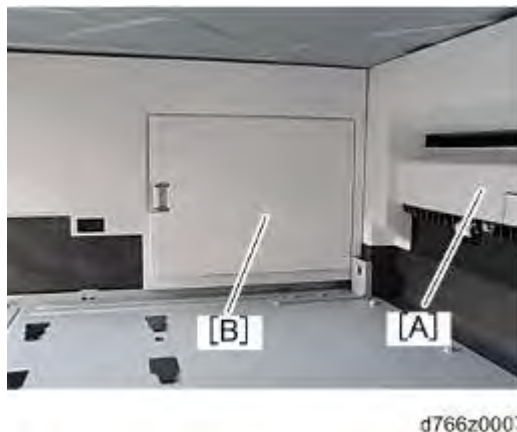


25. Reattach the tray support plate (removed in step 13) [A].



26. Reattach the paper exit cover (removed in step 16 and step 17) [A] and the connector cover [B].

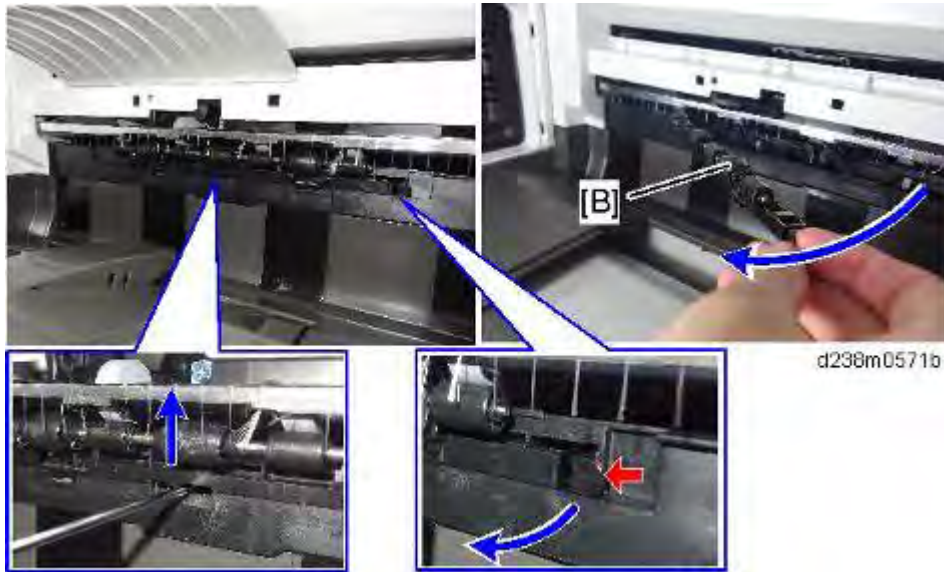
Touching the moving parts inside of the cover can result in an injury. To avoid this, be sure to install the connector cover [B].



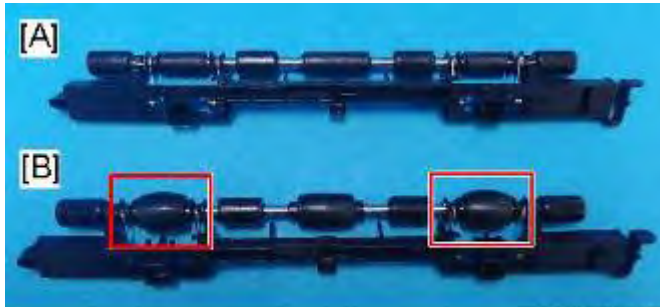
27. Reattach the proximity sensor cover (removed in step 15) and then close the right door.

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.



d238m0571b



d238m0572

[A]: The supplied driven roller has flat rollers.

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

29. Attach the paper support guide [A] (Tab x 4).



d238m0573b



30. Install the internal finisher [A].



d238m1331

31. Secure the finisher (🔑 x 1, Accessory No.8).



d7662056

32. Reattach the left rear cover [A]



🔑 x2

d238m1006

33. Reattach the left upper cover [A].



🔑 x1

d238m0002b

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



d7662057

35. Attach the paper exit tray [A] (🔩 x 2, Accessory No.4).



d766z2059

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

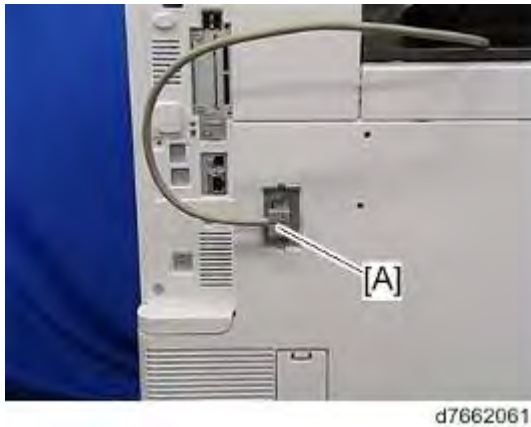


d7662075

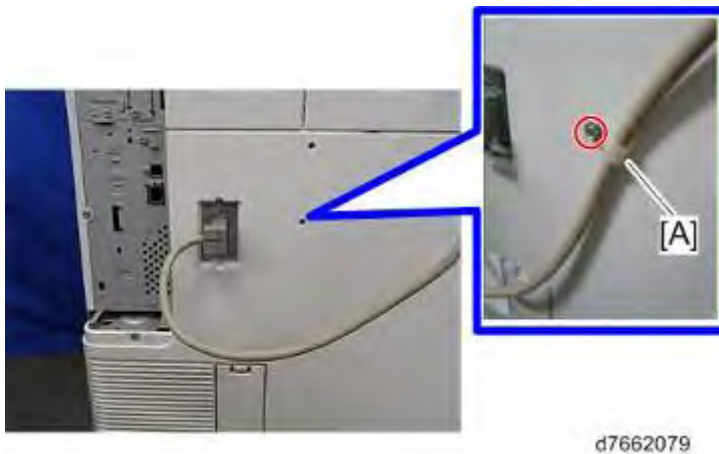
37. Remove the Connector cover [A] (Release the tab).



38. Connect the interface cable [A].



39. Attach the nylon clamp [A] as shown below (🔧 x 1, Accessory No.9).



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

2.24.3 STAPLELESS STAPLER INITIAL SETTINGS

Note

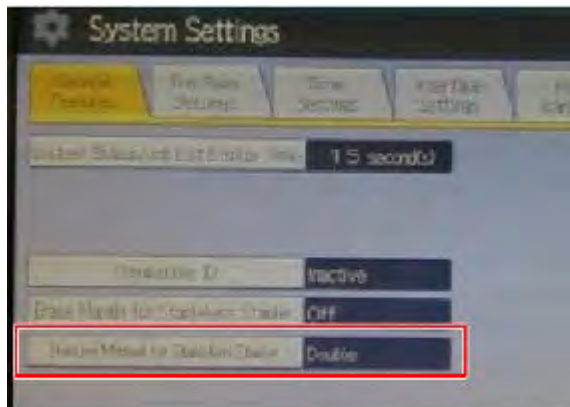
- To adjust the strength of the crimp between sheets of stapled paper, there is a setting to select either single or double stapling.
- The crimp is weakened when there is an image (toner) at the point which is to be stapled. There also is a setting to mask the image on the point for stapling, in order 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 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.

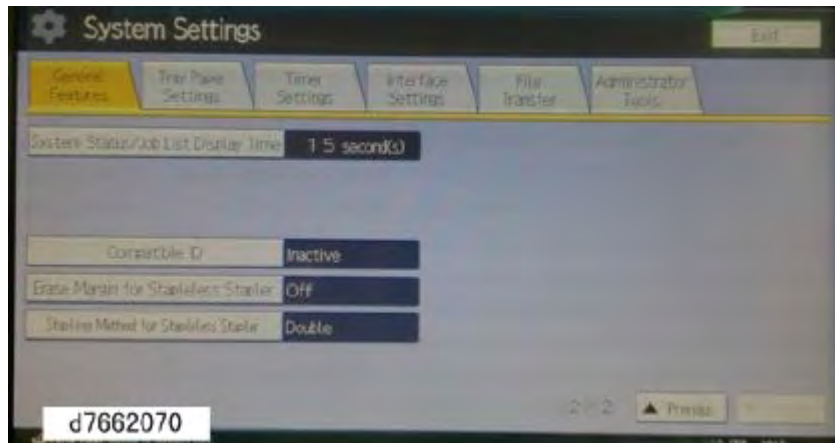
1. Press the [User Tools] icon on Home screen.
2. Press [Machine Features] > [System Setting] > [General Setting] > [Stapling Method for Stapleless Stapler].
3. Select [Double] or [Single].



d7665070a

How to set Margin Erase for Stapleless Stapler

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

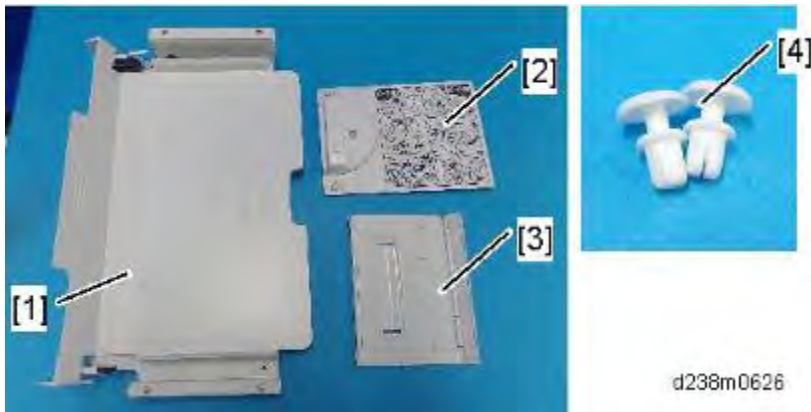


2.25 BANNER PAPER GUIDE TRAY TYPE M19 (D3BF)

2.25.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Main Tray	1	
2	Lock Plate	1	
3	Sub Tray	1	
4	Rivet	2	

Installation



2.25.2 INSTALLATION PROCEDURE

⚠ CAUTION

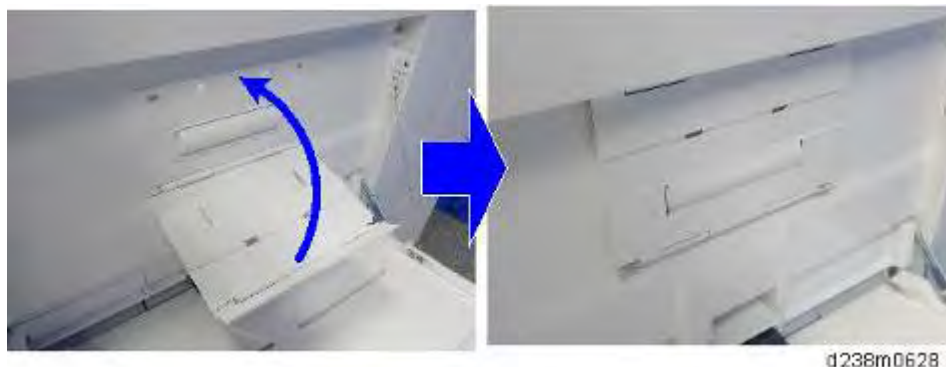
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Be careful not to get your finger caught in the area indicated by the red frame (the tray's rotating and insertion part).



1. Open the by-pass tray, and then attach the sub tray [A]. (Rivet x2)

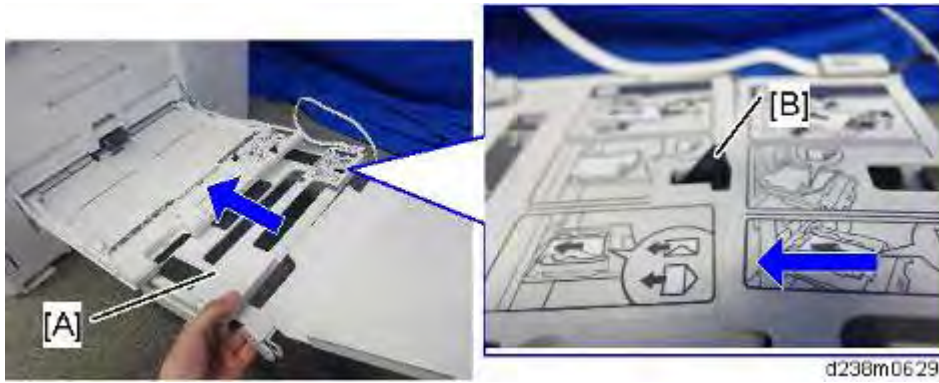


2. Fold the sub-tray.



3. While pressing down the feeler [B] on the bypass tray, push the main tray [A] into the bypass tray to attach it.

When you attach the tray, hold it with both hands to make sure that it does not fall.

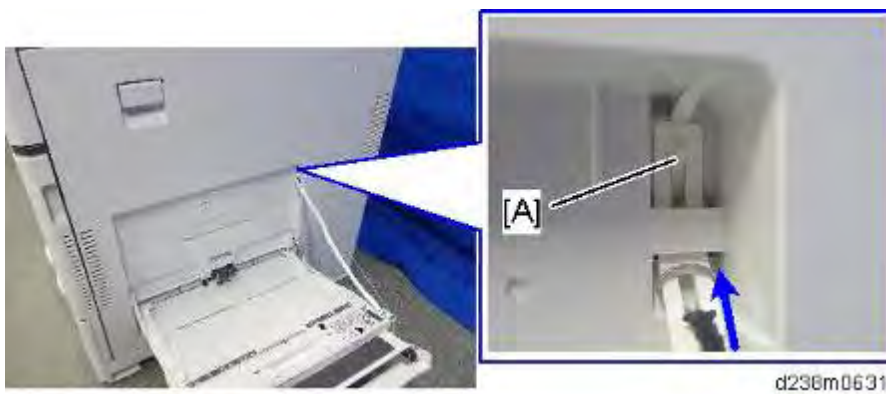


↓ Note

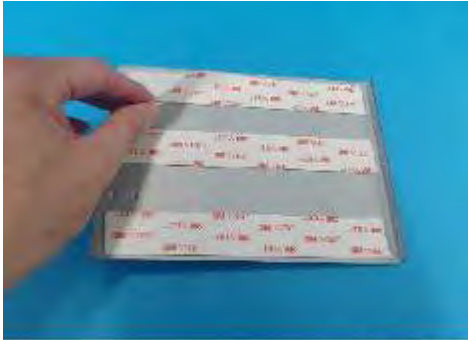
- Check if the locks on the main tray's sides are engaged.



4. Attach the belt by engaging it with the hooks [A].



5. Remove the backing paper for the double-sided tapes on the lock plate.



d238m0632

6. Stick the lock plate [B] with its center aligned with the indentation [A] on the right door.



d238m0633b

7. Tuck in the banner paper guide tray [A].



d238m0634b

Note

- The double-sided adhesive tapes stick firmly in about one day.

Important

- When replacing the parts of the Banner Paper Guide Tray, use the installation procedure above in reverse order as a reference in order to make it easier to disassemble the unit.

2.26 IMAGEABLE AREA EXTENSION UNIT TYPE M19 (D3BR-07)

2.26.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Paper transfer roller (Extended)	1	

Installation



d238m0677

2.26.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

★ Important

- Do not touch the roller surface during replacement. Also, when taking out the unit from the box, be careful not to touch the roller surface [A].



d238m0678

1. Enter the SP mode.

2. **Set SP2-400-001(Paper Transfer Roller Settings Width of Paper Transfer Roller) to "1."**

↓ **Note**

- When SP2-400-001 is changed over, a message is displayed stating "Switch the power OFF/ON."

3. **After the SP is changed, turn OFF the main power.**

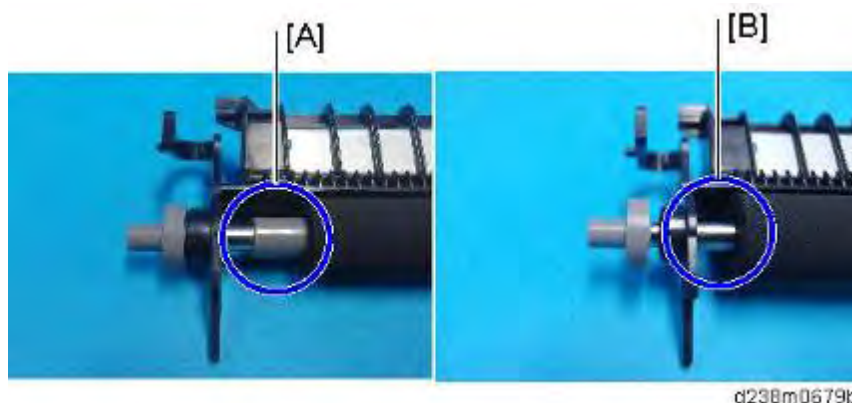
4. **Replace the roller [A].**

For details about how to replace the roller, refer to page 4-92 "Paper Transfer Roller."



↓ **Note**

- During PM replacement, do not install the wrong type of roller.



- [A]: The standard roller has a gray collar at its end.
- [B]: Imageable Area Extension Unit Type M19 does not have a collar on it.

5. **Turn ON the main power.**

6. **Using SRA3 paper, check that a full-bleed halftone image is output, and that the image extends to 315 mm in width.**

SP descriptions

▪ **SP2-400-001 (Paper Transfer Roller Settings)**

Specifies the width of the Paper Transfer Roller. This SP must be set to "1" when Imageable Area Extension Unit Type M19 is installed.

0: Default roller

1: Wide roller

When you forgot to change the SP

The following problems occur.

When a change-over was made from a standard roller to the imaging range extension option

(If the SP setting is the normal setting (SRA3 paper not supported), but the optional longer paper transfer roller is installed)

- The image cannot be correctly transferred to the SRA3 paper area.
- The MUSIC/program control pattern adheres to the ends of the paper transfer roller (outside the A3 area), and this can transfer to the underside of printouts.
- Real-time process control cannot be performed correctly, and an abnormal image and SC285-00 (MUSIC error) may occur.

When a change-over was made from the imaging range extension option to a standard roller

(If the SP setting is for SRA3, but the paper transfer roller is the normal one (SRA3 paper not supported))

- Real-time process control is not performed, and the interval between process controls becomes short.
- The waiting time for fusing temperature rise is longer than intended.

2.27 EXTERNAL KEYBOARD BRACKET TYPE M19 (D3BR-10)

2.27.1 ACCESSORY CHECK

Description	Q'ty	Remarks
Keyboard table bracket	1	
Keyboard stand bracket	1	
Keyboard stand	2	
Screw: M4 x 12	2	
Screw: M3 x 8	4	
Screw: M3 x 12	1	

ⓘ Note

- This optional unit is not supplied with a keyboard. Use a commercially available keyboard.

2.27.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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 door, and then remove the small cover [A].



 x1

d236m553

2. Remove the proximity sensor cover [A].

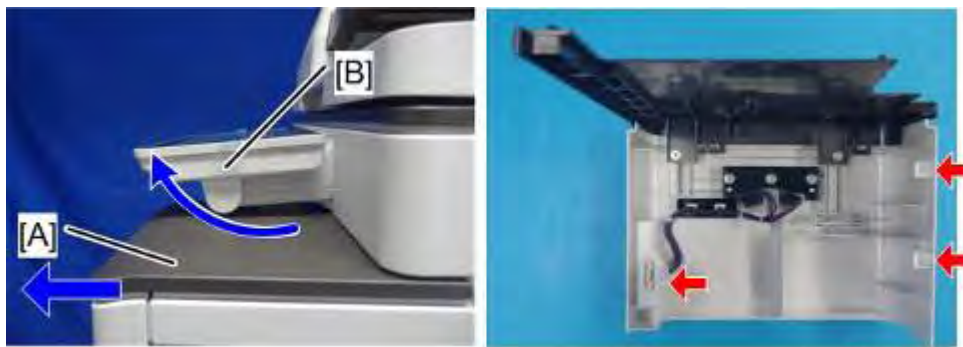


d238m554

x1, x1

Note

- Remember that there is a tab at the positions of the red arrows.
- Rotate the operation panel [B] upward to a horizontal position, and then detach the proximity sensor cover [A].



d238m555

3. Remove the screw [A] on the frame of the machine.

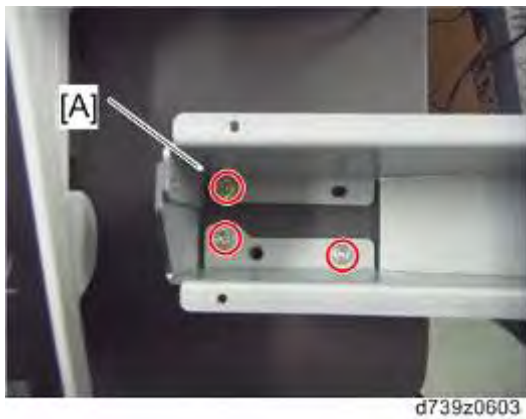


d739z0601

4. Make 3 screw holes in the proximity sensor cover.



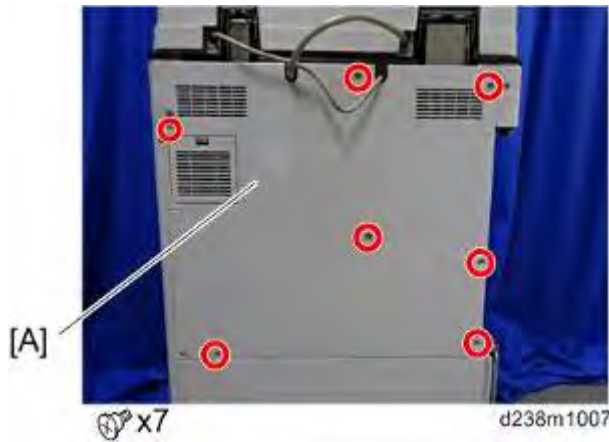
5. Reattach the proximity sensor cover to the machine.
6. Attach the keyboard stand bracket [A] on the proximity sensor cover (🔩x3).



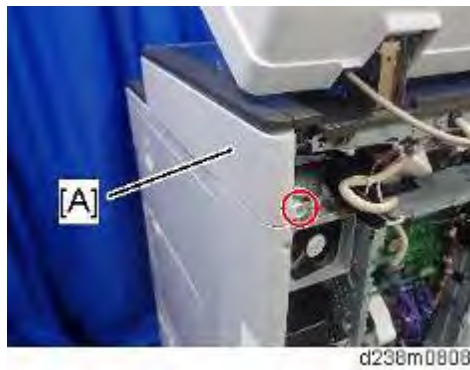
7. Attach the keyboard stand [A] on the keyboard stand bracket (🔩x4).



8. Place a keyboard on the keyboard stand, and then pass the keyboard cable through the hole in the keyboard stand.
9. Remove the rear cover [A].



10. Remove the scanner right cover [A] (🔩 x1)



11. Route the keyboard cable [A] along the right side of the scanner unit as shown below.



12. Route the keyboard cable along the rear side of the scanner unit (🔩 x1).
 - Adjust the keyboard cable by making loops if the keyboard cable has too much slack.

External Keyboard Bracket Type M19 (D3BR-10)



13. Remove the cutout [A] in the left rear cover to make a cable hole, and then pass the keyboard cable [B] through it.



14. Connect the keyboard cable to the USB slot.

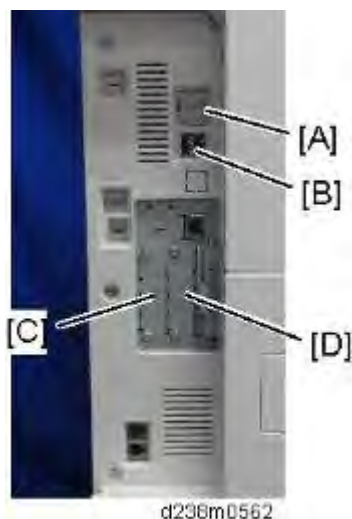


15. Reattach the scanner right cover, and rear cover.
16. Close the right door.

2.28 INTERNAL OPTIONS

2.28.1 LIST OF SLOTS

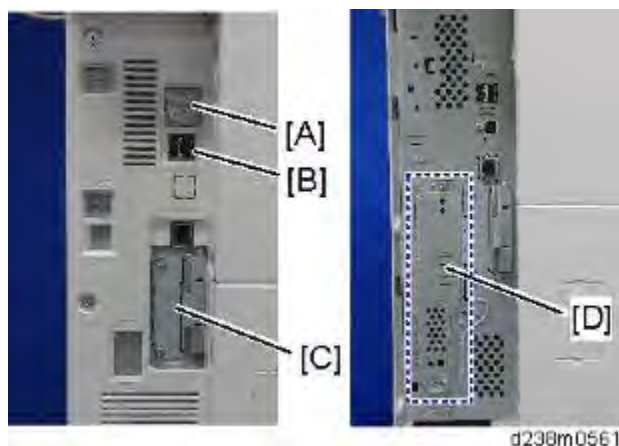
MP C4504/C5504/C6004



Slot		Option
[A]	USB mini	Used for the PictBridge function.
[B]	USB port ^{*2}	<ul style="list-style-type: none"> ▪ Bluetooth Interface Unit Type D (D566) ▪ Smart Card Reader Built-in Unit Type M19 (D3BS-22) ▪ NFC Card Reader Type M19 (D3BS-21) ▪ External Keyboard Bracket Type M19 (D3BR-10)
[C]	I/F slot (left)	<ul style="list-style-type: none"> ▪ USB Device Server Option Type M19 (D3BC-28, -29) ▪ Extended USB Board Type M19(D3BS-01) ▪ IEEE 1284 Interface Board Type M19 (D3C0) ▪ IEEE 802.11a/g/n Interface Unit Type M19 (D3BR-01) ▪ RC-GATE*1
[D]	I/F slot (right)	<ul style="list-style-type: none"> ▪ File Format Converter Type M19 (D3BR-04) ▪ RC-GATE*1

*1 RC-GATE can be fitted to either of the two I/F slots.

*2 There is no difference between the left and right USB port.

MP C3004/C3504

Slot		Option
[A]	USB mini	Used for the PictBridge function.
[B]	USB port*2	<ul style="list-style-type: none"> ▪ Bluetooth Interface Unit Type D (D566) ▪ Smart Card Reader Built-in Unit Type M19 (D3BS-22) ▪ NFC Card Reader Type M19 (D3BS-21) ▪ External Keyboard Bracket Type M19 (D3BR-10) ▪ USB Device Server Option Type M19 (D3BC-28, -29) ▪ Extended USB Board Type M19 (D3BS-01)
[C]	I/F slot	<ul style="list-style-type: none"> ▪ IEEE 1284 Interface Board Type M19 (D3C0) ▪ File Format Converter Type M19 (D3BR-04) ▪ IEEE 802.11a/g/n Interface Unit Type M19 (D3BR-01) ▪ RC-GATE
[D]	I/F slot*1	Fax Option Type M19 (D3BV-01)

*1 Dedicated slot for fax unit

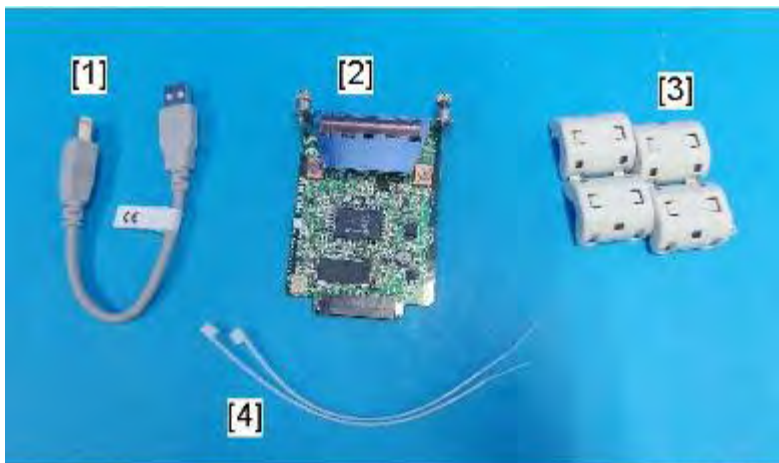
*2 There is no difference between the left and right USB port.

2.29 USB DEVICE SERVER OPTION TYPE M19

(D3BC-28,-29)

2.29.1 COMPONENT CHECK

No	Items	Q'ty	Remarks
1	USB Cable	1	
2	Interface Board	1	
3	Ferrite Core	2	
4	Cable Ties	2	

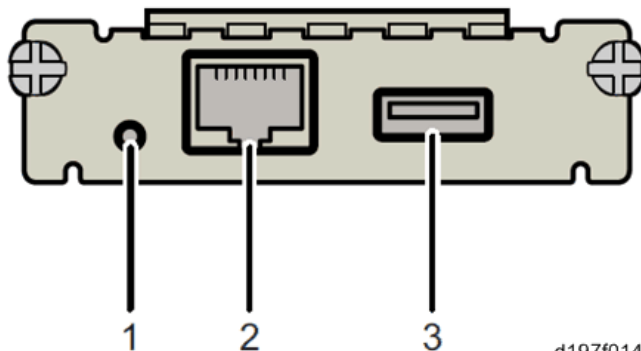


d238m0666

Note

- An Ethernet cable is not packed with this option.

Interface Board Surface

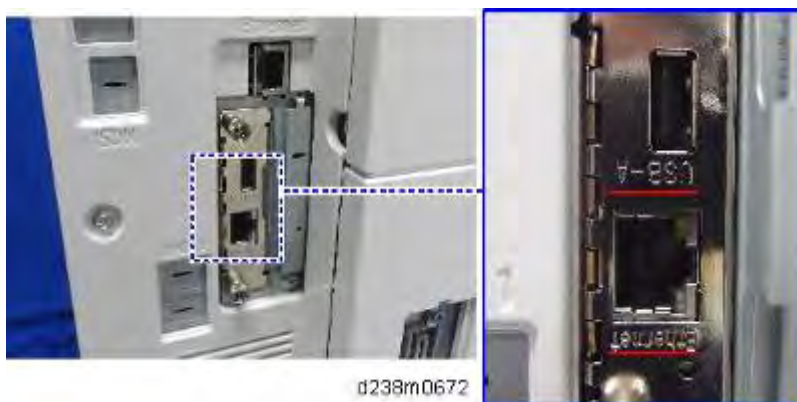


d197f0142

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. Do not use this port with other options.

Note

- When installing the USB device server option, make sure that the labels 'USB-A' and 'Ethernet' are upside down.



2.29.2 INSTALLATION PROCEDURE

CAUTION

- 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.


Important

- 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.

- Turn OFF the main power of the machine, and unplug the power cord from the wall socket.
- Remove the slot cover [A].

MP C4504/C5504/C6004: Remove the exterior cover [B], then remove the left slot cover [A].




 x2



d238m0656b

MP C3004/C3504:




 x2

d238m0657

- 3. Insert the interface board [A] into the I/F slot.




 x2

d238m0671

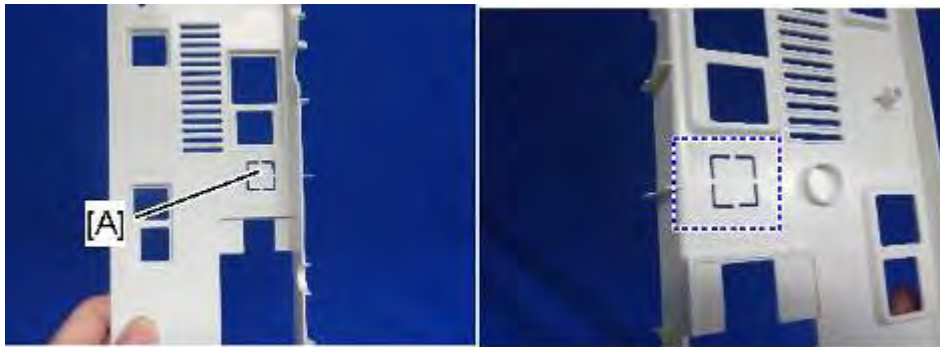
- 4. Remove the I/F cover [A].



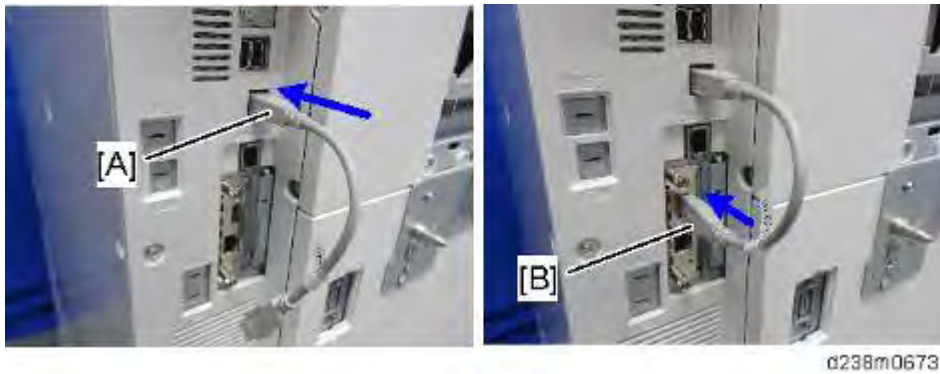
 x3

d238m0675

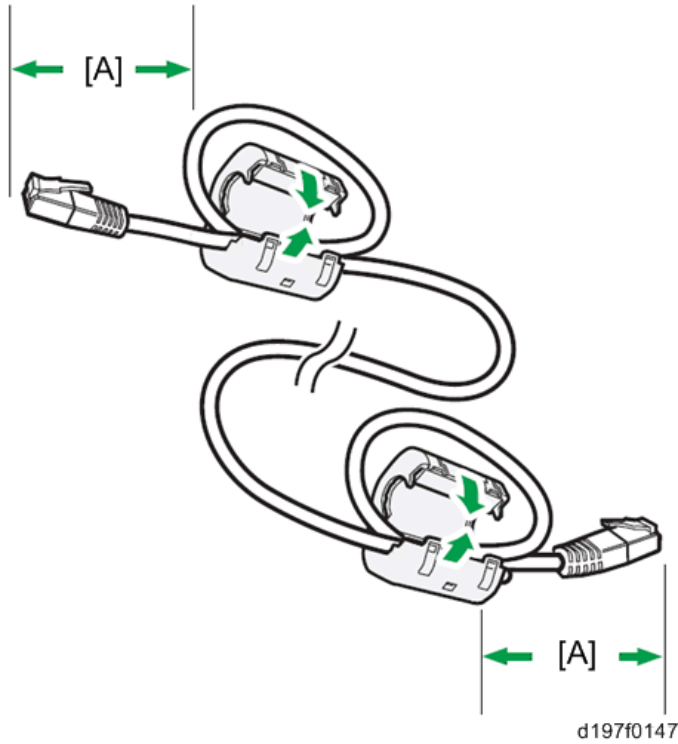
5. Cut off the USB port cover [A] with nippers or other such tool.



6. Reattach the I/F cover.
7. Insert the USB cable [A] into the USB port (Type A) on the machine I/F.
8. Insert the other side of the USB cable [B] into the USB port (Type B) on this option board.

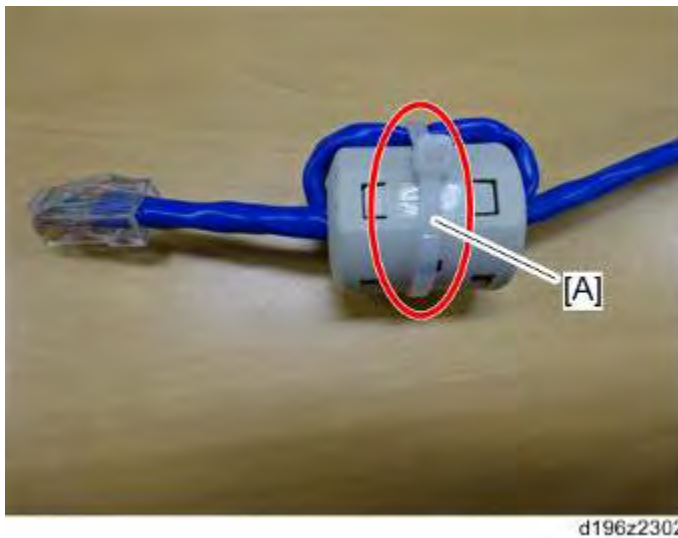


9. Attach the ferrite cores to the Ethernet cable, while looping the cable at 3 cm (approx. 1.2 inch) [A] from the each end of the cable.



- 10. 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.



- 11. Insert the Ethernet cable [A] into the Ethernet port on this option.**



d238m0674

12. Insert the other end of the Ethernet cable to a PC for network setting.

13. Plug the power cord into the wall socket and turn on the main power of the machine.

Note

- 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.

14. Make sure that the machine recognizes this option correctly by doing one of the following:

- Access the option's IP address from a web browser.
- 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.



d196z2350

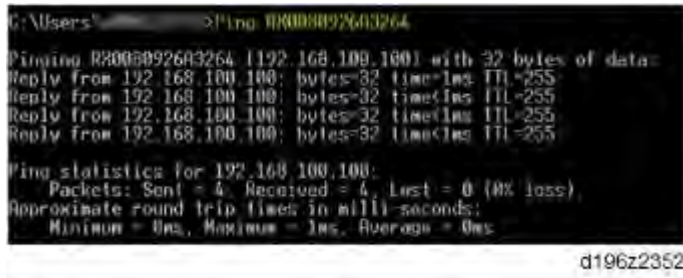
- Use "RX" + the option's MAC address and access a web browser.

Example: <http://RX0080926A3264>



d196z2351

4. Ping "RX" + "MAC address" from the command prompt on a windows PC which is on the same network as the mainframe.



```
C:\Users>Ping R20058926A3264
Pinging R20058926A3264 [192.168.100.100] with 32 bytes of data:
Reply from 192.168.100.100: bytes=32 time=1ms TTL=255
Reply from 192.168.100.100: bytes=32 time=1ms TTL=255
Reply from 192.168.100.100: bytes=32 time=1ms TTL=255
Reply from 192.168.100.100: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.100.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

d196z2352
```

Note

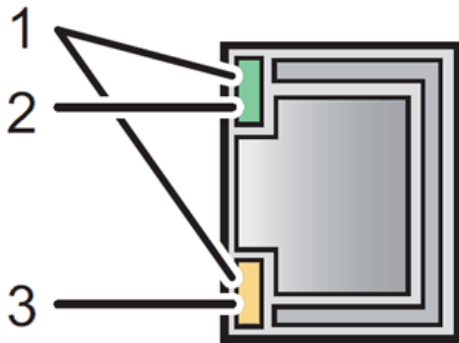
- When installing the USB Device Server Option Type M19, the installation status is not shown on the Configuration Page.

Note

- 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.



d197f0149

No.	Light Color	Lights Up When:
1	Green and Yellow	1000BASE-T operates
2	Green	10BASE-T operates
3	Yellow	100BASE-TX operates

⇒ Deleted unnecessary content

2.29.3 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.

★ Important

- 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.

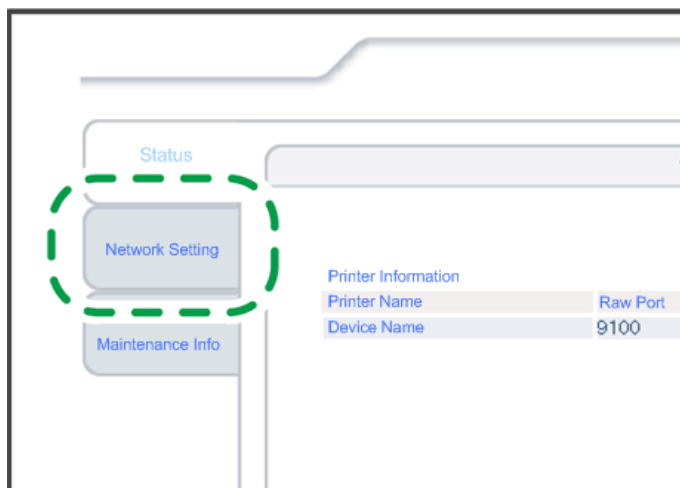
1. Make a note of the current network settings of your PC.

2. Change the IP address on your PC to [192.168.100.xxx (*0 - 255)].
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.
6. Press the "Enter" key.

Note

- The setting screen for this option appears.

7. Click [Network Setting].



d197f0134

8. Type [root] in the user name textbox and click [OK].
9. Input [IP Address], [Subnet Mask] and [Default Gateway].



d197f0135a

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.

2.30 EXTENDED USB BOARD TYPE M19 (D3BS-01)

2.30.1 COMPONENT CHECK

No	Items	Q'ty	Remarks
1	Extended USB Board	1	



d238m0668

2.30.2 INSTALLATION PROCEDURE

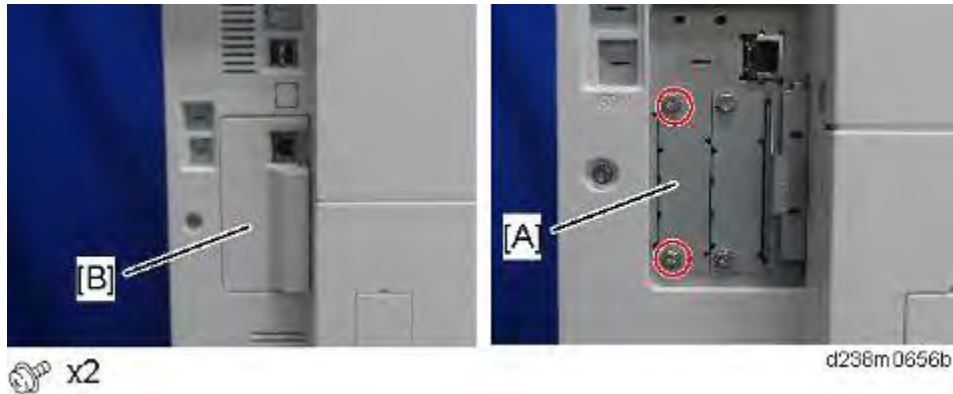
⚠ CAUTION

- 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. Before installing this option, disable (Set to 0: OFF) the STR shift function by SP5-191-001 (Power Str Set). If installing without disable the STR shift function, SC672-00/ SC672-11 may occur.

2. Remove the slot cover [A].

MP C4504/C5504/C6004: Remove the exterior cover [B], then remove the left slot cover [A].



MP C3004/C3504:



3. Insert the Extended USB Board into the I/F slot.
4. Turn ON the main power.
5. Check that the system settings list is output, and that the board is recognized correctly.

Note

- The customer should keep the slot covers which were removed.

2.31 IEEE 1284 INTERFACE BOARD TYPE M19 (D3C0)

2.31.1 ACCESSORIES

No.	Description	Qty	Remarks
1	IEEE 1284 Interface Board	1	
2	FCC document	1	
3	Notes for users	1	



d238m0655

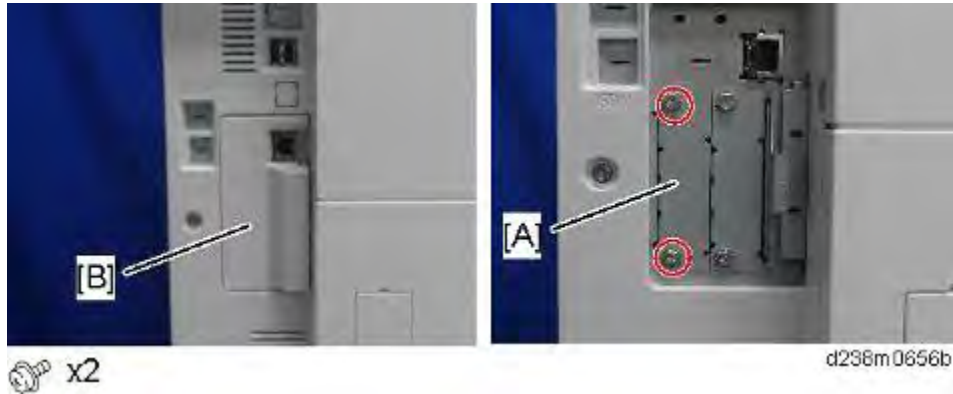
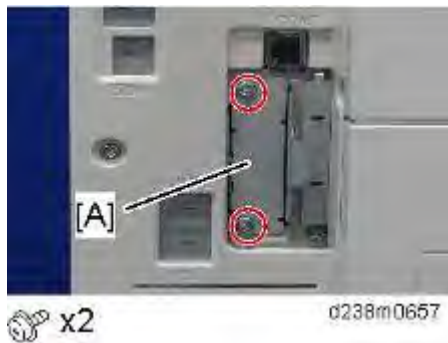
2.31.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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 slot cover [A].

MP C4504/C5504/C6004: Remove the exterior cover [B], then remove the left slot cover [A].

**MP C3004/C3504:**

2. Insert the IEEE 1284 Interface Board into the I/F slot.
3. Turn ON the main power.
4. Check that the system settings list is output, and that the board is recognized correctly.

Note

- The customer should keep the slot covers which were removed.

2.32 IEEE 802.11AGN INTERFACE UNIT TYPE M19 (D3BR-01)

This option is not available in China, Taiwan, and Korea.

2.32.1 ACCESSORY CHECK

No.	Description	Q'ty
1	IEEE802.11a/g/n Unit	1
2	Clamps	2
3	Velcro Fasteners	8
4	Notes for Users	2



★ Important

- 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.

2.32.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

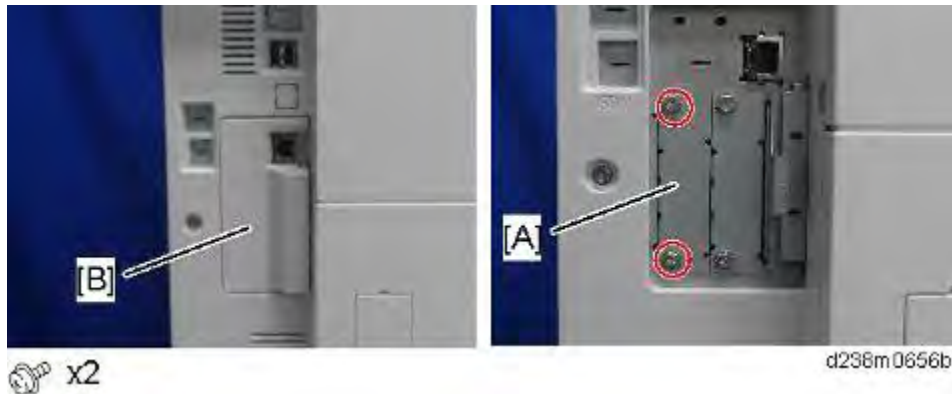
★ Important

- When using wireless LAN (IEEE802.11 b/g/n:2.4-GHz band), this radio product uses the 2.4-GHz band. 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.

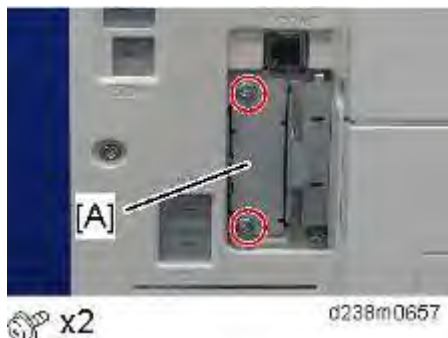
Attaching the boards

1. Remove the slot cover [A].

MP C4504/C5504/C6004: Remove the exterior cover [B], then remove the left slot cover [A].



MP C3004/C3504:



2. Insert the extended wireless LAN board [A] into the slot (🔧 x2)

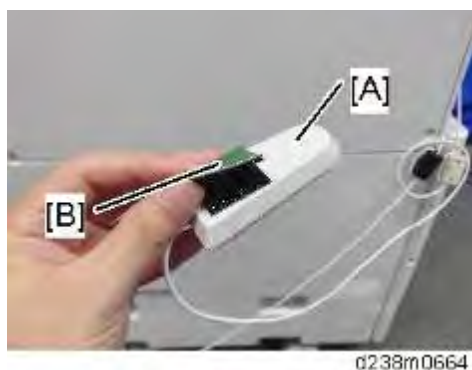


↓ Note

- Press the extended wireless LAN board firmly in, and check it is firmly connected.
- The customer should keep the slot covers which were removed.

Attaching the antenna

1. Attach the velcro fastener [B] (provided with the accessories) on the antenna [A].



2. Peel the backing paper off the velcro fastener, and attach the antenna on the rear cover and scanner left cover as shown (🔧 x4).



↓ Note

- 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 the option is recognized correctly.

2.32.3 USER TOOL SETTINGS FOR IEEE 802.11A/G/N

Go into the User Tools mode and do the procedure below. These settings take effect every time the machine is powered on.

⬇ Note

- IEEE 802.11a/g/n function is disabled while using Ethernet.

1. Press the "User Tools" icon.
2. Press "Machine Features" > "System Settings."

⬇ Note

- 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.)
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 MHz (36, 40, 44 and 48 channels)
(default: 11)

⬇ Note

- 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.

2.32.4 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
SP5-840-006	Channel MAX	Sets the maximum range of the channel settings for the country.
SP5-840-007	Channel MIN	Sets the minimum range of the channels settings allowed for your country.
SP5-840-008	Transmission Speed	Sets the transmission speed. Auto, 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps (default: Auto).
SP5-840-011	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 Key entry.
	WPA2 Authent. Method	Used to confirm the current WPA authentication setting and preshared key.

2.33 FILE FORMAT CONVERTER TYPE M19 (D3BR-04)

2.33.1 ACCESSORY CHECK

No.	Description	Q'ty
1	File Format Converter	1
2	Notes for Users	1

Installation



2.33.2 INSTALLATION PROCEDURE

⚠ CAUTION

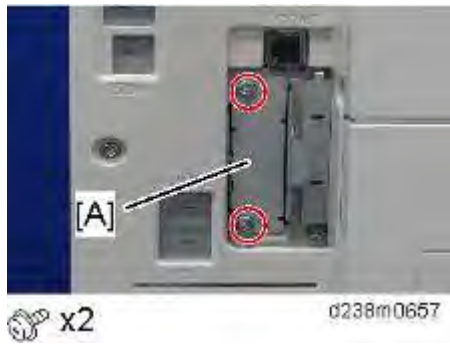
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do not put your hand into the controller box. It will result in a malfunction or injury.
- Before doing 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 slot cover [A].

MP C4504/C5504/C6004: Remove the exterior cover [B], then remove the right slot cover [A].



MP C3004/C3504:



2. Insert the file format converter board into the I/F slot.
3. Turn ON the main power.
4. Check the system settings list is output, and that the option is recognized correctly.

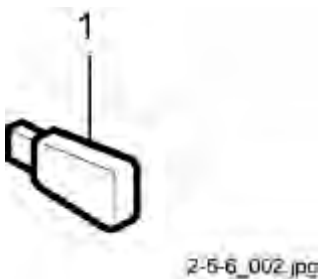
Note

- The customer should keep the slot covers which were removed.

2.34 BLUETOOTH INTERFACE UNIT TYPE D (D566-01)

2.34.1 ACCESSORY CHECK

No.	Description	Q'ty
1	Bluetooth Module	1
-	CD-ROM	2



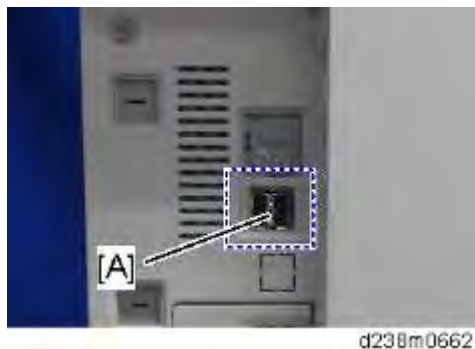
2.34.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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.

1. Attach the BT wireless interface to the USB-A slot [A].

There is no difference between the left and right USB ports.



2. Turn ON the main power.
3. Check the system settings list is output, and that the option is recognized correctly.

2.35 MEMORY UNIT TYPE M19 4GB

2.35.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Memory Unit (DDR3L-DIMM 4G)	1	



2.35.2 INSTALLATION PROCEDURE

⚠ CAUTION

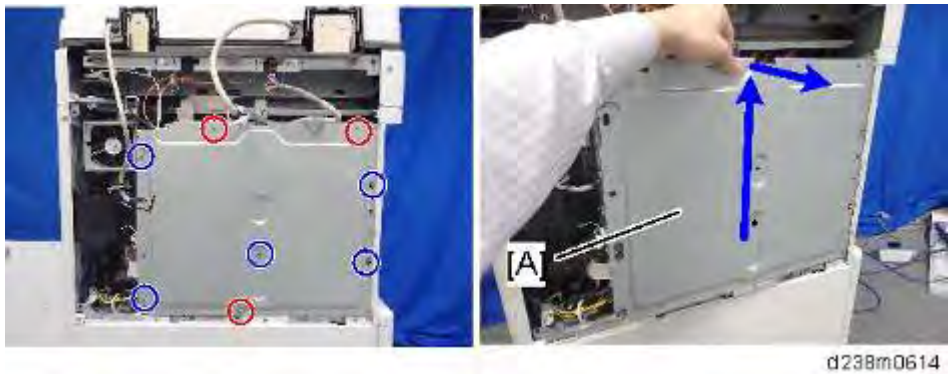
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the rear cover [A].



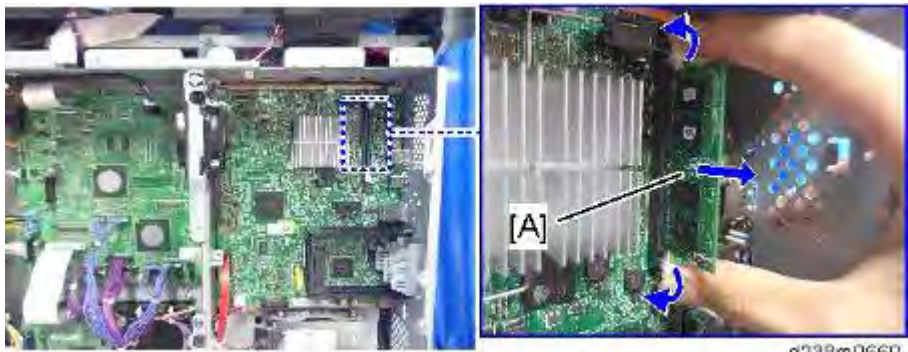
2. Remove the controller box cover [A].

Red Circle: Remove / Blue Circle: Loosen



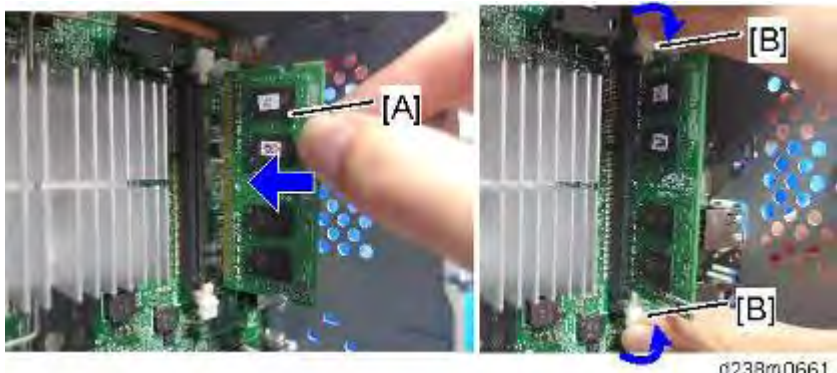
d238m0614

3. Release the latches and remove the standard 2GB DIMM [A].



d238m0660

4. Insert the Memory Unit Type M19 4GB [A] into the SDRAM socket.
Push the release latches [B] until they slip into the notch on the edge of the SDRAM.



d238m0661

5. Reattach the controller box cover and rear cover.
6. Turn ON the main power.
7. Print out the system setting list to make sure that the memory unit is recognized properly.

2.36 ENHANCED SECURITY HDD OPTION TYPE M12 (D3A6-02)

2.36.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Enhanced Security HDD	1	
-	EMC Address	1	



d191b0076

2.36.2 INSTALLATION PROCEDURE

⚠ CAUTION

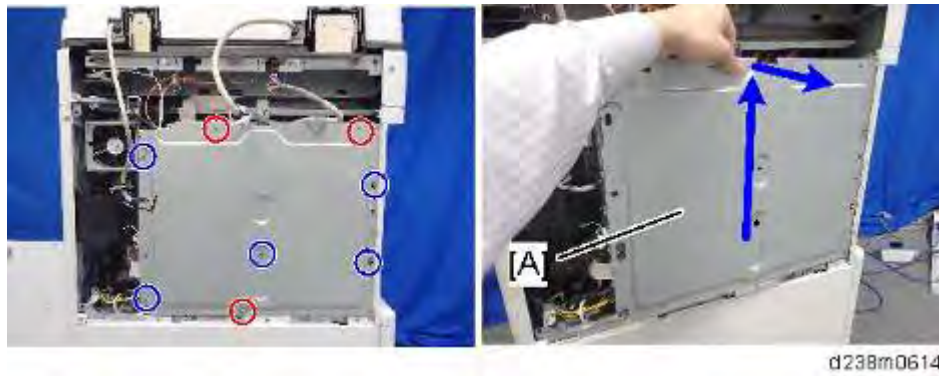
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the rear cover [A].



2. Remove the controller box cover [A].

Red Circle: Remove / Blue Circle: Loosen

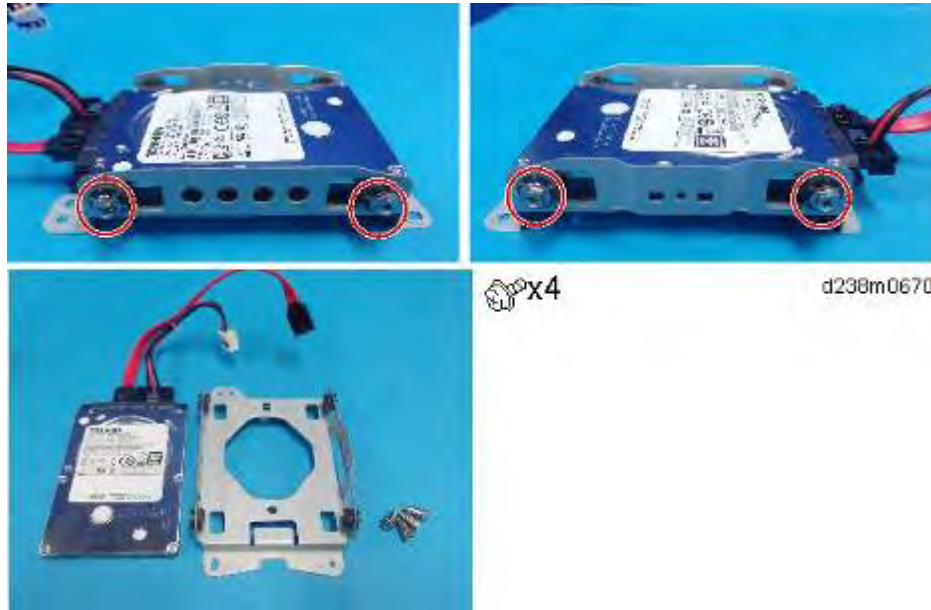


3. Remove the standard HDD [A] installed on the machine.



4. Separate the standard HDD from the bracket.

Enhanced Security HDD Option Type M12 (D3A6-02)



5. Disconnect the cables from the standard HDD. (👉 x 2)



6. Remove the enhanced security HDD from its protective pack.



7. Connect the two cables to the enhanced security HDD. (👉 x 2)

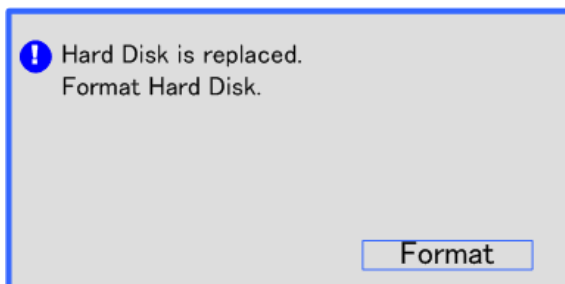


d191b0079

8. Fasten the HDD to the bracket. (🔩 × 4)
9. Install the HDD bracket in the controller box.
10. Reassemble the machine.

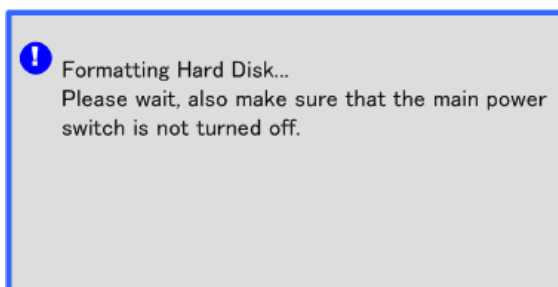
After Installing the HDD

1. Connect the power cord and turn the machine on. A message prompts you to format the hard disk.



d191b0081

2. Touch [Format].

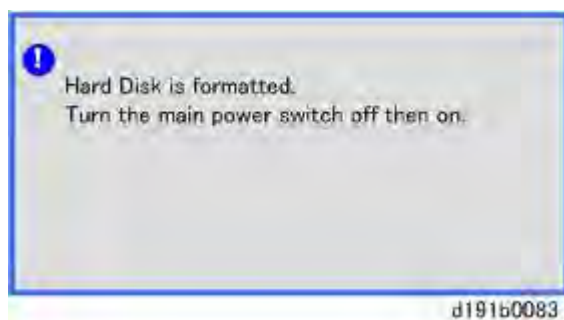


d191b0082

3. Wait for the machine to finish formatting the hard disk.

★ Important

- 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. Enter the SP mode.
6. Do SP5-846-040 to copy the address book to the hard disk from the controller board.
7. Do SP5-846-041 to let the user get access to the address book.
8. Turn the main power OFF and back ON again.
9. Ask an administrator to register an HDD authentication code in the machine.

★ Important

- If the HDD Authentication Code is not registered, the function of the enhanced security HDD is not activated.

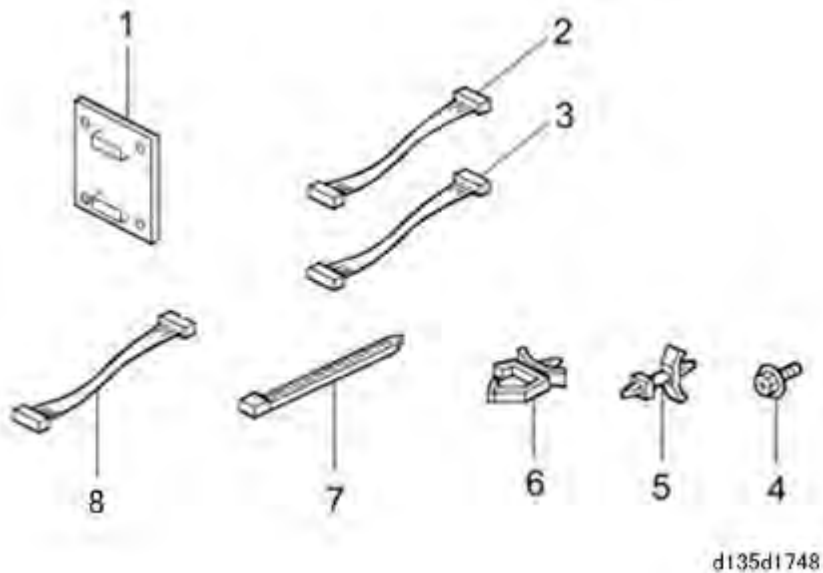
SP descriptions

SP5-846-040	UCS Setting: Addr Book Migration(USB->HDD)
	Copies the address book to the hard disk from the controller board. [Execute]
SP5-846-041	UCS Setting: Fill Addr Acl Info
	This SP must be executed immediately after installation of an HDD unit in a basic machine that previously had no HDD. The first time the machine is powered on with the new HDD installed, the system automatically takes the address book from the NVRAM and writes it onto the new HDD. However, the new address book on the HDD can be accessed only by the system administrator at this stage. Executing this SP by the service technician immediately after power on grants full address book access to all users. [Execute]

2.37 OPTIONAL COUNTER INTERFACE UNIT TYPE M12 (B870-21)

2.37.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	PCB: MKB	1	
2	Harness (MB to MKB) Not Used	1	
3	Harness (MB to MKB) Not Used	1	
4	Screws M3x6	4	
5	Standoffs	4	
6	Clamp	1	
7	Lock Band	1	
8	Relay Harness Not Used	1	

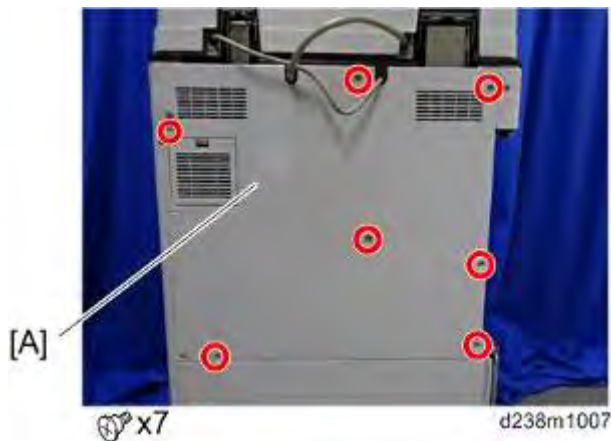


2.37.2 INSTALLATION PROCEDURE

⚠ CAUTION

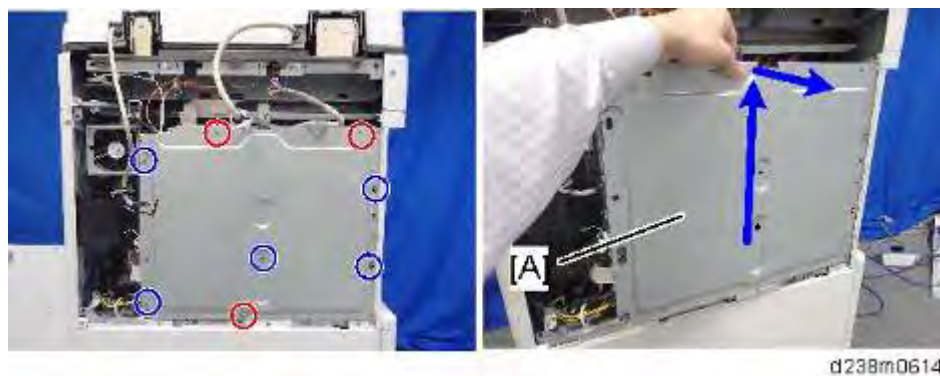
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Remove the rear cover [A].

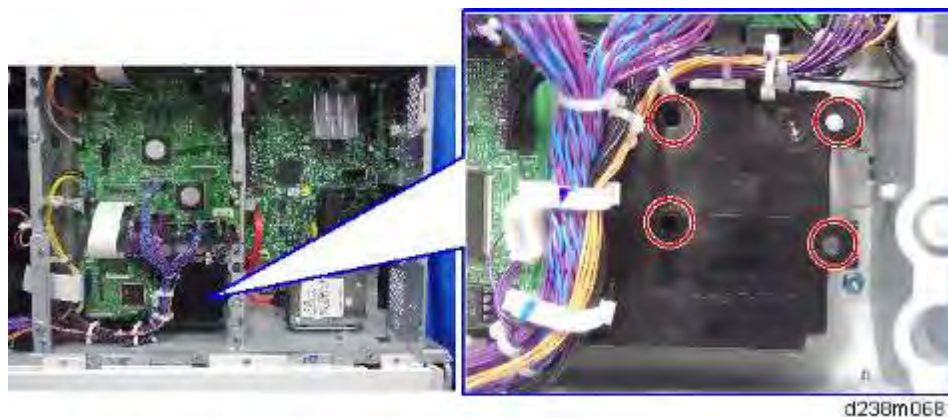


2. Remove the controller box cover [A].

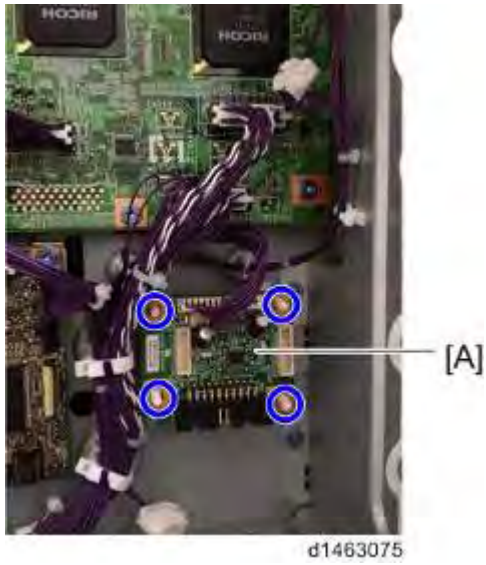
Red Circle: Remove / Blue Circle: Loosen



3. Attach the studs provided with the option on the helmholtz silencer (Stud x4).



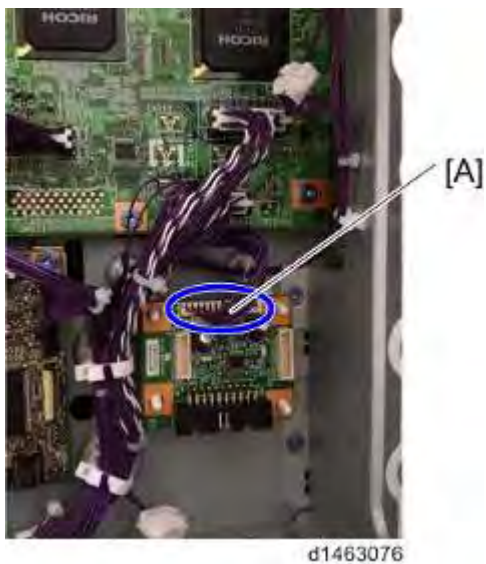
4. Attach the counter interface board [A].



5. Connect the harness of the MFP to the upper connector (white/13 pin) [A].

Note

- Do not use the harness that is provided with the accessories for the interface cable.



2.38 KEY COUNTER BRACKET TYPE M3 (D739-09)



2.38.1 ACCESSORY CHECK

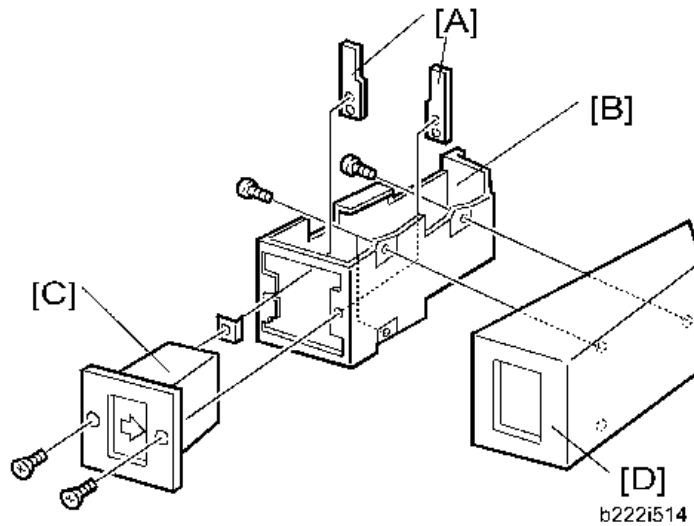
No.	Description	Q'ty	Remarks
-	Screw: M3X8	1	
-	Binding Self-Tapping Screw: M4X8	3	
-	Clamp:LWS-1211Z	2	
-	Clamp:NK-3N	1	
-	Double Sided Tape	2	
-	Key Counter Plate Nut	2	
-	Key Counter Harness	1	

2.38.2 INSTALLATION PROCEDURE

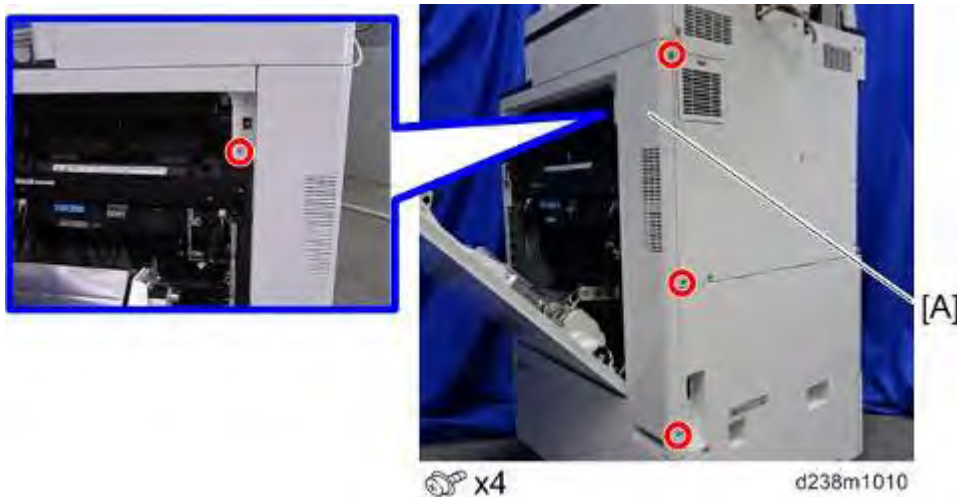
CAUTION

- 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.

- Hold the key counter plate nuts [A] on the inside of the key counter bracket [B] and insert the key counter holder [C].
- Secure the key counter holder to the bracket ( x2).
- Install the key counter cover [D] ( x2).

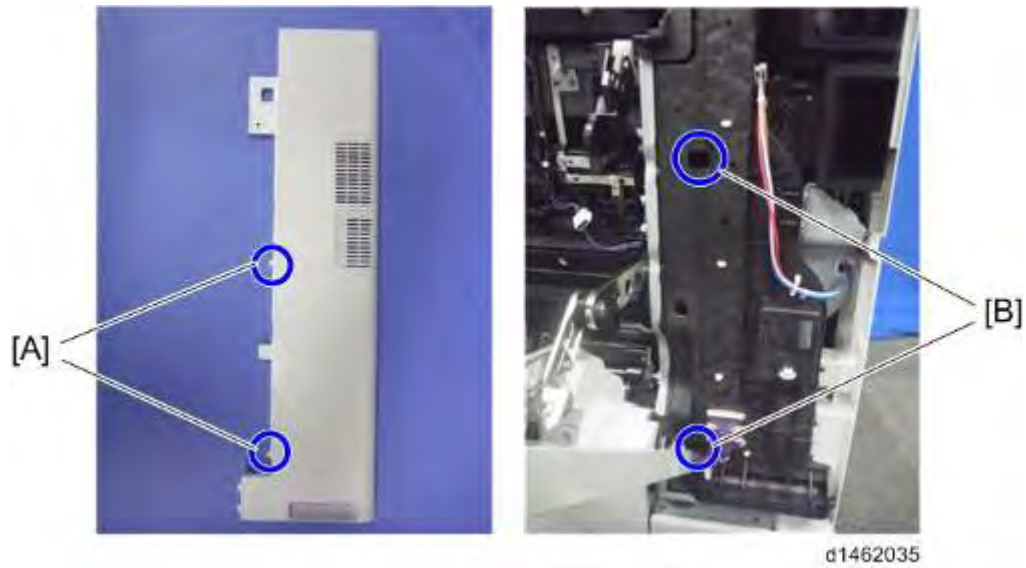


4. Open the right door.
5. Right rear cover [A] (⌀ x4, among them, tapping screw x1)

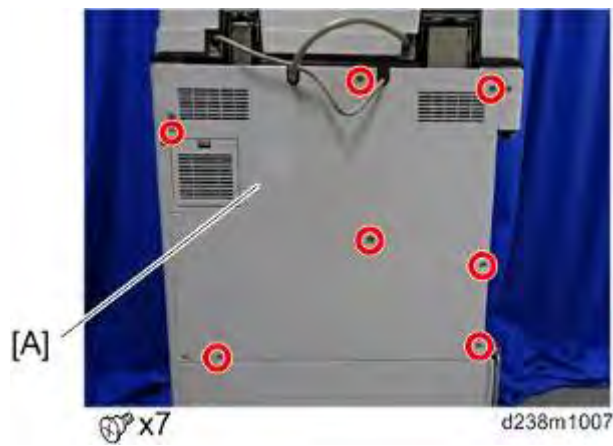


↓ Note

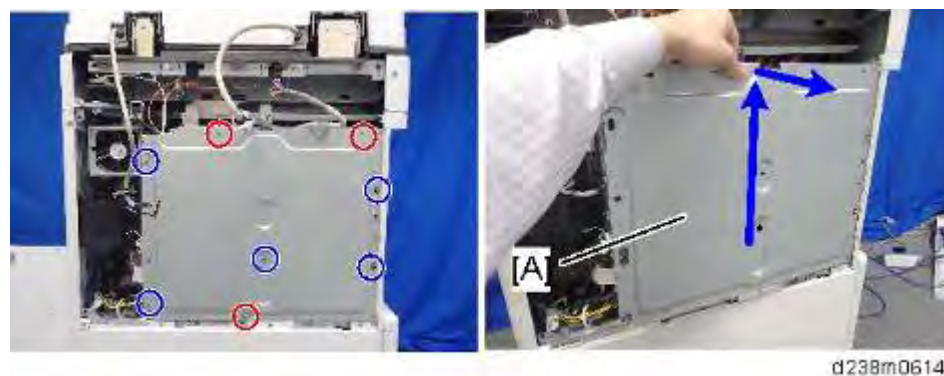
- When installing, insert the projections [A] in the holes [B], taking care not to trap the harness inside.



6. Remove the rear cover [A].



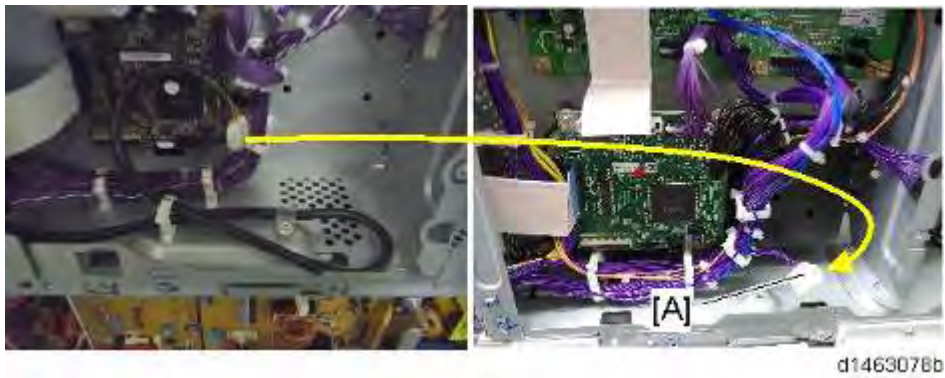
7. Remove the controller box cover [A].
Red Circle: Remove / Blue Circle: Loosen



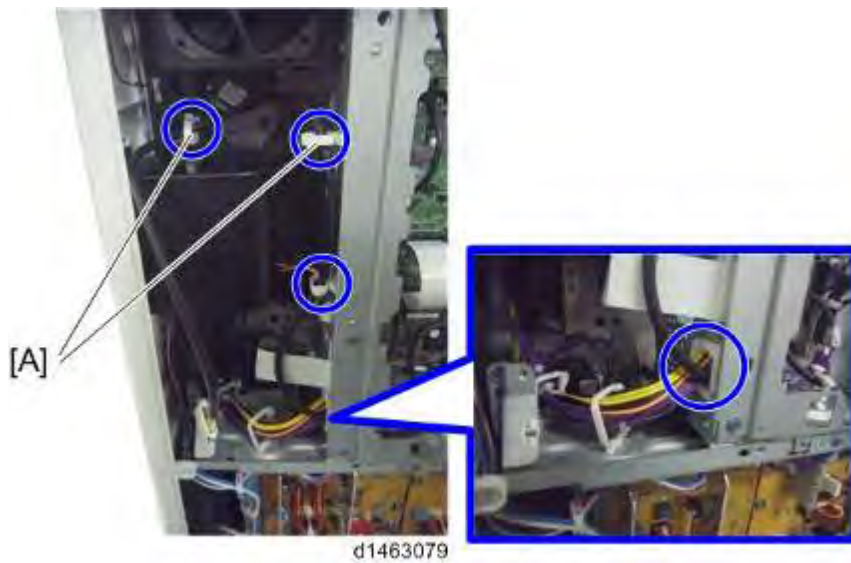
8. Route the key counter's cable inside the machine and fasten it using the screw hole [A].



9. Connect the key counter's cable to the 4-pin connector [A] on the machine.



10. Attach the supplied clamp [A], and then route the cable as shown.



11. Open the slit in the rear cover to put the cable through, and then attach the rear cover while putting the cable through.

Key Counter Bracket Type M3 (D739-09)



12. Connect the key counter and cable.

13. Attach the key counter [A] to the machine's rear right.



14. Reinstall all the covers on the main machine.

15. Peel off double sided tape on the key counter bracket and attach the key counter to the scanner right cover.

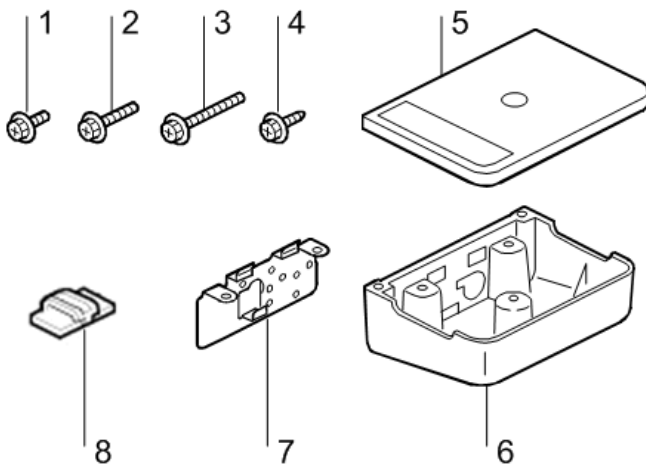
16. Reassemble the machine.

2.39 CARD READER BRACKET TYPE 3352 (D593-61)

2.39.1 COMPONENT CHECK

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

No.	Description	Q'ty	For This Model
1	Screw: M3 x 8	2	Yes
2	Screw: M3 x 14	1	Not used
3	Screw: M4 x 25	1	Yes
4	Tapping Screw: M3 x 10	3	Yes
5	Upper Tray	1	Yes
6	Lower Tray	1	Yes
7	Tray Bracket	1	Yes
8	Clamp	5	Yes



d1822512

2.39.2 INSTALLATION PROCEDURE

⚠ CAUTION

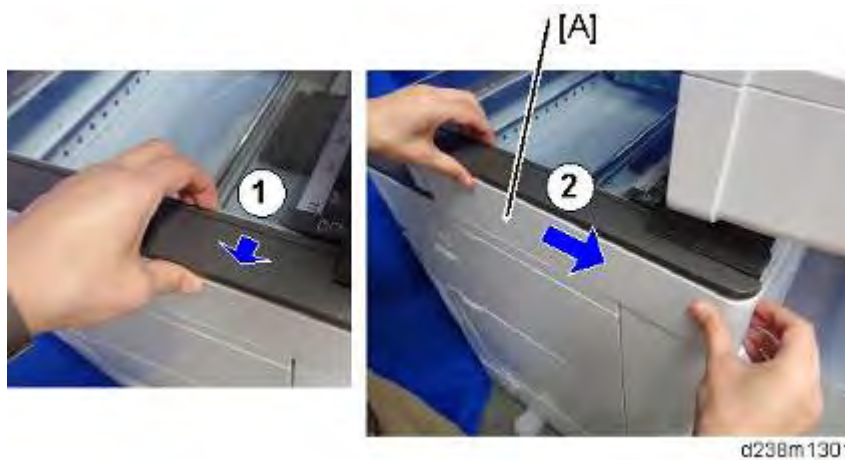
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

1. Open the ADF.
2. Remove a screw for the scanner right cover.



3. Remove the scanner right cover [A].

Remove the hook at the top, and then slide the cover towards the rear.



4. Make 2 screw holes in the removed scanner right cover with a screwdriver or drill.

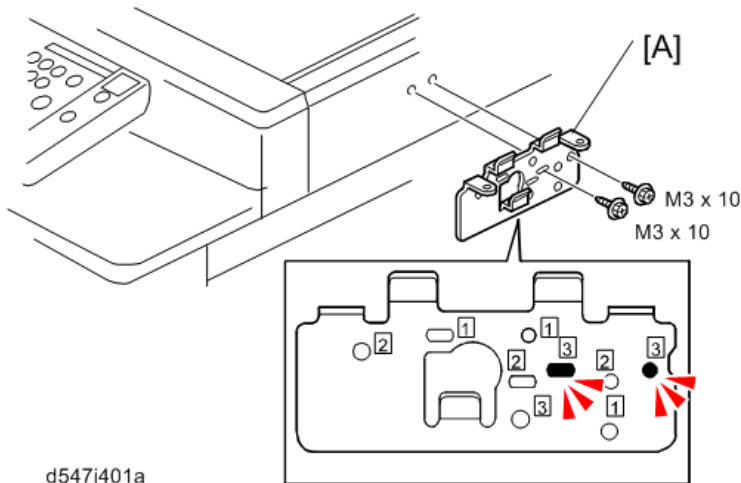
★ Important

- Make the screw holes to be smaller than the screw size.



d146z1019

5. Reattach the scanner right cover (🔩x2).
6. Attach the tray bracket [A] to the scanner right cover (🔩x2: M3x10 tapping screw).
For this model, use the screw holes marked "3" on the table bracket.



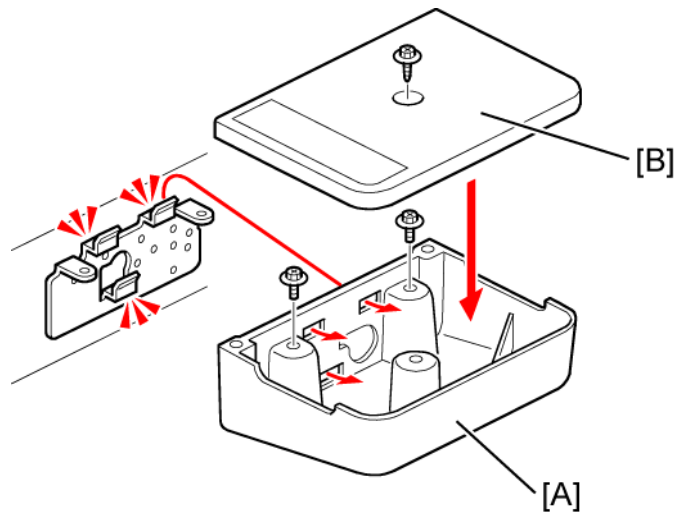
d547i401a



d236m0686

7. Attach the lower tray [A] to the tray bracket (🔩x2: M3 x 8).
8. Attach the upper tray [B] to the tray bracket (🔩x1: M3 x 10).

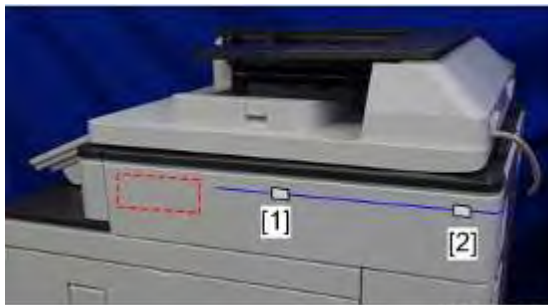
Card Reader Bracket Type 3352 (D593-61)



d120i577

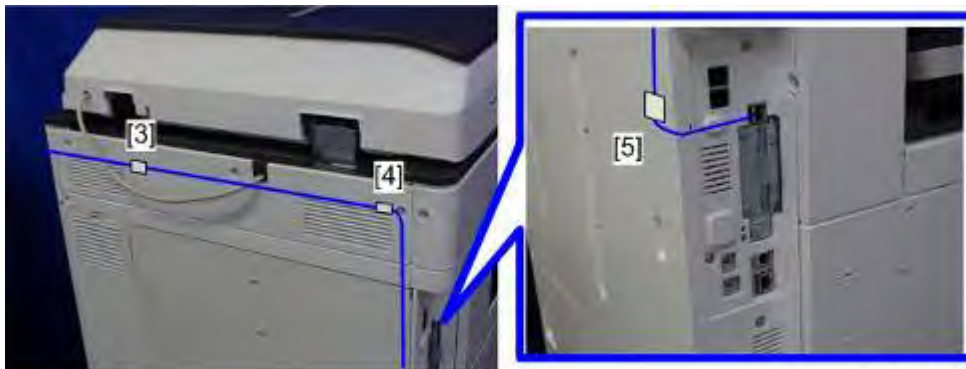
9. Attach the clamps ([1] to [5]) and route the harness around the machine as shown. The USB cable is not supplied. Use a commercially available USB cable.

Scanner Right Cover



d146z1017

Rear Cover



d146z1018

10. Connect the USB cable to the USB A slot.

2.40 NFC CARD READER TYPE M19 (D3BS-21)

2.40.1 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	Ferrite Core (Black)	1	
7	Interface Cable	1	

Installation

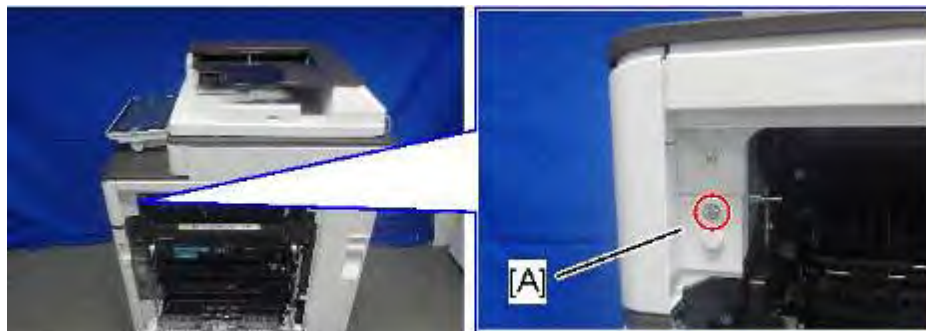


2.40.2 INSTALLATION PROCEDURE

⚠ CAUTION

- 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 door, and then remove the small cover [A].





 x1

d238m553

2. Remove the proximity sensor cover [A].



 x1,  x1

d238m554

ⓘ Note

- Remember that there is a tab at the positions of the red arrows.
- Rotate the operation panel [B] upward to a horizontal position, and then detach the proximity sensor cover [A].



d238m555

3. Remove the original upper cover [A].



 x2

d238m0690

4. Attach the corner cover [A] provided with this option.

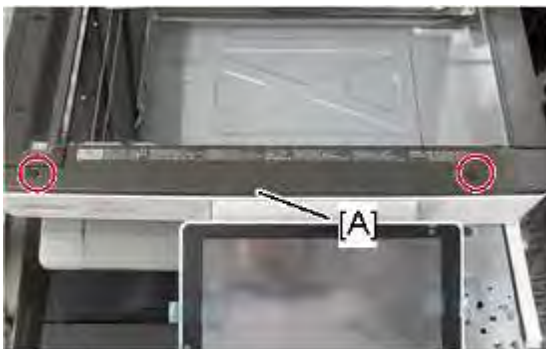
Use the screws removed in the previous step.



 x2

d238m0691

5. Remove the scanner front cover [A].



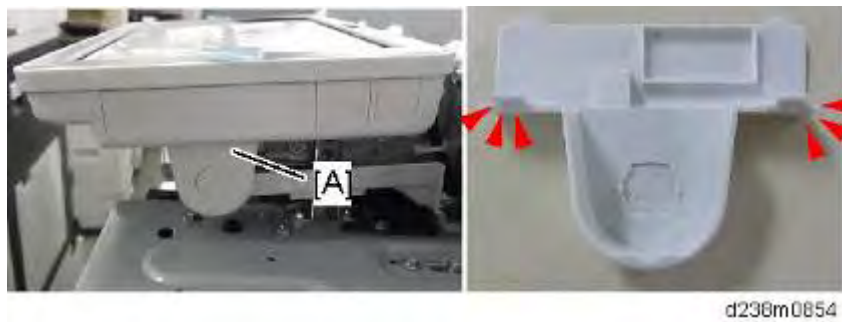
 x2

d238m0852

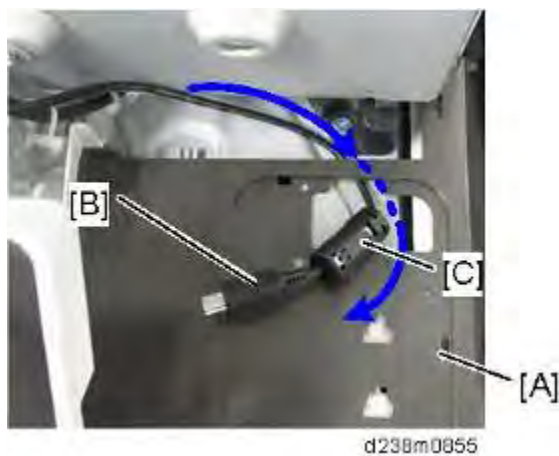
6. Remove the operation panel upper cover [A].



7. Remove the operation panel right cover [A].

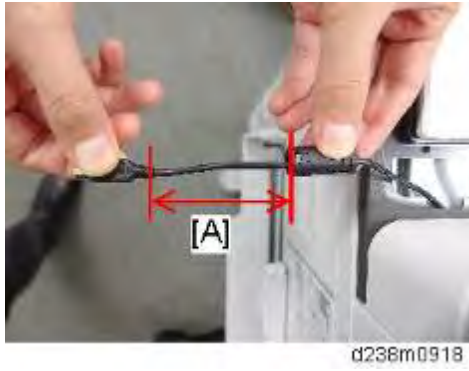


8. Thread the USB cable [B] through the notch in the corner cover [A] and attach the ferrite core [C].



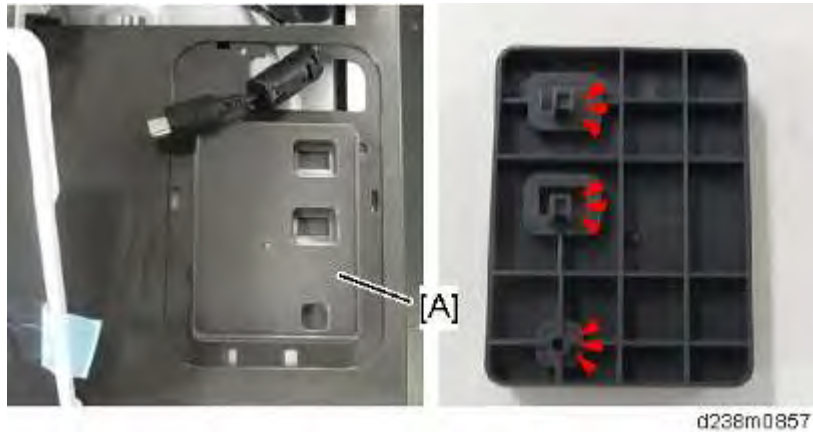
Note

- Attach the ferrite core 6 cm [A] away from the end of the cable.
- By doing so, it becomes easier to put the ferrite core inside the reader cover in step 12.



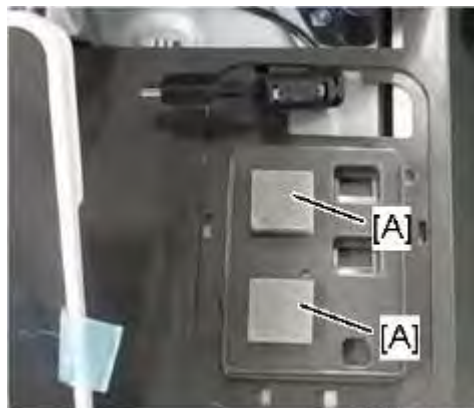
9. Reattach the proximity sensor cover to the machine.

10. Attach the reader spacer [A].



d238m0857

11. Attach the sponge cushions [A] to the reader spacer.



d238m0857

12. Connect the card reader and interface cable.

Make sure to turn the USB cable as shown so that it threads through the notch in the spacer [A].



 x1

d238m0858

13. Attach the reader cover [A].



14. Connect the USB cable to the machine's operation panel connector.



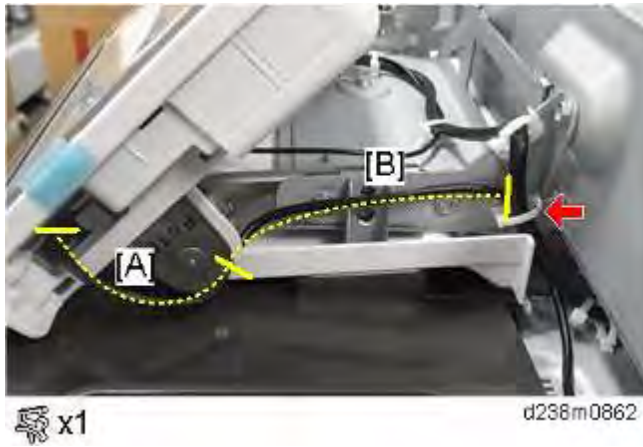
15. Thread the USB cable through the U-shaped groove [A] at the hinge of the operation panel and notch [B] on the cover under the cover.



16. Apply the clamp to fasten the USB cable to the machine.

NFC Card Reader Type M19 (D3BS-21)

Make sure that the cable is not loose between the connector and hinge [A] and the hinge and clamp [B].



17. Tuck in the excess length portion of the USB cable in the space under the scanner.



18. Reattach the removed covers.

2.41 SMART CARD READER BUILT-IN UNIT TYPE M19 (D3BS-22)

2.41.1 ACCESSORY CHECK

No.	Description	Q'ty	Remarks
1	Corner Cover	1	
2	IC Card Reader Spacer	1	
3	IC Card Reader Table	1	
4	Sponge	2	



2.41.2 INSTALLATION PROCEDURE

⚠ CAUTION

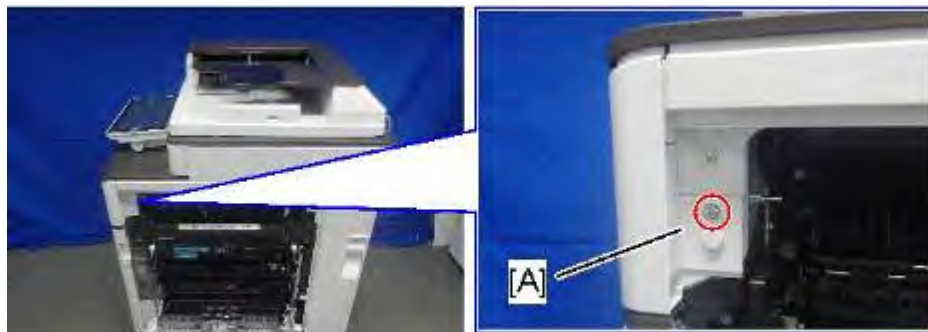
- When installing this option, turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

An IC card reader and a USB cable are not included with this unit. The customers must obtain these themselves, and the technicians must install them.

There are 2 ways to connect the USB cable of the IC card. One is to the machine USB slot which is the same way as the previous machine, and another is to the smart operation panel USB slot.

Procedure for Connecting to the Main Machine USB Slot

1. Open the right door, and then remove the small cover [A].





 x1

d238m553

2. Remove the proximity sensor cover [A].



 x1,  x1

d238m554

Note


- Remember that there is a tab at the positions of the red arrows.
- Rotate the operation panel [B] upward to a horizontal position, and then detach the proximity sensor cover [A].



d238m555

3. Remove the original upper cover [A]



 x2

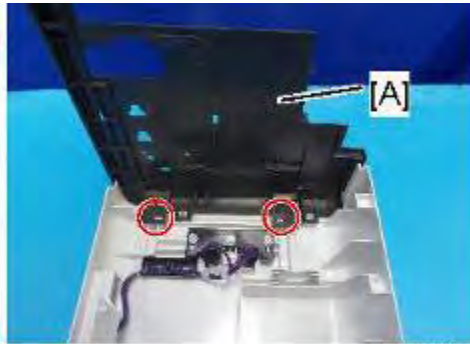
d238m0690

4. Attach the corner cover [A] provided with this option.

Use the screws removed in the previous step.




 x2



d238m0691

5. Remove the scanner right cover [A].



 x1



d238m0684

6. Reattach the proximity sensor cover with corner cover [A] to the machine.



7. Pass the USB cable [A] through the hole.

Note

- This cable is not included in this unit. The user may need to provide it.



8. Attach the table [A].

Note

- There are three ribs on the back side of the table.



9. Attach the sponges [A] with double-sided tape.



10. Connect the cable [B] to the IC reader [A] and attach the reader to the table.



Note

- The USB cable should be turned as the following photo shows.



11. Attach the IC card reader cover [A].



12. Attach the three clamps (x3).



13. Remove the cover to make the hole [A] to pass the cable through.



14. Connect the USB connector to the USB interface of the controller.



d1463020

15. Route the cable as shown in the following photo (x1).

Tuck in the excess length portion of the cable in the space over the controller box.



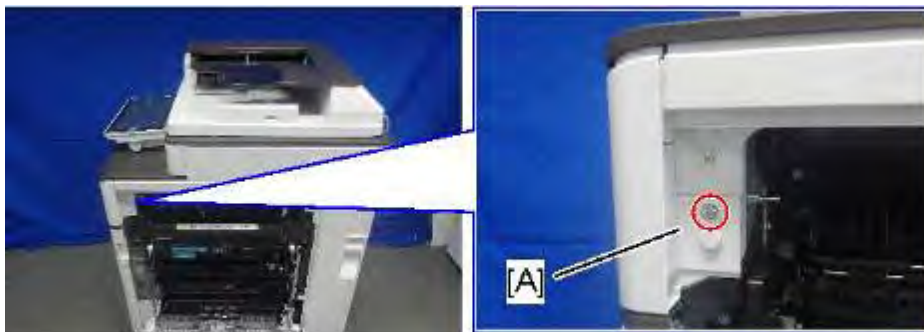
d238m0702

x1

16. Reattach the exterior covers.

Procedure for Connecting to the Operation Panel USB Slot

1. Open the right door, and then remove the small cover [A].





d236m553

x1

2. Remove the proximity sensor cover [A].



 x1,  x1


Note

- Remember that there is a tab at the positions of the red arrows.
- Rotate the operation panel [B] upward to a horizontal position, and then detach the proximity sensor cover [A].



3. Remove the original upper cover [A]



 x2

4. Attach the corner cover [A] provided with this option.

Use the screws removed in the previous step.



5. Remove the scanner front cover [A].



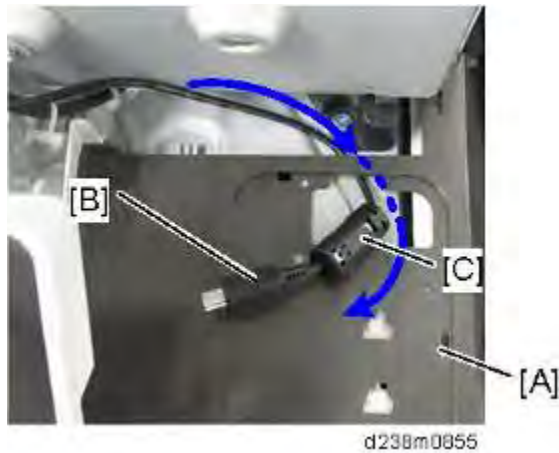
6. Remove the operation panel upper cover [A].



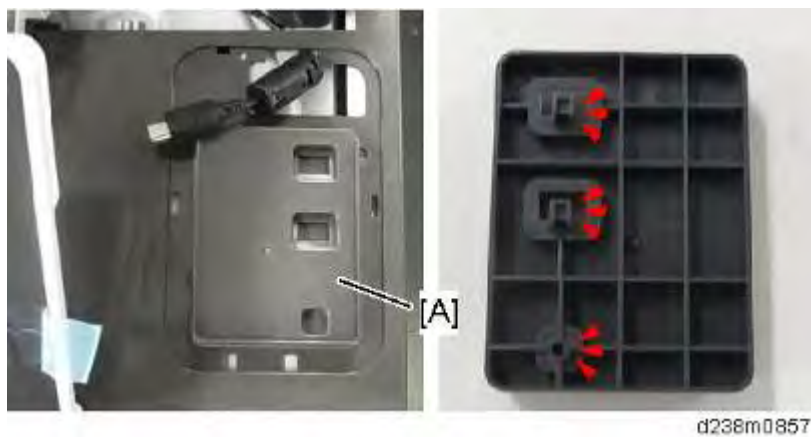
7. Remove the operation panel right cover [A].



8. Thread the USB cable [B] through the notch in the proximity sensor cover [A] and attach the ferrite core [C].



9. Reattach the proximity sensor cover to the machine.
10. Attach the reader spacer [A].



11. Attach the sponge cushions [A] to the reader spacer.



12. Connect the card reader and interface cable.

13.

Make sure to turn the USB cable as shown so that it threads through the notch in the spacer [A].

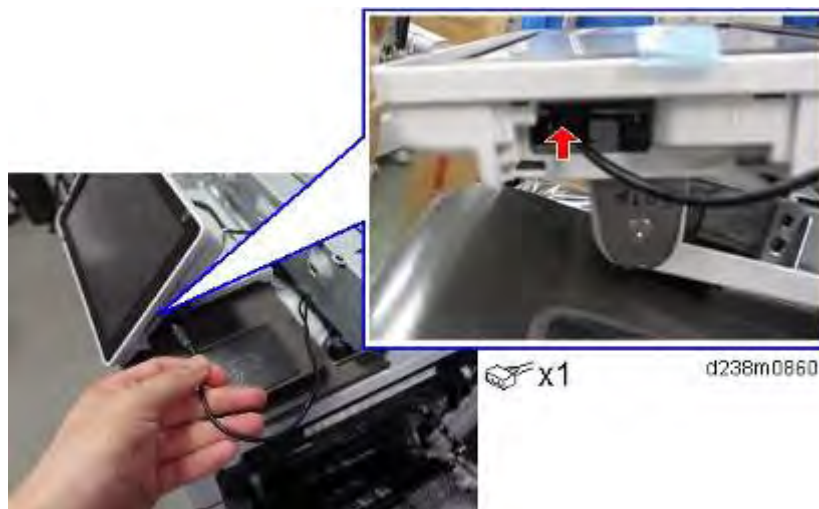


14. Attach the reader cover [A].



Installation

15. Connect the USB cable to the machine's operation panel connector.

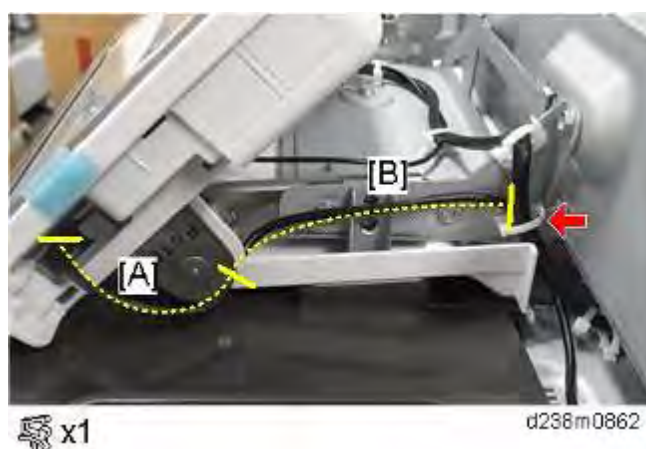


16. Thread the USB cable through the U-shaped groove [A] at the hinge of the operation panel and notch [B] in the cover under the cover.

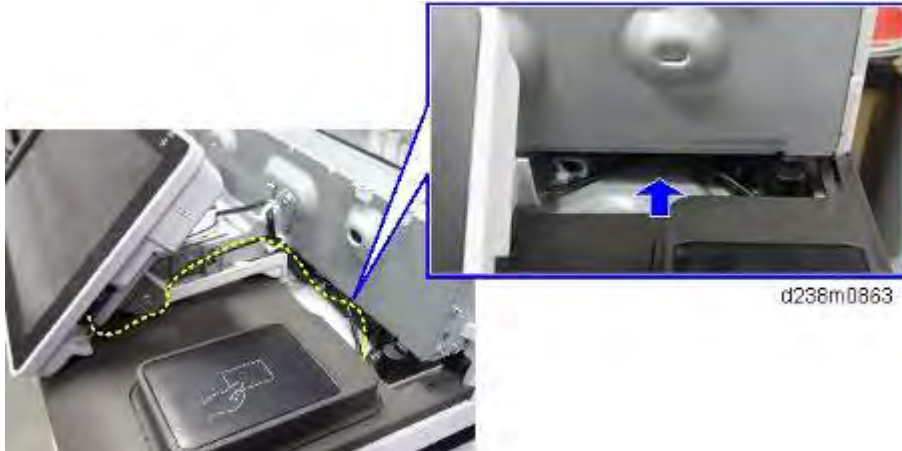


17. Apply the clamp to fasten the USB cable to the machine.

Make sure that the cable is not loose between the connector and hinge [A] and the hinge and clamp [B].



18. Tuck in the excess length portion of the USB cable in the space under the scanner.



19. Reattach the removed covers.

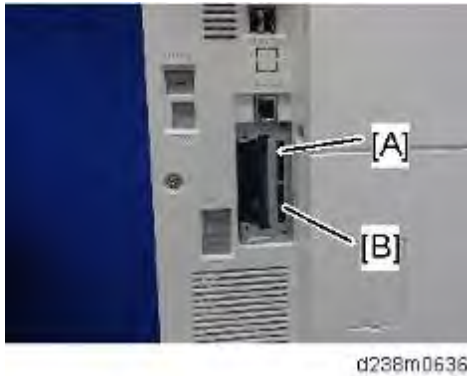
2.42 SD CARD OPTIONS

2.42.1 SD CARD SLOTS

MP C4504/C5504/C6004:



MP C3004/C3504:



[A]: SD card slot 1 (option slot)

[B]: SD card slot 2 (service slot)

2.42.2 LIST OF SLOTS USED

Optional SD cards can be set in either slot 1 or slot 2. But slot 2 is the service slot, so we recommend that you use slot 1 to install the SD card options.

SD card options for this machine

- IPDS Unit Type M20 (page 2-331)
- OCR Unit Type M13 (page 2-337)
- XPS Direct Print Option Type M19 page 2-334)
- PostScript3 Unit Type M19 (page 2-326)
- Camera Direct Print Card Type M19 (page 2-329)
- DataOverwriteSecurity Unit Type M19 (page 2-341)
- SD Card for Fonts Type D
- Unicode Font Package for SAP(R) 1 License
- Unicode Font Package for SAP(R) 10 Licenses
- Unicode Font Package for SAP(R) 100 Licenses
- Fax Connection Unit Type M19 (**for MP C3004/C3504**)
- Fax Connection Unit Type M20 (**for MP C4504/C5504/C6004**)

Note

- 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).

2.43 SD CARD APPLI MOVE

2.43.1 OVERVIEW

Since there are only two SD card slots (one of them is a service slot), three or more SD card applications cannot be used simultaneously.

However, if multiple SD card applications are merged, three or more SD card options can be used.

This function is referred to as the "**SD card merge function.**"

The "**SD card merge function**" is a function which enables the use of three or more functions within the capacity of two SD cards by physically transferring the function of one SD card to other SD cards (all SD card options can be stored in two SD cards).

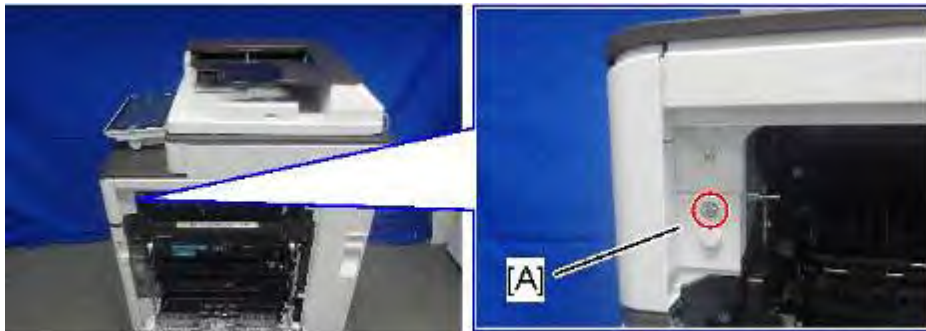
However, SD card applications are under license, therefore, since an SD card license after merge is transferred to the target SD card, it cannot be used even if it is moved to the target machine.

Also, a process to prevent illegal copying is performed.

↓ Note

- After merge, store the empty SD card in the location shown below.

1. Open the right door, and then remove the small cover [A].



🔧 x1

d238m553

2. Remove the proximity sensor cover [A].



🔧 x1, 🗑️ x1

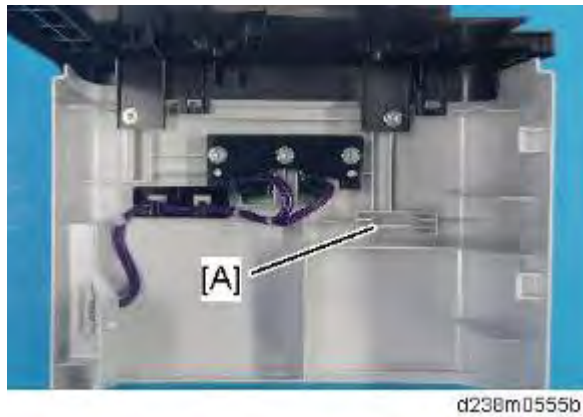
d238m554

Note

- Remember that there is a tab at the positions in the red arrows.
- Rotate the operation panel [B] upward to a horizontal position, and then detach the proximity sensor cover [A].



3. Insert the SD card in the storage location [A] inside the cover.



2.43.2 MOVE EXEC

Note

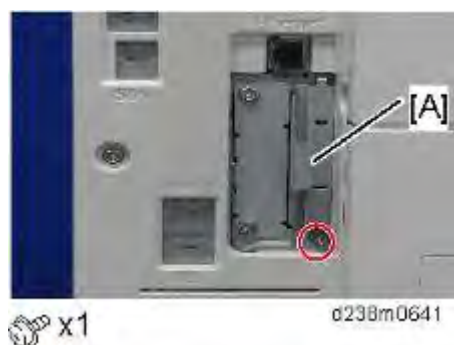
- When merging SD cards, an SD card to be merged is not specified.

1. Turn the OFF the main power.
2. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



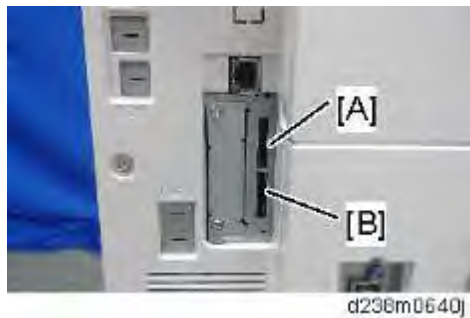
MP C3004/C3504:



3. Set the destination SD card (SD card where data is to be stored) in Slot 1 [A], and set the original SD card (SD card from which data is to be transferred) in Slot 2 [B].

MP C4504/C5504/C6004:



MP C3004/C3504:

4. Turn ON the main power, and press [ENTER] in SP5-873-001 (SD Card Appli Move: Move Exec).
5. When a confirmation screen is displayed, press [ENTER] (it takes about 2 - 3 minutes).

↓ Note

- If [CANCEL] is pressed, the display returns to the previous screen.
- Note that if the power supply is turned off, a panel operation is performed, or the cover is opened during merge, it will result in a malfunction.

6. When merge is complete, and the following screen is displayed, press [CLOSE].

↓ Note

- If the process is terminated abnormally, perform the merge in SP mode again.
- If the capacity of the destination SD card is insufficient, the merge operation cannot be performed.

1. Press [END] twice.
2. Turn OFF the main power.
3. Remove the empty SD card after transfer from Slot 2.
4. Reattach the slot cover (🔧 x1).
5. Turn ON the main power, output the system setting list, and check that the options are recognized correctly.

2.43.3 UNDO EXEC

This is a recovery function if an application is incorrectly transferred to a different device of the same model.

1. Turn OFF the main power.
2. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



MP C3004/C3504:



3. Insert the integrated SD card in Slot 1 [A: Upper].

MP C4504/C5504/C6004:



MP C3004/C3504:

4. Insert the SD card which became empty after integration in Slot 2 (lower slot).
5. Turn On the main power, and press [ENTER] in SP5-873-002 (SD Card Appli Move: Undo Exec).
6. When a confirmation screen is displayed, press [ENTER].

Note

- If [CANCEL] is pressed, the display returns to the previous screen.
 - Note that if the power supply is turned off, a panel operation is performed, or the cover is opened during cancellation, it will result in a malfunction.
7. When cancellation is complete, press [CLOSE].
 8. Press [END] twice.
 9. Turn OFF the main power.
 10. Reattach the SD card slot cover (🔩 x1).
 11. Turn ON the main power, and check that the application has been deleted.

2.44 POSTSCRIPT3 UNIT TYPE M19 (D3BD-05, -06, -07)

2.44.1 ACCESSORIES

No.	Description	Q'ty
1	SD Card	1
2	PS3 Decal	1



2.44.2 INSTALLATION PROCEDURE

↓ Note

- When installing more than one SD card, perform the merge operation (page 2-320 "SD Card Appli Move").

1. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



MP C3004/C3504:



2. Insert the PS3 SD card in SD card slot 1 [A: Upper Slot].

MP C4504/C5504/C6004:



MP C3004/C3504:



3. Reattach the SD card slot cover (🔩 x1).
4. Stick the "Adobe PostScript3" decal [A] on the front face of the MFP.



5. Turn ON the main power.
6. 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

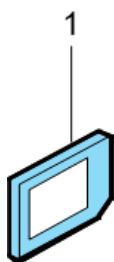
 **Note**

- The PDF firmware installed as standard contains a program required to print PS3 data as default. However, this PS3 program is normally disabled.
- The PS3 firmware is a dongle (key) which enables PS3 data printing functions. When the PS3 firmware is installed, the PS3 program in the PDF firmware is enabled. Due to this specification, the self-diagnosis result report shows the ROM part number/software version of the PDF firmware contained in the PS3 program.

2.45 CAMERA DIRECT PRINT CARD TYPE M19 (D3BD-13)

2.45.1 ACCESSORIES

No.	Description	Q'ty
1	SD Card	1



d595i900b

2.45.2 INSTALLATION PROCEDURE

Note

- When installing more than one SD card, perform the merge operation (page 2-320 "SD Card Appli Move").

1. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



x1

d238m0638

MP C3004/C3504:



2. Insert the Camera Direct Print Card in SD card slot 1 [A: Upper Slot].

MP C4504/C5504/C6004:



MP C3004/C3504:



3. Reattach the SD card slot cover. (🔩 x1)
4. Turn ON the main power.
5. Attach the "PictBridge" decal on the front face of the MFP.
6. 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

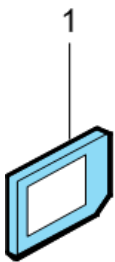
2.46 IPDS UNIT TYPE M20 (D3BC-20, -21, -22)

2.46.1 ACCESSORIES

Check the accessories and their quantities against the table below.

Installation

No.	Description	Q'ty	Remarks
⇒ 1	IPDS Emulation SD Card	1	
-	EULA Sheet	1	
-	Caution Sheet	1	
-	CD-ROM	1	



d595i900b

2.46.2 INSTALLATION PROCEDURE

Note

- When installing more than one SD card, perform the merge operation (page 2-320 "SD Card Appli Move").

1. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



MP C3004/C3504:



2. Insert the IPDS card in SD card slot 1 [A: Upper Slot].

MP C4504/C5504/C6004:



MP C3004/C3504:

3. Reattach the SD card slot cover. (🔩 ×1)
4. Do one of the following ("A" or "B") to enable the IPDS function.

A. [Enable the IPDS function via telnet]

1. Connect the machine via telnet.
2. Execute the following commands:

```
msh> set ipds up
```

***If you want to stop the function.

```
msh> set ipds down
```

B. [Enable the IPDS option via Web Image Monitor]

1. Log in to Web Image Monitor.
2. Change the setting to enable IPDS.

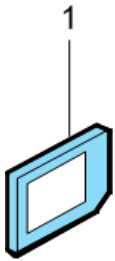
- ⇒ 5. Print out the "Configuration Page", and then check if this option is correctly recognized.

- User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

2.47 XPS DIRECT PRINT OPTION TYPE M19 (D3BC-24, -25, -26)

2.47.1 ACCESSORIES

No.	Description	Qty	Remarks
1	XPS Direct Print SD Card	1	



d595i900b

2.47.2 INSTALLATION PROCEDURE

Note

- When installing more than one SD card, perform the merge operation (page 2-320 "SD Card Appli Move").

1. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



MP C3004/C3504:



2. Insert the XPS SD card in SD card slot 1 [A: Upper Slot].

MP C4504/C5504/C6004:



MP C3004/C3504:

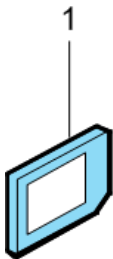


3. Reattach the SD card slot cover. (🔧 x1)
4. Turn ON the main power.
5. Print out the "Configuration Page", and then check if this option is correctly recognized.
 - User Tools > Machine Features > Printer Features > List/Test Page > Configuration Page

2.48 OCR UNIT TYPE M13 (D3AC-23, -24, -25)

2.48.1 ACCESSORY CHECK

No.	Description	Q'ty
1	SD Card	1



d595i900b

2.48.2 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.

2.48.3 INSTALLATION PROCEDURE


Note

- When installing more than one SD card, perform the merge operation (page 2-320 "SD Card Appli Move").

1. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



 x1

d238m0638

MP C3004/C3504:



 x1

d238m0641

2. Insert the OCR Unit SD card in SD card slot 1 [A: Upper Slot].

MP C4504/C5504/C6004:



d238m0639

MP C3004/C3504:

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."

⏴ Note

- If installation fails, "Failed" is displayed.
- If installation fails, perform the following steps.

1. Check whether it is a used SD card.
2. Switch the power OFF, and repeat steps 1-5.

6. Turn the machine OFF and back ON again.
7. Press "Enter" in SP5-878-004 (Option Setup: OCR Dictionary).

Dictionary data is copied to the HDD.

⏴ Note

- 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.

⏴ Note

- 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.

⏴ Note

- After installation, the OCR setting can be changed on the "OCR setting" screen.
- When setting OCR, set [OCR setting] to [Yes]. (Default setting: [No])

2.48.4 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 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).

2.49 DATAOVERWRITESECURITY UNIT TYPE M19

(D3BS-03)

2.49.1 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).

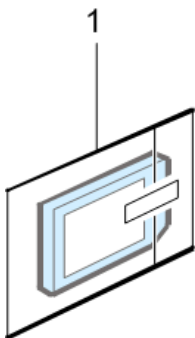
The function of this option is completely the same as the Data Overwrite Security in Security Functions, which is standard on this machine (page 2-356 "Security Settings")

This option should be installed only for the customer who requires the **CC certified Data Overwrite Security function**.

2.49.2 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



d1351921

2.49.3 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."**

 **Important**

- 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

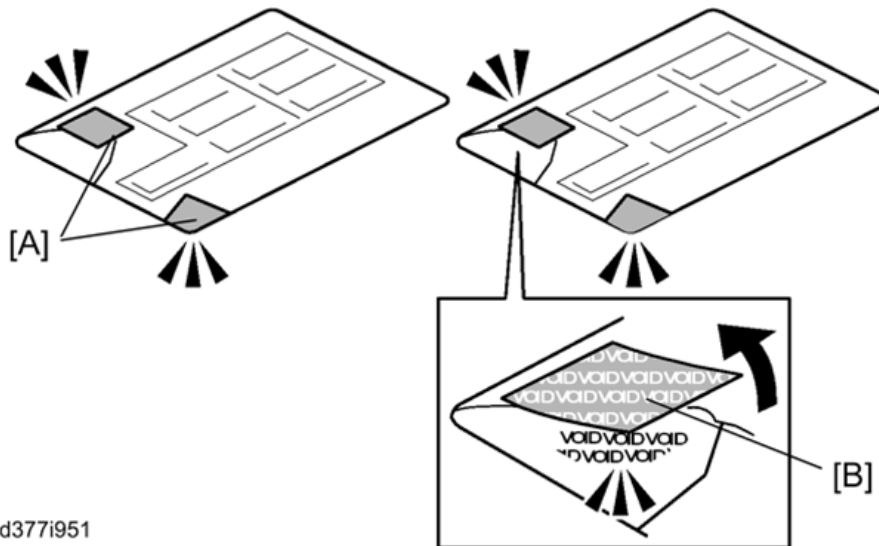
If this setting is disabled (not selected), tell the customer this setting must be enabled (selected) before you do the installation procedure.

 **Note**

- 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.



d377i951

⚠ CAUTION

- 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.**

2.49.4 INSTALLATION PROCEDURE

1. Turn the main power off, and then remove the power plug and cables that are connected.
2. Remove the SD card slot covers [A] [B].

MP C4504/C5504/C6004:



MP C3004/C3504:



3. Insert the DataOverwriteSecurity Unit Type M19 SD card in SD card slot 1 [A: Upper Slot].

MP C4504/C5504/C6004:



MP C3004/C3504:

4. Reattach the SD card slot cover. (🔧 x1)
5. Insert the power cord into the outlet and turn ON the main power.
 - Ⓣ Note
 - When installing more than one SD card, perform the merge operation.
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 customer wishes to replace the hard disk with a new one, execute SP5-801-014 only.
- Ⓣ Note
 - 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"

2.49.5 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].
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:

	Icon [1]	This icon is lit when there is temporary data to be overwritten, and blinks during 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.
- 5-878-001 (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.