

SHARP

Be Original.



Manual de instalare

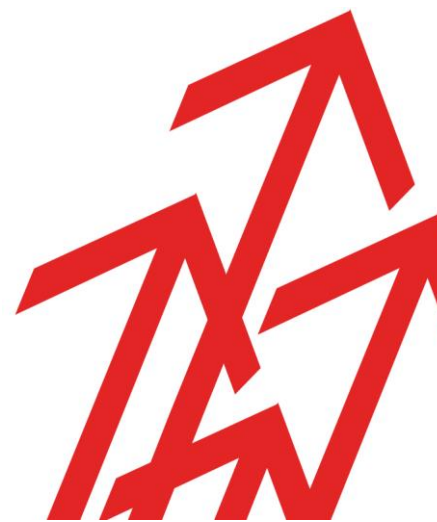
pentru
multifunctionale

SHARP

**BP-50M26/50M31/50M36BP-50M45/50M55/50M65BP-
70M31/70M36/70M45BP-70M55/70M65**

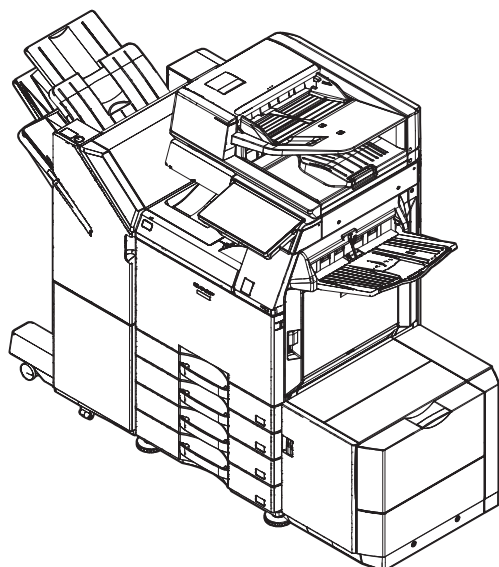
Considerente generale privind instalarea echipamentelor de printing:

- Manipularea echipamentelor se face respectand procedurile de transport si punere in locatie tinand cont de gabaritul echipamentului si a spatiului destinat acestuia
- Respectarea normelor privind conectarea la retea electrica, folosirea de prize cu impamantare este obligatorie
- Fixarea corecta a echipamentului pe standul acestuia
- Verificarea cu atentie si eliberarea tuturor blocajelor folosite la transport (inclusiv cel pentru scanner, unitati developare, cilindrii, etc)
- Montarea corecta a tonerelor in echipament dupa agitarea prealabila (atentie unele echipamente nu au tonerul in echipament ci separat)
- Manipularea cu atentie a cilindrilor evitand pe cat posibil expunerea prelungita a acestora la lumina.
- Manipularea cu atentie a cuptorului tinand cont de temperatura acestuia
- Temperatura ambientală unde se folosesc aparatele și echipamentele trebuie să fie între 18 și 30 grade celsius, cu grad minim de praf și umiditate.



SHARP INSTALLATION MANUAL

CODE: 00ZBP70M65I2E



DIGITAL MULTIFUNCTIONAL SYSTEM

**BP-50M26/50M31/50M36
BP-50M45/50M55/50M65
BP-70M31/70M36/70M45**

MODEL BP-70M55/70M65

CONTENTS

Transit, Installation (Using) Environment, Note
CONFIGURATION

- [1] MAIN UNIT 1-1
- [2] BP-DE12/DE13/DE14 (STAND/550/2x550/3x550
SHEET PAPER DRAWER) 2-1
- [3] BP-DE15 (STAND/550&2100
SHEET PAPER DRAWER) 3-1
- [4] BP-LC10 (LARGE CAPACITY TRAY) 4-1
- [5] MX-LT10 (LONG PAPER FEEDING TRAY). 5-1

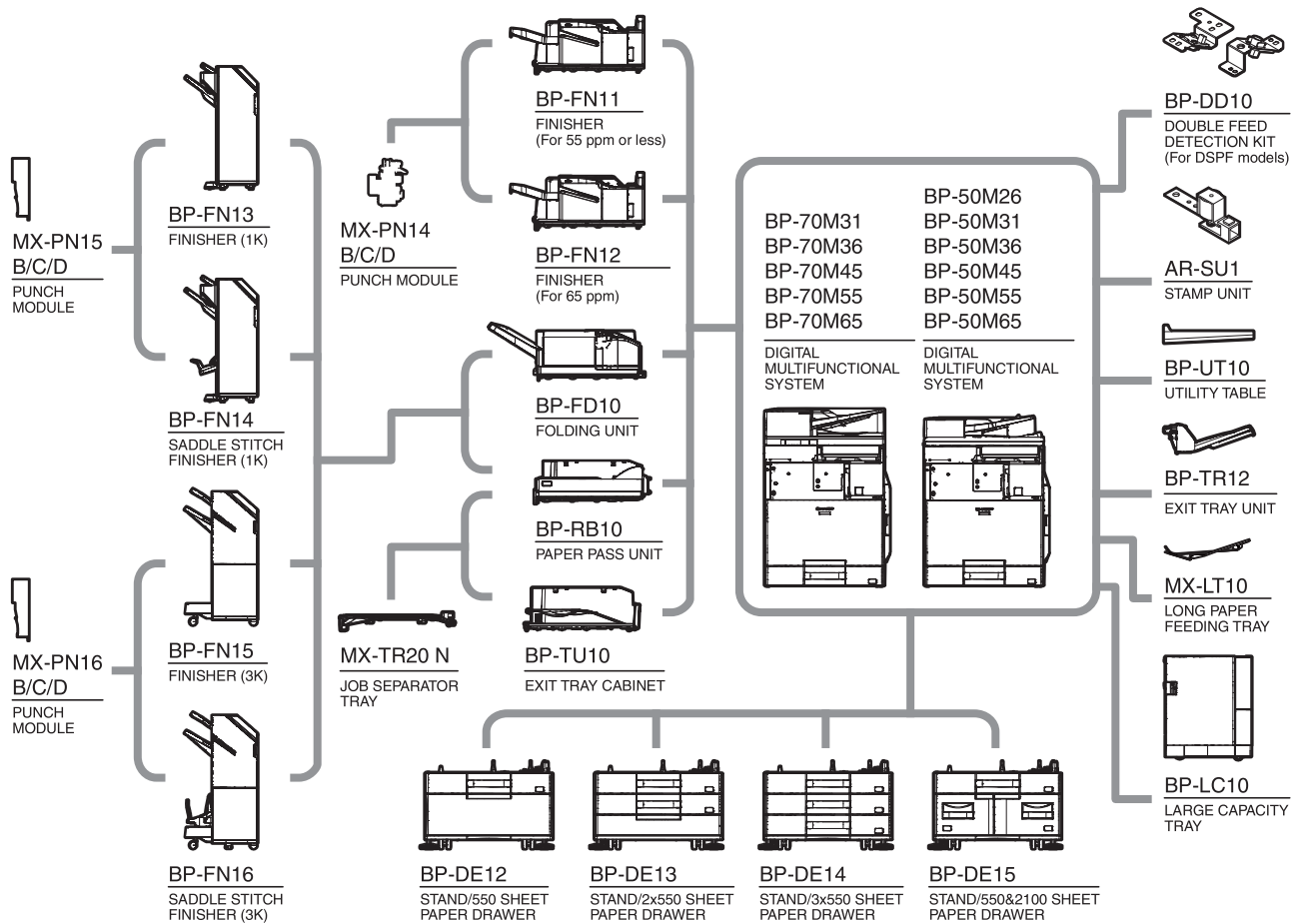
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

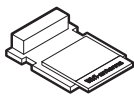
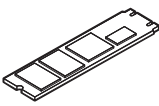
SHARP CORPORATION

This document has been published to be used
for after sales service only.
The contents are subject to change without notice.

CONFIGURATION

1. System diagram



MX-PK13 PS3 EXPANSION KIT 	MX-PF10 BARCODE FONT KIT 	MX-PU10 DIRECT PRINT EXPANSION KIT 	MX-EB19 ENHANCED COMPRESSION KIT 	MX-EB20 OCR EXPANSION KIT 	BP-FX11 FACSIMILE EXPANSION KIT 
MX-FWX1 INTERNET FAX EXPANSION KIT 	BP-FR12U DATA SECURITY KIT 	MX-AMX1 APPLICATION INTEGRATION MODULE 	BP-AM10 APPLICATION COMMUNICATION MODULE 	BP-AM11 EXTERNAL ACCOUNT MODULE 	BP-EB10 WIRELESS CONNECTION ADAPTOR 
BP-SD10 HIGH CAPACITY SSD 	BP-VD10 VIRUS DETECT KIT 				

2. Option list

	Model name	Description	BP-70M31 BP-70M36 BP-70M45 BP-70M55 BP-70M65	BP-50M26 BP-50M31 BP-50M36 BP-50M45 BP-50M55 BP-50M65	Remarks
Document Feed System	—	REVERSING SINGLE PASS FEEDER	—	STD	
	—	DUPLEX SINGLE PASS FEEDER	STD	—	
Paper Feed System	BP-DE12	STAND/550 SHEET PAPER DRAWER	OPT	OPT	
	BP-DE13	STAND/2x550 SHEET PAPER DRAWER	OPT	OPT	
	BP-DE14	STAND/3x550 SHEET PAPER DRAWER	OPT	OPT	
	BP-DE15	STAND/2100 SHEET PAPER DRAWER	OPT	OPT	
	BP-LC10	LARGE CAPACITY TRAY	OPT	OPT	
	MX-LT10	LONG PAPER FEEDING TRAY	OPT	OPT	
Paper Exit System	BP-TR12	EXIT TRAY UNIT	OPT	OPT	
	BP-TU10	EXIT TRAY CABINET	STD/OPT	STD/OPT	*1
	MX-TR20 N	JOB SEPARATOR TRAY	OPT	OPT	
	BP-FN11	FINISHER	OPT	OPT	26/31/36/45/55ppm
	BP-FN12	FINISHER	OPT	OPT	65ppm
	MX-PN14B	PUNCH MODULE	OPT	OPT	For BP-FN11/FN12
	MX-PN14C		OPT	OPT	
	MX-PN14D		OPT	OPT	
	BP-FD10	FOLDING UNIT	OPT	OPT	
	BP-RB10	PAPER PASS UNIT	OPT	OPT	
	BP-FN13	FINISHER (1K)	OPT	OPT	
	BP-FN14	SADDLE STITCH FINISHER (1K)	OPT	OPT	
	MX-PN15B	PUNCH MODULE	OPT	OPT	For BP-FN13/FN14
	MX-PN15C		OPT	OPT	
	MX-PN15D		OPT	OPT	
	BP-FN15	FINISHER (3K)	OPT	OPT	
	BP-FN16	SADDLE STITCH FINISHER (3K)	OPT	OPT	
	MX-PN16B	PUNCH MODULE	OPT	OPT	For BP-FN15/FN16
	MX-PN16C		OPT	OPT	
	MX-PN16D		OPT	OPT	
Printer Expansion	MX-PK13	PS3 EXPANSION KIT	STD	OPT	
	MX-PF10	BARCODE FONT KIT	OPT	OPT	
	MX-PU10	DIRECT PRINT EXPANSION KIT	STD	OPT	
Image Send Expansion	BP-FX11	FACSIMILE EXPANSION KIT	OPT	OPT	*2
	AR-SU1	STAMP UNIT	OPT	OPT	
	BP-DD10	DOUBLE FEED DETECTION KIT	OPT	—	
	MX-FWX1	INTERNET FAX EXPANSION KIT	OPT	OPT	
	MX-EB19	ENHANCED COMPRESSION KIT	STD	OPT	
	MX-EB20	OCR EXPANSION KIT	STD	OPT	
Authentication / Security	BP-FR12U	DATA SECURITY KIT	OPT	OPT	
Application / Solution	MX-AMX1	APPLICATION INTEGRATION MODULE	OPT	OPT	
	BP-AM10	APPLICATION COMMUNICATION MODULE	STD	OPT	
	BP-AM11	EXTERNAL ACCOUNT MODULE	STD	OPT	
Other	BP-SD10	HIGH CAPACITY SSD	OPT	OPT	
	BP-UT10	UTILITY TABLE	OPT	OPT	
	BP-EB10	WIRELESS CONNECTION ADAPTOR	STD/OPT	OPT	*2
	BP-VD10	VIRUS DETECT KIT	OPT	OPT	

STD: Standard equipment

OPT: Installable option

*1: Option in some region

*2: No support in some region

[6] SIMULATION

1. General and purpose

The simulation mode has the following functions, to display the machine operating status, identify the trouble position and causes in an earlier stage and to efficiently setup and adjust the machine for improved serviceability.

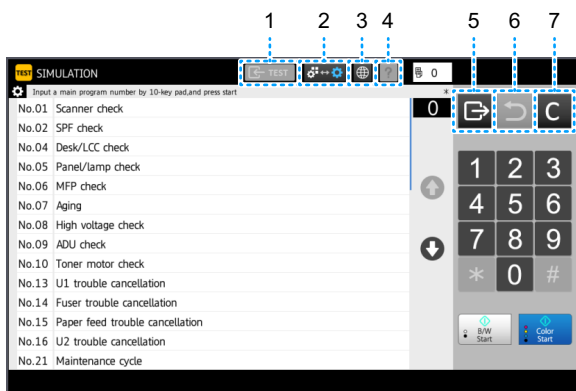
- 1) Various adjustments
- 2) Setting of the specifications and functions
- 3) Canceling troubles
- 4) Operation check
- 5) Counters check, setting clear
- 6) Machine operating conditions (operation hysteresis) data check, clear
- 7) Various (adjustments, setting, operation, counters, etc) data transport.

The operating procedures and displays depend on the design of the operation panel of the machine.

Simulation mode

Easy mode	Displays commonly used simulations for each category, allowing easy access for technicians to change settings, perform maintenance and adjustments.
Classic mode	All simulations are listed and can be accessed by entering the main code, then sub code as per previous model series.

2. Function of each key

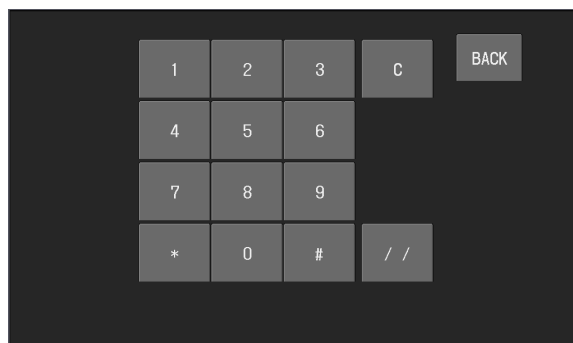
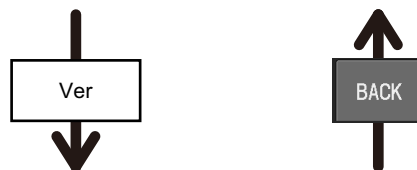
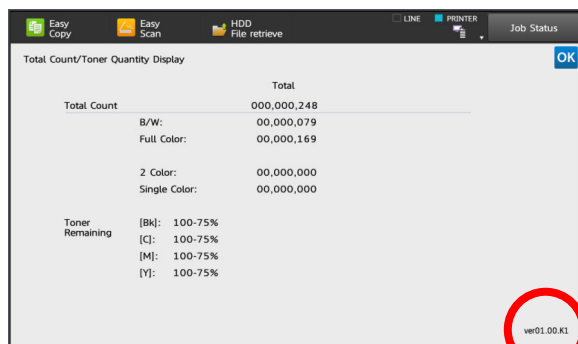


No.	Name	Function
1	TEST key	Change test mode
2	Mode setting key	Change Easy mode, Classic mode
3	Language setting key	Change language in simulation mode
4	INFO key	Display operation of current display
5	EXIT key	Exit from simulation mode
6	BACK key	Back to the previous display
7	Clear key	Clear input value

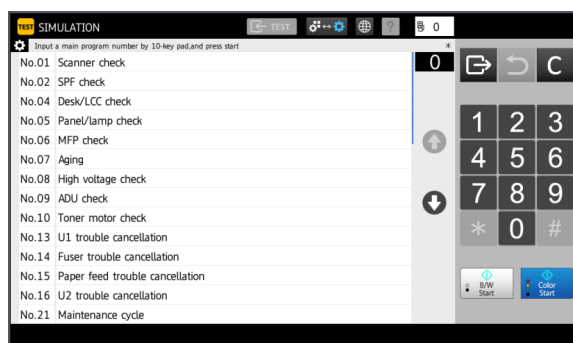
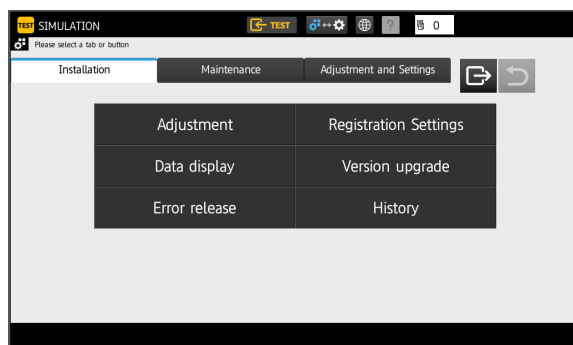
3. Starting the simulation

Entering the simulation mode.

- 1) Double tap the HOME key
- 2) Tap the Ver display section (10-key mode input mode screen)

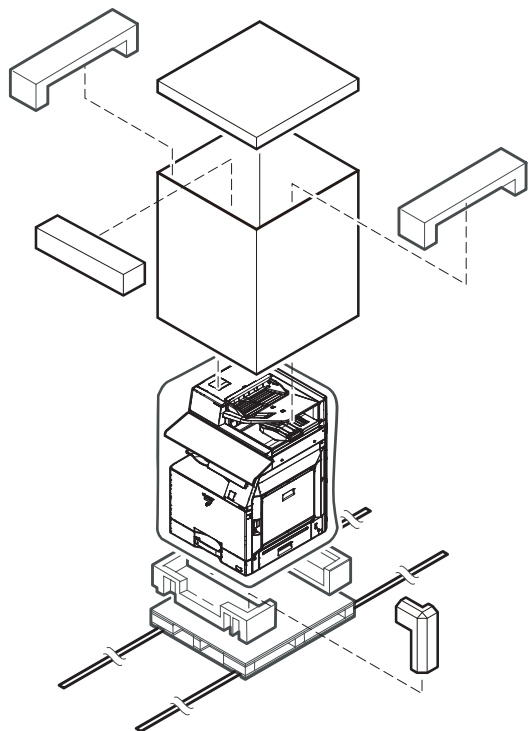


- 3) Touch the (#) key → Asterisk (*) key → Clear key → Asterisk (*) key → Ready for input of main code of simulation.



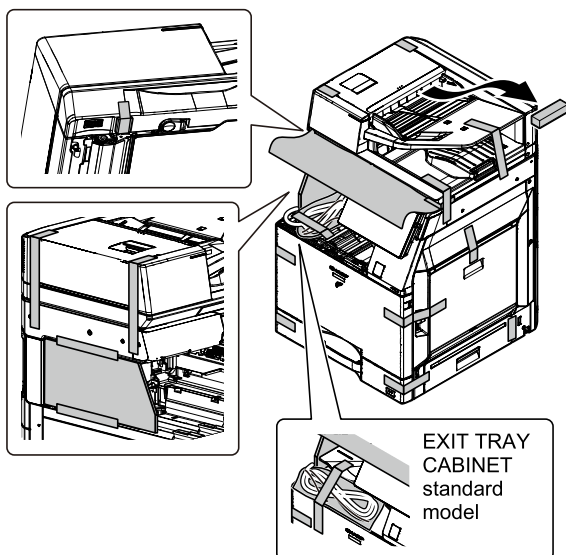
[1] MAIN UNIT

1. Unpacking

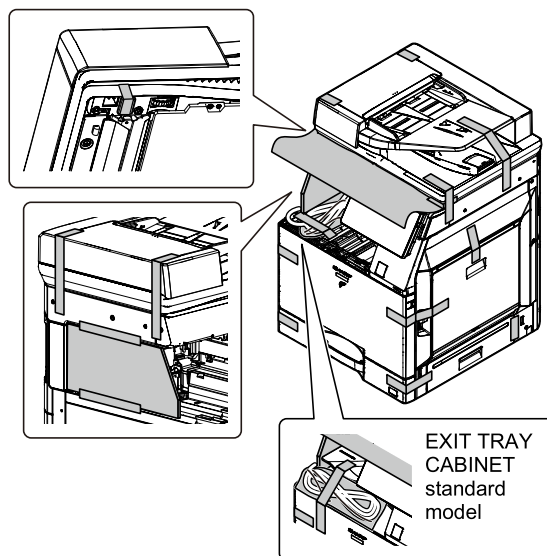


A. Removal of the fixing tape and protection material

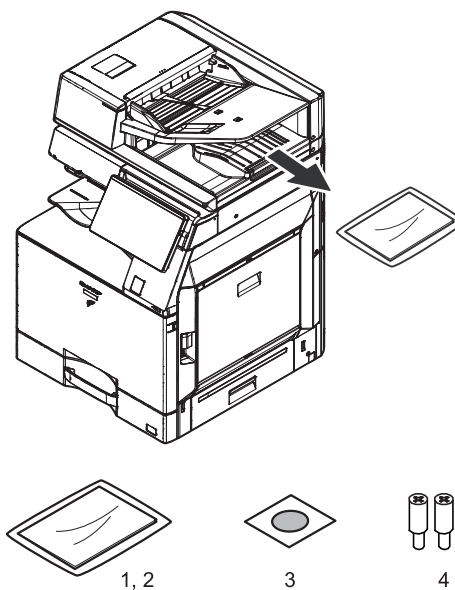
DSPF Model



RSPF Model



B. Packed items check



NO.	Parts name	Quantity
1	Operation manual	1
2	Caution label for DSPF model	1
3	Protection sheet	1
4	Screw (For option desk)	3

2. Installation

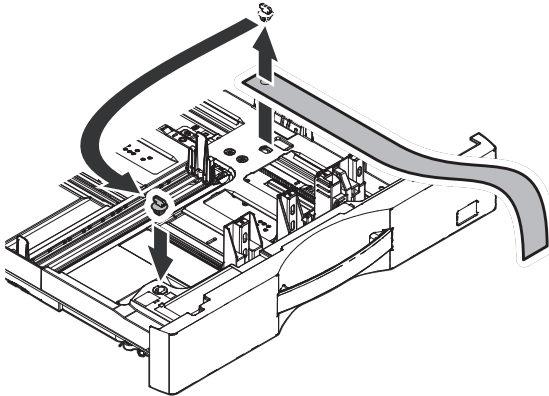
<Note before installation>

* When connecting the main unit with the optional paper drawer, first unpack and install the paper drawer, then unpack the main unit and securely place the main unit on the paper drawer before installing the main unit.

A. Lock release

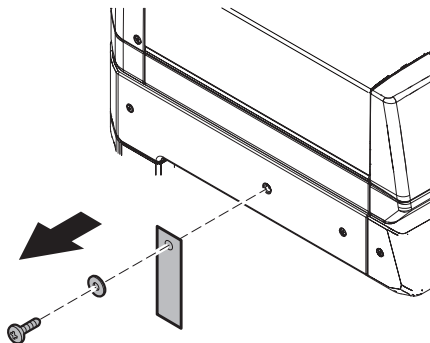
(1) Tray rotation plate lock release

- 1) Pull out the tray, and remove the rotation plate fixing material and the tray note label.
- 2) Attach the removed fixing material to the position shown in the figure for storage.

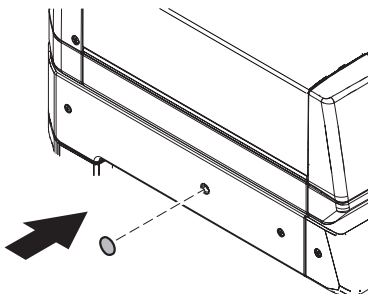


(2) Scanner (2/3 mirror unit) lock release

- 1) Remove the optical unit fixing screw, and remove the note label.

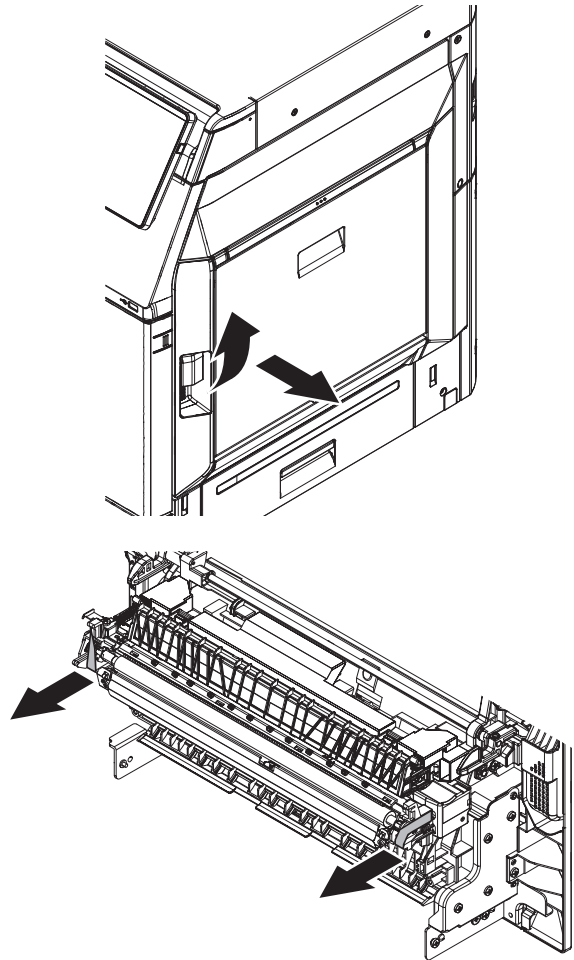


- 2) Attache the protection sheet.



(3) Removal of the protection material.

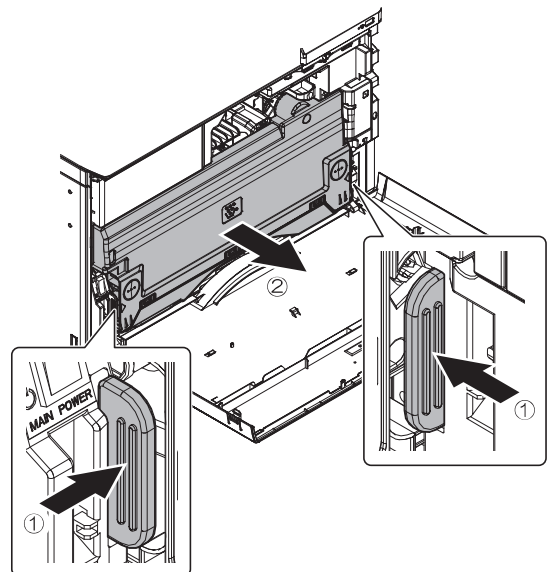
- 1) Open the right door and remove the protection material from transfer roller.



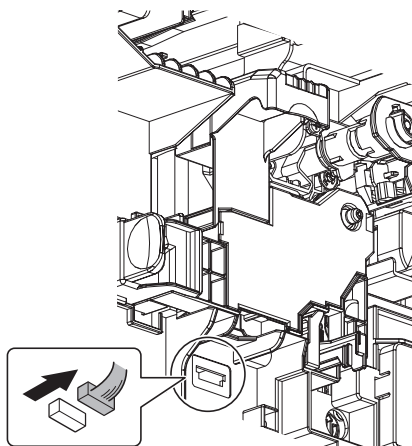
B. Developer installation

Be careful not to put fingerprints or oil dirt on the roller surface.
Do not hold the case adjacent to the DV roller strongly.

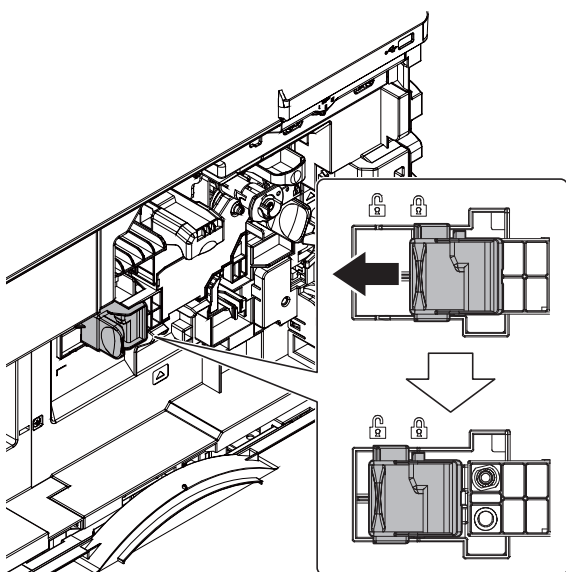
- 1) Open the front cover, and remove the waste toner box.



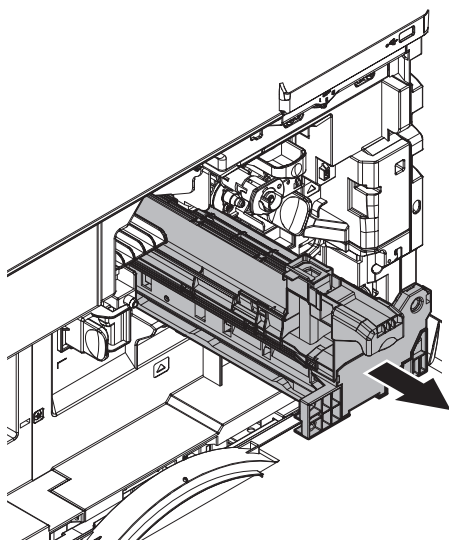
2) Remove the connector.



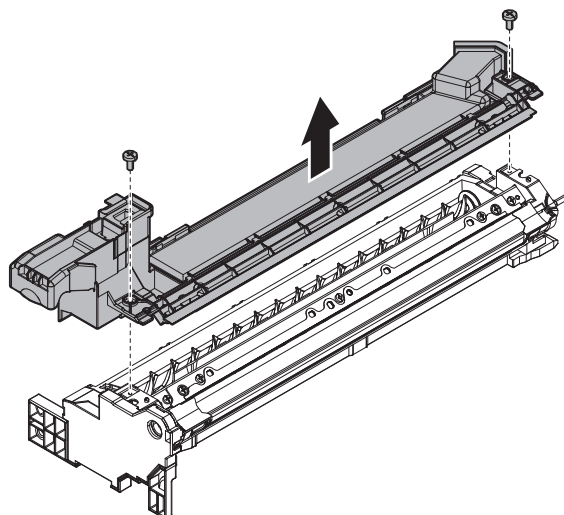
3) Slide the lever to the unlocked position.



4) Pull out the developing unit.

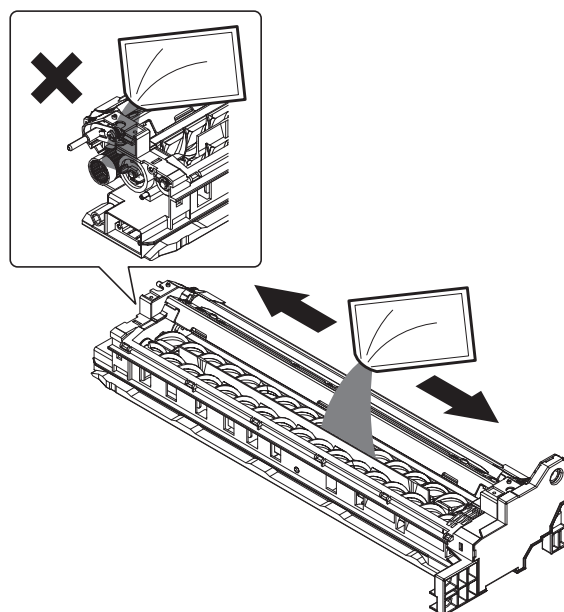


5) Remove two screws. Remove the cover.

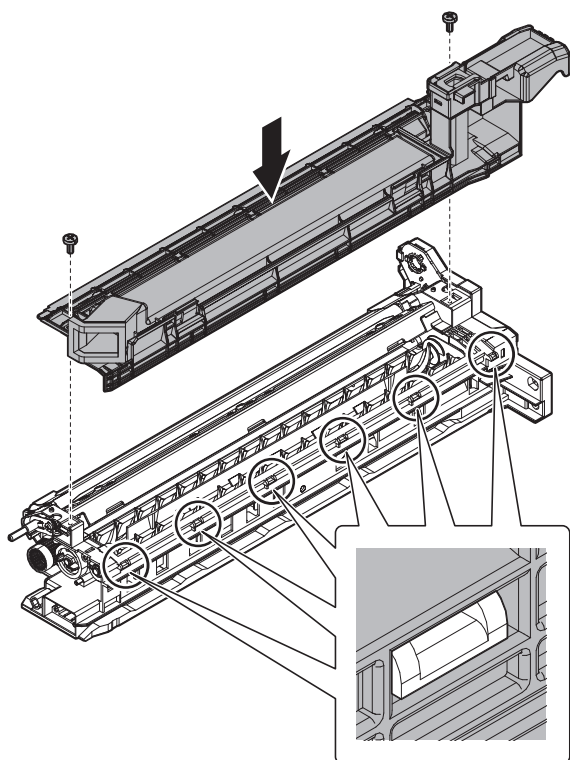


6) While supplying developer from the developer supply port of the developing unit, turn the MC gear counterclockwise by using UKOG-0341FCZZ to supply all developer to the developing unit.

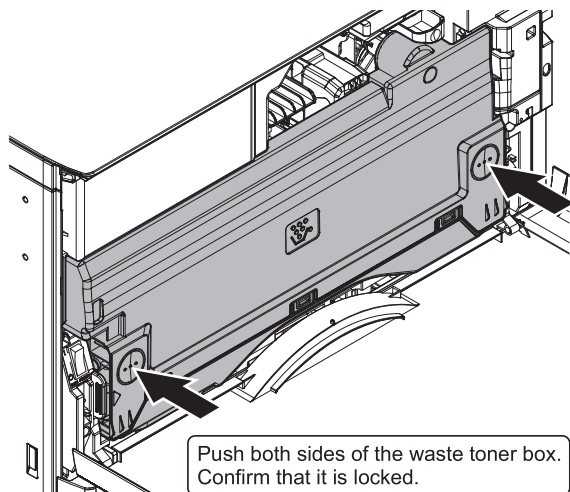
* Before opening the developer bag, shake the bag to mix toner and developer in the bag, and then supply developer to the developing unit.



- 7) Attach the cover.
 * Check to confirm that the pawl is securely engaged.



- 8) Insert the developing unit into the machine, and slide the lever to the locked position. Then connect the connector.
 9) Install the waste toner box.



C. Toner density reference control level setting

NOTE: Execute Toner density reference control level setting without installing the toner cartridge.

NOTE: Message displays on the screen about scanner lock release confirmation after power on. Check it and tap OK if scanner lock screw was removed.

- 1) Insert the power plug into a power outlet. With the front cover opened, turn ON the power switch of the machine and the power switch on the operation panel.

NOTE:

If the front cover is closed and the power is turned on in a mode other than the simulation mode, F2-40 trouble will occur due to SIM25-2 not being implemented.

Be sure to turn on the power with the front cover open.

- 2) With the front cover opened, execute SIM 25-2.

WARNING: Do not install the toner cartridge before completing the Toner density reference control level setting (SIM 25-2).

- 3) Close the front cover.
 4) After completion of the adjustment of the toner density control reference value, insert the toner cartridge.
 5) When [EXECUTE] key is pressed, it is highlighted. The developing roller rotates, and the toner density sensor detects toner density, and the output value is displayed.

The above operation is executed for 2 minutes, and the average value of the toner density sensor detection level is set (saved) as the reference toner density control value.

When the reference toner density control adjustment operation is completed, [EXECUTE] key returns to normal from highlight. This indicates whether the adjustment operation is completed or not.

- 6) **NOTE:**
 If the operation is interrupted within 2 minutes, the adjustment result is not reflected.

When [EXECUTE] key is pressed during rotation, the operation is stopped and [EXECUTE] key returns to the normal display.

If [EE-EU] or [EE-EL] is displayed, setting of the reference toner density control value is not completed normally.

Error display	Content	Details of content
EE-EL	EL abnormality	Sensor output level less than 77, or sensor control voltage level over 207
EE-EU	EU abnormality	Sensor output level over 177, or sensor control voltage level less than 52
EE-EC	EU abnormality	Sensor output level less than 128, or sensor control voltage level over 131

NOTE:

When not replacing the developer, don't execute SIM25-2.

Only execute SIM 25-2 when replacing the Developer.

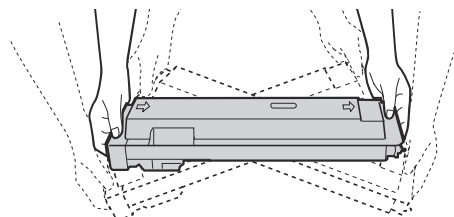
SIM 25-2 should only be run immediately after installing new DV material.

Toner Concentration Reference Control Level Setting will be incorrect if SIM 25-2 is performed at any other time.

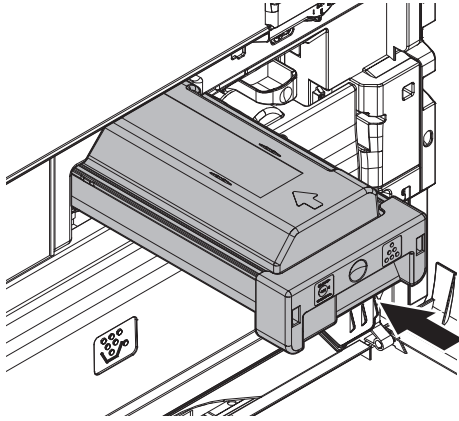
- 7) Tap the Exit key to exit the simulation.

D. Install toner cartridge

- 1) Shake the toner cartridge several times.

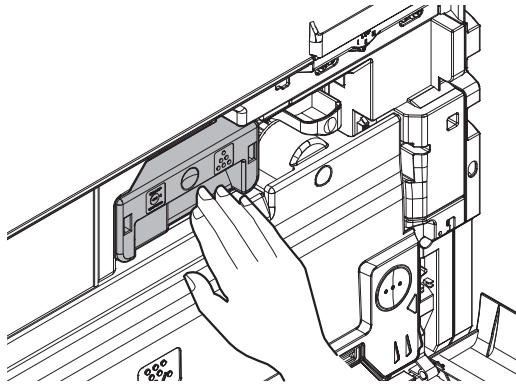


- 2) Open the front cover, and insert the toner cartridge.



- * Do not forcibly insert the toner cartridge.
Keep holding the cartridge and completely insert it.
- * When the machine is transported with the developing unit removed, be sure to remove the toner cartridge. (If not, toner may be clogged.)

- 3) Insert the cartridge securely until it locks.



E. Tray setup

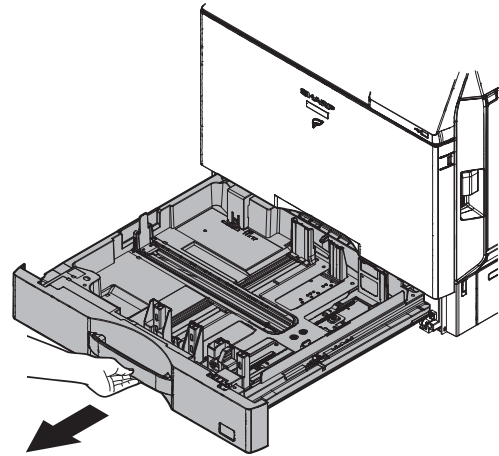
(1) System setting

- 1) Tap the [SETTINGS] key.
- 2) Tap the [Init. Install Settings] key.
- 3) Tap the [Password] key at the Administrator Login.
Enter the password with 10-key. "admin"
- 4) Tap the [Paper Tray Settings] key to configure the settings. These settings specify the paper type, paper size, and functions allowed for each paper tray. When the [Tray Settings] key is touched, a list appears showing the trays and the current settings.
- 5) Tap the [Each tray] key in the above screen to change the settings. The following settings can be configured.

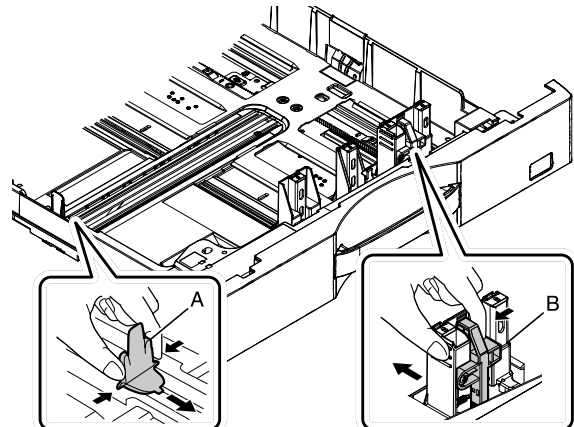
Item	Description
Type	Select the type of paper that is loaded in the tray. The paper types that can be selected vary by paper tray.
Size	Select the paper size from the list. The paper sizes that can be selected vary by tray. The sizes that can be selected may also be restricted by the paper type selected above. If the desired size does not appear in the list, select [Custom Size] and directly enter the size (only for the bypass tray).
Feeding Approved Job	Select the modes that can be used. If there is a function that you do not wish to be used with the selected tray, disable the function. When the "Type" is other than plain paper, recycled paper, colored paper, or a user type, [Fax] and [Internet Fax] cannot be selected.

(2) Tray size setup

- 1) Pull out the paper tray.
Gently pull the tray out until it stops.
If paper remains in the tray, remove it.



- 2) Adjust the guide plates A and B by squeezing their lock levels and sliding them to match the vertical and horizontal dimensions of the paper to be loaded.
The guide plates A and B are slidable, slide each guide plate while squeezing lock lever.



F. Specification setup

Use simulation 26-6 to set the machine's destination.

SIM No	Content
26	6 Used to set the destination.

After completion of destination settings, change the set values to customize the following settings.

SIM No	Content
26	3 Used to set the auditor specification mode.
	5 Used to set the count mode of the total counter and the maintenance counter.
	18 Used to set YES/NO of the toner save mode (Only in UK and Japan versions) * For other destination versions, this setup is made by the user program.
	29 Used to set remote firmware update mode.
52	Used to set YES/NO of counting when non-print paper is passed through each counter.

G. Image quality check

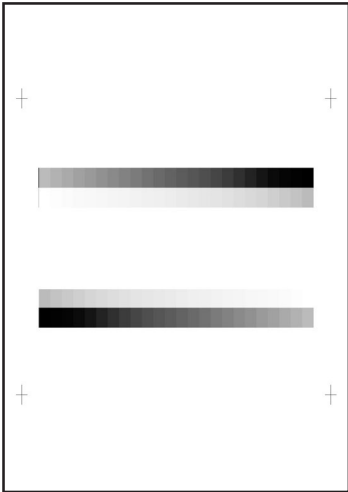
When there are defects in a image carry out the following contents and confirm image.

No	Item	SIM
1	Copy/printer gray balance and density adjustment (automatic adjustment)	46-74
2	Print image position adjustment	50-10

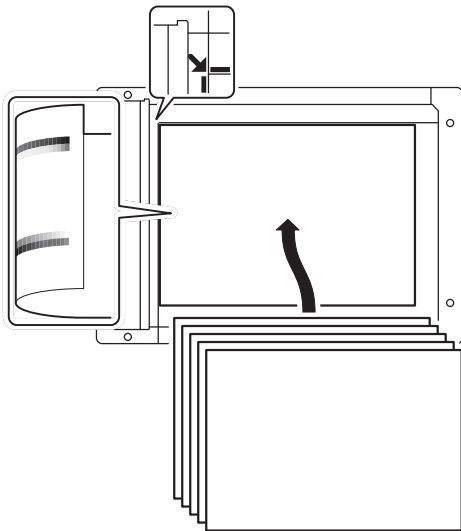
(1) Copy/printer gray balance and density adjustment

- 1) Execute SIM 46-74.
- 2) Tap [EXECUTE] key.

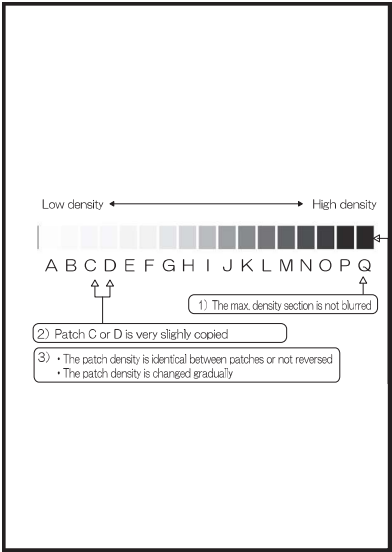
The high density process control is performed, and the copy gray patch image (adjustment pattern) is printed out.
(A4/11" x 8.5" or A3/11" x 17" paper is automatically selected.)



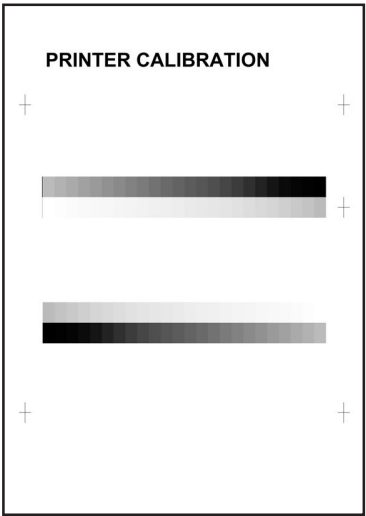
- 3) Set the gray patch image (adjustment pattern) printed in the procedure 2) on the document table.
Place the gray patch image so that the fine lines are on the left side.
At that time, place 5 sheets of white paper on the printed gray patch image (adjustment pattern).



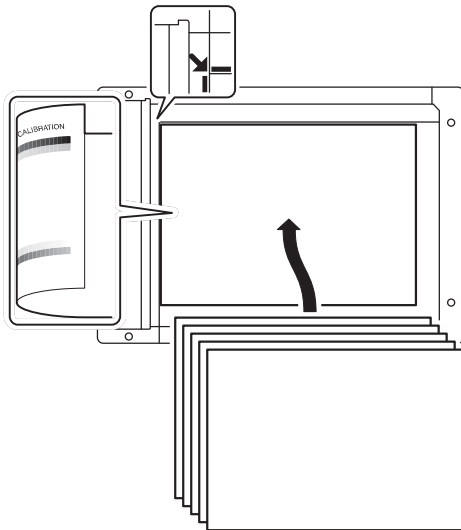
- 4) Tap [EXECUTE] key.
The copy density and gradation adjustment is performed automatically, and the adjustment pattern is printed.
If there is any streak or unclear print on the printed check pattern, check the print engine for any problems.



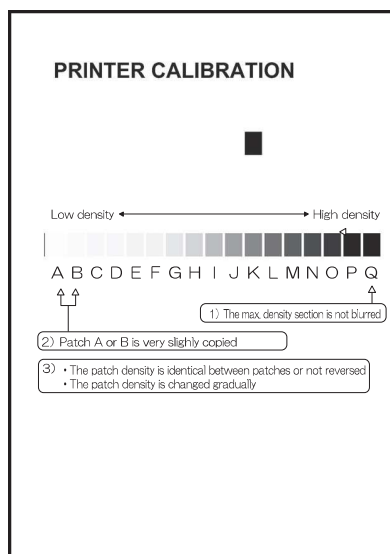
- 5) Tap [EXECUTE] key.
The printer gray patch image (adjustment pattern) is printed out.
(A4/11" x 8.5" or A3/11" x 17" paper is automatically selected.)



- 6) Set the gray patch image (adjustment pattern) printed in the procedure 5) on the document table.
Place the gray patch image so that the fine lines are on the left side.
At that time, place 5 sheets of white paper on the printed gray patch image (adjustment pattern).



- 7) Tap [EXECUTE] key.
The printer gray balance adjustment (step 1) is automatically performed and the gray balance check patch image is printed out.
If there is any streak or unclear print on the printed check pattern, check the print engine for any problems.



- 8) The initial setting menu of the halftone image correction is displayed.
Tap [OK] key.
The initial setting of the halftone image correction is performed.
9) Wait until [EXECUTE] key is displayed.
When it is displayed, tap it.
The halftone image correction is performed.
10) When "COMPLETED THIS PROCEDURE" is displayed, the adjustment operation is completed.
Cancel SIM46-74.

NOTE: The adjustment result becomes valid only when the both adjustments in the copy mode and in the printer mode are completed.
For example, if the copy gray balance adjustment (automatic adjustment) is performed and the simulation is canceled, the adjustment result is invalid.

- 11) Check the copy gray balance and density.
(Refer to the item of the copy gray balance and density check.)
When the gray balance and the density are unsatisfactory after the automatic adjustment, execute the manual gray balance adjustment (ADJ11C (2)).
12) Check the printer gray balance and density.
(Refer to the item of the printer gray balance and density check.)
If a satisfactory result on the gray balance and the density is not obtained with the automatic adjustment, execute the manual adjustment (SIM 67-25) (ADJ 11E (2)).
If the gray balance or density is not in the satisfactory level even after execution of the automatic and manual adjustments, there may be another cause.
Troubleshoot the cause, repair or perform necessary works, and repeat the adjustment from the beginning.

(2) Print image position adjustment

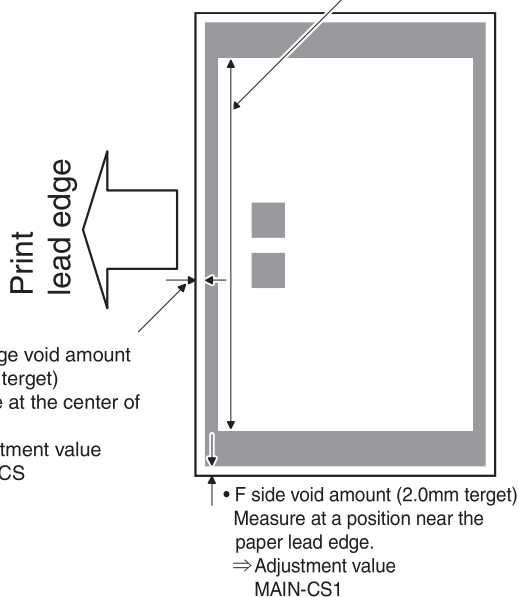
Before executing this adjustment, be sure to check the following items.

* There must be a tray with A4 (LT) paper in it.

- 1) Execute Sim. 50-10.
- 2) Select a paper feed tray 1.
- 3) Set A4 (11 X 8.5) paper on the paper feed tray 1.
- 4) Check to confirm that the inside dimension of the printed half-tone pattern is 240 ± 1.2 mm.
- 5) Measure the void area size of the adjustment pattern in the front/rear frame direction (F side void amount) and that in the transport direction (Lead edge void amount).

Check to confirm that all the following conditions are satisfied.

Main scanning magnification ratio (240 ± 1.2 mm)
Measure the dimension near the inner frame line and the paper lead edge in parallel with the line.
⇒ Adjustment value BK-MAG



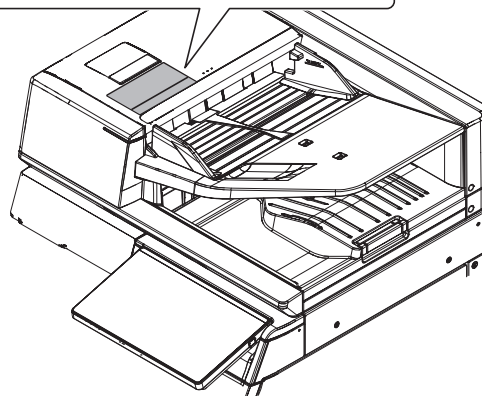
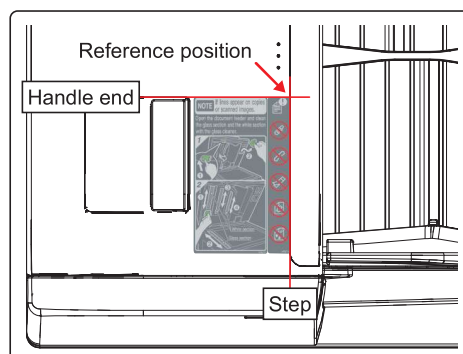
Calculation and input procedures of adjustment values

(Example) Lead edge void amount

- (1) Measure by visual inspection.
→ Measurement result: 4.5mm
- (2) Calculate the shift amount.
The target value is the specification value (center value) of 3mm.
* For the F side void amount, the target is 2mm.
→ $[4 - 4.5 = -0.5 \text{ (mm)}]$
- (3) Calculate the adjustment value.
Subtract 5 from the shift amount of -0.5mm.
* For the shift amount of 0.1mm, the adjustment value is varied by 1.
→ When the current value is 50:
 $[50 - 5 = 45]$
- (4) Enter the adjustment value for SUB-CS1.
→ Enter the [45].
- 6) Enter MAIN-CS1 (F side void) and SUB-CS1 (Lead edge void), and tap OK button.
Enter the calculated adjustment values for the shift amount to MAIN-CS1/SUB-CS1, and tap OK button. (The cursor can be used instead of the button.)
- 7) After entering the adjustment values, print again and check to confirm that the void amounts are adjusted to the target range.

H. Caution label attachment

- 1) Choose a language and attach the caution label.



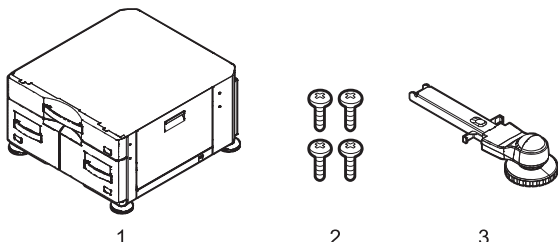
[3] BP-DE15 (STAND/550&2100 SHEET PAPER DRAWER)

1. Unpacking

Important

If the connector is removed first, it may be damaged during the installation procedures. Therefore, keep it packed while un-boxing. and unpack it only when connecting the connector to the machine.

A. Packed items check



No.	Name	Quantity
1	Desk unit	1
2	Fixing screws (M4 x 8)	4
3	Right adjuster	1

2. Installation

Important

Before installation, be sure to turn both the operation and main power switches off and disconnect the power plug from the power outlet. Make double sure that the data lamp on the operation panel does not light up or blink when performing installation.

A. Adjuster position adjustment

- 1) Attach right adjuster (Packed item No.3)

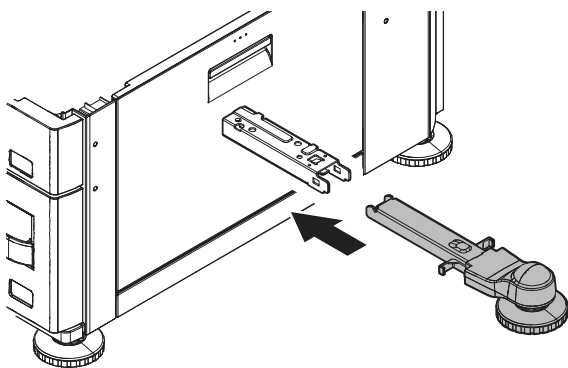
Note

This work is not required when installing following options at the same time.

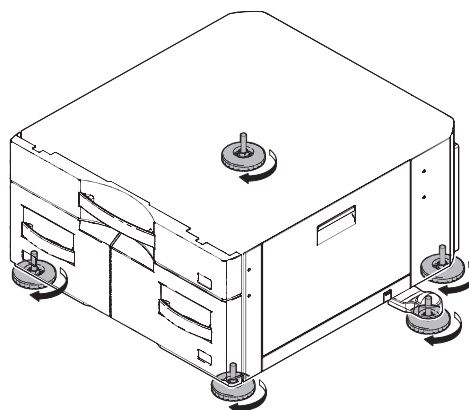
- LARGE CAPACITY TRAY
- FINISHER (1K)
- SADDLE STITCH FINISHER (1K)
- FINISHER (3K)
- SADDLE STITCH FINISHER (3K)

Important

To ensure safety, insert right adjuster until it is locked.



- 2) Turn each adjuster to fix the desk unit.

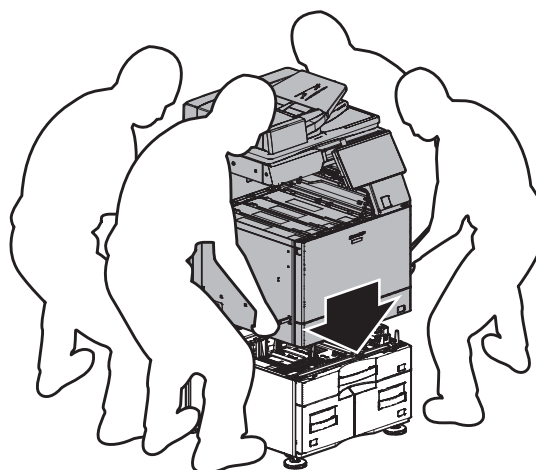


B. Main unit and desk unit connection

- 1) Put the main unit on the desk unit.

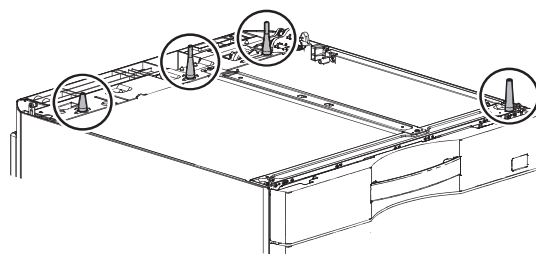
Important

Use man power of four persons or more to lift the main unit.

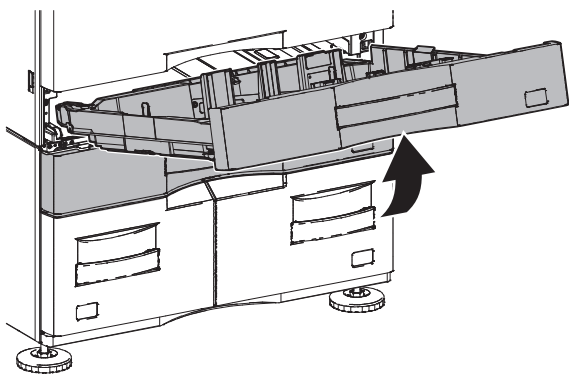


Important

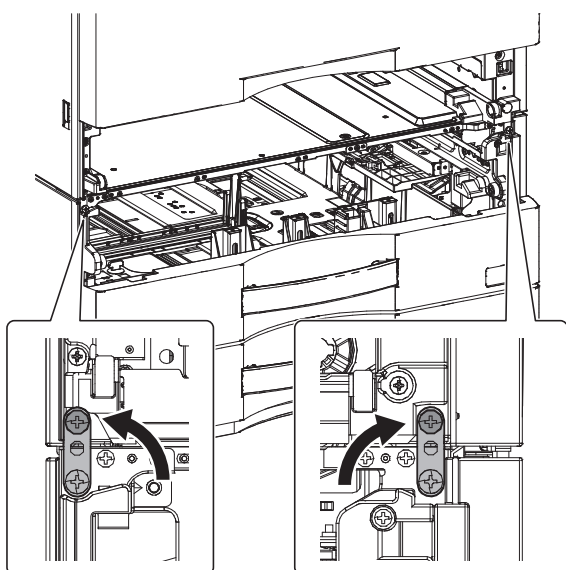
Place the main unit on the desk unit slowly by fitting the external lines. Check to insure that the positioning pin on the top of the desk unit is securely engaged in the positioning groove of the main unit.



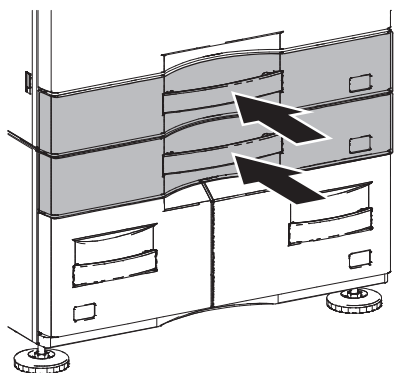
- 2) Remove the tray 1 and the tray 2.



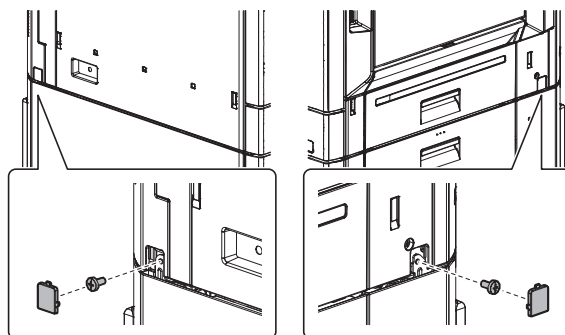
- 3) Raise the linkage plates on the right and left sides of the front side of the desk unit, and fix them with the fixing screws (Packed item No.2).



- 4) Attach the tray 1 and the tray 2.

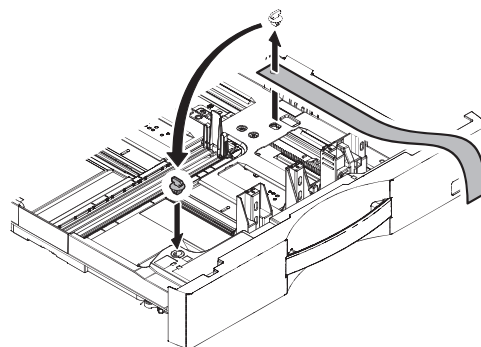


- 5) Take off the small cover of right and left sides of the main body rear. And fix them with the fixing screws (Packed item No.2). Return small covers.

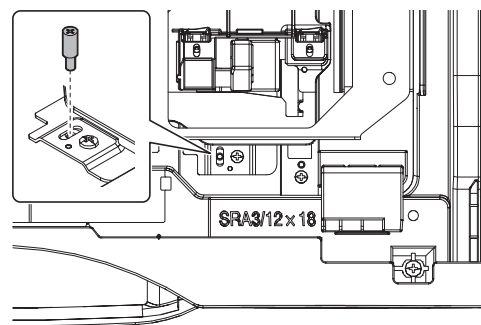


C. Release / fix the lock

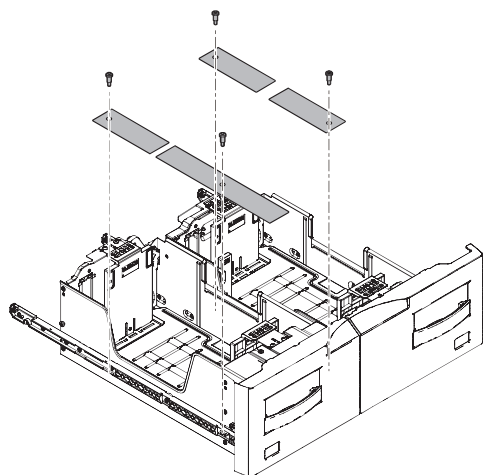
- 1) Pull out the tray. Turn and remove the fixing material, and remove the caution sheet. Attach the removed fixing material to the position shown in the figure for storage.



- 2) Fix screw. (Main unit Packed item No.4)
Close the tray which was pulled out.



- 3) Pull out each tandem tray. Turn and remove the fixing material, and remove the caution sheet. Attach the removed fixing material to the position shown in the figure for storage. Close the tray which was pulled out.

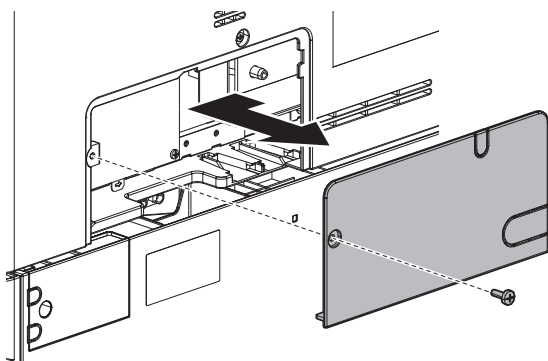


Important

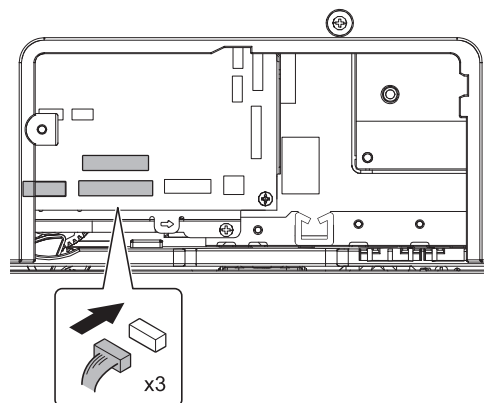
Before turning on the power, check to insure that the fixing material of the tray is disengaged. If the power is turned on without disengaging the fixing material, a trouble may be resulted.

D. Connector connection

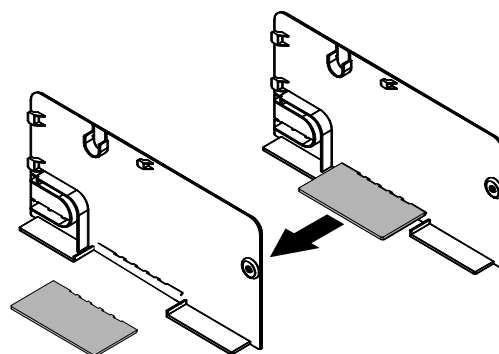
- 1) Remove the cover from the rear side of the machine.



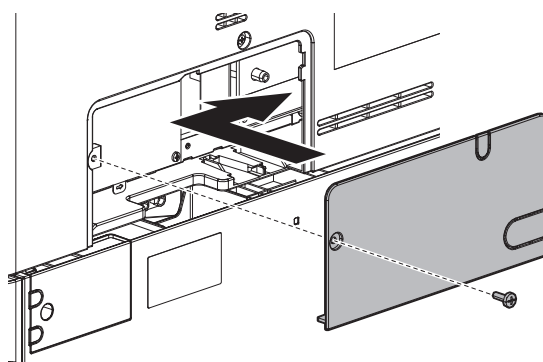
- 2) Connect the connector.



- 3) Separate the base of the cover in nippers.



- 4) Attach the cover.



E. Turn ON the power of the main unit

- 1) Connect the power plug of the machine to the power outlet, and turn ON the main power switch and the operation panel power switch.

F. Tray setup

(1) System Settings

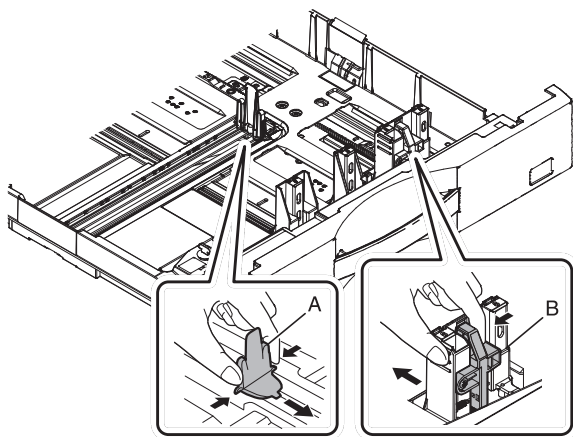
- 1) Tap [Initial Installation Settings] key on the touch panel.
- 2) Tap [Tray Settings] for respective setting. Set up paper type, paper size and Feeding Approved Job for each tray. Touch [Tray Settings] key to display the list of tray and current settings.
- 3) Tap the respective tray key to display setting screen. The setting items are as listed below:

Setting Items	Description
Type	Select the type of paper to be used. The type of selectable paper type varies depending on the tray.
Size	Select the size of paper to be used. The selectable size varies depending on the tray. The selectable size may be limited depending on the tray selected in the Type above. If the appropriate tray is not listed, select [Size Input] and designate the size directly. (This is allowed for Bypass Tray only.)
Feeding Approved Job	Select the approved job mode. Disable the feature do not wish to perform a job using the selected tray. [Fax] and [Internet Fax] cannot be selected if [Type] is set to anything other than Plain Paper, Recycle Paper, Color paper, or User Type.

(2) Tray size setting

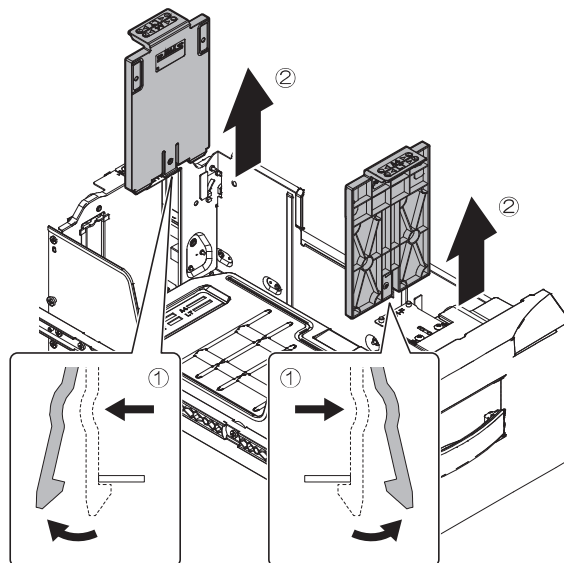
a. Tray 2

- 1) Pull out the paper tray.
Pull out the tray gently until it stops.
Remove the paper loaded into the tray.
- 2) Adjust guide plates A and B by squeezing their lock levers and sliding them to match the longitudinal and transversal dimensions of the paper to be loaded.
The guide plates A and B are slidable. Slide each guide plate while squeezing its lock lever to adjust to the paper size.

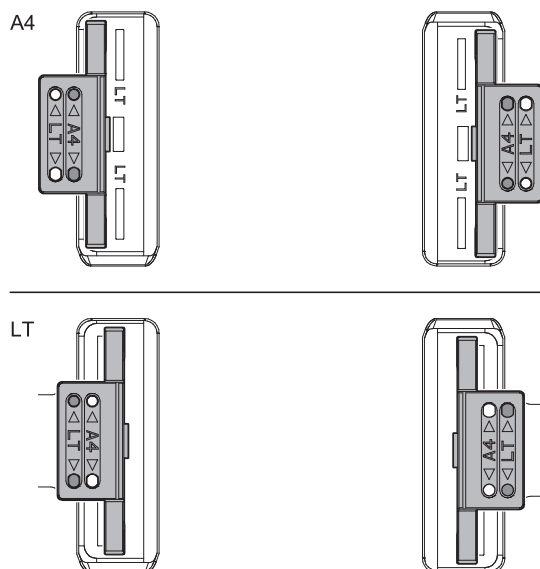


b. Tray 3 (A4/LT)

- 1) Pull out the Tandem paper feed tray.
- 2) Remove the Tandem tray regulation plate while pressing a hook.



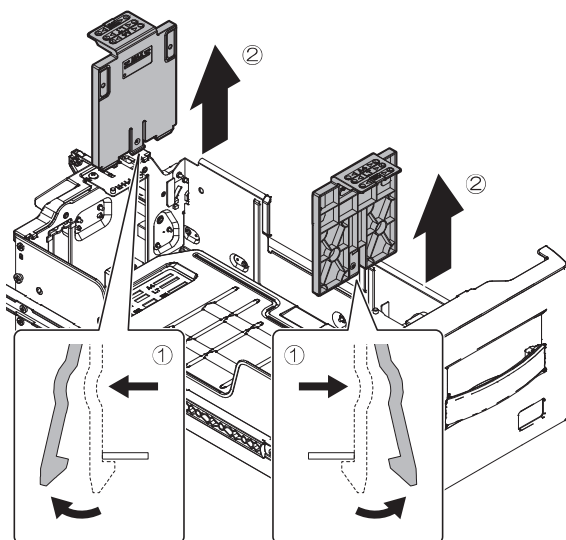
- 3) Insert Adjust plate boss to the holes on the Tandem tray regulation plate for appropriate size.



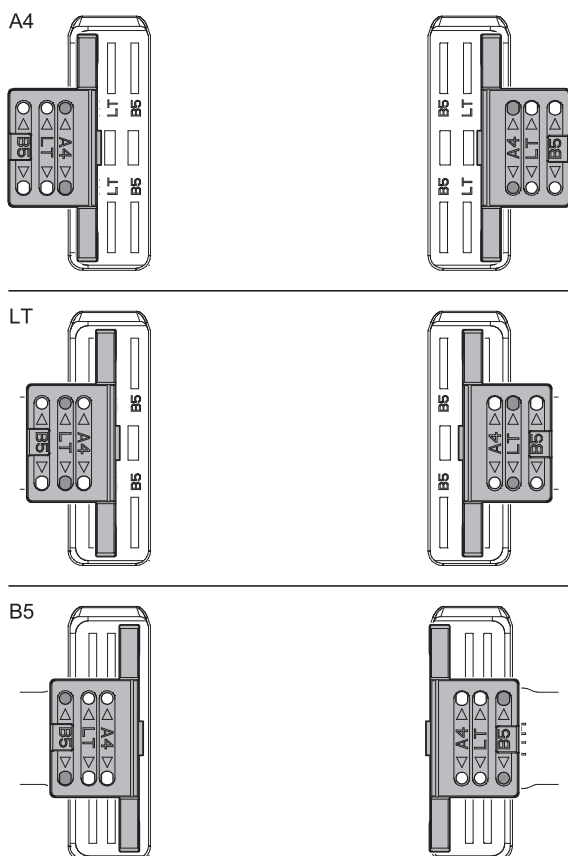
- 4) Push the Tandem paper feed tray.

c. Tray 4 (A4/LT/B5)

- 1) Pull out the Tandem paper feed tray.
- 2) Remove the Tandem tray regulation plate while pressing a hook.

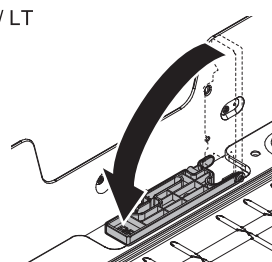


- 3) Insert Adjust plate boss to the holes on the Tandem tray regulation plate for appropriate size.

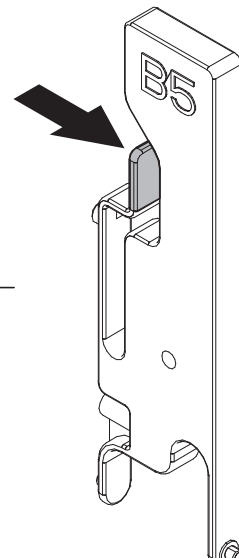
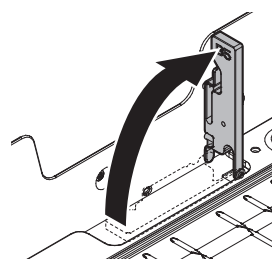


- 4) Lay B5 rear edge regulation plate to set for A4/LT size. Erect the regulation plate to set for B5 size.

A4 / LT



B5



- 5) Push the Tandem paper feed tray.

(3) Size setting

Execute Sim26-2 "Size setting" with the key operations of the main unit.

- 1) The size selection menu of the large capacity desk is displayed on the operation message display.
- 2) Select a size button to be set on the message screen.

G. Image off-center adjustment

Note

The image lead edge position and the off-center adjustment value of the desk unit have been set to the average value when shipping from the factory.

Therefore, this adjustment must be performed only when the judgment is made to execute it through checking the print image.

* There must be a tray with A4 (LT) paper in it.

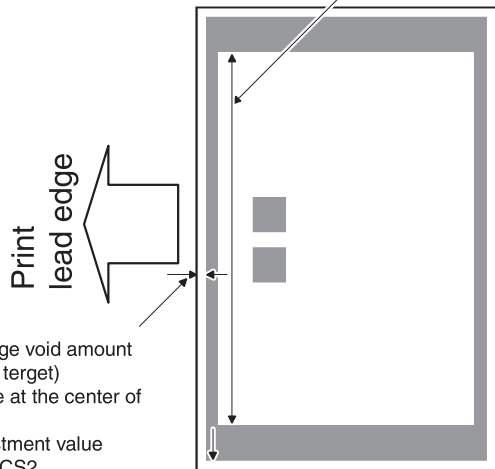
- 1) Execute Sim 50-10.
- 2) Select a paper feed source "3" (CS2).
- 3) Set A4 (11 X 8.5) paper on the CS2 paper feed tray.
- 4) Check to confirm that the inside dimension of the printed half-tone pattern is 240 ± 1.2 mm.

If the above condition is not satisfied, follow and repeat the procedures of ADJ4A(Service manual) until a satisfactory result is obtained.

- 5) Measure the void area size of the adjustment pattern in the front/rear frame direction (F side void amount) and that in the transport direction (Lead edge void amount).

Check to confirm that all the following conditions are satisfied.

Main scanning magnification ratio ($240 \pm 1.2\text{mm}$)
 Measure the dimension near the inner frame line
 and the paper lead edge in parallel with the line.
 ⇒ Adjustment value A : BK-MAG



- Lead edge void amount (4.0mm target)
 Measure at the center of paper.
 ⇒ Adjustment value
 SUB-CS2
 SUB-CS3
 SUB-CS4

- F side void amount (2.0mm target)
 Measure at a position near the paper lead edge.
 ⇒ Adjustment value
 MAIN-CS2
 MAIN-CS3
 MAIN-CS4

Calculation and input procedures of adjustment values

(Example) Lead edge void amount

(1) Measure by visual inspection.

→ Measurement result: 4.5mm

(2) Calculate the shift amount.

The target value is the specification value (center value) of 3mm.

* For the F side void amount, the target is 2mm.

→ $[4 - 4.5 = -0.5 \text{ (mm)}]$

(3) Calculate the adjustment value.

Subtract 5 from the shift amount of -0.5mm.

* For the shift amount of 0.1mm, the adjustment value is varied by 1.

→ When the current value is 50:

$[50 - 5 = 45]$

(4) Enter the adjustment value for SUB-CS2.

→ Enter the [45].

6) Enter MAIN-CS2 (F side void) and SUB-CS2 (Lead edge void), and tap OK button.

Enter the calculated adjustment values for the shift amount to MAIN-CS2/SUB-CS2, and tap OK button. (The cursor can be used instead of the button.)

7) After entering the adjustment values, print again and check to confirm that the avoid amounts are adjusted to the target range.

Perform procedures 4) to 7) for each paper feed tray.

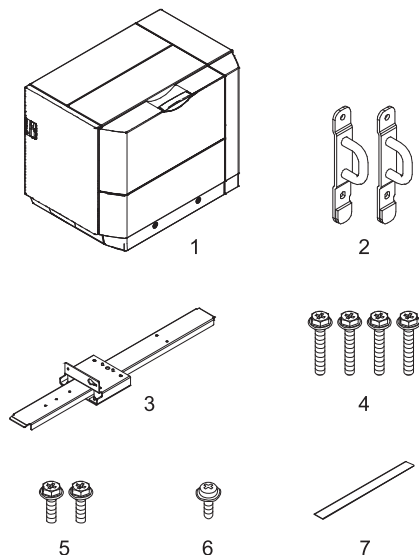
[4] BP-LC10 (LARGE CAPACITY TRAY)

1. Unpacking

Important

If the connector is removed first, it may be damaged during the installation procedures. Therefore, keep it packed while un-boxing and unpack it only when connecting the connector to the machine.

A. Packed items check



No.	Name	Quantity
1	Large capacity tray	1
2	Mounting plate upper	2
3	Connecting unit	1
4	Fixing screw A (Hex washer S-tight M4x18)	4
5	Fixing screw B (Hex washer S-tight M4x12)	2
6	Fixing screw C (M4x8 cup)	1
7	LCC Guide sheet	1

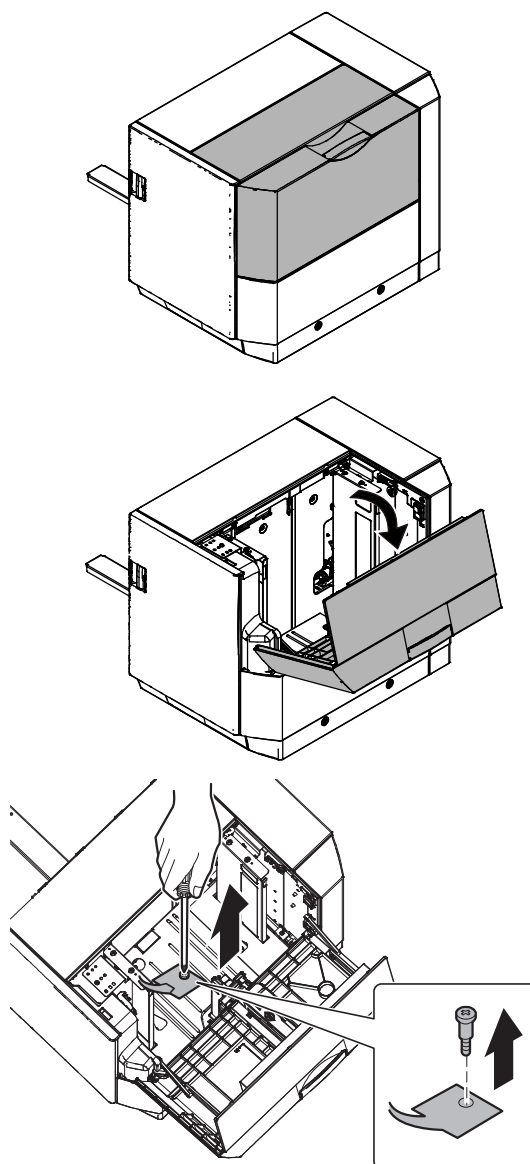
2. Installation

Important

Before installation, be sure to turn both the operation and main power switches off and disconnect the power plug from the power outlet. Make double sure that the data lamp on the operation panel does not light up or blink when performing installation.

A. Release the lock

- 1) Remove the paper feed desk fixing screw.



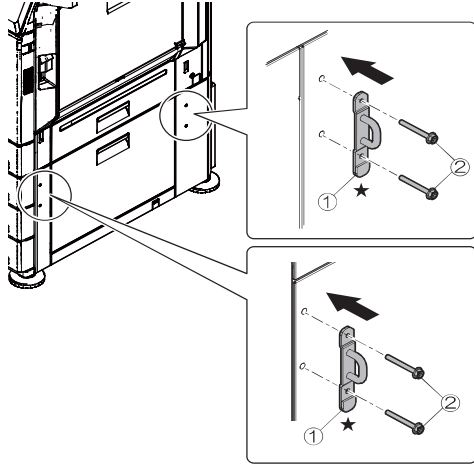
NOTE: Before turning on the power, check to insure that the fixing screw of the tray is removed. If the power is turned on without removing the fixing screw, a trouble may be resulted.

B. Main unit and large capacity tray connection

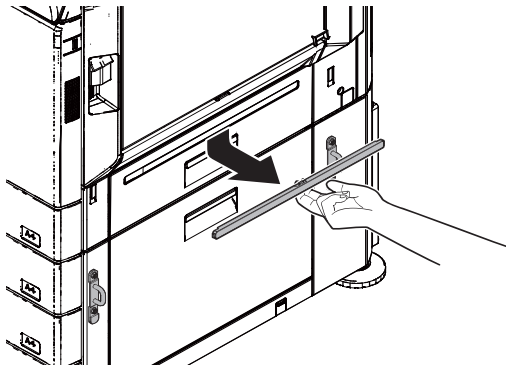
- 1) Attach the mounting plate upper (Packed item No.2) to the right side of main unit with the fixing screw A (Packed item No.4). When installing, put the rubber section (★) of the mounting plate upper on the lower side.

Note

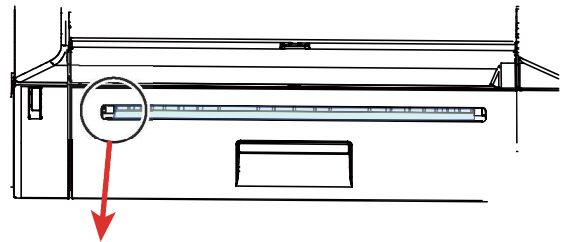
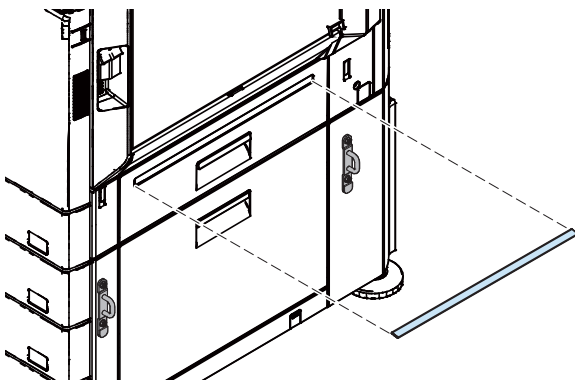
If right adjuster is installed, remove it.



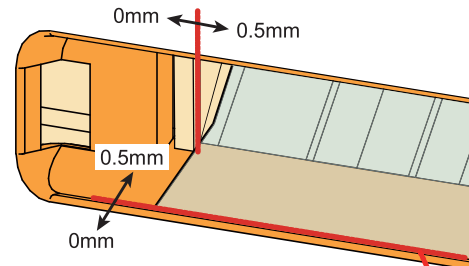
- 2) Remove the right door cover from the machine.



- 3) Attach the LCC guide sheet (Packed item No.7) onto the paper entering guide. Clean surface of the LCC guide sheet with alcohol.

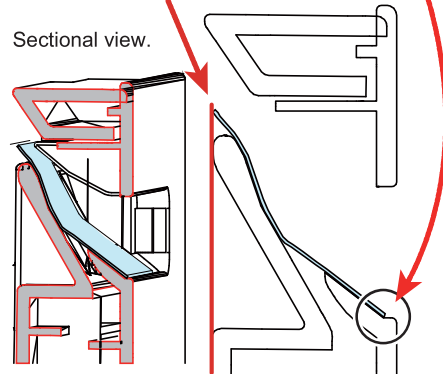


Attachment position of LCC guide sheet.

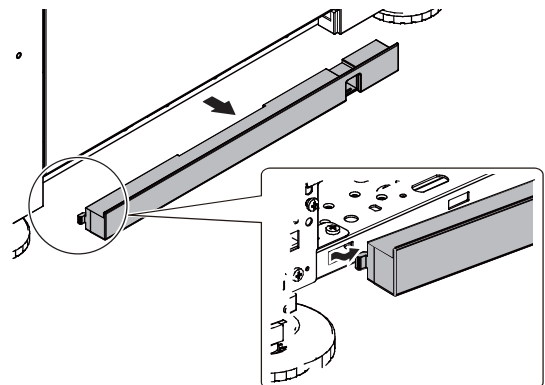
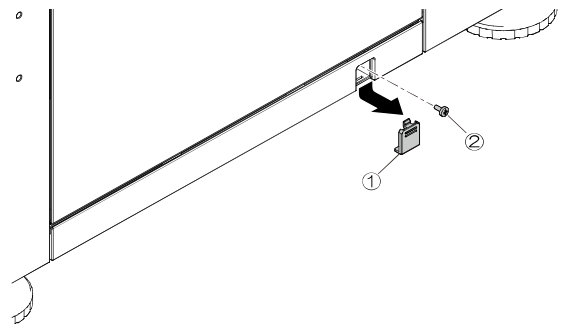


Be sure no protruding the tip of the sheet on the paper transportation guide.

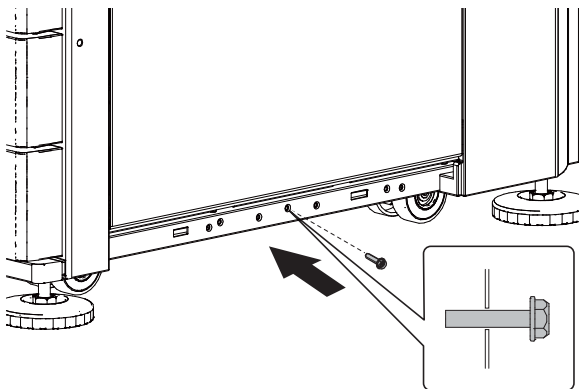
Sectional view.



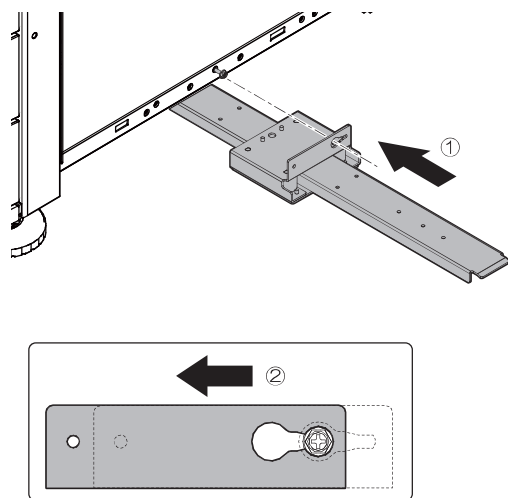
- 4) Remove the fixing screws (1 pc) of the machine and remove the screw cap. And remove the right under cover.



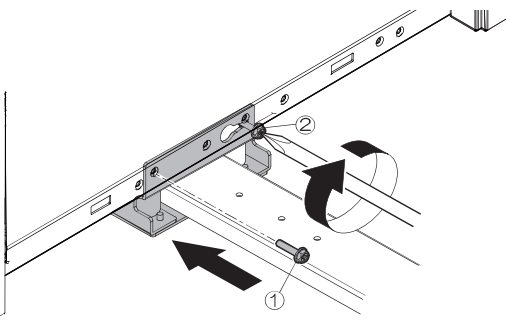
- 5) Temporarily fix the fixing screw B (Packed item No.5) midway.



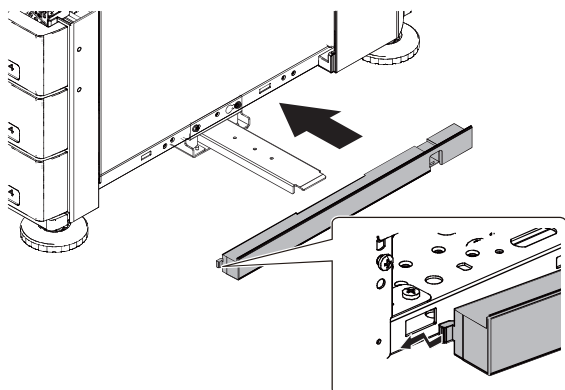
- 6) Insert the temporarily fixed screw B into the key hole in the connection unit and temporarily fix the connection unit.



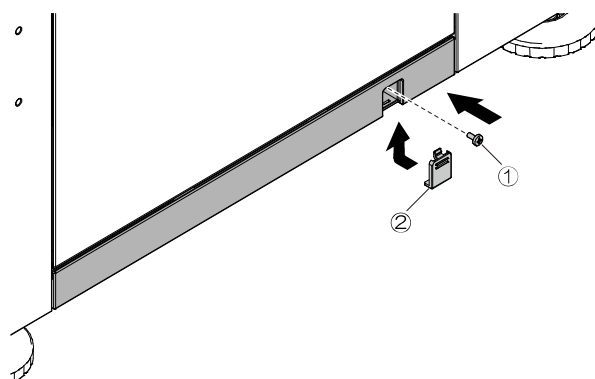
- 7) Fix the other fixing screw B and tighten the temporarily fixed screw B securely.



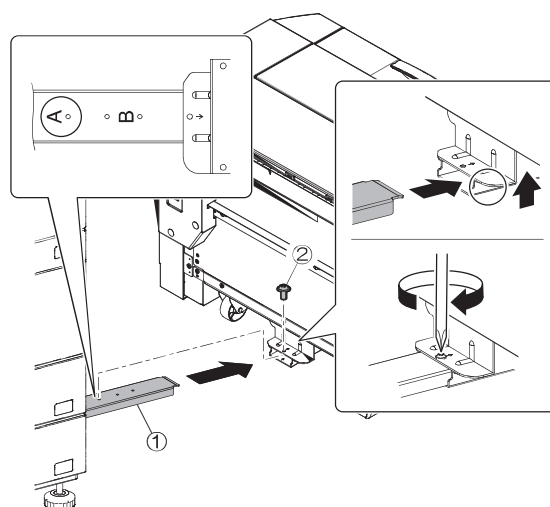
- 8) Attach the right under cover back to the main unit.



- 9) Fix the fixing screw, and attach the screw cap back to the main unit.

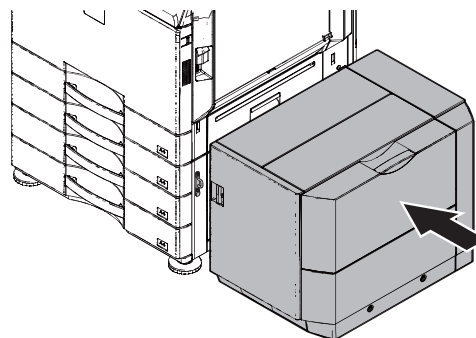


- 10) While lifting the section marked with ○ insert the connection unit into the large capacity tray and fix the fixing screw C (Packed item No.6) at the mark A on the connection unit.

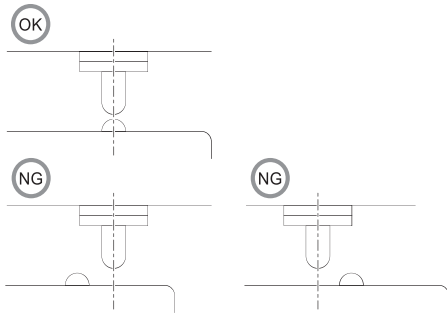
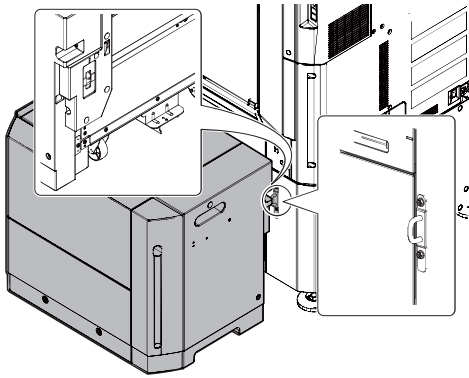


C. Height adjustment

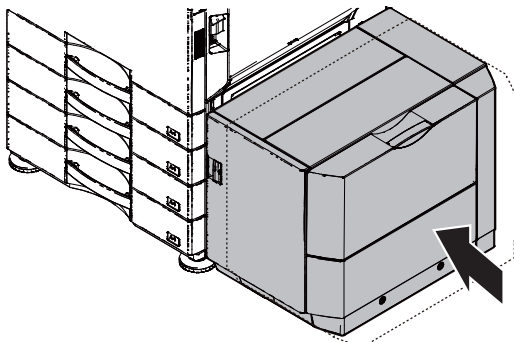
- 1) Put the large capacity tray closer to the main unit.



- 2) Check to insure that the height adjustment check rib of the large capacity tray and the axis line of the mounting plate upper mounted to the main unit are in the same line.

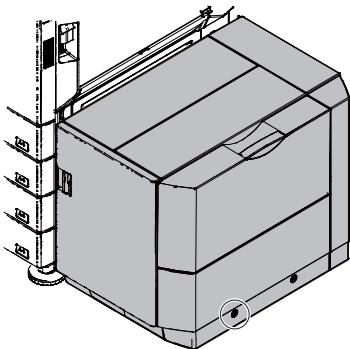


- 3) If the height adjustment is not required, insert the large capacity tray further more.
If the height adjustment is required, perform the adjustment procedure from 4).



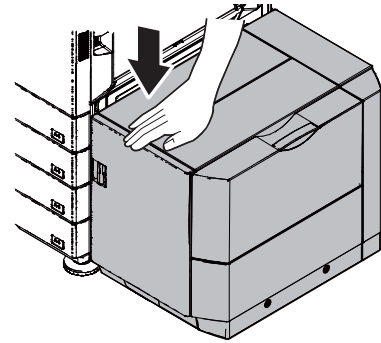
- 4) Loosen the adjustment screw on the F side.

NOTE: Use the adjustment screw on the front side for the adjustment. Do not touch the screw on the rear side.

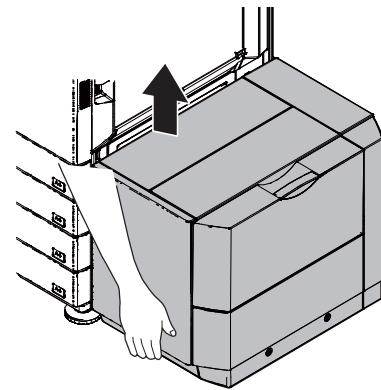


NOTE: If the screw is loosened or removed when servicing, be sure to execute C Height adjustment after completion of servicing.

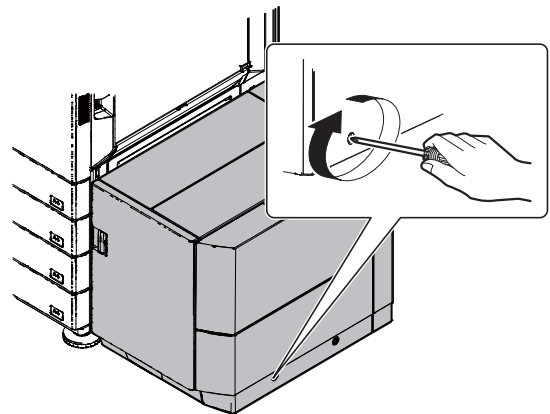
- 5) In the case of a shift to the right, press the front upper section and fit the height adjustment check rib so that it is in the same line with the axis line of the mounting plate upper. Insert the large capacity tray into the main unit.



- 6) In the case of a shift to the left, lift the grid so that the height adjustment check rib is in the same line with the axis line of the mounting plate upper and insert the large capacity tray.

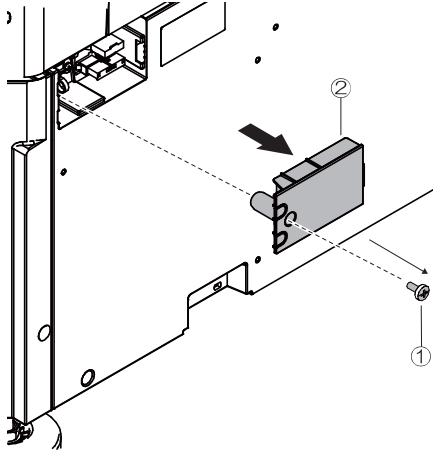


- 7) Tighten the loosened screw.

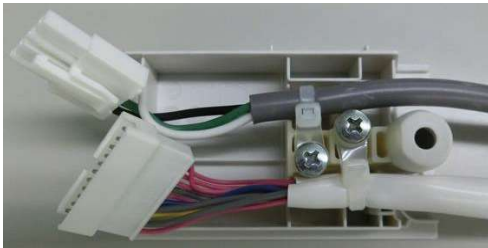


D. Connector connection

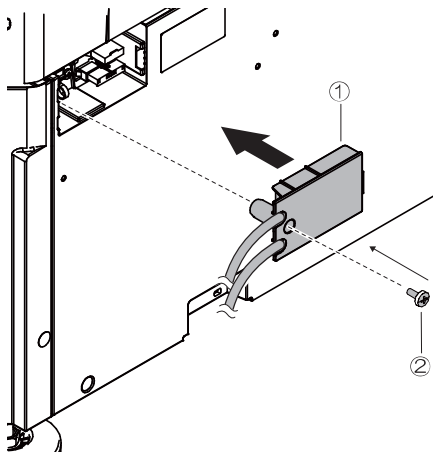
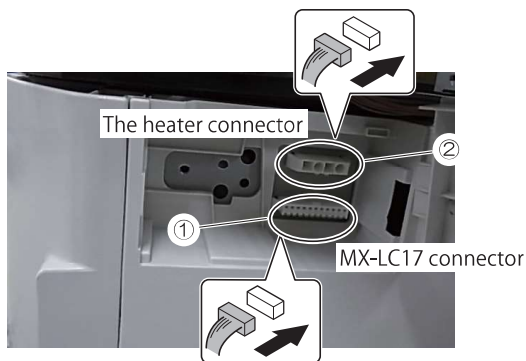
- 1) Remove the connector cover.
Do not use the connector cover removed.



- 2) Connect the connector.
If the heater kit is not installed, there is no need to connect the heater connector to the connector.

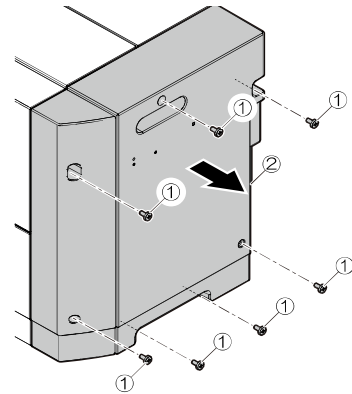


LCC harness is covered with a connector cover.

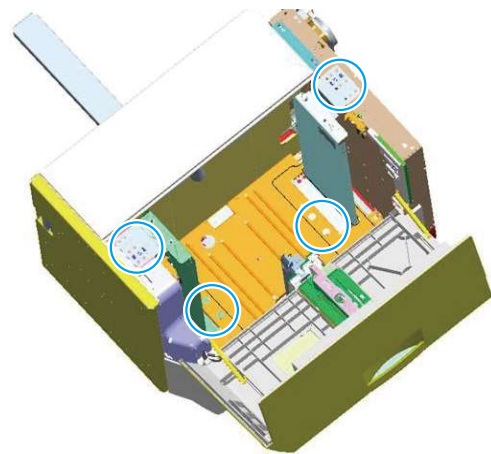


E. Paper size switch

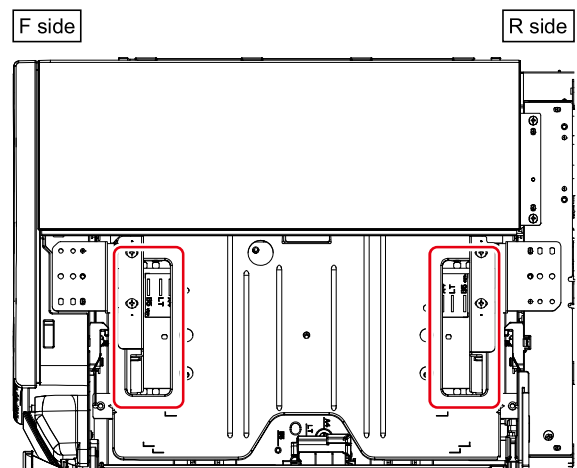
- 1) Remove Rear cover.



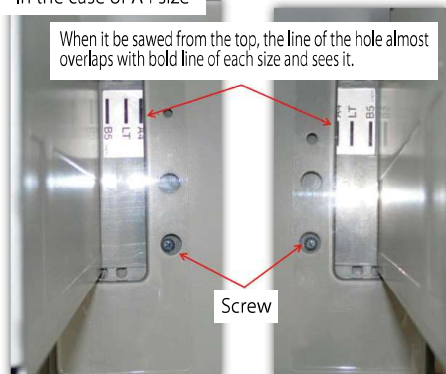
- 2) Remove fixing screw (4 pcs of blue screw) on upper and lower side of Side plate F and Side plate R.



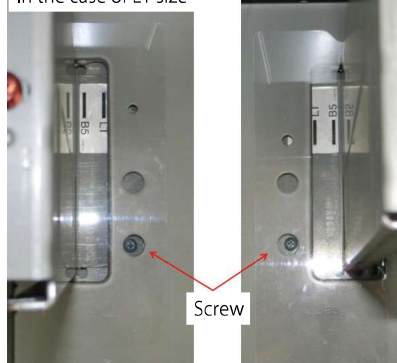
- 3) Insert the lower side according to the engraved mark on the lower side of Side plate F and Side plate R. Tighten upper and lower side using the fixing screws being removed.



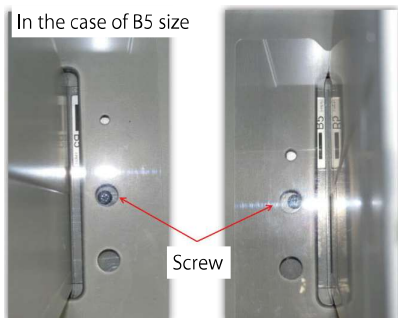
In the case of A4 size



In the case of LT size

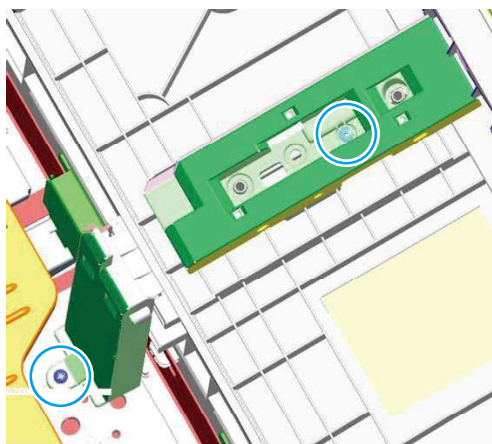


In the case of B5 size



4) Switching Rear edge plate

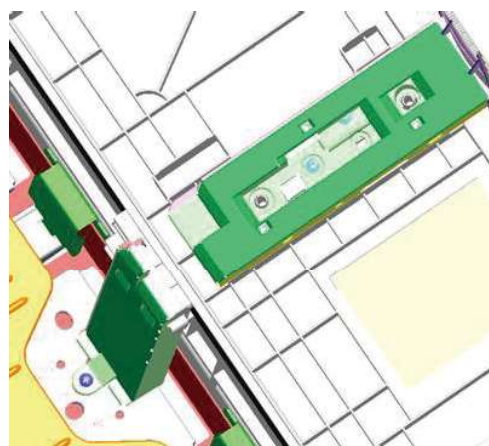
Remove the blue screws fixing the upper and lower Rear edge plate respectively.



5) Insert Size guide according to the engraved mark. Tighten upper and lower side using the fixing screws being removed (A4).



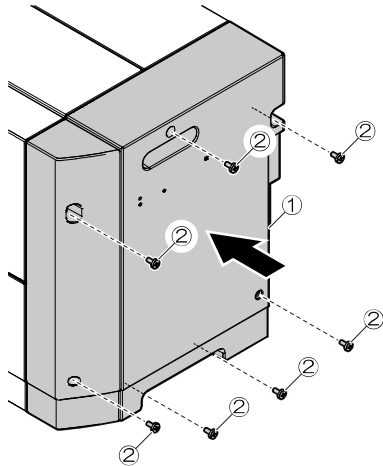
(LT)



(B5)



- 6) Attach Rear cover.



F. Turn ON the power of the main unit

- 1) Connect the power plug of the machine to the power outlet, and turn ON the main power switch and the operation panel power switch.

G. Size setting

Execute SIM 26-2 "Size setting" with the key operations of the main unit.

- 1) The size selection menu of the large capacity tray is displayed on the operation message display.
- 2) Select a size button to be set on the message screen.

H. Image off-center adjustment

(1) Adjustment with the simulation

Note

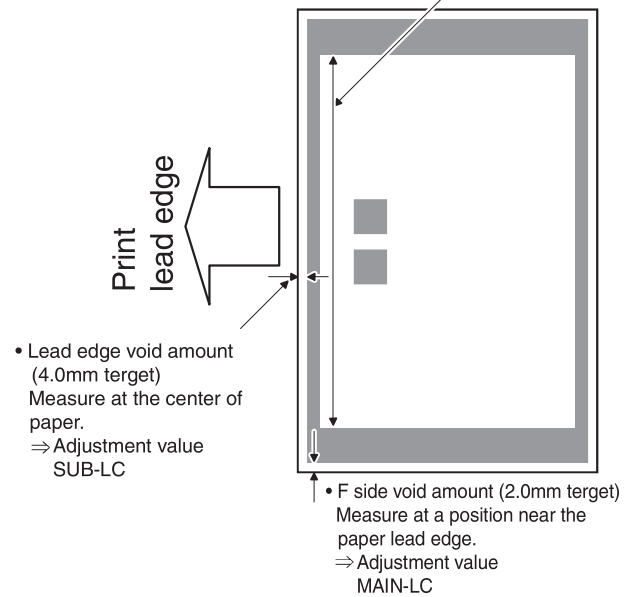
The image lead edge position and the off-center adjustment value of the large capacity tray have been set to the average value when shipping from the factory.

Therefore, this adjustment must be performed only when the judgment is made to execute it through checking the print image.

* There must be a tray with A4 (LT) paper in it.

- 1) Execute Sim 50-10.
- 2) Select a paper feed source "6" (LCC).
- 3) Set A4 (11 X 8.5) paper on the LCC paper feed tray.
- 4) Check to confirm that the inside dimension of the printed half-tone pattern is $240 \pm 1.2\text{mm}$.
If the above condition is not satisfied, follow and repeat the procedures of ADJ4A(Service manual) until a satisfactory result is obtained.
- 5) Measure the void area size of the adjustment pattern in the front/rear frame direction (F side void amount) and that in the transport direction (Lead edge void amount).
Check to confirm that all the following conditions are satisfied.

Main scanning magnification ratio ($240 \pm 1.2\text{mm}$)
Measure the dimension near the inner frame line and the paper lead edge in parallel with the line.
⇒ Adjustment value A : BK-MAG



Calculation and input procedures of adjustment values

(Example) Lead edge void amount

- (1) Measure by visual inspection.
→ Measurement result: 4.5mm
- (2) Calculate the shift amount.
The target value is the specification value (center value) of 3mm.
* For the F side void amount, the target is 2mm.
→ $[4 - 4.5 = -0.5 \text{ (mm)}]$
- (3) Calculate the adjustment value.
Subtract 5 from the shift amount of -0.5mm.
* For the shift amount of 0.1mm, the adjustment value is varied by 1.
→ When the current value is 50:
 $[50 - 5 = 45]$
- (4) Enter the adjustment value for SUB-LC.
→ Enter the [45].
- 6) Enter MAIN-LC (F side void) and SUB-LC (Lead edge void), and tap OK button.
Enter the calculated adjustment values for the shift amount to MAIN-LC/SUB-LC, and tap OK button. (The cursor can be used instead of the button.)
- 7) After entering the adjustment values, print again and check to confirm that the void amounts are adjusted to the target range.

Perform procedures 4) to 7) for each paper feed tray.

(2) Mechanical adjustment

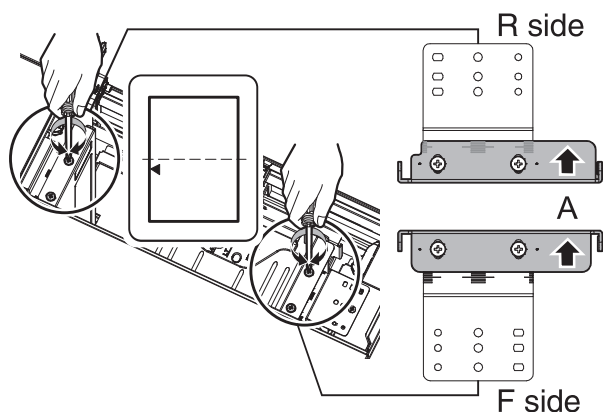
Since the off-center adjustment is performed when shipping, there is basically no need to perform this adjustment. If the center is shifted, however, the simulation is normally used. If the shift is not removed, perform the following adjustment procedures.

a. When the shift is in the front side

To adjust the print line in the direction A from the paper center as shown in the figure:

- 1) Loosen two fixing screws (red screws) of the front/rear size guide adjustment plate, and move the size guide adjustment plate in the direction A (R side) by the shift amount, and tighten the red fixing screws (2 for each).

Then make a copy to check to insure that there is no more shift.
Repeat the procedures until there is no shift.

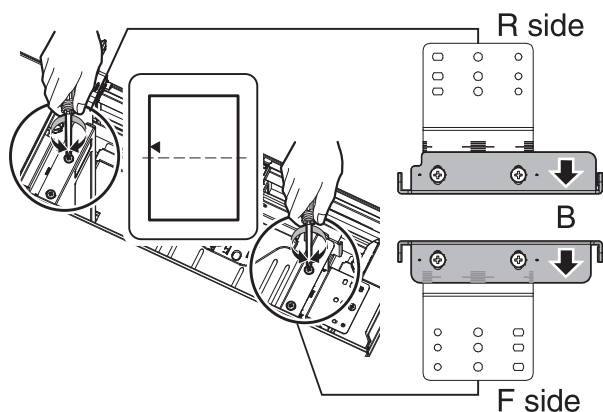


b. When the shift is in the rear side

To adjust the print line in the direction B from the paper center as shown in the figure:

- 1) Loosen two fixing screws (red screws) of the front/rear size guide adjustment plate, and move the size guide adjustment plate in the direction B (F side) by the shift amount, and tighten the red fixing screws (2 for each).

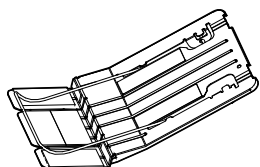
Then make a copy to check to insure that there is no more shift.
Repeat the procedures until there is no shift.



[5] MX-LT10 (LONG PAPER FEEDING TRAY)

1. Unpacking

A. Packed items check



No.	Name	Quantity
1	Long paper feeding tray	1

2. Installation

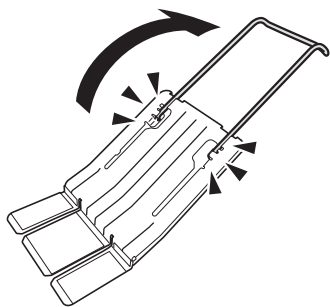
Important

Do not insert the finger in the hook part of the tray.

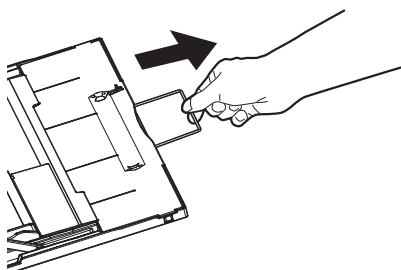


A. Long paper feeding tray attachment

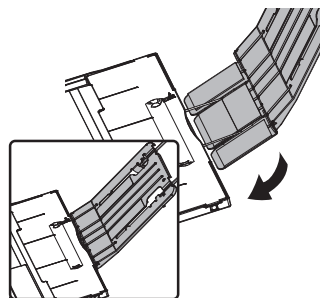
- 1) Open the long paper feeding tray guide and hook it to the lock of the long paper feeding tray.



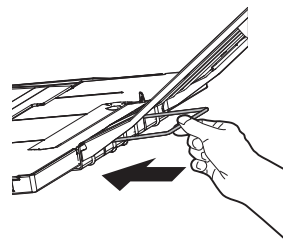
- 2) Pull out the guide of the machine.



- 3) Hook the Long paper feeding tray to the guide of the machine.



- 4) Insert the guide of the machine.

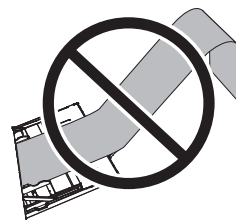


Important

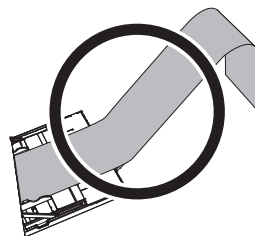
This tray can only be used for long paper feeding.



Do not leave long paper for an extended period of time.



You can use long paper with this tray.



B. Turn ON the power of the main unit

- 1) Connect the power plug of the machine to the power outlet and turn ON the main power switch and operation panel power switch.

C. Tray setting

Use Sim26-50 to set "Banner size print" to 1.