

SHARP

Be Original.



Manual de instalare

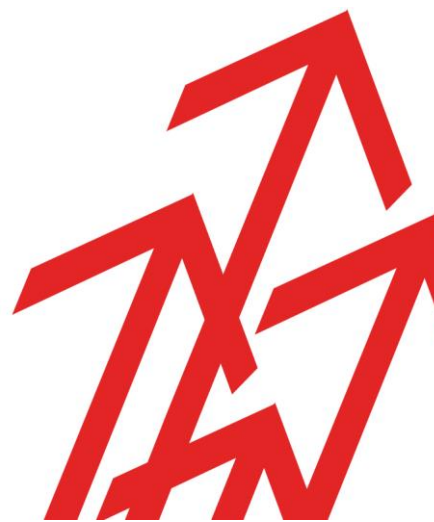
**pentru
multifunctionale**

SHARP

BP-30M28 / BP-30M31 / BP-30M35

Considerente generale privind instalarea echipamentelor de printing:

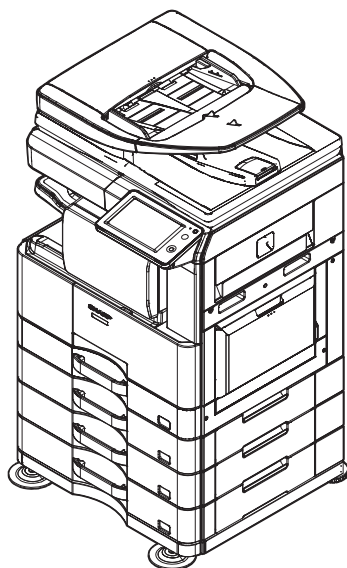
- Manipularea echipamentelor se face respectand procedurile de transport si punere in locatie tinand cont de gabaritul echipamentului si a spatiului destinat acestuia
- Respectarea normelor privind conectarea la retea electrica, folosirea de prize cu impamantare este obligatorie
- Fixarea corecta a echipamentului 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: 00ZBP30M35I2E

DIGITAL MULTIFUNCTIONAL SYSTEM



BP-30M28
BP-30M31
MODEL BP-30M35

CONTENTS

Transit, Installation (using) environment, Note

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(STAND/2x500 SHEET PAPER DRAWER).....3-1
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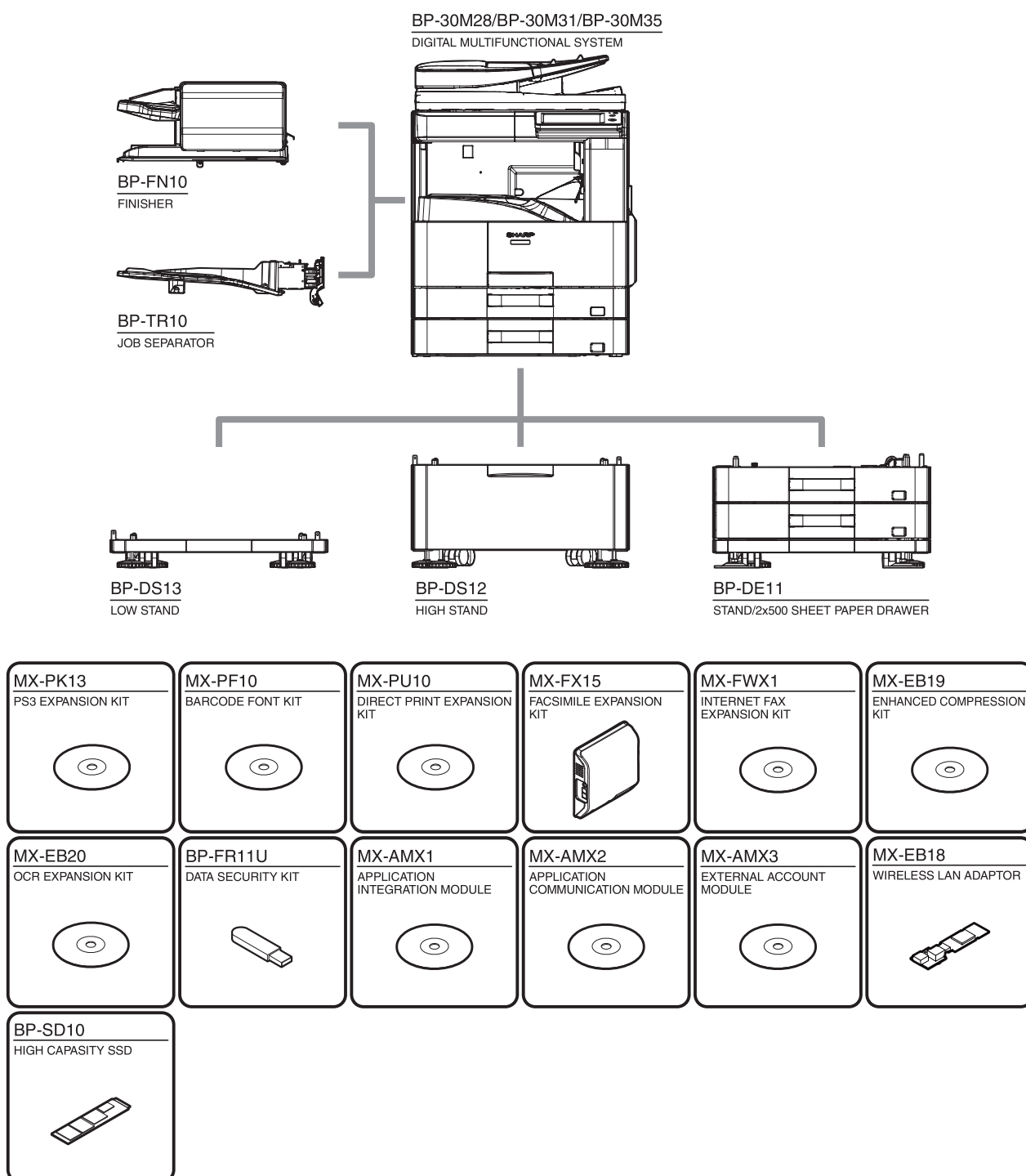
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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

[1] CONFIGURATION

1. System diagram

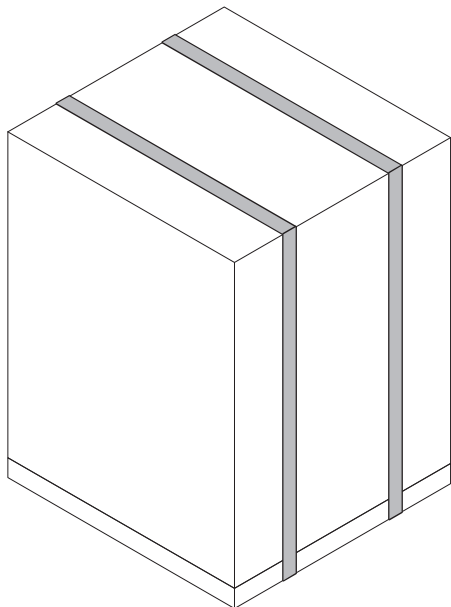


[2] BP-30M28/30M31/30M35(MAIN UNIT)

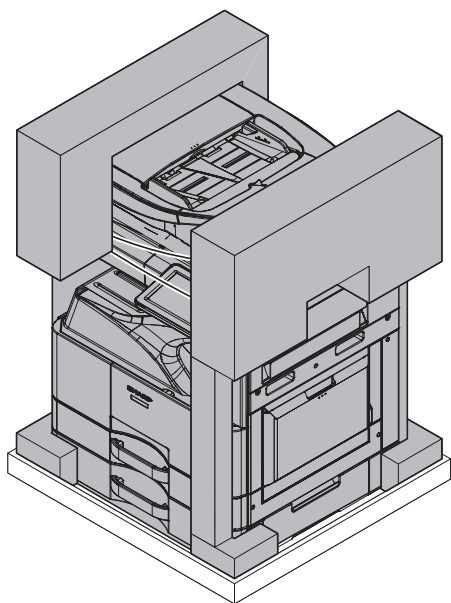
1. Unpacking

A. Unpacking

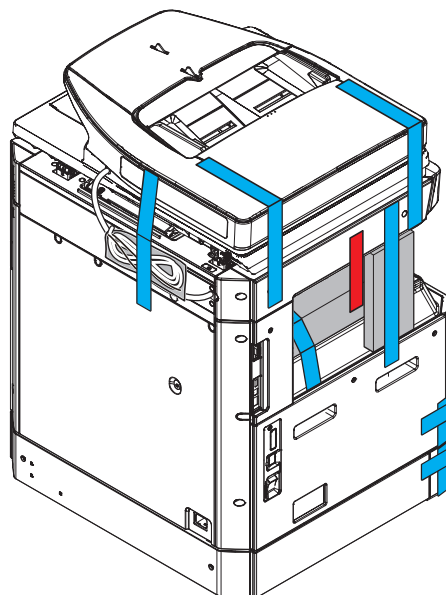
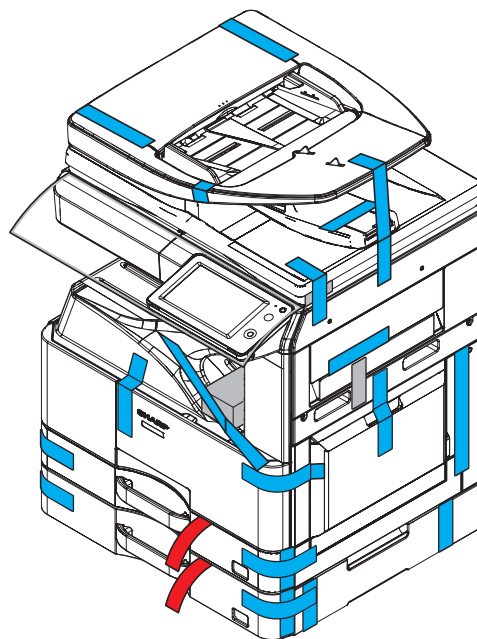
- 1) Remove the packing box.



- 2) Remove cushioning material and plastic bags.



B. Fixing tape and protection material removal



[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.

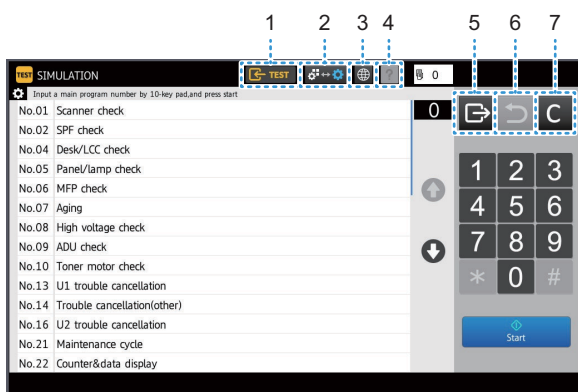
- 1) Various adjustments
- 2) Setting of the specifications and functions
- 3) Canceling troubles
- 4) Operation check
- 5) Counters check, setting clear
- 6) Machine operating conditions (histories) data check, clear
- 7) Various (adjustments, setting, operation, counters, etc) data transport.

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

There are two simulation modes.

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

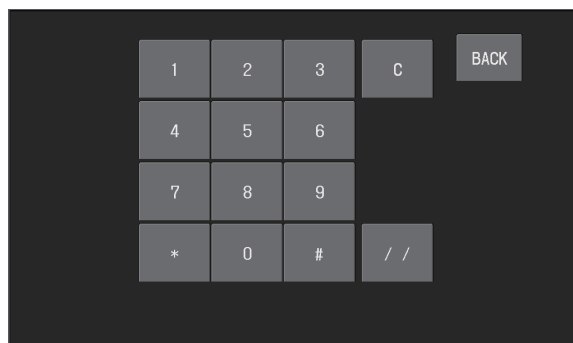
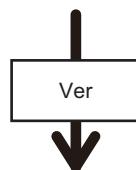
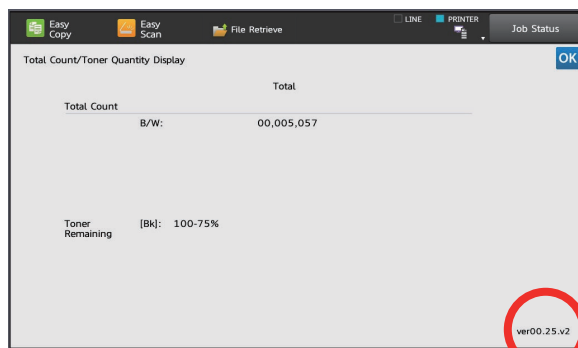


No.	Name	Function
1	TEST key	Change test mode
2	Mode setting key	Change Easy mode, Classic mode
3	Language setting key	Change language in simulation mode
4	INFO key	Display operation of current display
5	EXIT key	Exit from simulation mode
6	BACK key	Back to the previous display
7	Clear key	Clear input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

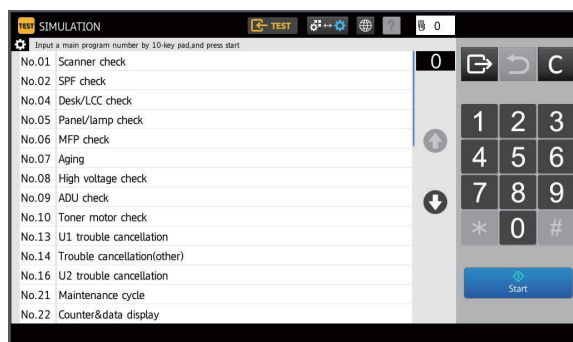
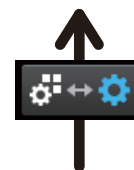
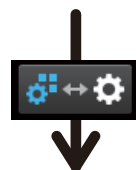
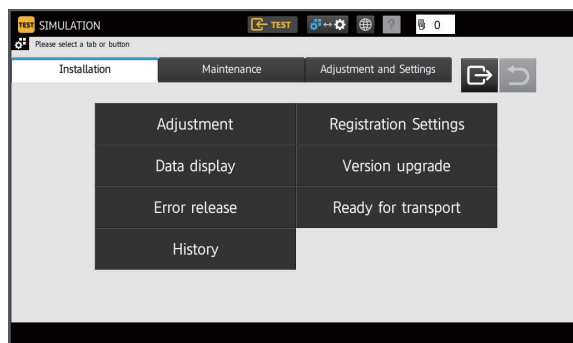
3. Starting the simulation

Entering the simulation mode.

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

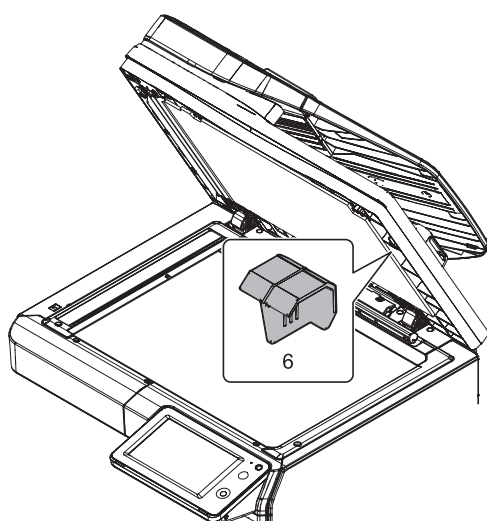
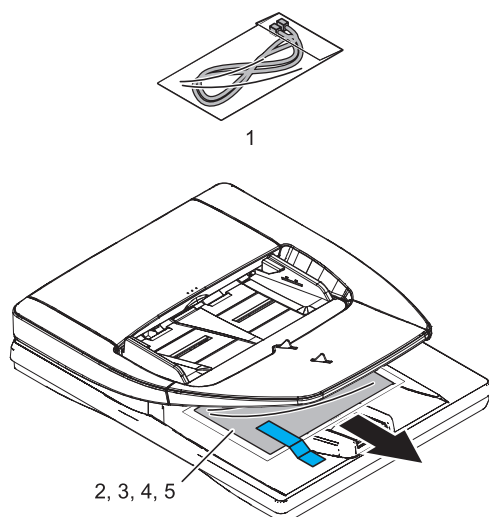


- 3) Tap the (#) key → Asterisk (*) key → Clear key → Asterisk (*) key → Ready for input of main code of simulation.



C. Packed items check

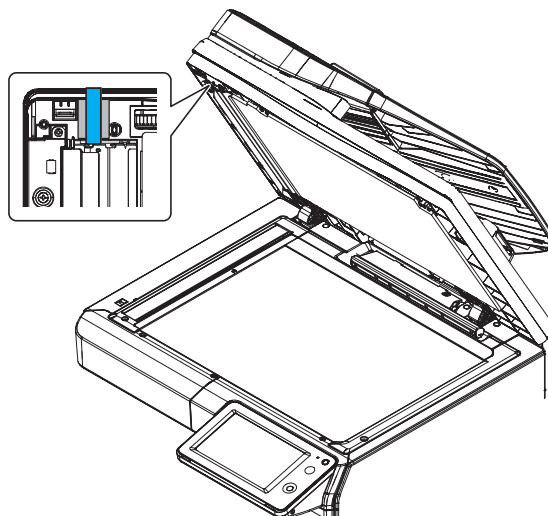
No.	Parts name	Quantity
1	AC cord	1
2	Manual	1
3	CD- ROM (Excluding EU and SCA/SCNZ)	1
4	Starting guide	1
5	Protection sheet	1
6	Glass cleaner (with RSPF)	1



D. Lock release

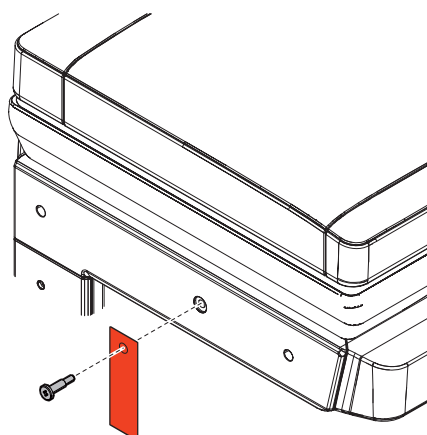
(1) RSPF cushioning material release.

- 1) Remove RSPF cushioning material.

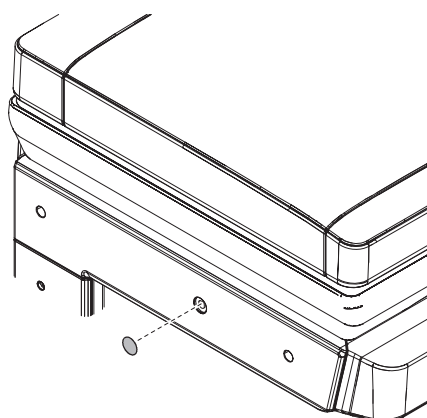


(2) Scanner (2/3 mirror unit) lock release

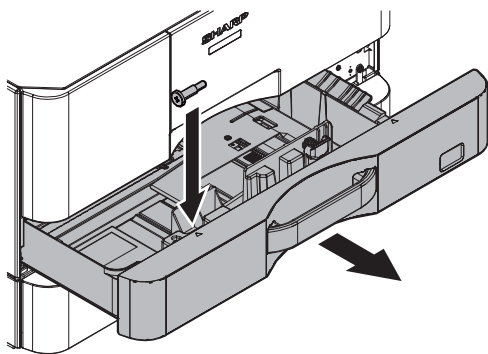
- 1) Remove the optical unit fixing screw, and remove the note label.



- 2) Attache the protection sheet.



- 3) The fixing screw is required when transporting The machine.
Keep it in The tray.

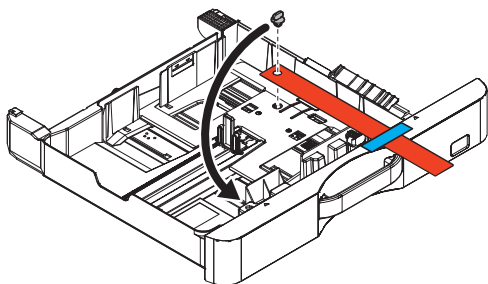


(3) Tray rotation plate lock release

- 1) Attach the removed fixing material to the position shown in the figure for storage.

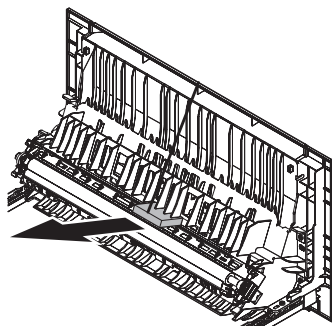
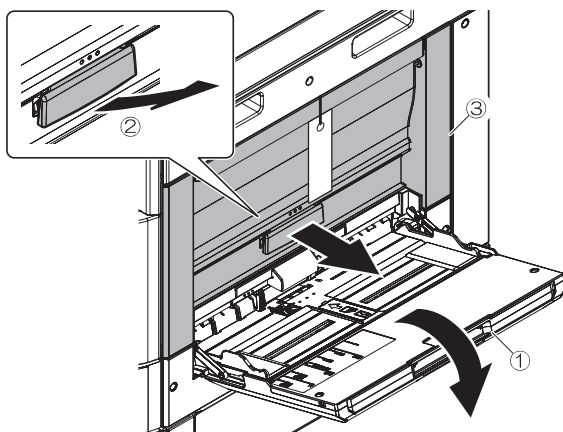
Important

The first tray and the second tray of the main body have a mechanism that only one can be pulled out.



(4) Removal of the drum protection sheet.

- 1) Open the right door and pull out the transfer spacer from side door unit.



2. Installation

<Note before installation>

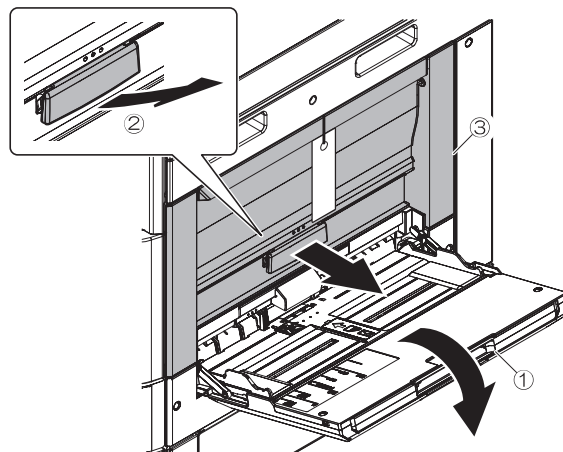
- * When connecting the main unit with the optional paper drawer, first unpack and install the paper drawer, then unpack the main unit and securely place the main unit on the paper drawer before installing the main unit.

A. Developer installation

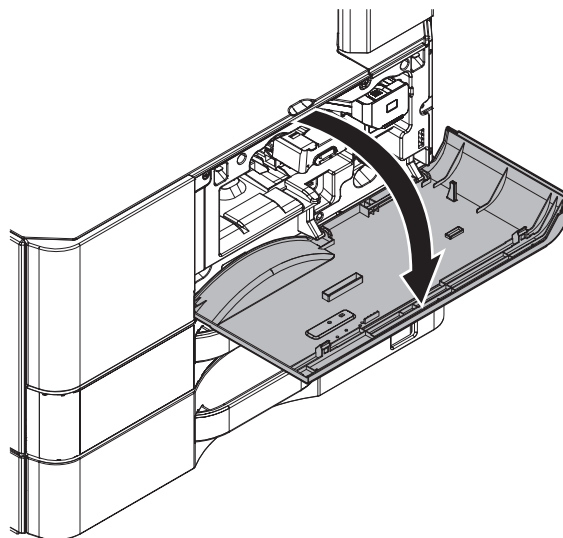
Be careful not to put fingerprints or oil dirt on the roller surface.

Do not hold the case adjacent to the DV roller strongly.

- 1) Open the bypass tray, and open the side cover.

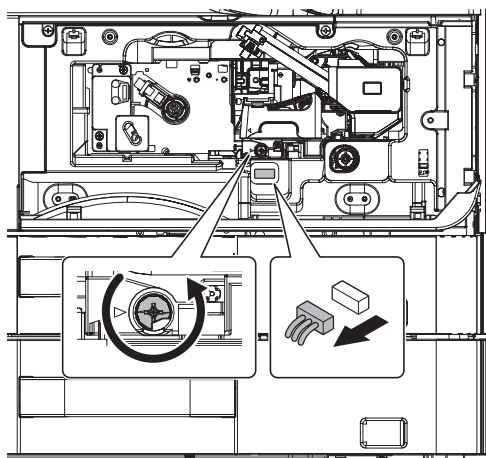


- 2) Open the front cover.

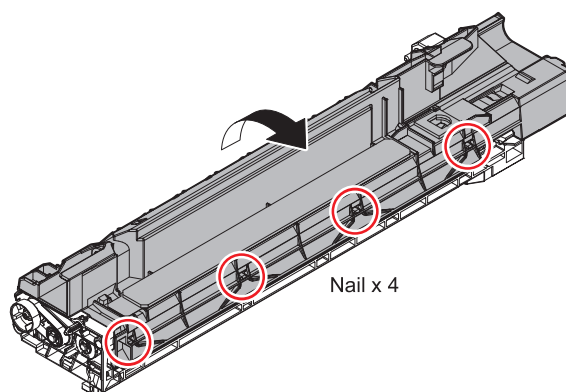


- 3) Remove the connector.

Loosen the fixing screw of the developing unit, and pull out the developing unit.

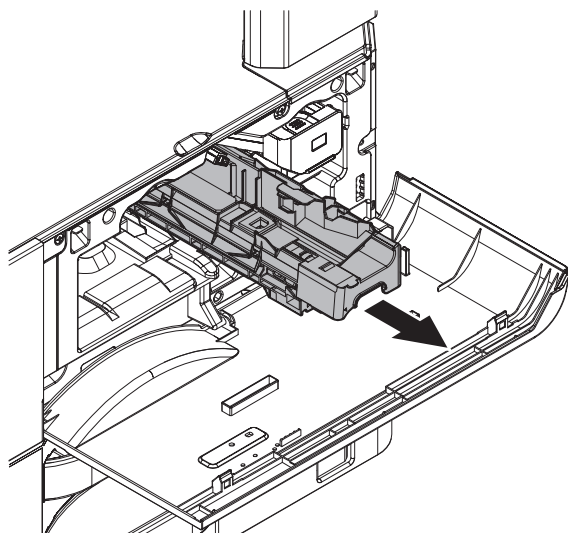


- 5) Remove the DV top cover.

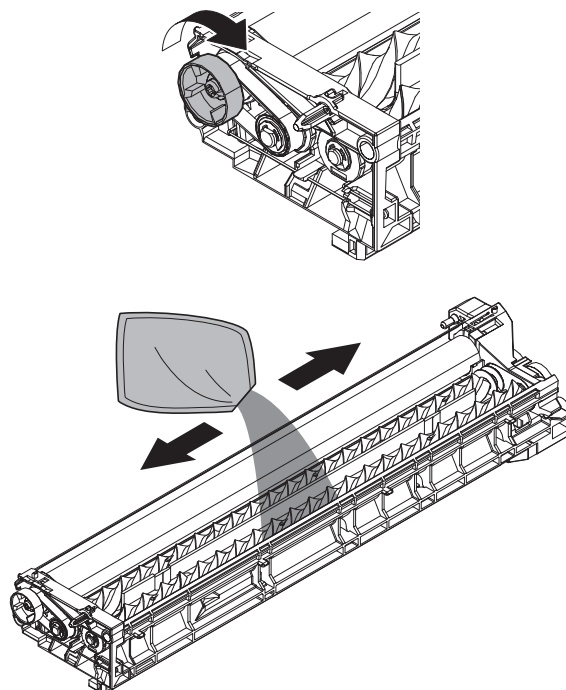
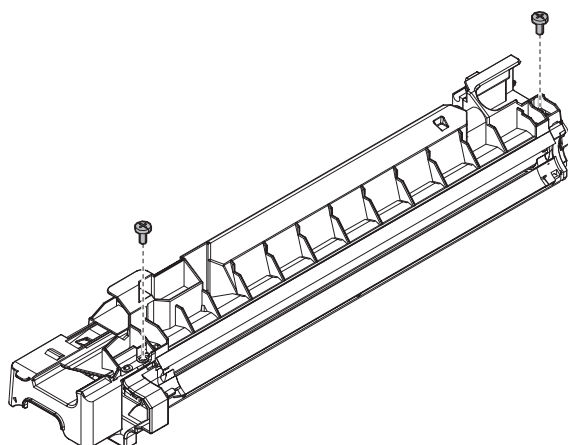


- 6) While rotating the MG roller in the arrow direction, supply the developer into the developer tank evenly so as not to overflow.

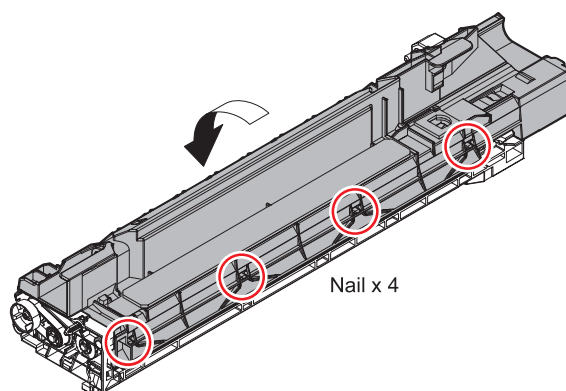
* Shake the developer bag enough before opening it.



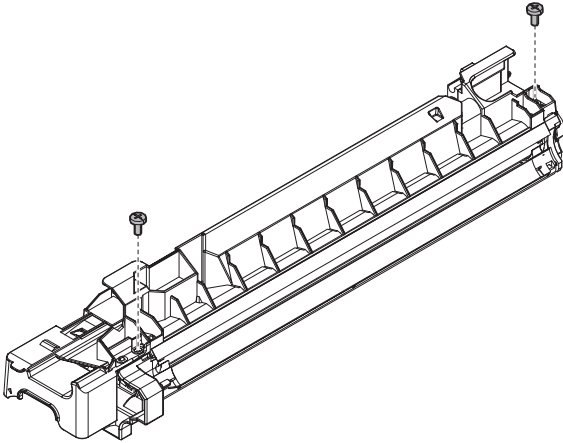
- 4) Remove the screws.



- 7) Attach the DV top cover.

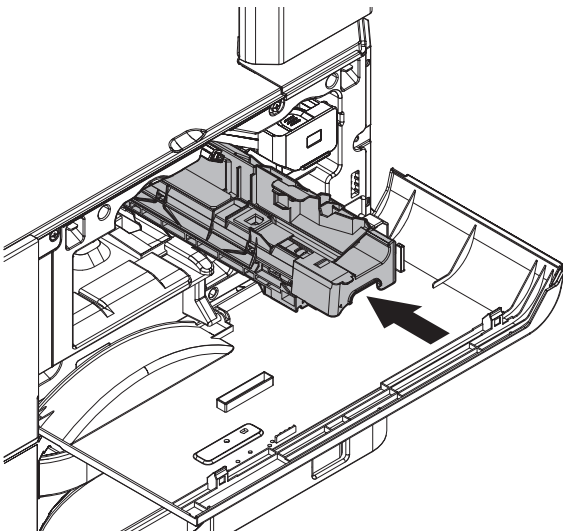


- 8) Tighten the screws.

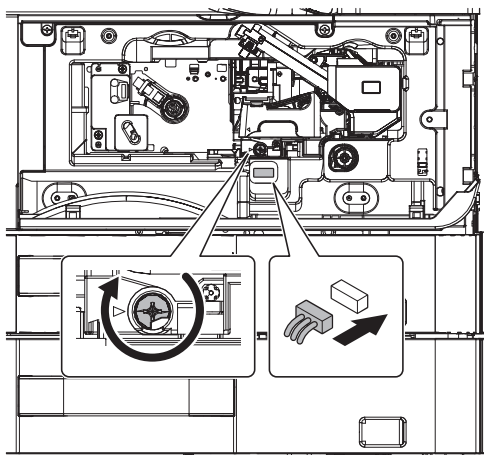


- * Check that the DV seal is free from the developer.
If developer is attached to the DV seal, clean it.
- * After supplying developer, do not tilt or shake the developer cartridge.
- * Check that the both ends of the DV seals are not put in the developer cover.

- 9) Attach the developing unit to the main unit.

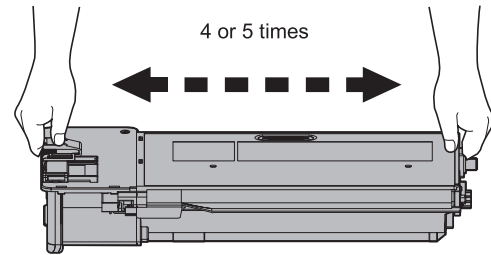


- 10) Secure the developing unit with the screw.
Connect the harness of the developing unit to the machine.

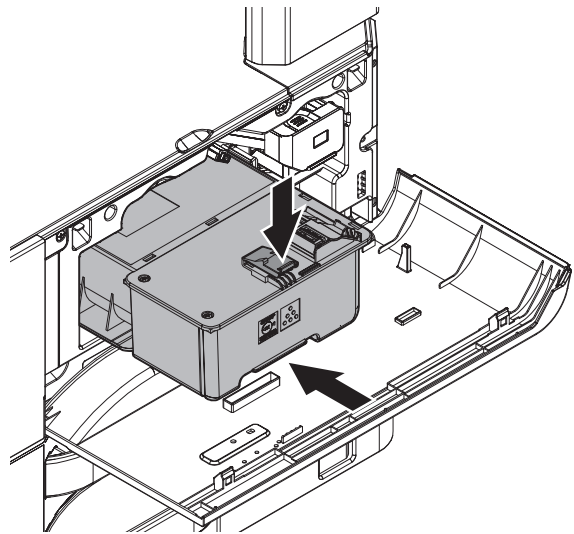


B. Toner cartridge installation

- 1) Remove the new toner cartridge from the box. Grasp the cartridge on both sides and shake it horizontally four or five times.



- 2) Insert the toner cartridge along the guides until it locks in place while pushing the lock release lever. If there is any dirt or dust on the toner cartridge, remove it before installing the cartridge.



C. Toner density reference control level setting

- 1) With the front cover open, turn ON the machine power and enter SIM25-02.

NOTE: When the machine is not in the simulation mode, if the front cover is closed and the machine power is turned ON, F2-40 trouble code will occur due to non-execution of SIM25-02 for the initial setting time only.

Therefore, if F2-40 trouble code occur due to non-execution of SIM25-02, execute SIM25-02 according to regular procedure (based on C-1,2,3) again for the initial setting time only.

* It is necessary to install the toner cartridge to start this simulation.

- 2) Close the front cabinet.
3) After selecting K with "1" of the "10" key, Press [START] key, and execute SIM25-02.

NOTE: It takes about 2 minutes to execute SIM25-02 completely. During execution of this simulation, the front cover must not be opened and the machine power must not be turned OFF.

- 4) Confirm that "COMPLETE" is displayed.
[Confirmation items]
- COMPLETE is displayed.
 - There is no error (EE-EL, EE-EU, EE-EC) display.
 - Check that there is no abnormal noise in process un.

D. Tray setup

(1) Paper feed tray setup

a. System setting

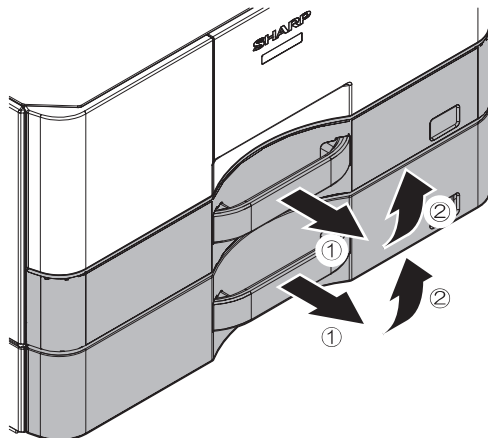
- 1) Press the [SETTINGS] key.
- 2) Touch the [Init. Install Settings] key.
- 3) Touch the [Password] key at the Administrator Login.
Enter the password with 10-key. "admin"
- 4) Touch the [Paper Tray Settings] key to configure the settings.
These settings specify the paper type, paper size, and functions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

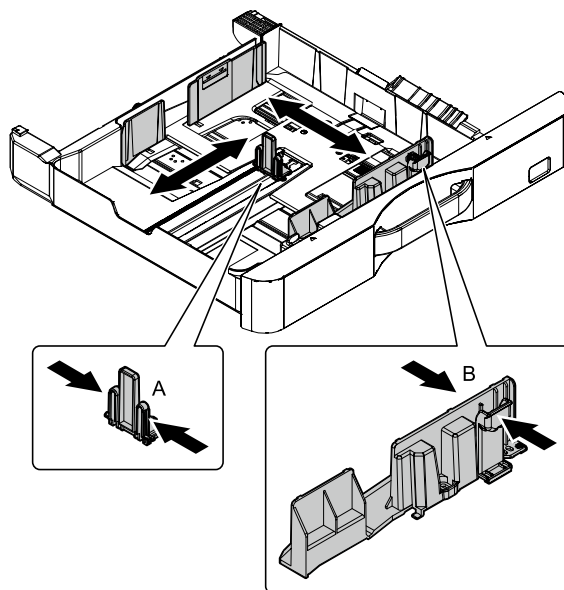


Important

The first tray and the second tray of the main body have a mechanism that only one can be pulled out.

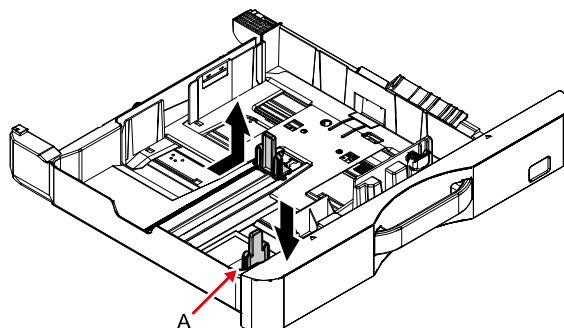
- 2) Adjust the guide plates A and B by squeezing their lock levers and sliding them to match the vertical and horizontal dimensions of the paper to be loaded.

The paper guide plates A and B can slide, slide each guide plate while squeezing lock lever.



Note

Remove the divider plate. Move the divider plate all the way over to the paper feed opening side (right side), and pull up to remove. Insert the removed divider plate into A.



E. Specifications 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.
	52	Used to set YES/NO of counting when non-print paper is passed through each counter.

3. Image quality check

A. Execution items

Execute the following items.

No.	Item	SIM
1	Copy gray balance and density check	-
2	Printer gray balance/density check	64-5

When there are defects in a picture by the contents mentioned above, you carry out the following contents, and confirm a picture.

No.	Item	SIM
3	Copy gray balance adjustment (Manual adjustment)	46-16
4	Printer gray balance adjustment (Manual adjustment)	67-25
5	Print/scan image off-center, lead edge position adjustment	50-10

B. Description

(1) Copy gray balance and density check

Method 1

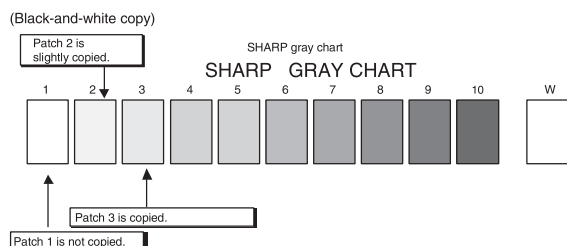
Take a copy of gray test chart (UKOG-0162FCZZ) to verify whether gray balance / density is appropriate.

a. Points to note for verification of density for black and white copy mode

Use gray test chart (UKOG-0162FCZZ), set Exposure to "3" in Text/Printed Photo mode and take a copy to verify density. All the gray balance adjustments in user adjustment mode should be set to default (center).

Verification using a test chart for gray (UKOG-0162FCZZ)

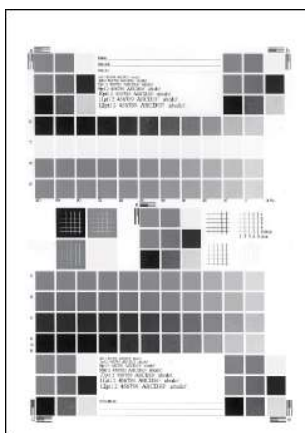
Check whether following conditions are satisfied when verifying the density of a test chart for gray for copy.



(2) Printer gray balance/density check

Method

Execute SIM 64-5 to print the print test pattern.



Print density should change gradually from lighter to darker.
Make sure that the density does not shift oppositely.
The density level of all colors should be equal.

(3) Copy gray balance adjustment (Manual adjustment)

This is to adjust density of each level for B/W copy.

This adjustment is required in the following case:

- Density of auto B/W copy is not appropriate.

- Enter Simulation 46-16 mode.
- Select the density level (point) for adjustment using the [↑ ↓] keys.
Enter adjustment value using the numeric keys.

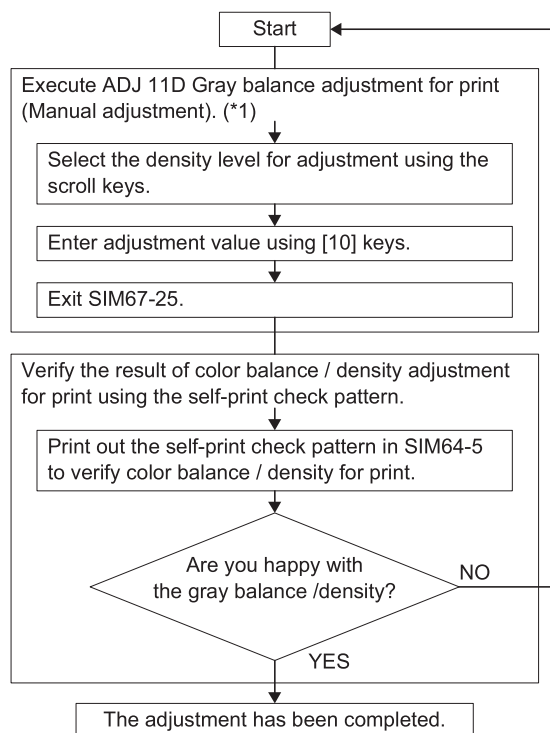
Item	Display	Description	Minimum value	Maximum value	Default value
A - Q	POINT1 K - POINT17 K	Point 1 - Point 17	1	1 - 999	500

- Press [OK] key (to store the set value).
Increase the adjustment value to increase the density, decrease the value to decrease the density.
- Pressing [Start] key will print out the adjusting pattern.
Although it is possible to verify the density at each density level (point) referring to this pattern, it is better to take a copy and verify the result.
- Take a copy and verify the result of the adjustment.
Switch between the simulation mode and copy mode back and forth to make an adjustment referring to the actual copy image.
Repeat this procedure until the copy image is satisfied.

(4) Printer gray balance adjustment (Manual adjustment)

- Enter Simulation 67-25 mode.
- Select the color using [10] key.
- Enter adjustment value using [10] key. And Press [OK] key.
The range of adjustment value available is 1 to 255.
Increase the adjustment value to increase the density, decrease the value to decrease the density.
Repeat the steps 2) to 3) until the adjustment is satisfactory.
(Refer to the section for verification of color balance and density for print)

Work flow for gray balance / density adjustment for print (Manual adjustment) (SIM67-25)



(5) Print image position adjustment

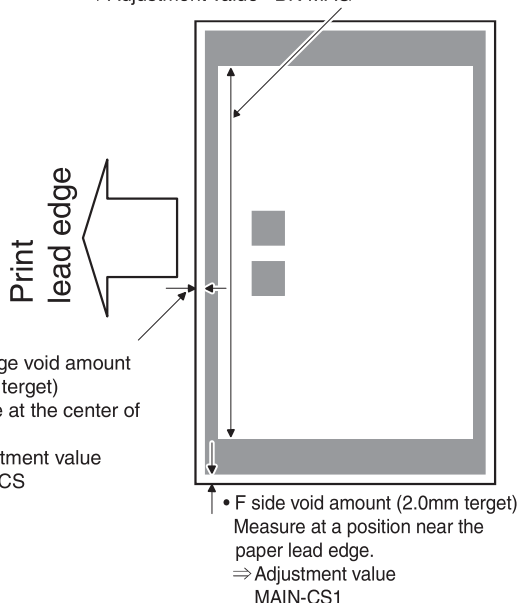
Before executing this adjustment, be sure to check the following items.

* 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 $240 \pm 1.9\text{mm}$.
- 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 ($240 \pm 1.9\text{mm}$)
 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.

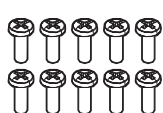
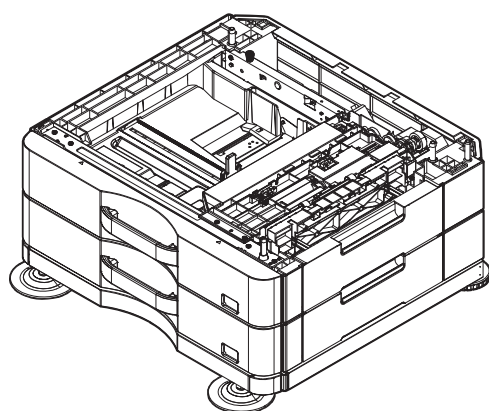
Enter the calculated adjustment values for the shift amount to MAIN-CS1/SUB-CS1, and tap OK button. (The cursor can be used instead of the button.)

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

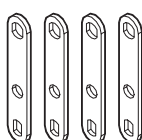
[3] BP-DE11(STAND/2x500 SHEET PAPER DRAWER)

1. Unpacking

A. Packed items check



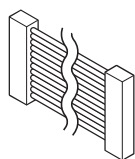
1



2



3



4

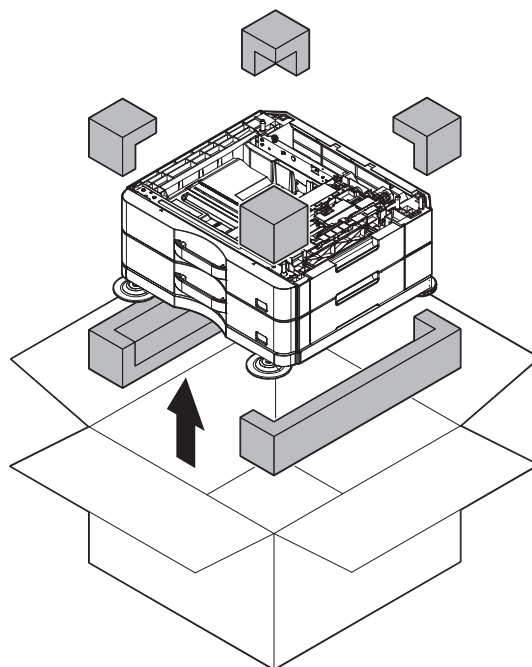


5

No.	Name	Quantity
1	Fixing screws (M4×12 P-type)	10
2	Plate	4
3	Size indication label	2
4	Harness	1
5	Fixing screws (M3×6 S-type)	1

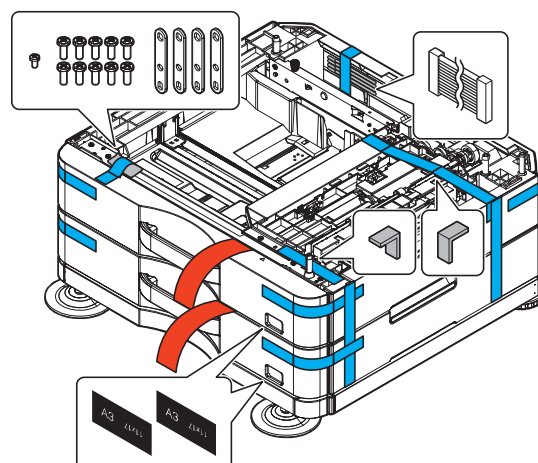
B. Removal of the fixing tape and protection material

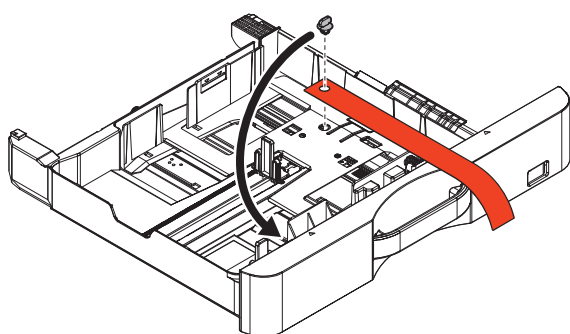
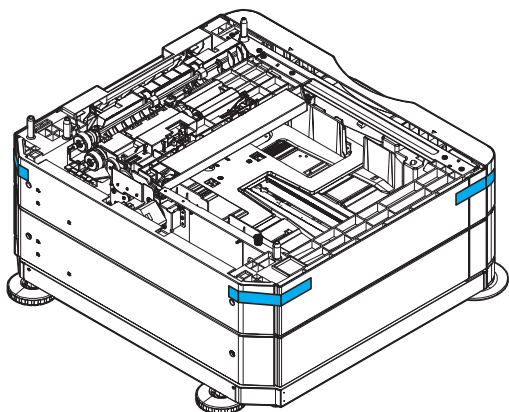
- 1) Removal of the stand/2x500 sheet paper drawer.



C. Removal of the fixing tape and protection material

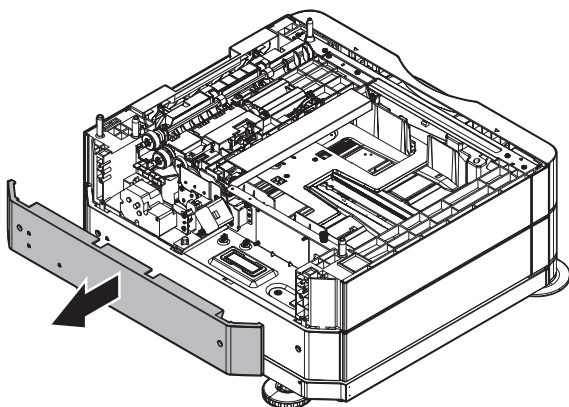
- 1) Remove the stand/2x500 sheet paper drawer from the polyethylene bag, and remove the fixing tape and the protection material.





Important

Since Rear cabinet has not been screwed, remove the tape and keep the Rear cabinet out of reach.



2. Installation

Important

<Precautions for installation>

Before execution of installation, check to confirm that the data lamp under it are not lighted or blinking.

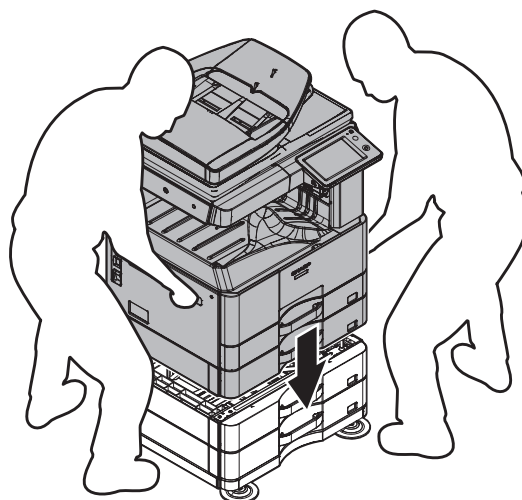
A. Turn off the power of the main unit

- 1) Check to confirm that the operation panel is turned OFF, and then turn OFF the power switch.
- 2) Disconnect the power plug from the power outlet.

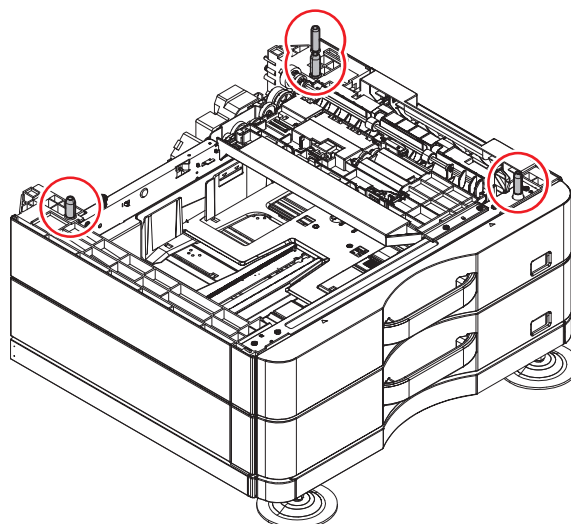
B. Install the main unit to the BP-DE11 (BP-30M28/BP-30M31/BP-30M35)

Important

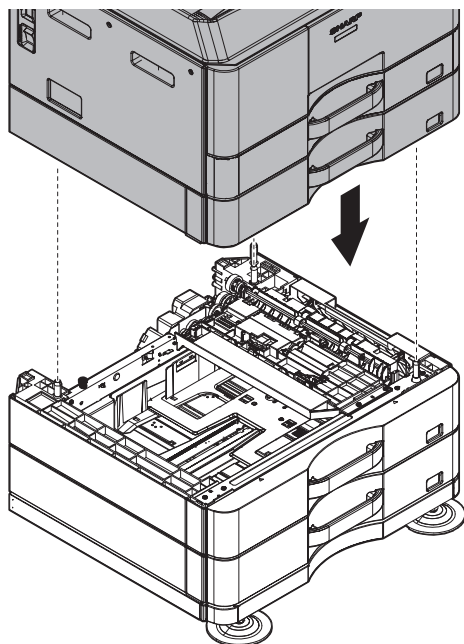
Use man power of two persons to lift the main unit.



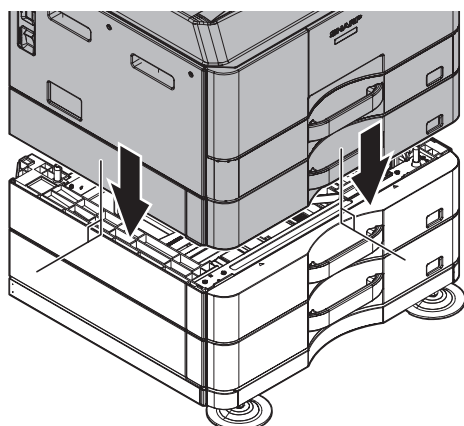
Gently place main unit onto the optional Cassette, aligning and inserting the 4 locating bosses of optional tray into the locating holes on the bottom of the main unit.



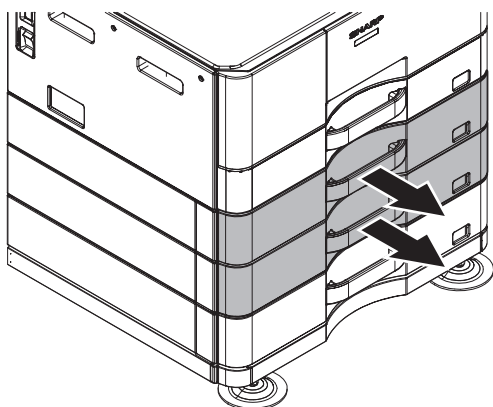
- 1) Place the main unit on BP-DE11.
Pay attention to the position of the boss which is the connection part of BP-DE11.



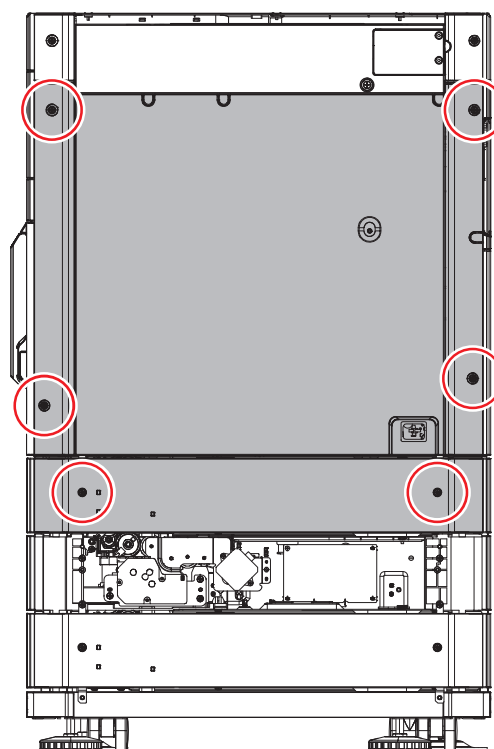
Lower the main body straight.



- 2) Remove the tray of the main unit and BP-DE11 upper tray.

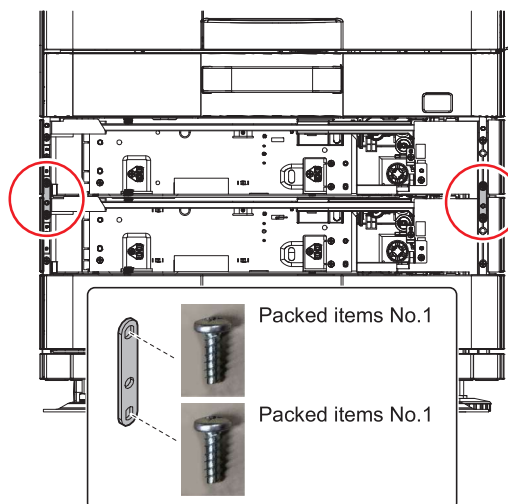


- 3) Remove the screws and the rear cover.

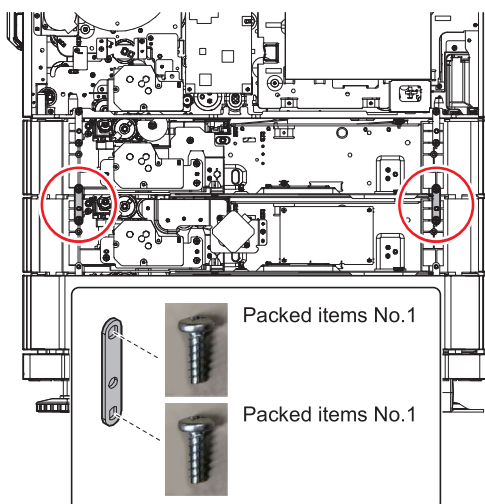


- 4) Align the left and right connecting plates with the screw holes on the body and fasten them with screws.
Fix the main unit and the BP-DE11 with screws.

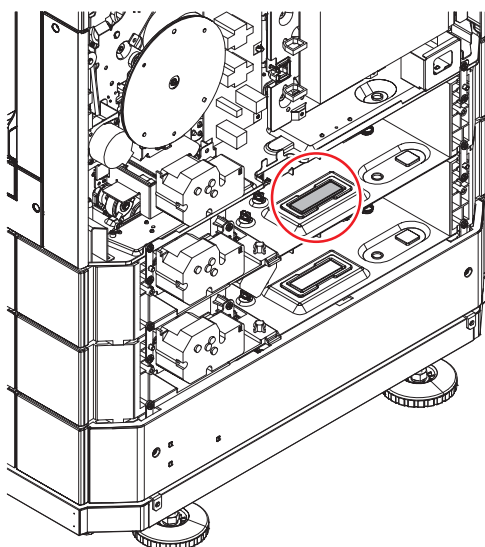
Front



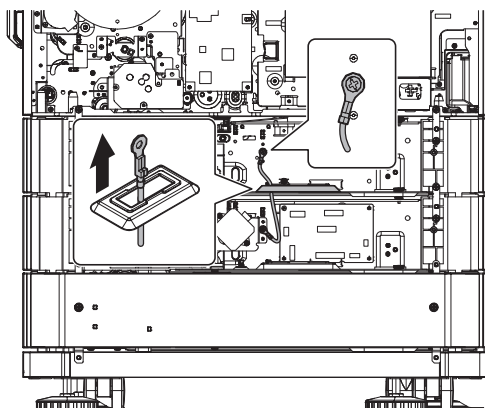
Rear



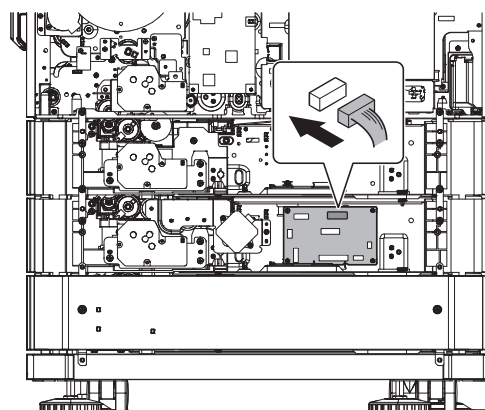
- 5) Cut the area shown in the following figure. (the main unit)



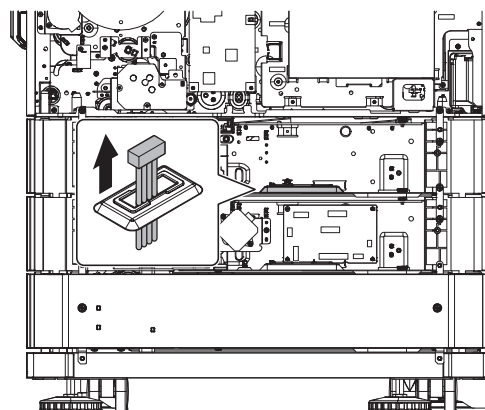
- 6) Pass the round terminal through the hole.
Attach the round terminal with the screw. (Packed items No.5)



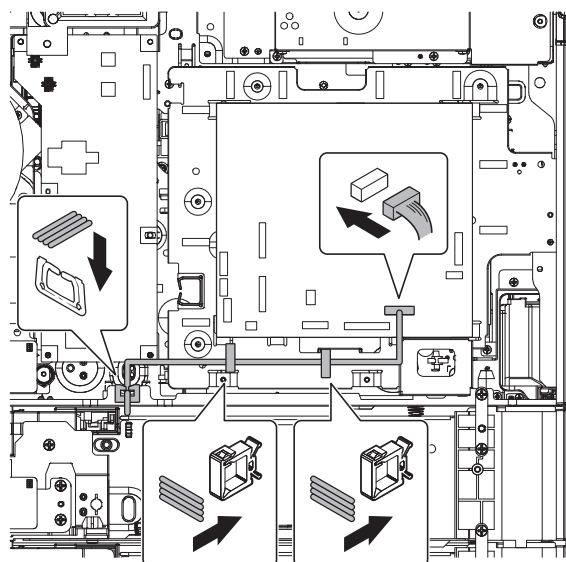
- 7) Connect the harness to the Desk control PWB as shown in the figure.



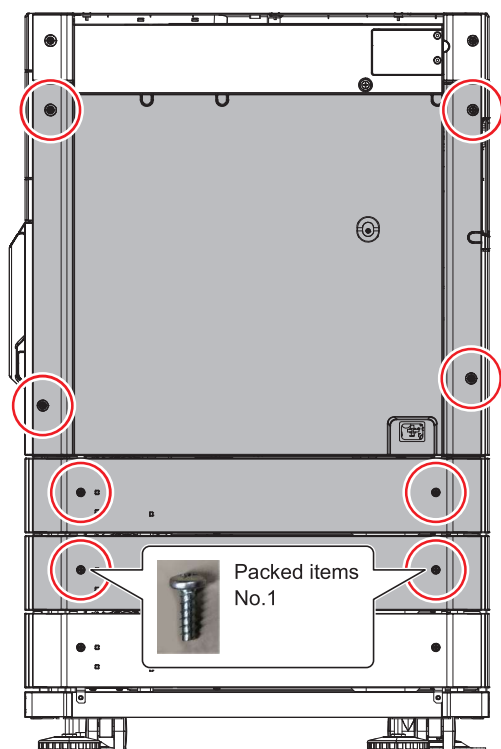
- 8) Pass the harness through the hole.



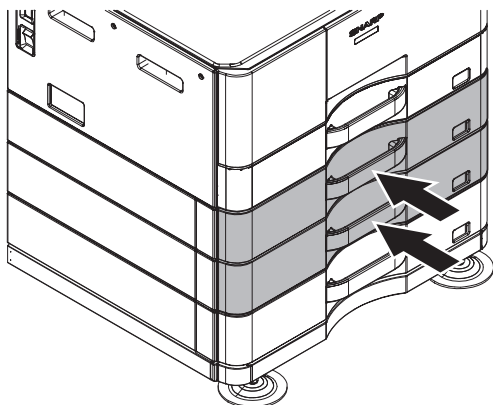
- 9) Connect the harness to the main body PCU PWB and perform wire processing.



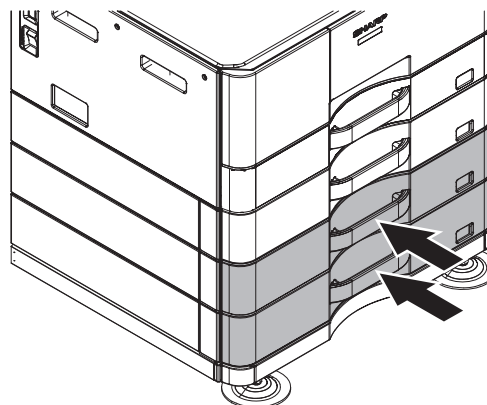
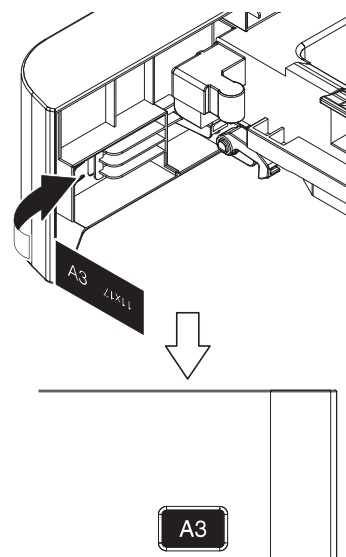
10) Return the rear cover to the main unit and the BP-DE11.



11) Return the tray to the main unit and the BP-DE11.



12) Attach the size display sheet to the tray and return the tray to the BP-DE11.

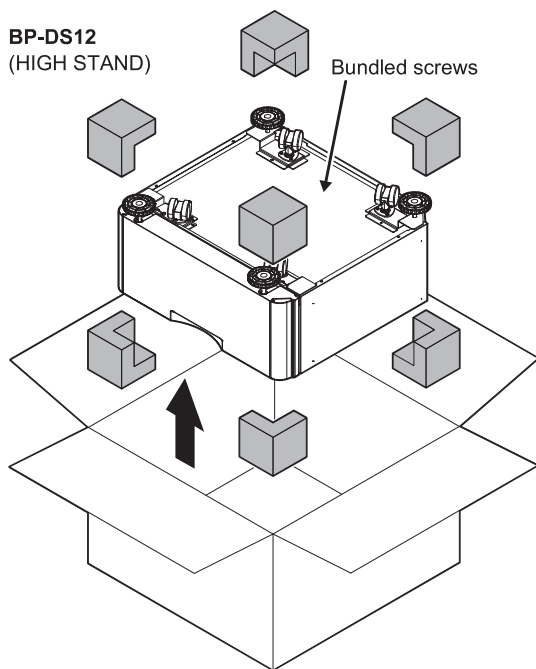
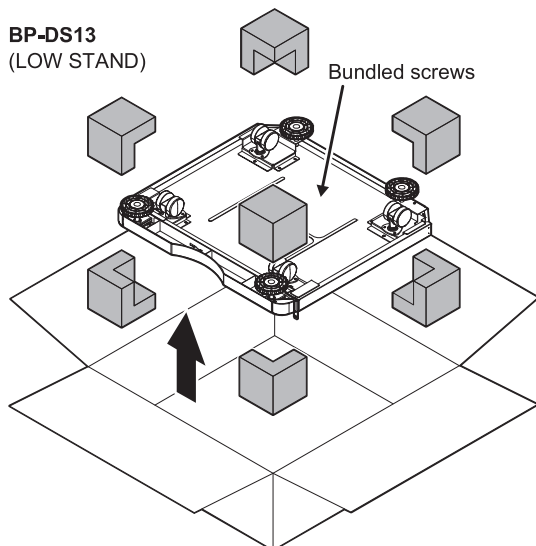


13) After installing the desk, make adjustments referring to [2] BP-30M28/30M31/30M35(MAIN UNIT) 3.B.(5).

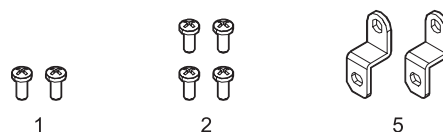
[4] BP-DS12/DS13(HIGH STAND/LOW STAND)

1. Unpacking

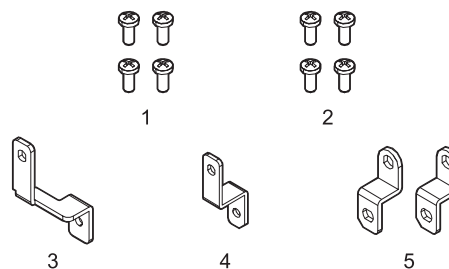
Unpack the package, and check to confirm that all the parts are provided.



BP-DS13



BP-DS12



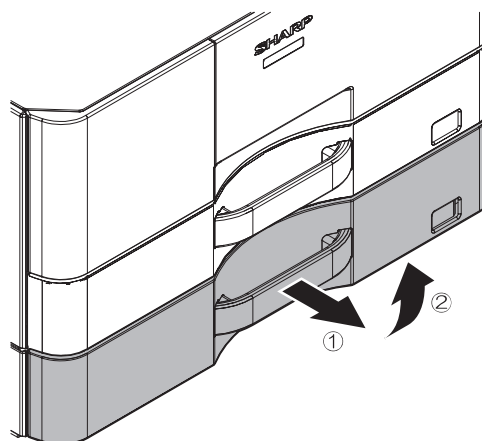
NO.	Name	Quantity	
		BP-DS13	BP-DS12
1	Fixing screws (M4×10 S-type)	2	4
2	Fixing screws (M4×10 P-type)	4	4
3	Fixing plate Front L	No	1
4	Fixing plate Front R	No	1
5	Fixing plate Rear	2	2

2. Installation

Note

The connection with the main unit is the same as below.

- 1) Remove the tray of the main unit.

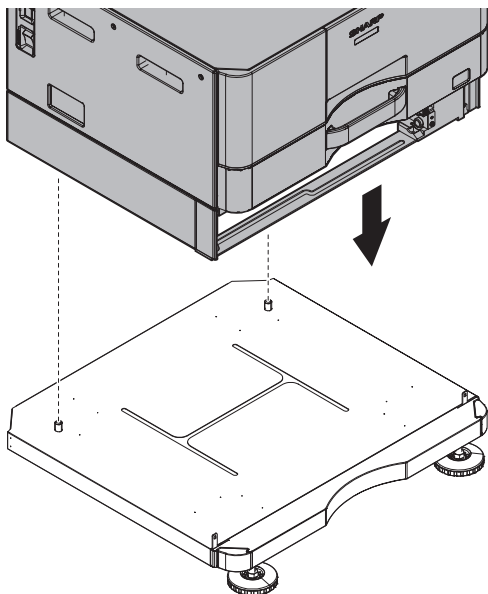


- 2) Remove the screws and the rear cabinet.

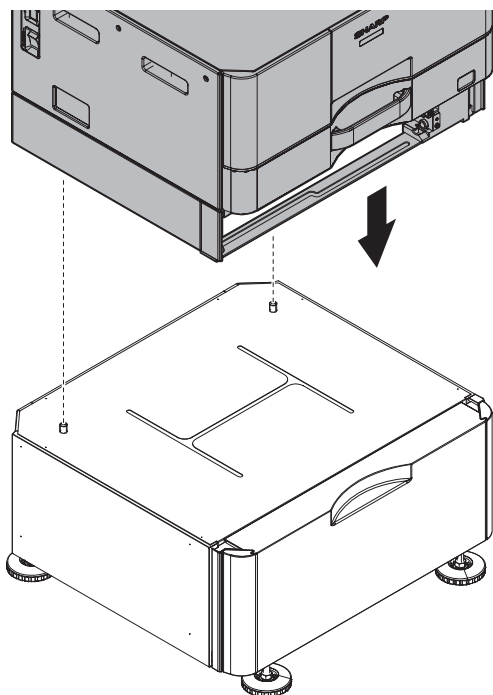


- 3) Put the main unit on the stand.
Fit the positioning pins of the Stand (2 places) with the positioning holes of the main unit.

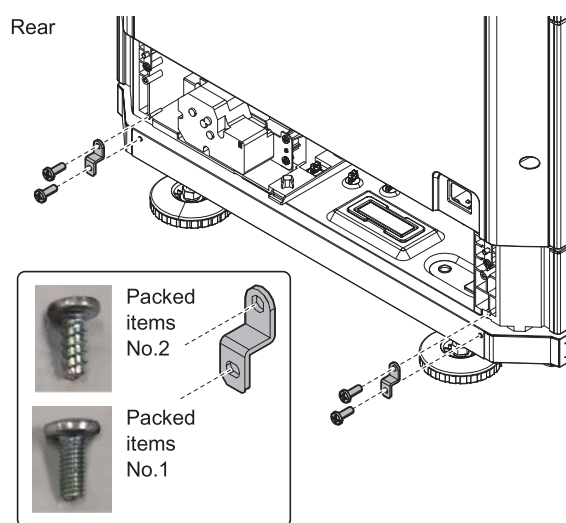
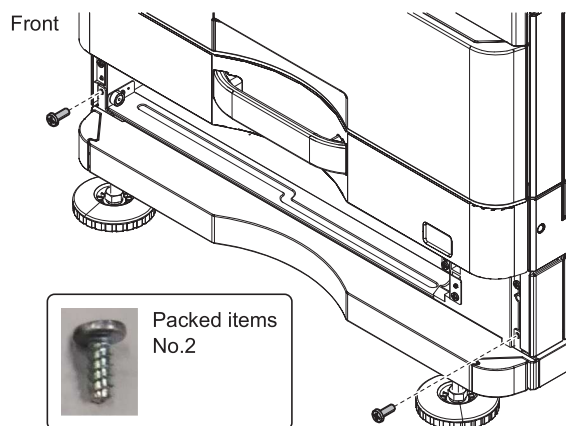
Connect to BP-DS13



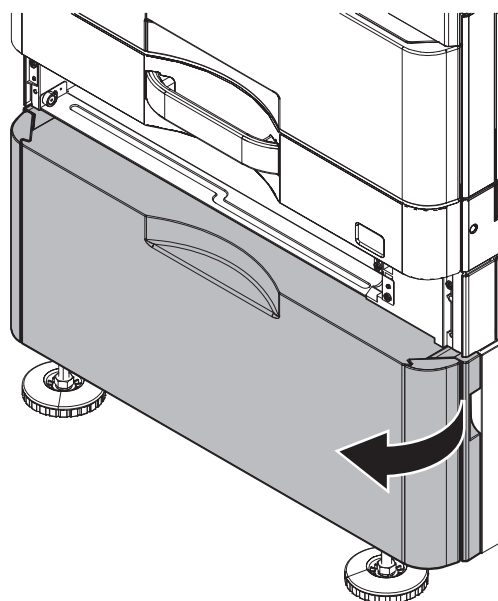
Connect to BP-DS12

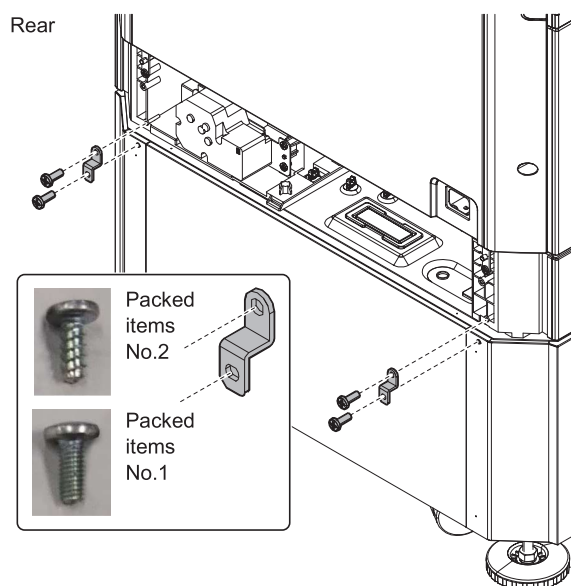
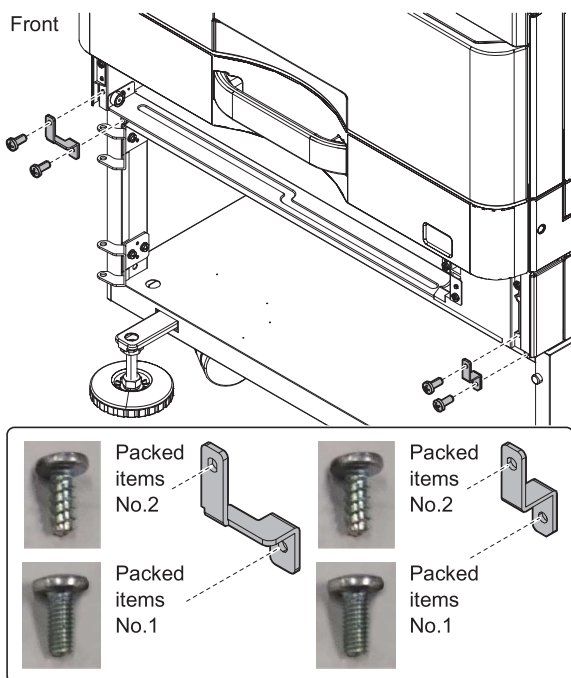


- 4) Fix the stand with the main unit by the fixing screw.
BP-DS13

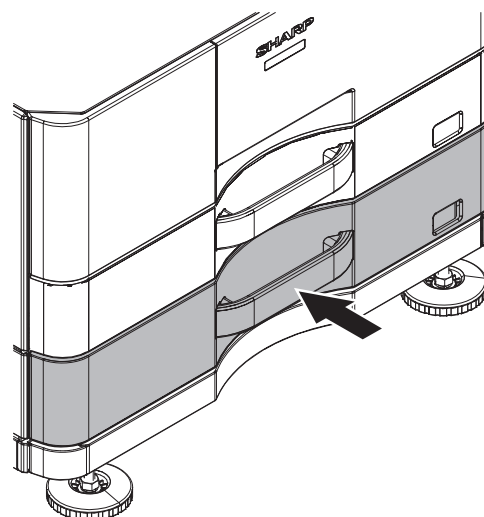


BP-DS12

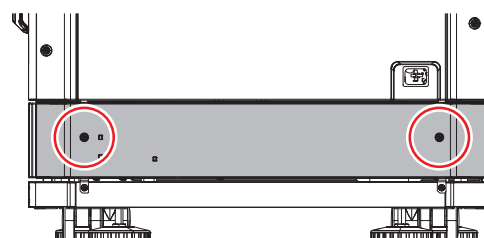




5) Fix the tray of main unit.

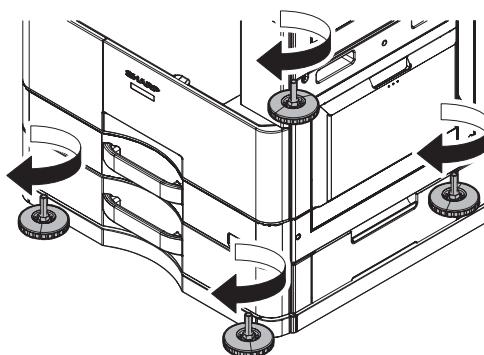


6) Fix the rear cabinet.



7) Rotate the adjusters to fix the machine to the floor surface not to move the machine.

Connect to BP-DS13



Connect to BP-DS12

