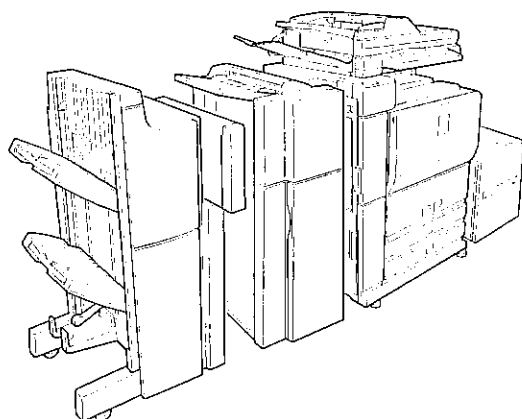


SHARP INSTALLATION MANUAL

CODE : 00ZAR700/I1E



**DIGITAL LASER COPIER/PRINTER
DIGITAL MULTIFUNCTIONAL SYSTEM**

**AR-M550N/M550U
AR-M620N/M620U
MODEL AR-M700N/M700U**

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Parts marked with "▲" are important for maintaining the safety of the machine. Be sure to replace these parts with the replacement parts specified to maintain the safety and performance of the machine.

SHARP CORPORATION

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The contents are subject to change without notice.

[1] AR-M550/M620/M700
UNPACKING AND INSTALLATION

1. Installing (use) conditions

Before installing the machine, check that the following installing (use) conditions are satisfied.

If the installing (use) conditions are not satisfied, the machine may not display full performances, resulting in troubles. It may also cause safety problems. Therefore, be sure to arrange the installing (use) conditions before setting up the machine.

No.	Content
1	Bringing space
2	Installing space
3	Power source (Capacity, fluctuation, safety)
4	Floor strength
5	Direct rays of the sun, dust, temperature, humidity, gases, chemicals

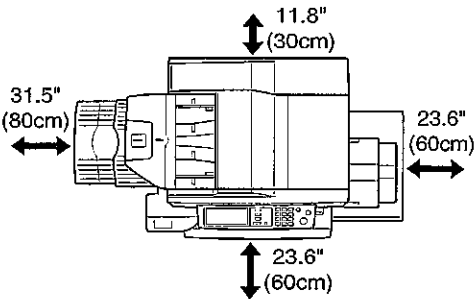
A. Bringing space

For installation of a large size machine, be sure to check that the door size is great enough before bringing in.

B. Installing space

The following space must be provided around the machine in order to assure machine performances and proper operations.

If any option is installed, provide the additional space for installing it. Especially the space at the rear of the machine must be provided sufficiently. If not, the machine cannot exhibit functions against heat and dust, causing some troubles.



C. Power source
(Capacity, voltage, frequency, safety, plug)

If the power specifications are not satisfied, the machine cannot exhibit full performances and may cause safety trouble.

Strictly observe the following specifications.

(1) Power capacity

Check that the following power capacity is satisfied. If not, additionally provide a power source.

Current capacity

- Japan: 20A or more
- 100V: 20A or more
- 200V: 10A or more

(2) Power voltage

Measure the voltage during copying to check that the voltage is in the range of the specified voltage $\pm 10\%$.

If the voltage is outside the specified range, use thicker lead wires to reduce impedance.

(An electrical work is required.)

Use of a step-up transformer is also available. In this case, the capacity must be great enough for the max. power consumption of the machine.

(3) Power frequency, waveform

The frequency must be within the range of the specified frequency $\pm 2\%$. If power waveform is deformed, a trouble may occur.

(4) Safety

Be sure to properly ground the machine.

(5) Power plug

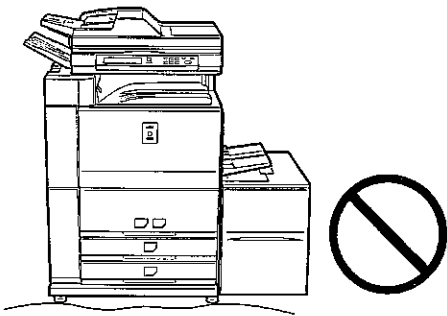
Check the form of the power plug. If the shape does not match, do not use it.

D. Floor strength and level

This machine is considerably heavy and becomes heavier with an option installed.

The floor must be strong enough for assuring safety, and the machine must be installed horizontally.

If not, toner concentration control is not properly performed, resulting in degraded copy quality and distorted images.

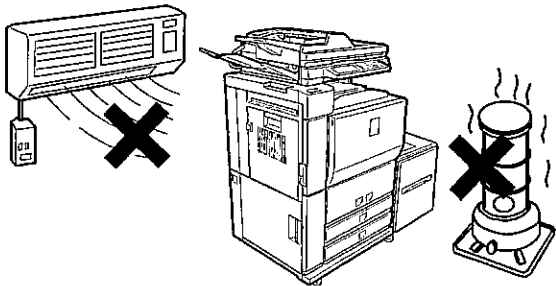


E. Direct rays of the sun, dust, temperature, humidity, gasses, chemicals, vibration

(1) Temperature and humidity

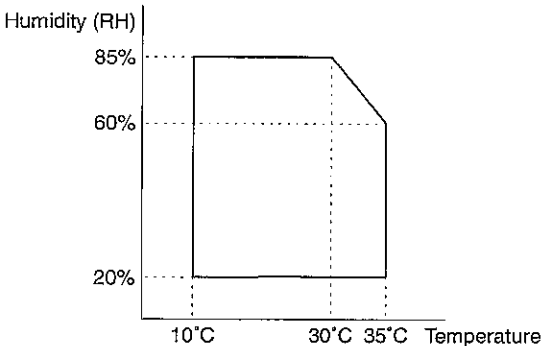
This machine is designed to perform properly under the specified temperature and humidity. If the temperature and humidity exceeds the specified range, the machine may not operate properly and or cause equipment failure.

Especially when the humidity is too high, paper absorbs humidity to cause a paper jam or dirty copy.



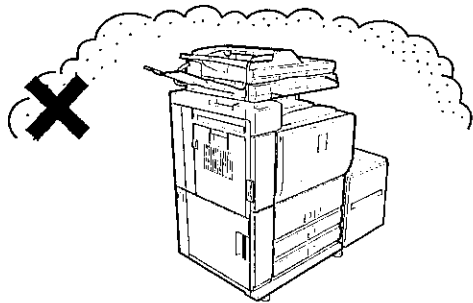
(Do not install the machine near a stove, a humidifier, or an air conditioner.)

Do not install the machine near a heater, a cooler, or a humidifier. Dew may be formed inside the machine to cause a trouble. Use enough care for ventilation.



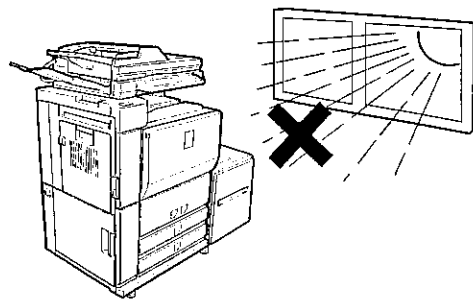
(2) Dust

If dust enters the machine, it may cause dirty copy and a paper jam, resulting in a shortened lifetime.



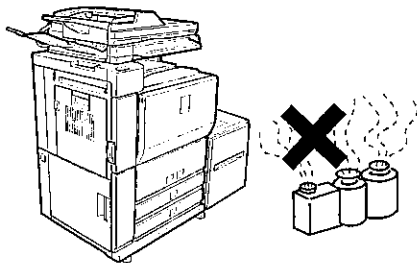
(3) Direct rays of the sun

If the machine is installed under the rays of the sun, the exterior of the machine may be discolored and abnormal copies may be produced.



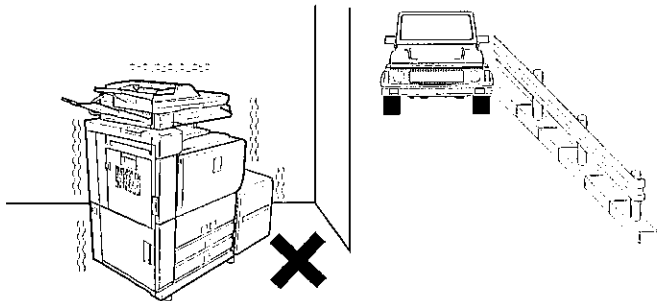
(4) Gases and chemicals

Do not install the machine at a place where there are gases and chemicals. Especially be careful to avoid installation near a diazo-type copier, which produces ammonium gas. Copy quality may be adversely affected and a trouble may be caused.



(5) Vibration

Avoid installation near a machine which produces vibrations. If vibrations are applied to the copier machine, copy images may be deflected and a trouble may be caused.



2. Transit and delivery

No.	Content	Method
1	Implements, facility, and manpower	Use a forklift. (If no forklift is available, manpower of four or more persons is required.)
2	Delivery	Transit must be made in packed condition.

A. Implements, facility, and manpower

It is recommendable to use a forklift for bringing in the machine for safety.

If no forklift is available, manpower of four or more persons is required. The machine is considerably heavy, and requires safety precautions for delivery and installation.

Transit of the machine must be made in packed condition to the installing place.

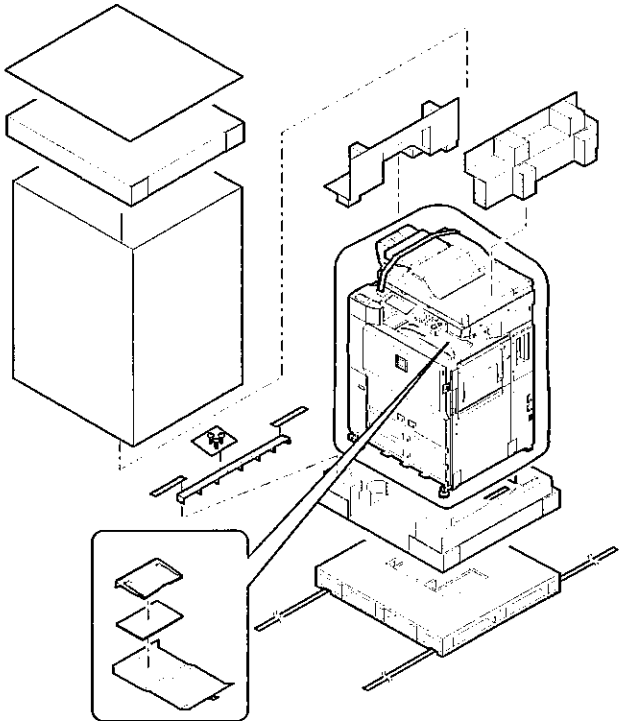
B. Delivery

Remove the packing materials prior to installation in the office environment.

3. Unpacking

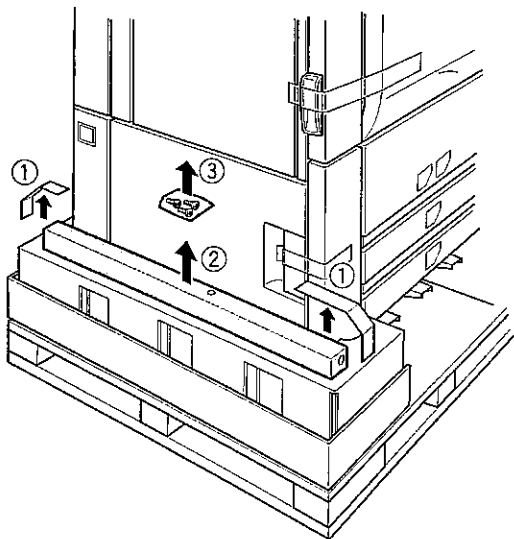
A. Unpacking procedure

- 1) Remove the PP band.
- 2) Remove the top case.
- 3) Remove the internal packing pads and the items packed together with the machine.

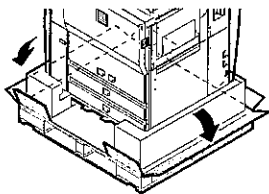


1	PP band	7	Polyethylene bag
2	Top case	8	Bottom case unit
3	Pack case	9	Accessory unit
4	Skid pad	10	Paper exit tray AS
5	Top pad R	11	Operation manual
6	Top pad L		

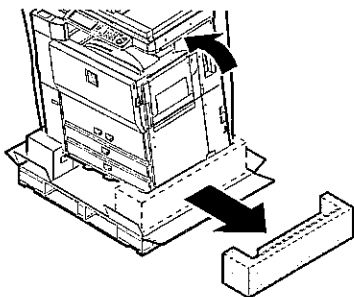
4) Remove the adjuster cover and the screw (in the bag).



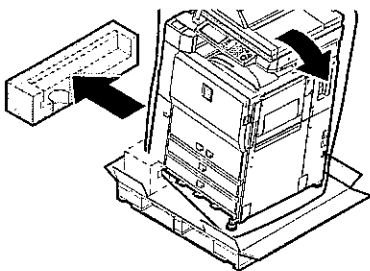
5) Cut the four corners of the bottom case.



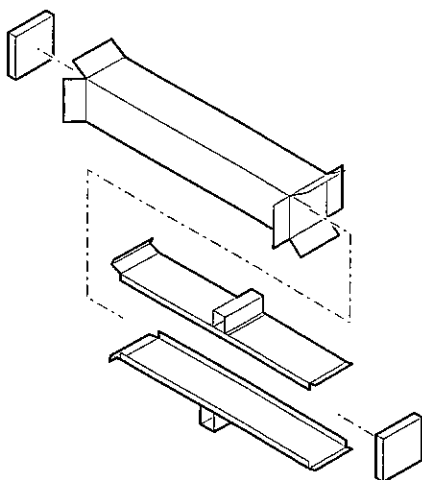
6) Lift the machine slightly, and remove the bottom pad L.



7) Lift the machine slightly, and remove the bottom pad R.



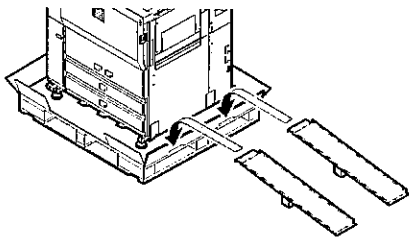
8) Remove the slope.



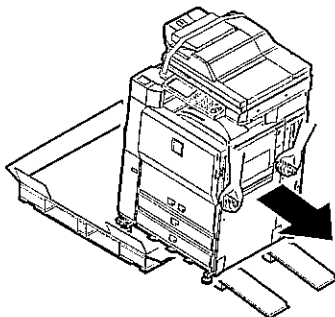
* Slope: Parts

Part name	Part code
Skid slope	DKiT-0367FCZZ

9) Attach the slope to the concave section of the skid.

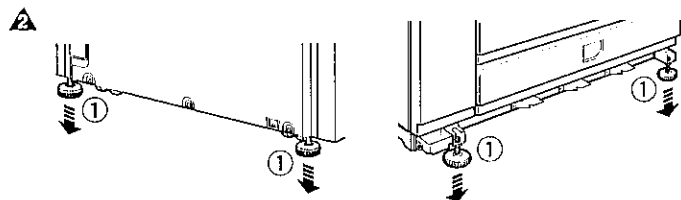


10) Hold the machine grips and push them down in the arrow direction.

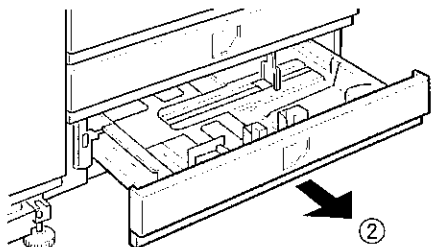


B. Adjuster cover installation

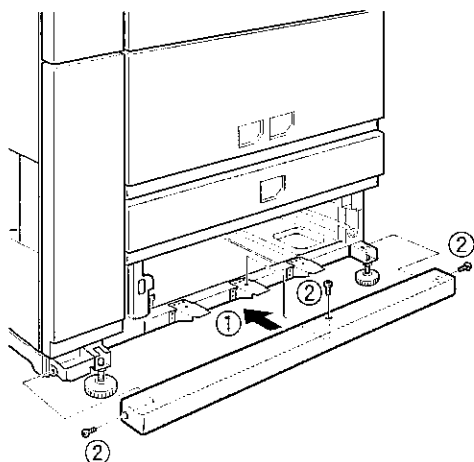
- 1) Move the main unit to the installing position, and turn the adjuster to fix the main unit.



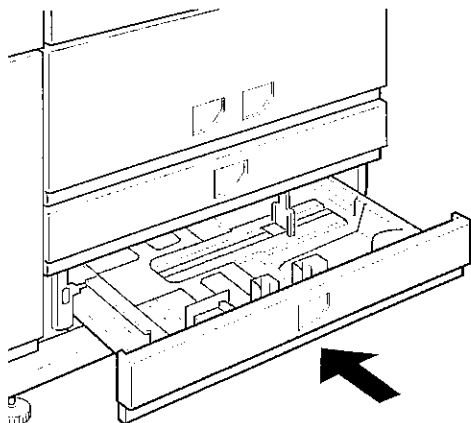
- 2) Remove the bottom tray from the main unit.



- 3) Install the adjuster cover to the main unit.



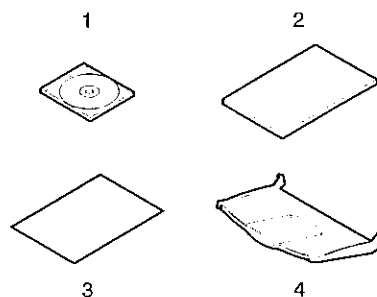
- 4) Insert the bottom tray into the main unit.



Note: This machine includes a hard disk drive, which must be protected against vibrations and shocks.

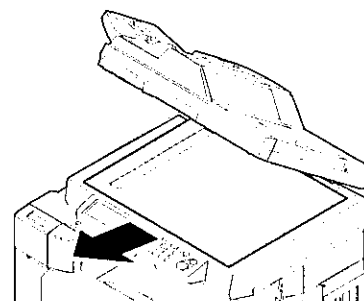
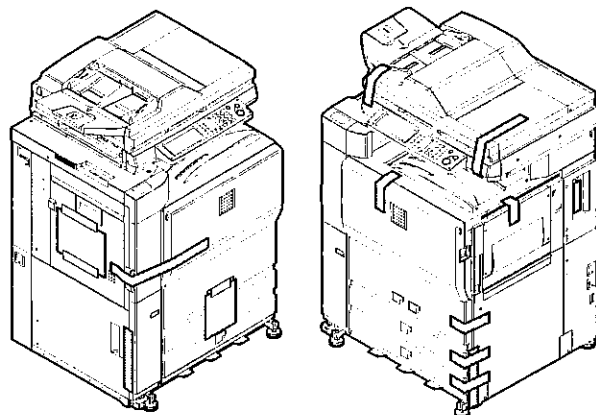
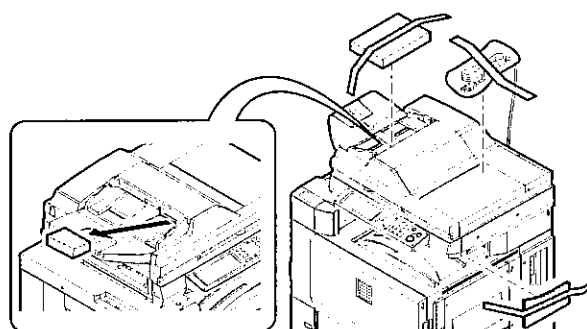
Never move the machine with the power ON.

Packed items



1	Driver (CD-ROM)	x 1
2	Operation manual	x 1
3	Delivery and installation report	x 1
4	Paper exit tray	x 1

C. Remove the fixing tape and the reinforcing material

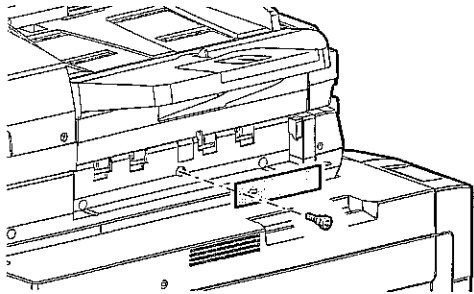


D. Lock release

Lock position	
1	No. 2/3 mirror base lock screw
2	Tray rotation plate fixing material

(1) No. 2/3 mirror base lock release

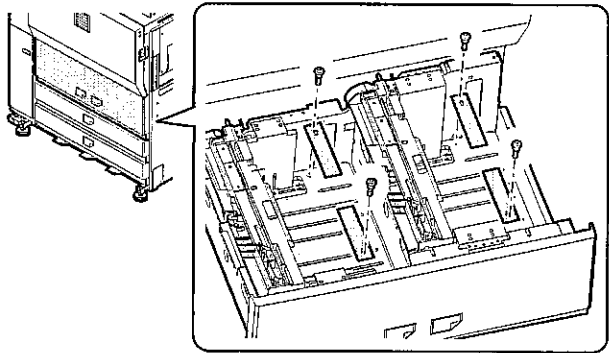
Remove the No. 2/3 mirror base fixing screw and the label of note for unpacking on the left side.



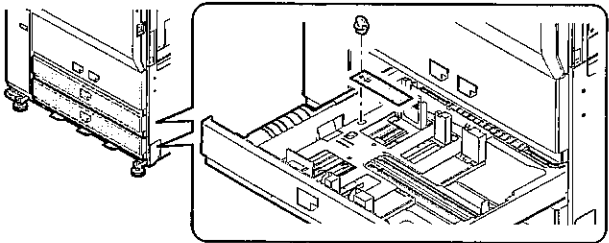
(2) Tray rotation release plate lock release

Remove the paper feed tray rotation plate fixing screw and the label of note for tray.

[Tray 1, Tray 2]

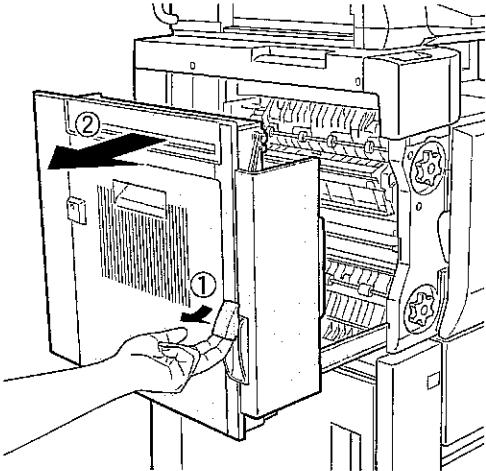


[Tray 3, Tray 4]

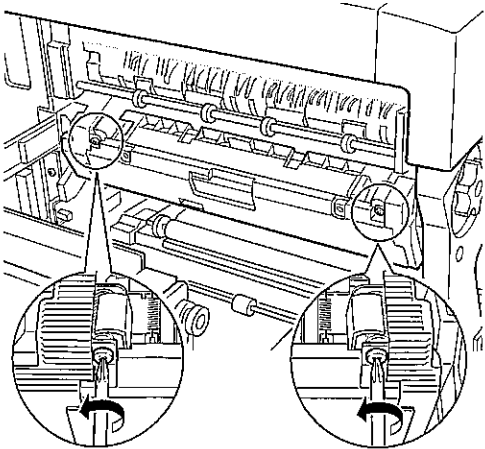


E. Press the fusing section (upper and lower heat rollers) and remove the process separation pawl fixing block.

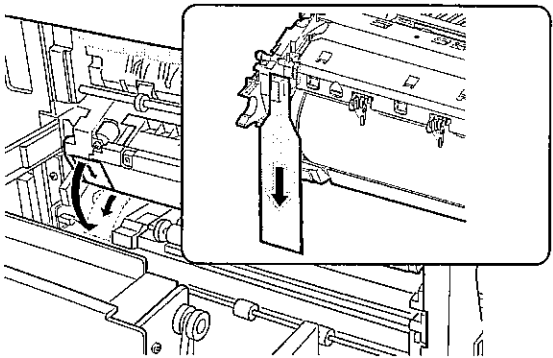
1) Pull the knob on the left door to pull out the left door.



2) Turn the pressing screw in the fusing section as shown in the figure below (fully loosen it) to press the heat roller.



3) Remove the separation pawl fixing block from the process unit.

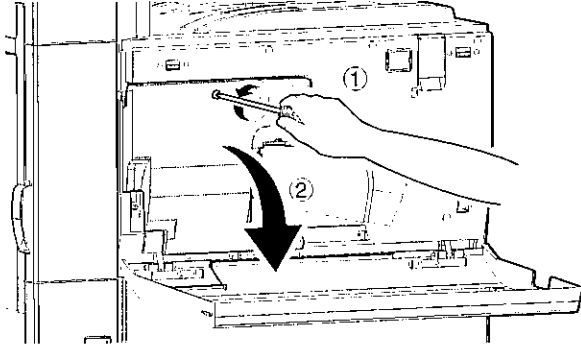


4) Replace the left door.

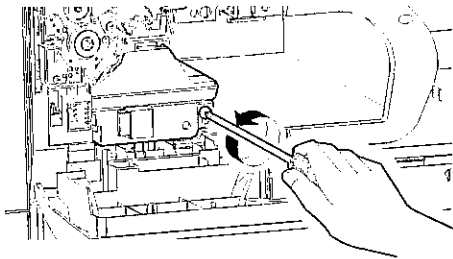
F. Set developer

(1) Supply developer

- 1) Open the front cabinet.
- 2) Loosen the blue screw of the process cover, and tilt down the process cover toward you.

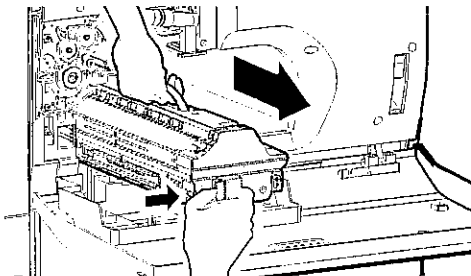


- 3) Loosen the blue screw which is fixing the developing unit.

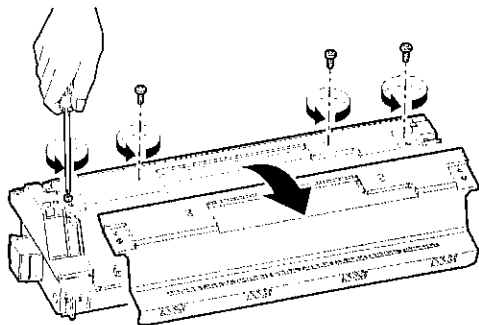


- 4) While pressing the developing unit lock lever, pull out the developing unit.

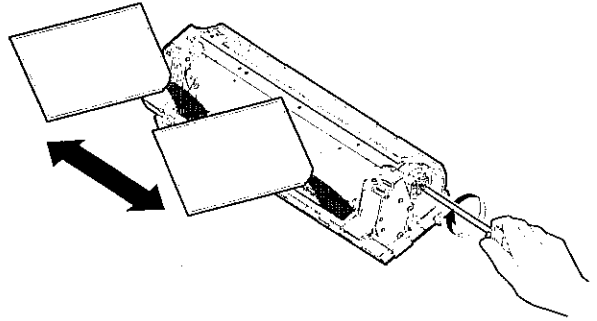
Hold the strap of the developing unit and remove the developing unit.



- 5) Remove the four fixing screws of toner hopper in the developing unit.



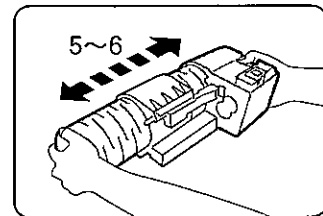
- 6) While supplying developer from the developer supply port of the developing unit, turn the MG gear clockwise with a plus screwdriver to supply all developer to the developing unit.



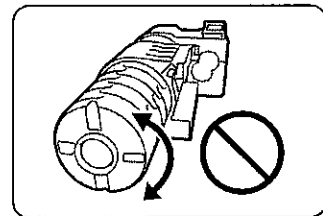
- 7) Install the toner hopper to the developing unit.
- 8) Insert the developing unit to the main unit and fix it with the blue screw.
- 9) Close the process cover and fix it with the blue screw.

(2) Toner set

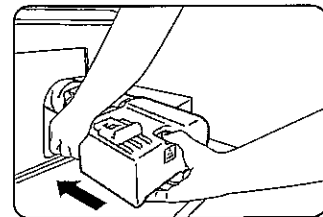
- 1) Remove the toner cartridge from the box, and shake it several times horizontally.



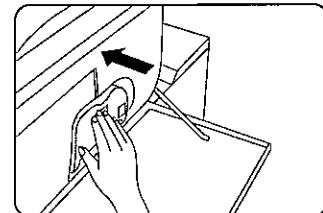
Note: Be sure to shake the toner cartridge horizontally.
Be careful not rotate as shown in the figure below.



- 2) Insert the toner cartridge into the main unit insertion port as shown below. In this case, do not turn the cartridge.



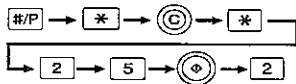
- 3) Insert the toner cartridge until it is locked.



(3) Set the toner density reference control level

Insert the power plug into the power outlet, and turn on the power switch of the main unit.

- 1) With the front cabinet open, enter the SIM 25-2 mode.



- 2) Close the front cabinet.
- 3) Press START key to execute the simulation. Toner is stirred for 3 minutes, and sampling of the toner density control sensor value is repeated 16 times. The average level of the sensor detection level is set (stored) as the reference toner density control value.

Note: The 70-sheet machine (AR-M700N/U) performs resetting after normal completion of toner concentration control level setting operation (3 min) by SIM25-2, and supplies toner during warming up when the fuser heater lamp is turned ON in order to increase the toner concentration level by 0.5%.

When there is some toner in the intermediate hopper, the above toner supply operation is completed in about 90 sec.

Since the warming-up time of fusing is within 2 min, the machine goes to the print ready state in 1 min 30 sec or 2 min.

When, however, there is no toner in the intermediate hopper (on installation, etc.), toner is supplied from the toner bottle to the developing unit and it takes more time than the above to reach the specified toner concentration level, that is, it takes about 200 sec for the machine to go to the print ready state.

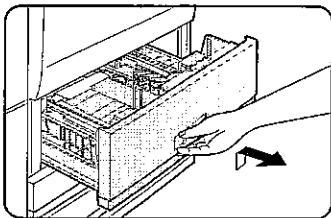
Toner supply operation to increase the toner concentration level by 0.5% after completion of SIM25-2 is performed only in the 70-sheet machine, and not performed in the 55/62-sheet machines.

G. Paper supply

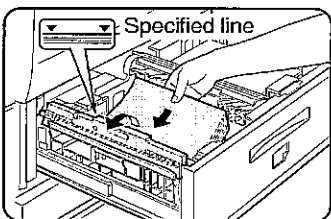
(1) Supply to tray 1 and tray 2

The tray 1 is for A4 or 8-1/2" x 11" paper, and the tray 2 is for A4 or B5 or 8-1/2" x 11" paper. (The factory setting of the tray 2 is B5.)

- 1) Pull out the tray 1 and the tray 2 until they stop.

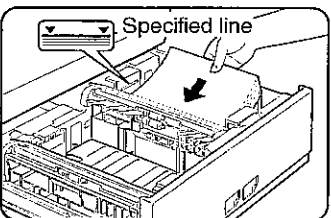


- 2) Lift the paper guide, and supply paper to the tray 1.



After supplying paper, be sure to return the paper guide to the original position.

- 3) Supply paper to the tray 2 similarly.



Note: Supply paper so that the paper quantity level does not exceed the specified line.

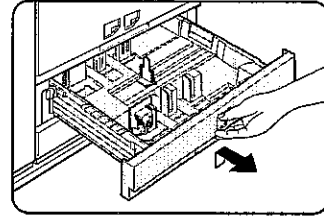
- 4) Slowly insert the tray 1 and the tray 2.

(2) Supply paper to the tray 3 and the tray 4

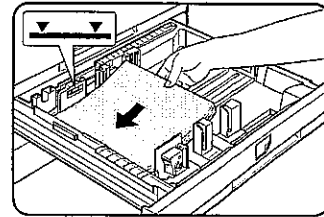
The tray 3 is for 11" x 17" to 5-1/2" x 8-1/2"R size (A3 size to A5R) and special paper, and the tray 4 is for 11" x 17" to 5-1/2" x 8-1/2"R size (A3 size to A5R) paper.

(For the kinds of paper and special paper, refer to the specifications of this manual.)

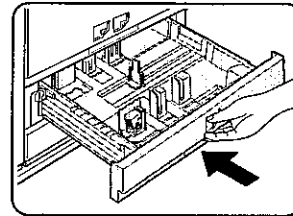
- 1) Pull out the tray 3 and the tray 4 until they stop.



- 2) Supply paper so that the specified line is not exceeded.



- 3) Slowly insert the tray 3 or the tray 4.

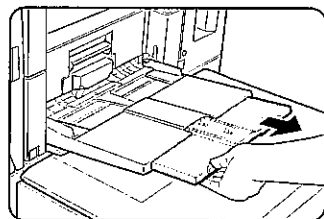
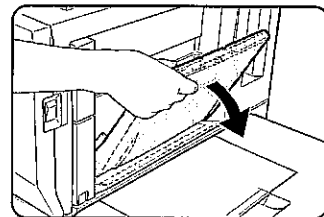


(3) Supply paper to the manual paper feed tray.

The manual paper feed tray is for 11" x 17" to 8-1/2" x 11"R size (A3 size to A5R) and special paper.

(For the kinds of paper and special paper, refer to the specifications of this manual.)

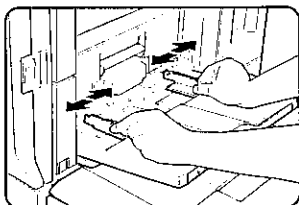
- 1) Open the manual paper feed tray.



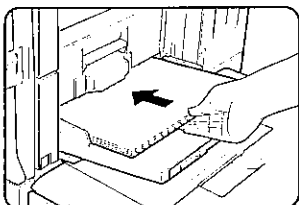
Note: When setting 11" x 17", 8-1/2" x 14", 8-1/2" x 13", or 8-1/2" x 11"R (A3, B4, or A4R) paper, be sure to pull out the auxiliary tray.

If it is not pulled out completely, the size of paper set on the manual paper feed tray is not displayed properly.

- 2) Set the manual paper feed guide to the set paper size.



- 3) Set the paper with print face up and insert until it makes contact with the manual paper feed guide.

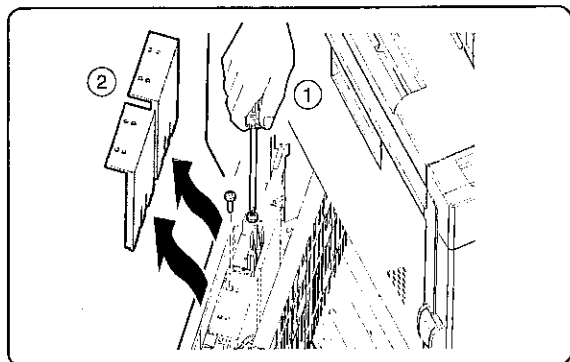


Note: If there is any gap between paper and the manual paper feed guide, skew feed or wrinkles may be caused. Be sure to set paper so that there is no gap between paper and the guide.

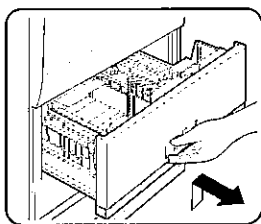
(4) Tray 2 paper size change

When changing the paper size of the tray 2 from B5 to A4, replace the guide plate with the A4-exclusive regulation plate.

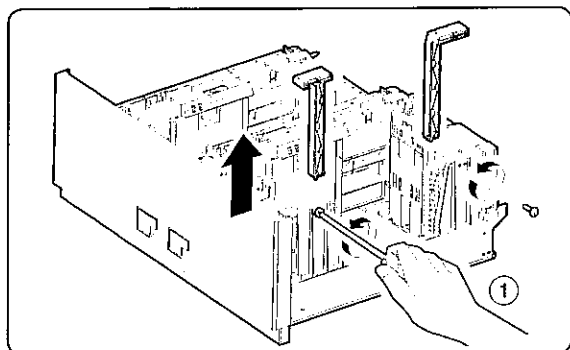
- 1) Remove the A4-exclusive regulation plate from the storage position left inside of the machine. (It is fixed with a fixing screw under the tab paper guide.)



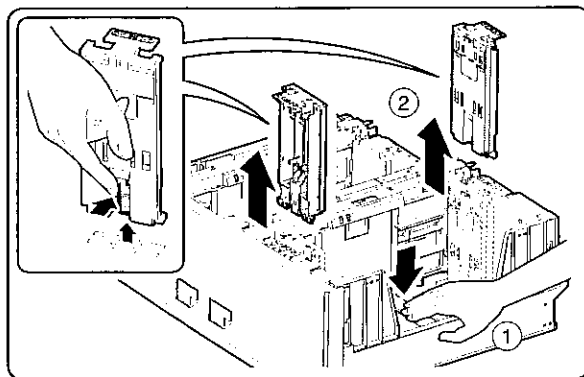
- 2) Pull out the tray 1 and the tray 2.



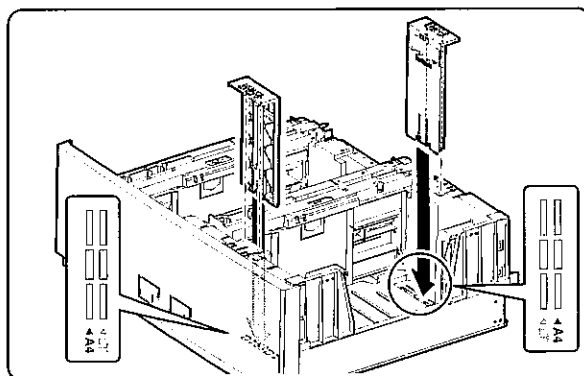
- 3) Remove the B5 size regulation plate and the rear edge regulation plates F and R from the tray 2.



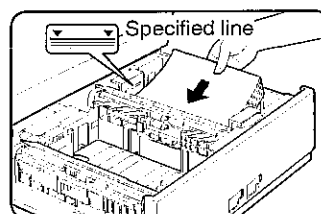
When removing the B5 size regulation plate, slightly press the paper feed base plate downward and press the hook under the regulation plate to remove.



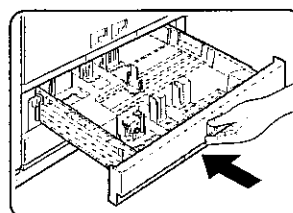
- 4) Install the A4 size regulation plate.



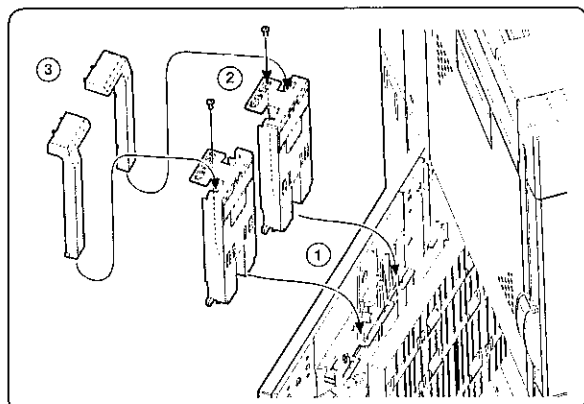
- 5) Supply paper to the tray 2.



- 6) Push the tray 1 and the tray 2.

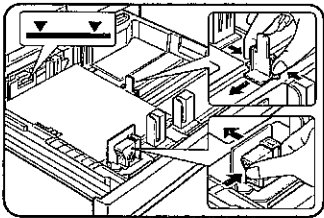


Note: Store the B5 size regulation plate and the rear edge regulation plates F and R for future use.



(5) Tray 3 or tray 4 paper size change

- 1) Pull out the tray 3 or the tray 4.
- 2) Hold and slide the fixing knob (slide system) of the partition plates A and B to fit with the size of paper to be supplied.



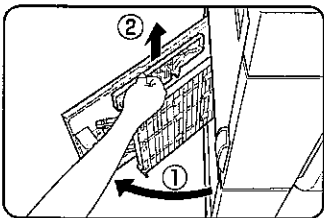
- 3) Supply paper into the tray.
- 4) Push the tray.

Note: Note that a certain special paper cannot be used for the tray 4.
To use the special paper, use the tray 3.

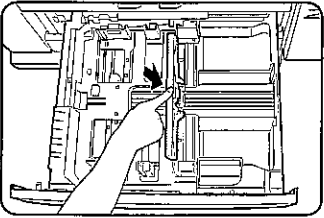
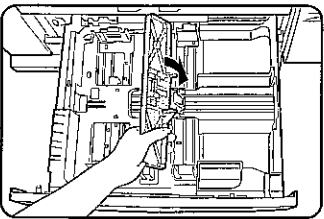
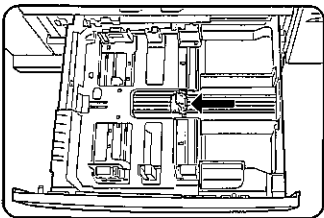
(6) Tab paper setting

To use tab paper, install the exclusive-use guide to the tray 3.
Note that the tray 4 cannot be used.

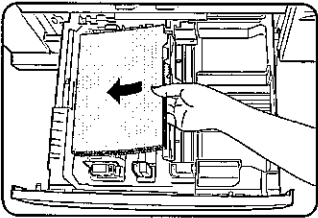
- 1) Remove the exclusive-use guide from the storage position left inside of the machine.



- 2) Pull out the tray 3.
- 3) Slide the partition plate to tab paper as shown in the figure below and install it so that it covers the partition plate.



- 4) Supply tab paper with the print face up into the tray 3.

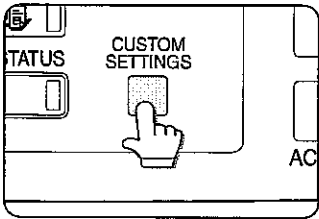


- 5) Push the tray 3.

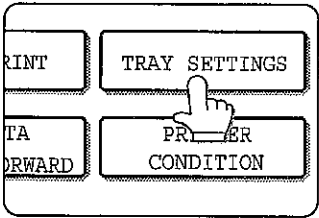
(7) Setting the paper type and paper size

Follow these steps to change the paper type setting when the paper type has been changed in a paper tray. For the paper types that can be used in each tray.

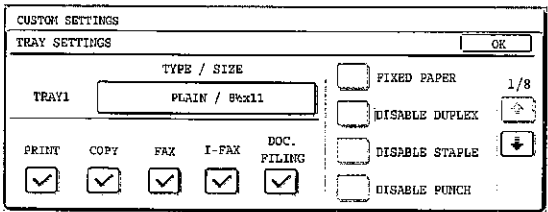
- 1) Press the [CUSTOM SETTINGS] key.
The custom setting menu screen will appear.



- 2) Touch the [TRAY SETTINGS] key.
The paper tray selection screen will appear.



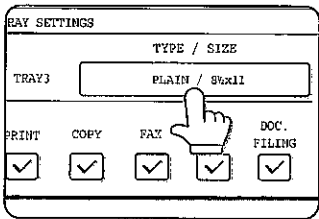
- 3) Display the setting screen of the desired paper tray.



Touch the key or key to display the setting screen of the desired paper tray.

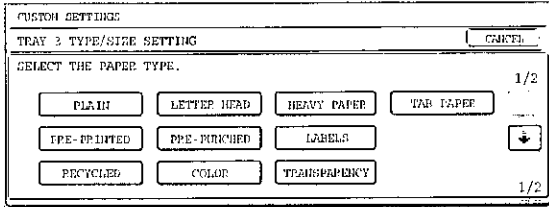
Note: To automatically switch to a tray with the same size and type of paper (if there is one) in the event that the paper tray runs out of paper, display the last screen with the key and select [AUTO TRAY SWITCHING].

- 4) Touch the [TYPE / SIZE] key.



5) Select the type of paper that was loaded in the tray.

Example: The paper type of tray 3 is selected.



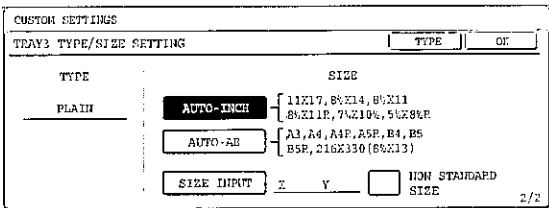
Touch the desired paper type to select it. The paper size setting screen will appear.

Notes:

- Tabbed paper can only be used in tray 3 and the bypass tray.
- Label sheet, OHP: Tray 1, 2, 4, and 5 cannot be used.
- Heavy paper: Tray 1, 2, and 5 cannot be used.

6) Select the size of paper that was loaded in the tray.

Touch the appropriate keys (checkboxes).



[AUTO-INCH] key: Select when you have loaded an inch-based size of paper.

[AUTO-AB] key: Select when you have loaded an AB size of paper.

[SIZE INPUT] key: Select to directly enter a paper size.

[NON STANDARD SIZE] checkbox: Select when you have loaded a non-standard size of paper.

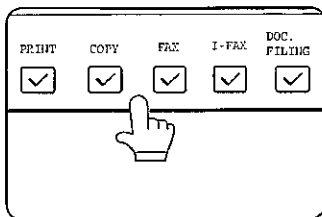
Note: Sizes that can be selected vary depending on the selected paper type.

7) Touch the [OK] key in the size setting screen.

You will return to the tray setting screen of step 3.

8) Select output functions that can be used with the selected tray.

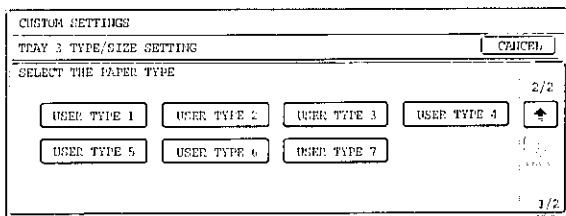
Touch the checkboxes under the desired items to select them.



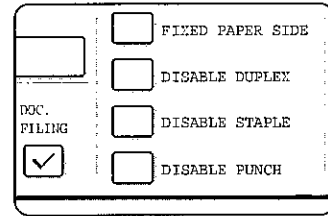
Note: When the inserter (option) is selected, printing of faxes and Internet faxes is not possible.

User type

Select a "User type" when the name of the paper type does not appear in the selections or when you wish to select the tray attributes yourself. Touch the [4] key in step 5 on the previous page to display the user type selection screen and then select a user type.



9) Set the attributes of the paper tray only if you have selected a user type. (Touch the checkboxes to the left of the items to select them.)



"FIXED PAPER SIDE":

Select when paper is to be loaded print side down in the tray.

Make sure a checkmark does not appear when paper is to be loaded print side up.

- If the two-sided function is prohibited in "DISABLING OF DUPLEX" in the key operator programs, do not use this setting.

"DISABLE DUPLEX":

Prohibits two-sided printing.

Enable when the back side of the paper cannot be printed on.

"DISABLE STAPLE":

Prohibits stapling. Enable when using special papers such as transparency film and label sheets.

"DISABLE PUNCH":

Prohibits punching. Enable when using special papers such as transparency film and label sheets.

Notes:

- Paper tray attributes cannot be set when a user type is not selected.
- Tray attributes depend on the selected paper.
- "FIXED PAPER SIDE" and "DISABLE DUPLEX" cannot be simultaneously enabled.

10) Configure paper settings for each tray and then touch the [OK] key to exit.

Note: The size and type of paper loaded in the bypass tray can also be set from the paper setting screen. Touch the [PAPER SELECT] key in the main screen to display the paper selection screen, and then touch the [PAPER SELECT] key of the bypass tray and go to step 5.

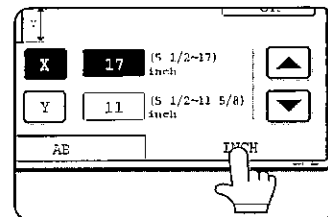
(8) Setting the paper size when a special size is loaded

Note: Special sizes of paper cannot be loaded in trays 1, 2, 4 and 5.

[Trays 3 and the bypass tray]

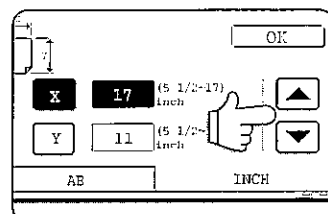
1) Perform steps 1 through 5 of "Setting the paper type and paper size".

2) Touch the [SIZE INPUT] key and then touch the [INCH] tab. (The size entry palette appears.)

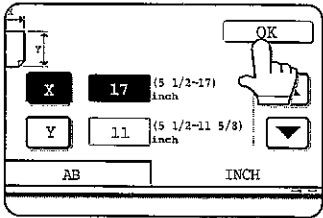


3) Touch the [X] key or the [Y] key to enter the X (width) and Y (length) dimensions of the paper.

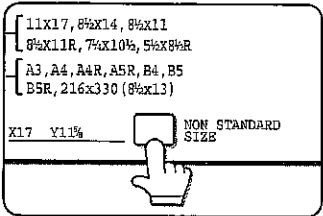
X (width) is initially selected. To enter Y (length), touch the [Y] key and then enter the length.



- 4) Touch the [OK] key. (You will return to the size setting screen of step 2.)



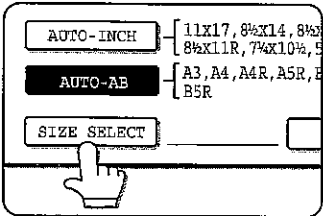
- 5) If the paper is a non-standard size, select the [NON STANDARD SIZE] checkbox.



- 6) Perform steps 7 through 10 of "Setting the paper type and paper size".

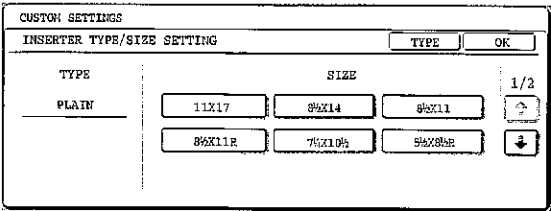
[Inserter (option)]

- 1) Perform steps 1 through 5 of "Setting the paper type and paper size".
2) Touch the [SIZE SELECT] key. (The size selection screen appears.)



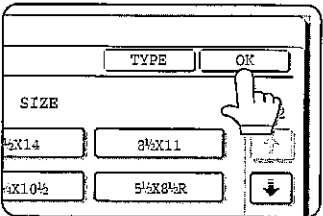
Note: When tabbed paper is selected, the [NON STANDARD SIZE] checkbox of the [SIZE SELECT] key cannot be selected.

- 3) Select the desired paper size.



There are separate screens for inch-based paper selection and AB paper selection. Touch the [↑] key or the [↓] key to switch between the screens.

- 4) Touch the [OK] key. (You will return to the size setting screen of step 2.)

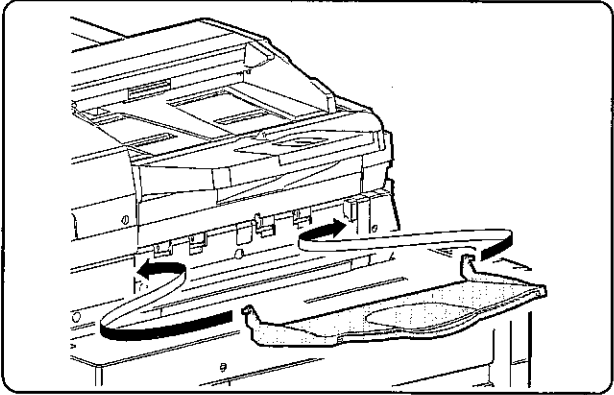


- 5) Perform steps 7 through 10 of "Setting the paper type and paper size".

H. The other parts setting

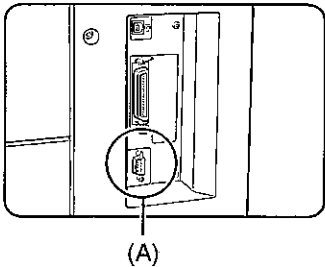
(1) Document exit tray installation

Install the document exit tray to the scanner unit as shown in the figure below.



(2) Other notes

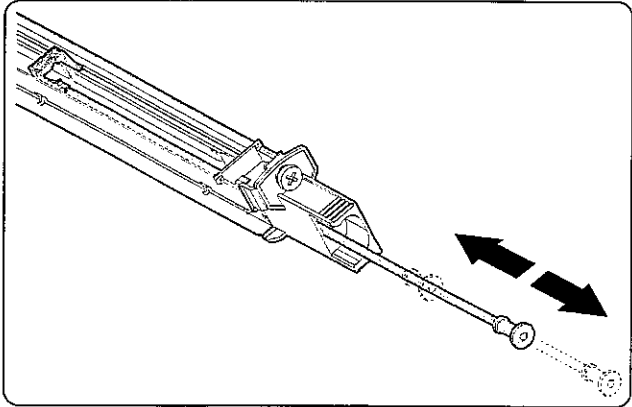
Check to insure that the cable connected to the service terminal (A in the figure below) is 3m or less.



4. Cleaning

A. Main charger

- 1) Reciprocate the MC cleaner shaft back and forth to clean the electrode tip.



5. Image quality check

Check the following contents. For adjustment and check procedures, refer to the chapter of adjustments.

- A. Focus (Resolution)
- B. Copy image off-center
- C. Image loss, void area

6. Specifications setting

Use SIM 26 to set the customer's desired specifications.

Sim No.		Content
26	2	Used to set the paper size of the tray 2 and the large capacity tray. (When the paper size is changed, this simulation must be used to change the paper size by software.)
	5	A3 paper 1 count/2 count setting Used to set the count mode of the total counter, the developer counter, and the maintenance counter.
	6	Specifications depending on the destination
	18	Used to set YES/NO of toner save operation. (This function is valid only in Japan and UK versions.)
	35	Used to set whether the trouble history is displayed as one time trouble or the number of times of trouble.

7. Recording of setting and adjustment data

Use SIM 22-6 to print and keep the various setting and adjustment data (list).

When a memory trouble occurs, or when the PCU PWB or the ICU PWB is replaced, if the above information is not available, all the adjustment must be performed from the beginning again.

If the above information is available, however, directly enter the setting and adjustment values for efficient servicing.

8. Preparation for transit

When moving the copier, turn off the power and perform the following works.

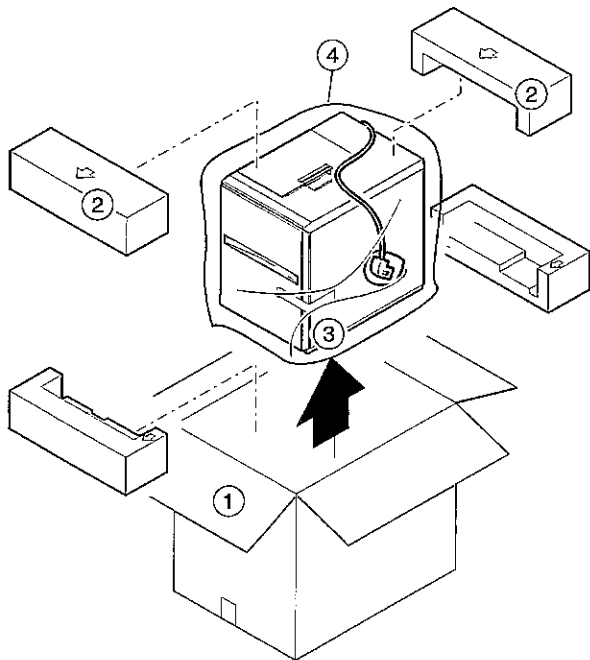
- 1) Remove the paper from the paper tray.
- 2) Remove the developing unit from the main unit.
- 3) Lock the position which was released at installation (see the page 1-5).
- 4) Remove the adjuster cover, and raise the adjuster (see the page 1-5).

Note: Since the main unit includes the hard disk drive, be careful not to apply vibrations and shocks during transit.

[2] AR-LC6 UNPACKING AND INSTALLATION

1. Unpacking

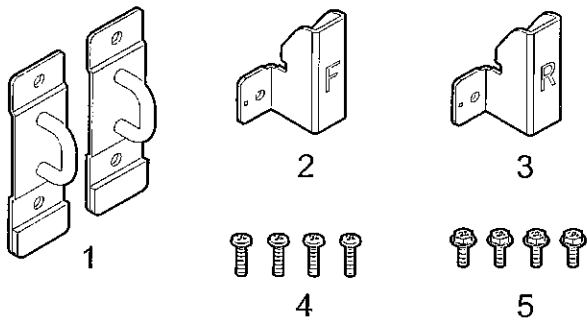
(Removal of the main unit)



2. Installation

<Before installation>

- Packaged parts check
Check to insure that all the following parts are packaged.
- Check that the printer is in stand-by state.
Check that the DATA indicator on the operation panel is neither lit nor blinking.

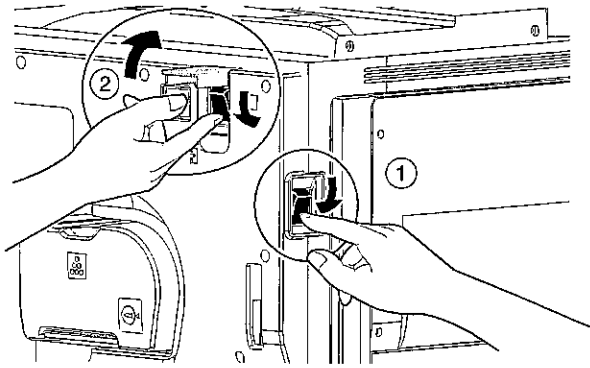


Parts included

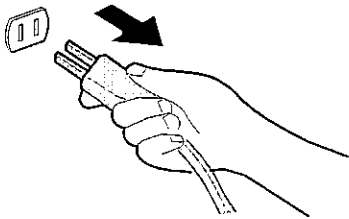
1	Upper mounting plate	2pcs.
2	Lower front connecting plate	1pc.
3	Lower rear connecting plate	1pc.
4	Fixing screw A (M4 x 16 small screw bind uniqllo)	4pcs.
5	Fixing screw B (Hex washer S tight M4 x 12)	4pcs.

A. Turn off the power of the main unit.

- 1) Turn OFF the power switch on the right side of the main unit.
- 2) Open the front cabinet, and turn OFF the main power switch.

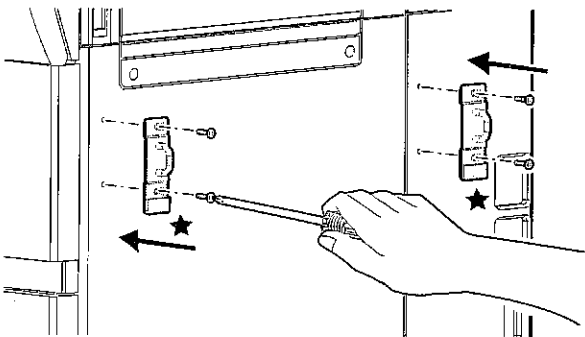


- 3) Disconnect the power plug from the power outlet.



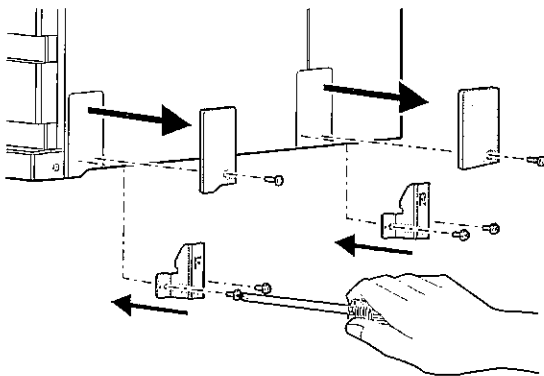
B. Attach the upper mounting plates and the lower front/rear connecting plates.

- 1) Attach the two upper mounting plates with the rubber portion (★) down to the right side of the main unit using screws A (two for each).

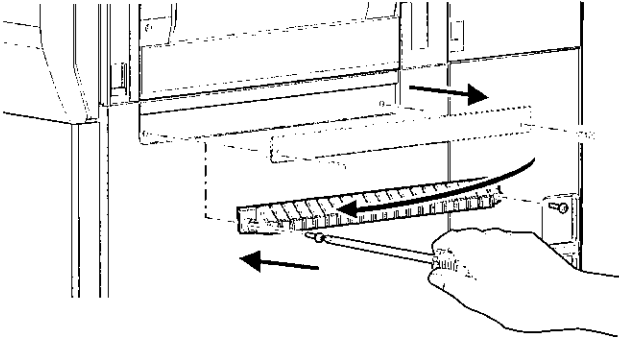


- 2) Remove the fixing screw of the front/rear cover on the lower right side of the main unit. Attach the lower front side (engraved mark F) of the connecting plate to the lower front side of the main unit with two fixing screws B.

Attach the lower rear side (engraved mark R) of the connecting plate to the lower rear side of the main unit with two fixing screws B.

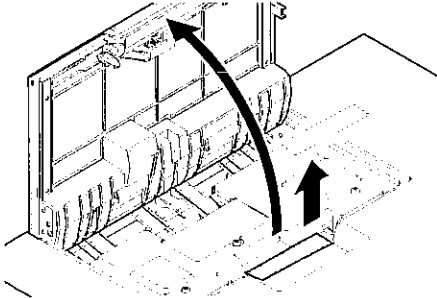
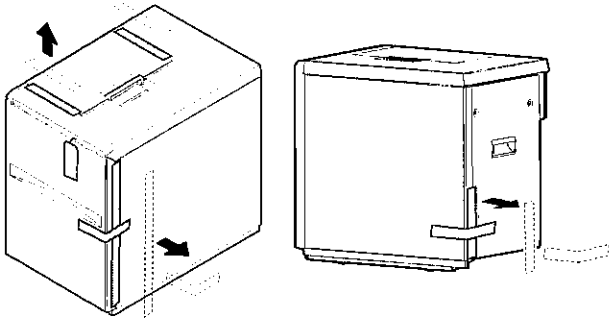


- 3) Remove the fixing screws (2 pcs.) of the machine entry port, and remove the entry port cover.
- 4) Attach the entry port cover reversely to the machine and fix it with the two fixing screws which was removed in procedure 3).

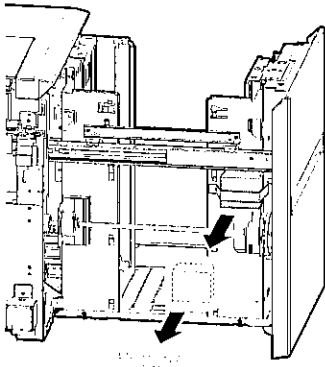


C. Fixing material and packaged part removal

- 1) Remove the fixing material from the large capacity paper feed tray.

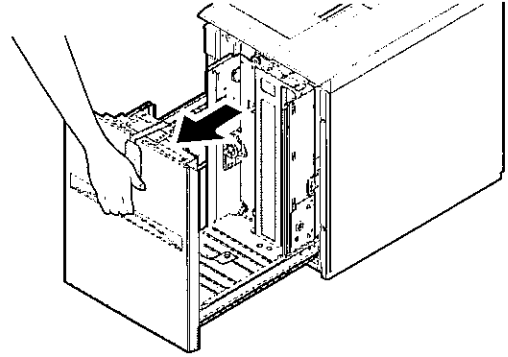


- 2) Remove the fixing material from the packaged part, and remove the packaged part.

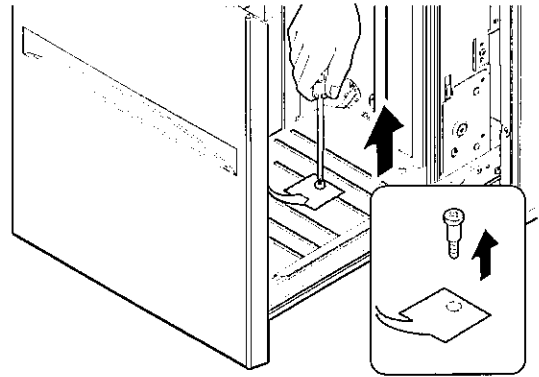


D. Remove the paper feed base screw of the large capacity tray.

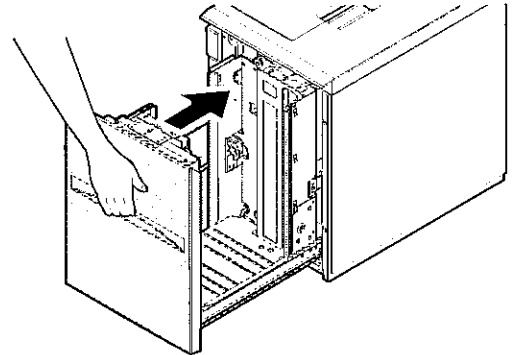
- 1) Slowly pull out the paper feed base tray until it stops.



- 2) Remove the paper feed base fixing screw (1 pc.) of the large capacity tray.

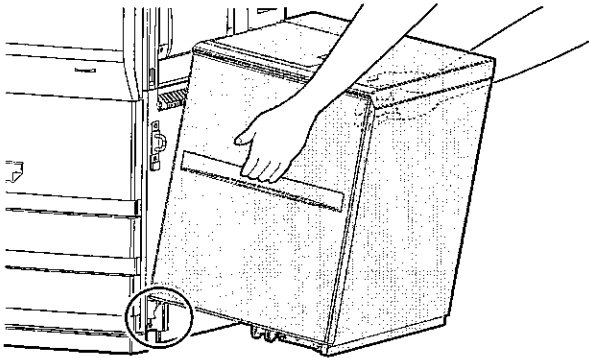


- 3) Push the large capacity tray slowly into the original position.

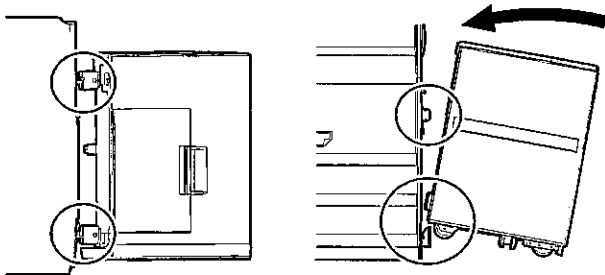


E. Attach the large capacity tray to the main unit.

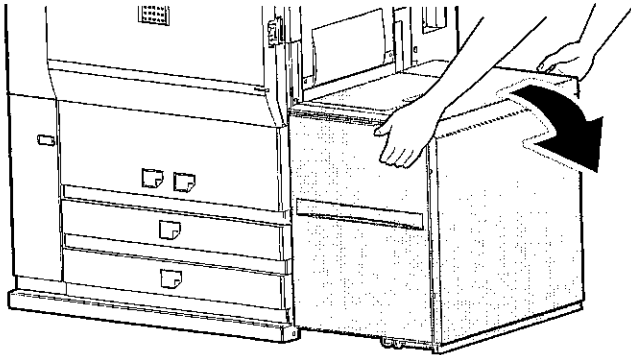
- 1) Hold the grips of the front and the rear cabinets with both hands, and lift the left side.



- 2) Hang the metal fixture of the large capacity tray on the lower front/rear side of the connecting plate on the main unit side. Push the large capacity tray onto the main unit and attach it.



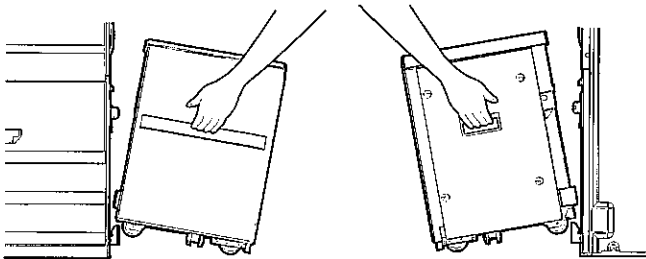
At that time, check that the large capacity tray is locked to the main unit.



- * If lock is incomplete, when the power switch is turned on, the message, "Check installation of tray 5" is displayed on the operation panel.
- * Push the large capacity tray onto the machine, and lock it securely.

[Note]

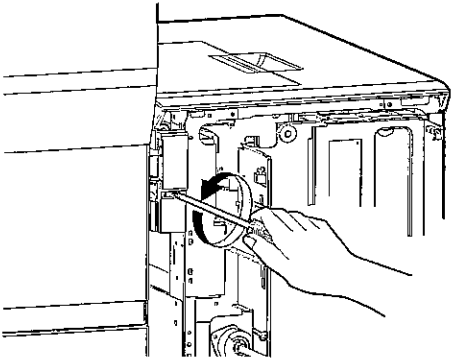
Note 1): When lifting the LCC, insert fingers into the grip sections of the front and rear cabinets and install slowly.



F side

R side

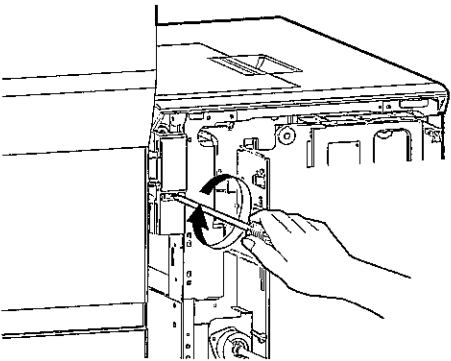
Note 2): Turn the lock release screw of the front cover counterclockwise to loosen and check that the screw is free.



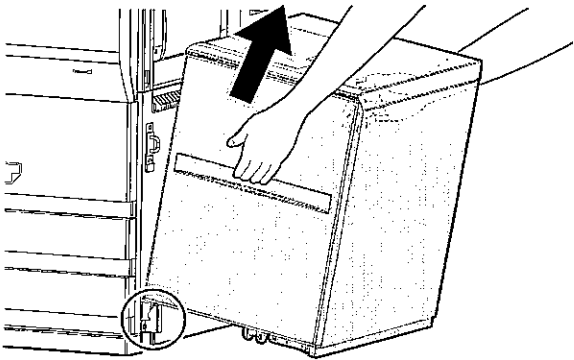
* If the screw is tight at that time, installation will be incomplete.

<<How to separate the large capacity tray from the main unit>>

- 1) Turn the lock release screw of the front cover clockwise and tighten the screw securely to release lock.

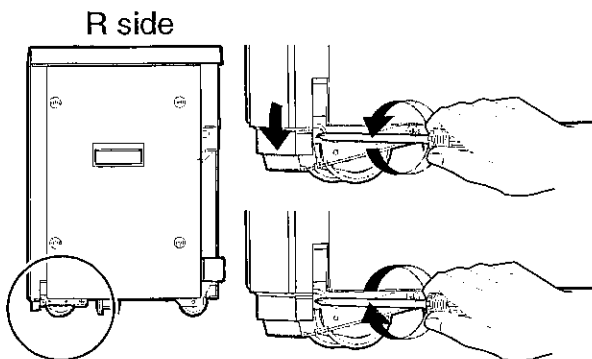
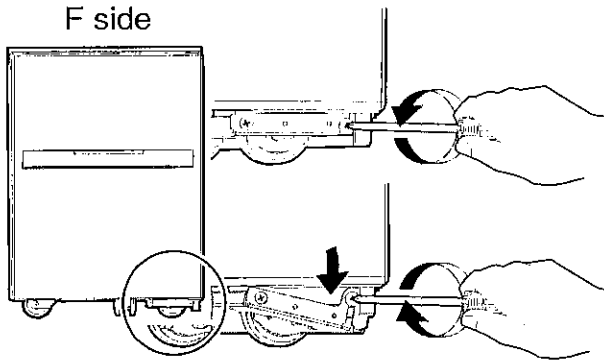


- 2) Then hold the grips of the front and the rear cabinets with both hands, and lift the left side. The large capacity tray will come off.



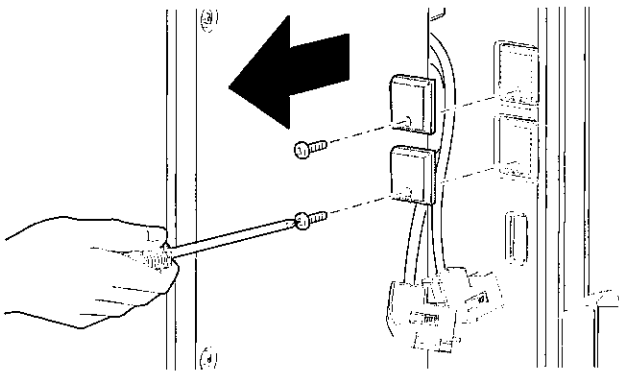
F. Adjust the caster

- 1) After installing the large capacity tray to the main unit, loosen the screws (one in the front and one in the rear) of the adjustment caster mounting plate attached to the lower side of the large capacity tray.
At that time, the casters of the adjustment caster mounting plate are brought into contact with the floor by the spring force.
- 2) Tighten the screws of the caster mounting plate which were loosened in procedure 1).

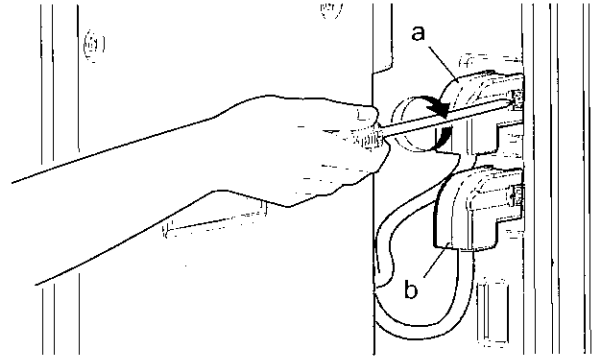


G. Connect the connector of the large capacity tray.

- 1) Remove the screw (one for each) from the connector cover on the main unit and then remove the two connector covers.



- 2) Connect the large capacity tray interface harness connector and the heating heater interface harness connector to the main unit connector, and tighten the connector screw to fix the connector.

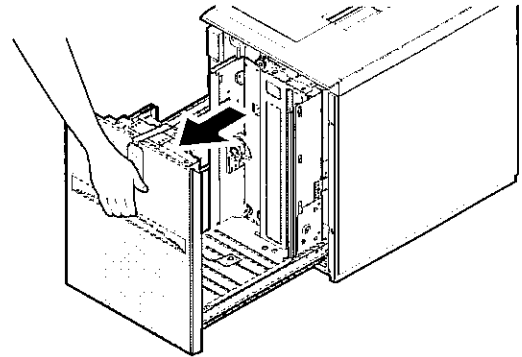


H. Select the paper size.

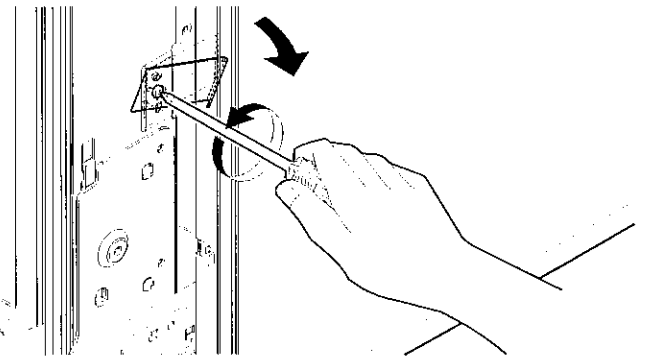
(1) Change A4 size to LT size

The factory setting of the paper size is A4. To select another size, perform the following procedures.

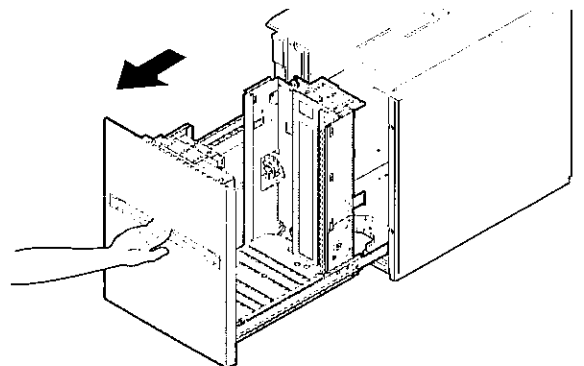
- 1) Pull out the large capacity tray until it stops.



- 2) Loosen the stopper fixing screw (1 pc.) on the lower right side of the paper feed tray to disable the stopper function.

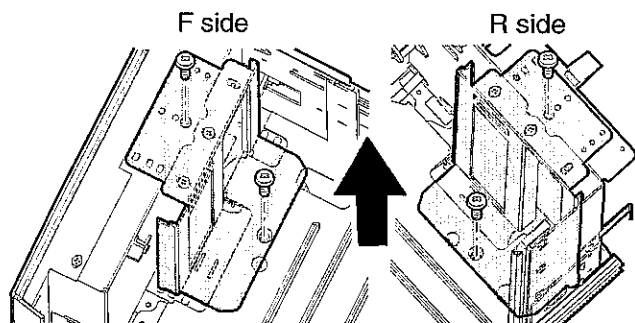


- 3) Then pull out the paper feed tray again until it stops.

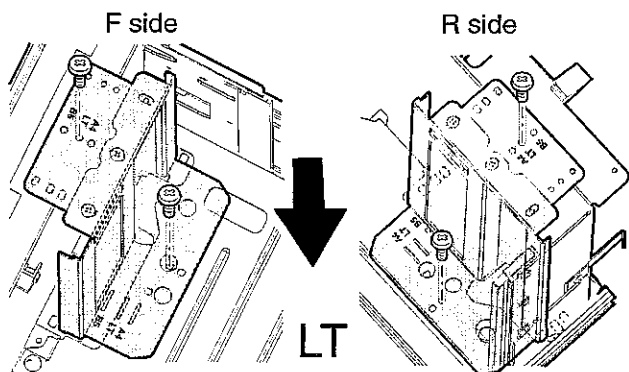
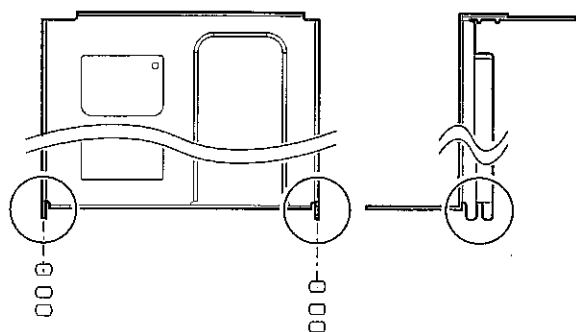


a. Side plate size change-over

- 1) Remove the four fixing screws (blue) which are fixing the upper and the lower sections of the side plate F and the side plate R.

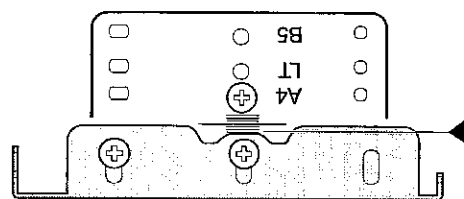


- 2) Then fit the paper feed tray on the lower side of the side plate F and the side plate R with the engraved marks of the side plates according to the size, and insert it. Also fit the upper side to the size and fix it with the four fixing screws (blue).

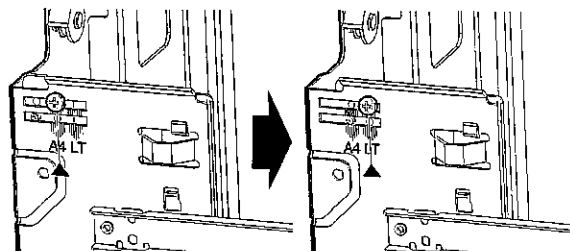


b. Auxiliary guide size change-over

- 1) When changing the size of the side plate R, check to confirm the mark positions of "▲" on the side plate R and the size guide adjustment plate.



- 2) Loosen the auxiliary guide fixing screw (Flat screw 1pc).
- 3) Change the mark position (▲) of the auxiliary guide and the cassette R from A4 to LT, and fix them with the fixing screw (flat screw, 1pc).



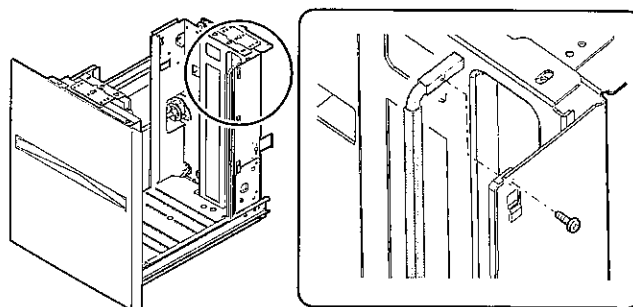
A4

LT

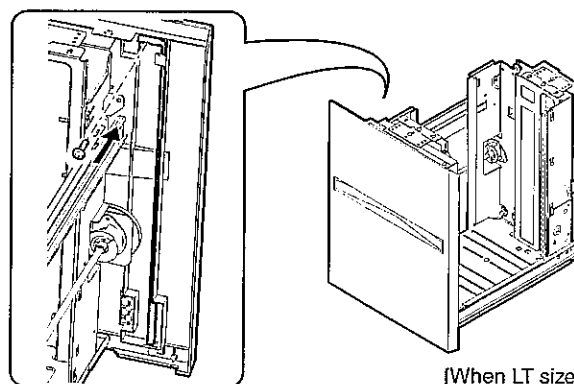
At that time, adjust so that the mark positions (▲) on the auxiliary guide and the cassette R are at the same positions of the mark positions (▲) of the side plate R and the size guide adjustment plate checked in the procedure 1). (If the scale of the size guide adjustment plate is at the center, set the position at the center. If it is at 1mm toward the front side, set the position at 1mm toward the front side.)

c. Rear edge shaft change-over

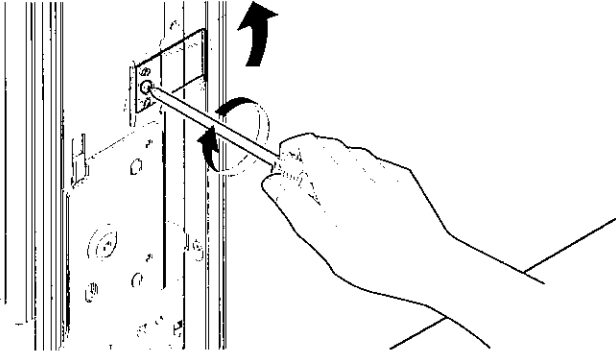
- 1) Remove the rear edge shaft fixing screw (blue) on the right side of the paper feed tray, and remove the rear edge shaft.



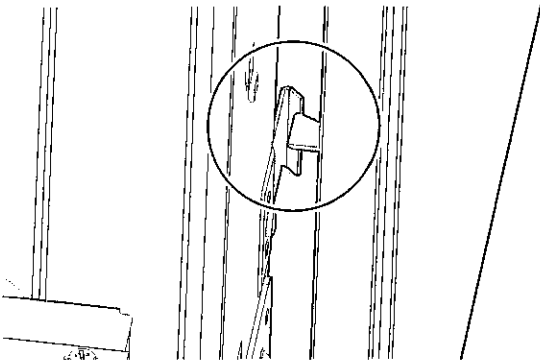
- 2) Tighten the removed rear edge shaft with the fixing screw (blue screw) and store it in the storage space inside the front cabinet.



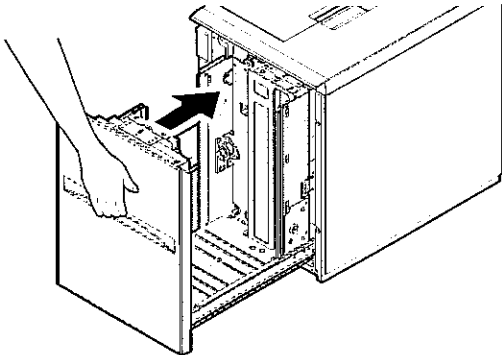
- 3) Push the paper feed tray slightly, and return the disabled stopper to the original position, and tighten the fixing screw.



At that time, check that the stopper pawl is engaged with the stopper receiver of the large capacity tray.

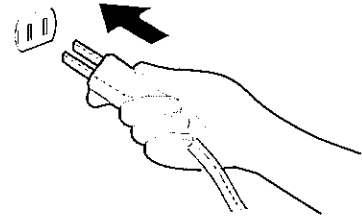


- 4) Push the large capacity tray slowly into the original position.

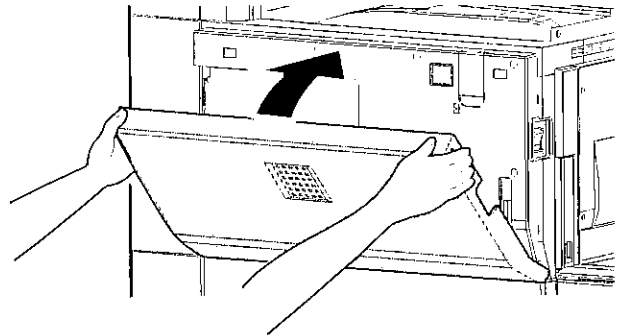
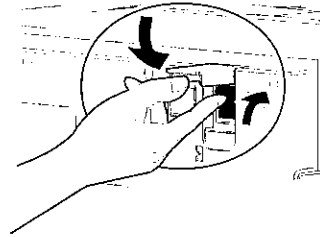


I. Turn the main power switch on the main unit to the ON position.

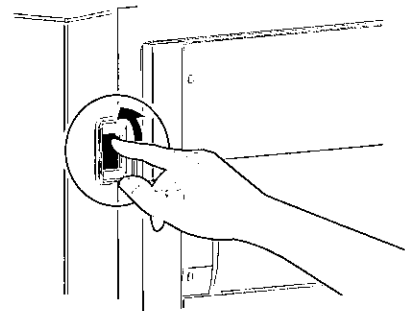
- 1) Insert the power plug of the main unit to the outlet.



- 2) Turn the main power switch to the ON position. Then close the front cabinet cover.



- 3) Turn ON the power switch on the right side of the main unit.

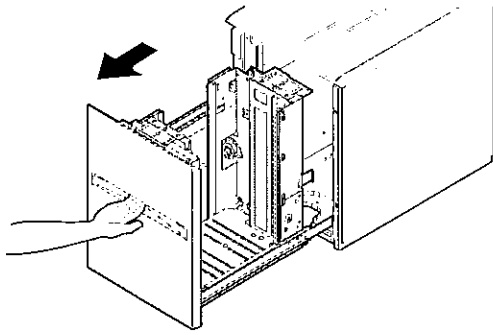


J. Set the size.

Execute SIM 26-2 (Size setting) by the key operations of the main unit.

- 1) The size selection menu of the large capacity tray is displayed on the operation panel message display.
- 2) Select the size number from the message menu and enter the number with the 10-key.

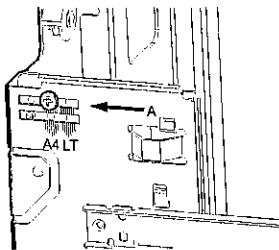
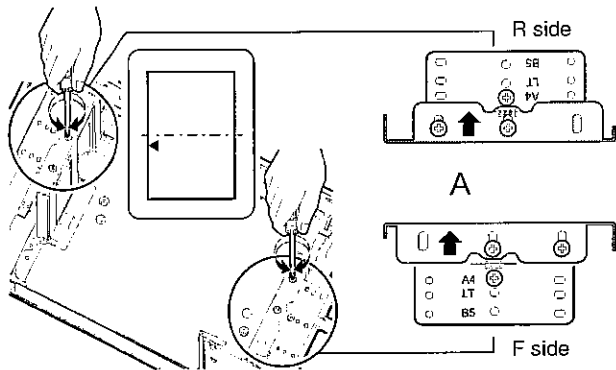
- 3) Then pull out the paper feed tray again until it stops.



[When shifted to the front side]

When shifting the print line from the paper center in the arrow direction as shown below:

- 4) Loosen the red fixing screws (2 pcs. for each) of the front/back size guide adjustment plate, and slide the side guide adjustment plate in the direction A (R side) by the shift dimension. Tighten the red fixing screws (2 pcs. for each). Slide the auxiliary guide in the direction of A by the same dimension.



Then push the paper feed tray into the machine, and return the stopper to the original position, and fix it with the fixing screw (1 pc.).

At that time, check that the stopper pawl is engaged with the stopper receiver of the large capacity tray.

- 5) Push the large capacity tray to the original position slowly.

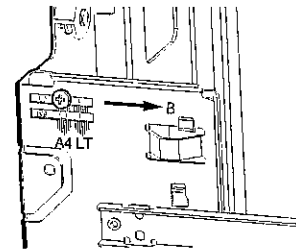
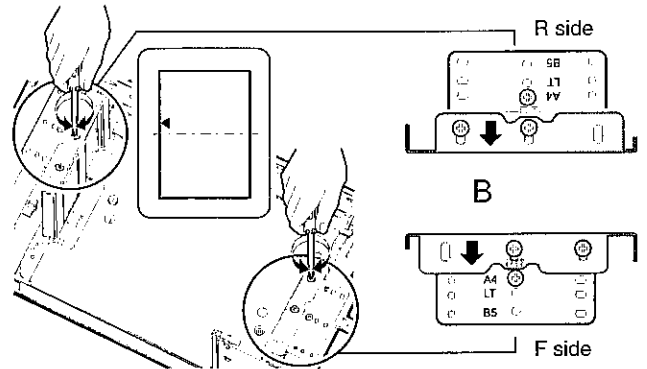
Then make a copy again to check that the center is not shifted. Repeat this procedure as required.

[When shifted to the rear side]

When shifting the print line from the paper center in the arrow direction as shown below:

- 4) Loosen the red fixing screws (2 pcs. for each) of the front/back size guide adjustment plate, and slide the side guide adjustment plate in the direction B (F side) by the shift dimension. Tighten the red fixing screws (2 pcs. for each), and push the paper feed tray into the machine. Return the stopper to the original position, and fix it with the fixing screw (1 pc.). Slide the auxiliary guide in the direction of B by the same dimension.

At that time, check that the stopper pawl is engaged with the stopper receiver of the large capacity tray.



- 5) Push the large capacity tray slowly into the original position.

Then make a copy again to check that the center is not shifted. Repeat this procedure as required.

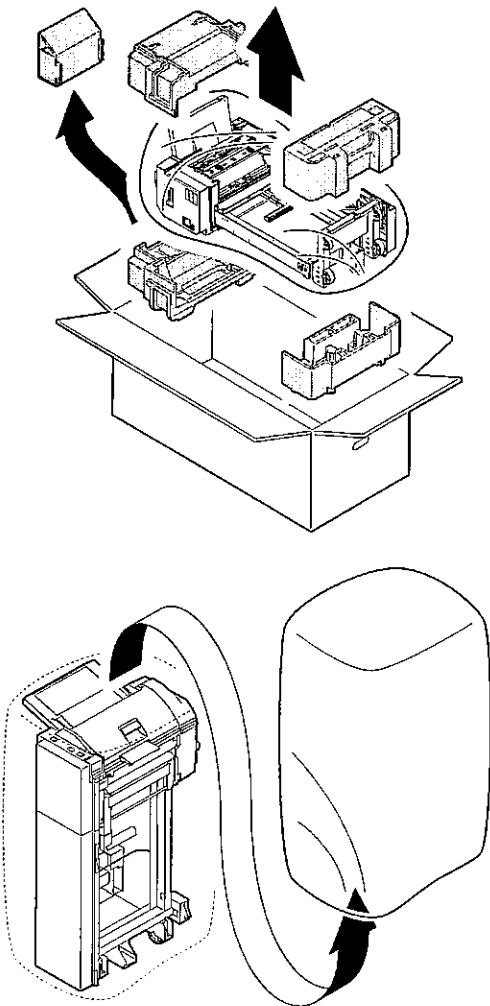
[3] AR-CF2 UNPACKING AND INSTALLATION

<Before installation>

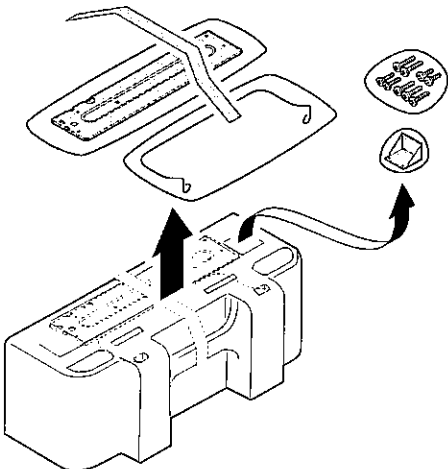
Start installation after checking that the DATA indicator on the operation panel is neither lit nor blinking.

1. Unpacking

(Removal of the main unit)

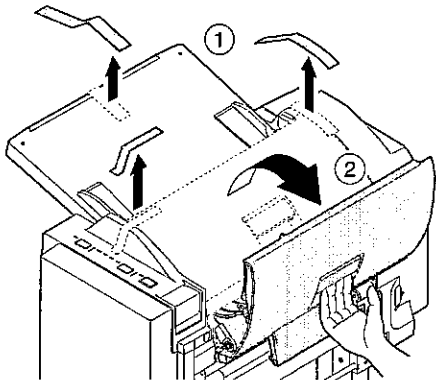


(Removal of the parts included)

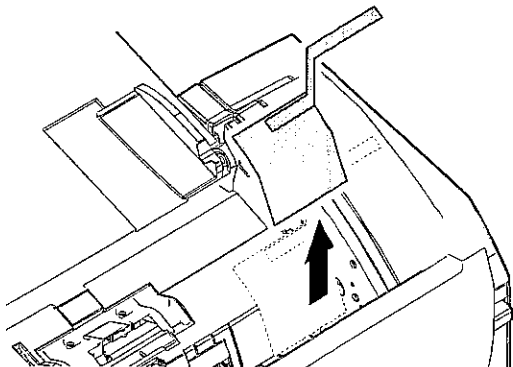


(Removal of the fixing member)

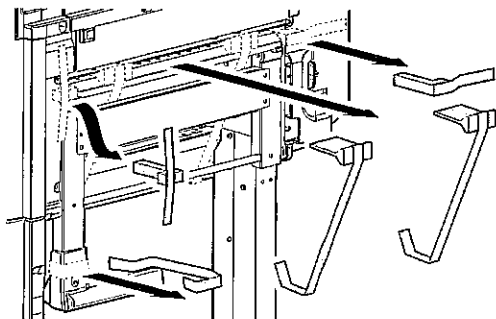
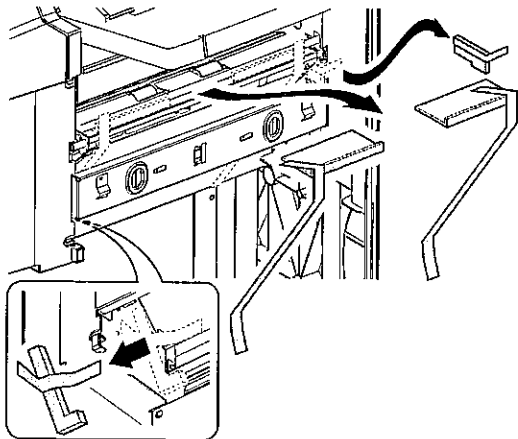
1) Remove the tape and open the upper door.



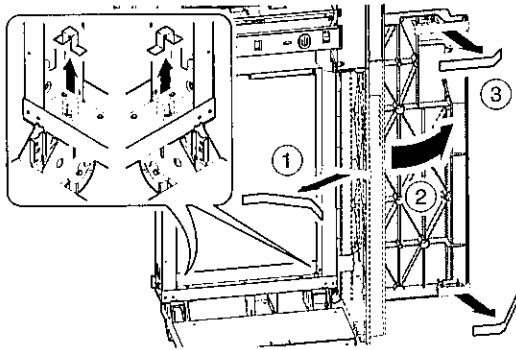
2) Remove the tape and remove the miramatte.



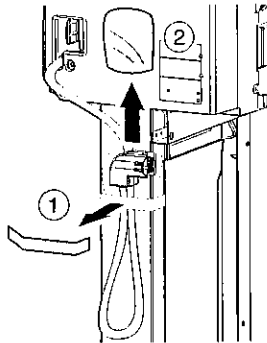
3) Remove the tape and remove the fixing member.



4) Remove the tape and open the base cover.



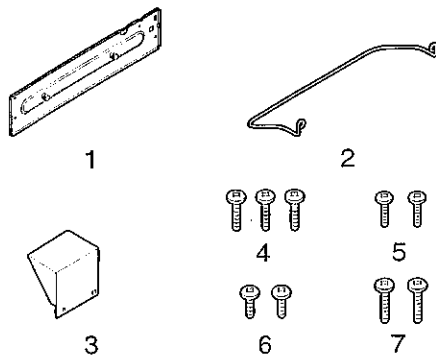
5) Remove the connector cable fixing tape.



2. Installation

(Packaged parts check)

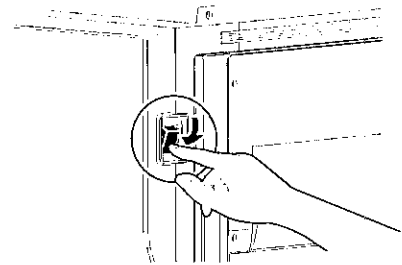
- Check to insure that all the following parts are packaged.



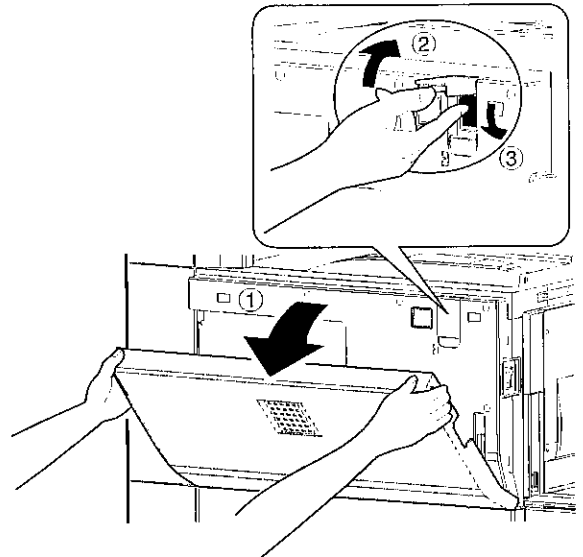
	Parts name	Quantity
1	Positioning plate	1 pc.
2	Upper limit regulation wire	1 pc.
3	Button cover	1 pc.
▲ 4	Screw C (M4 x 12 small screw bind)	3 pcs.
▲ 5	Screw D (M3 x 8 tapping bind)	2 pcs.
▲ 6	Screw E (M4 x 7 small screw bind)	2 pcs.
▲ 7	Screw F (M4 x 14 tapping bind)	2 pcs.

(1) Turn off the power of the main unit

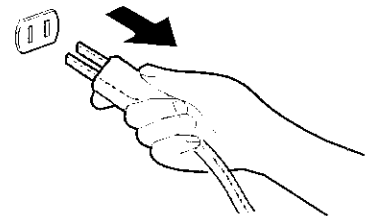
- 1) Turn OFF the power switch on the right side of the main unit.



- 2) Open the front cabinet, and turn OFF the main power switch.



- 3) Disconnect the power plug from the power outlet.

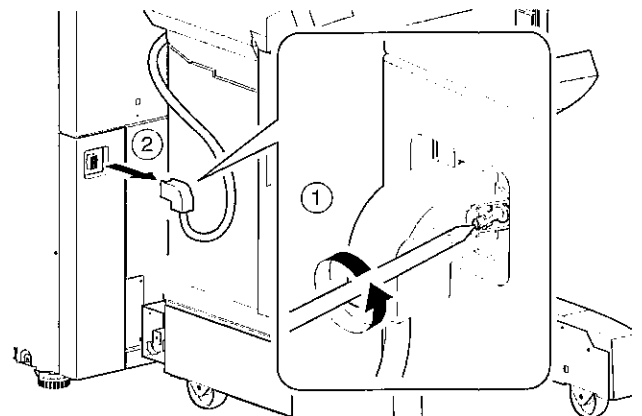


<When the finisher (F15) or the saddle finisher (F16) is installed>

▲ * If it is not installed, perform procedure (4).

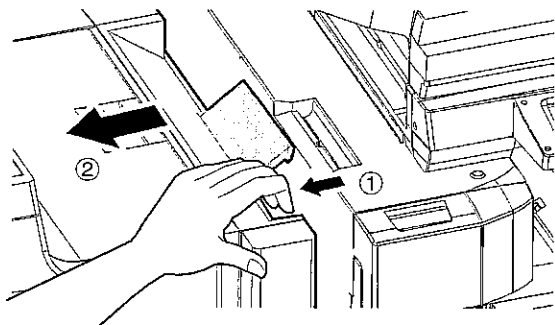
(2) Removal of the connector between the main unit and the finisher

- 1) Remove the screw from the finisher connector connected to the left side of the main unit.
- 2) Disconnect the finisher connector.

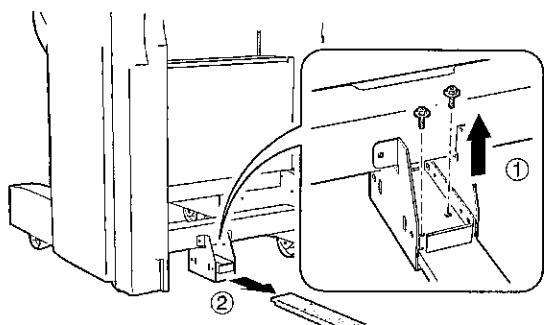


(3) Removal of the rail, the connecting plate, and the earth plate

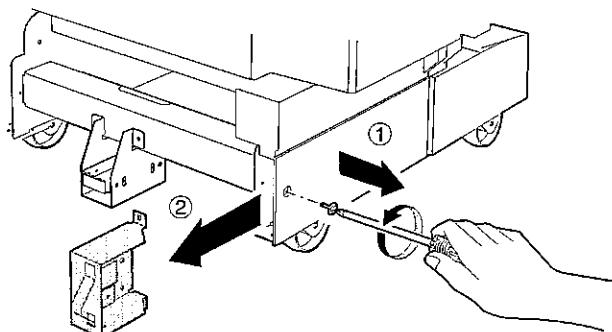
- 1) Separate the finisher and the main unit.



- 2) Remove two screws which are fixing the connecting plate under the finisher.



- 3) Remove the plate (fixed by one screw) from the rear lower section of the finisher.

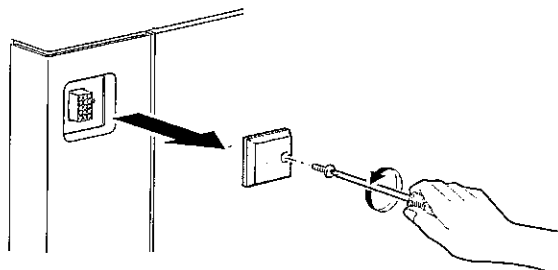


- 4) Go to procedure 5.

<When the finisher (F15) and the saddle finisher (F16) are not installed to the main unit>

(4) Attach the positioning pin and the earth plate to the main unit. (Use the packaged parts of the finisher.)

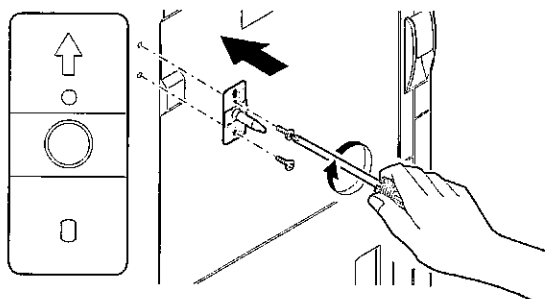
- 1) Remove the connector cover fixing screw for connection of the finisher joint harness connector, and remove the connector cover.



* Only when the finisher and the inserter are installed together, perform this procedure.

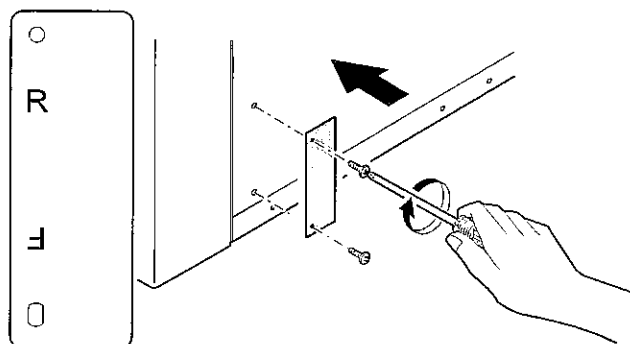
- ▲ 2) Attach the positioning pin with two fixing screws I to the left upper section of the main unit. Be careful to the attachment direction of the positioning pin.

Note: For fixing screws H and I, use the packaged parts of the AR-F15/F16.

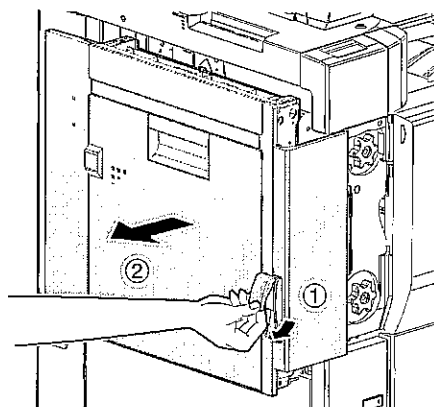


- 3) Attach the earth plate with the fixing screws H (2 pcs.) to the left lower section of the main unit.

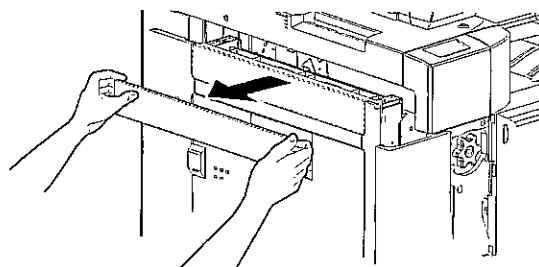
In this case, attach so that the R mark on the earth plate faces up.



- 4) Pull out the lock release lever on the left side of the main unit, and open the left door.

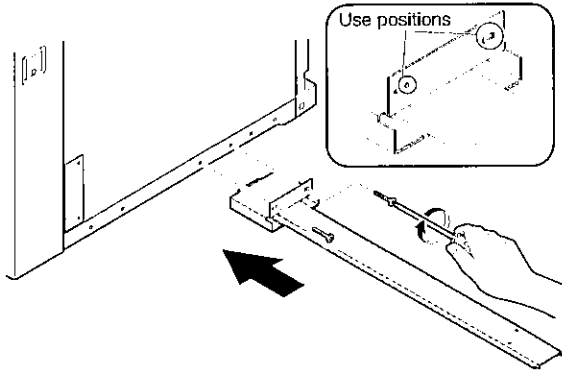


- 5) Remove the paper exit cover on the upper side of the left door.



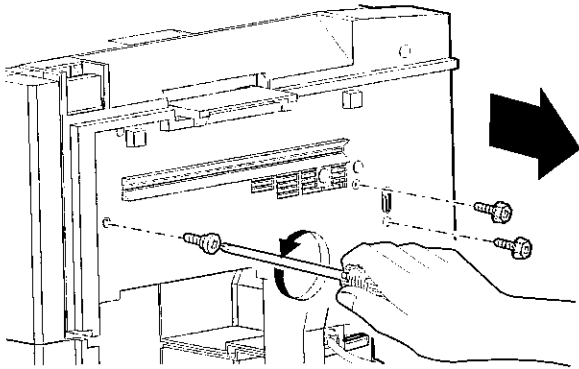
- 6) Close the left door.

- 7) Attach the connecting plate to the with fixing screws I (2 pcs.) main unit.

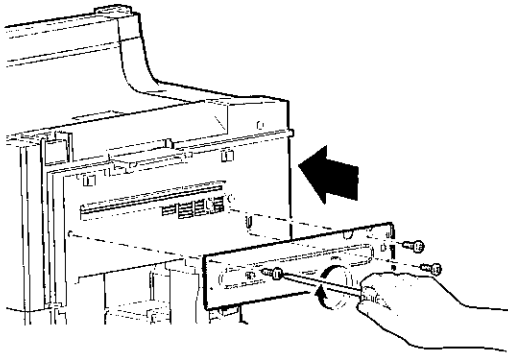


(5) Install the positioning plate and the button cover to the finisher

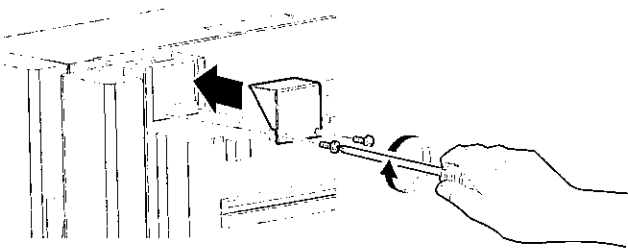
- 1) Remove the step screw (1 pc) and the screws (2 pcs.) which are fixing the punch cover.



- 2) Fit the holds of the screws removed in step 1) with the screw holes of the positioning plate, and fix it with the three fixing screws C.

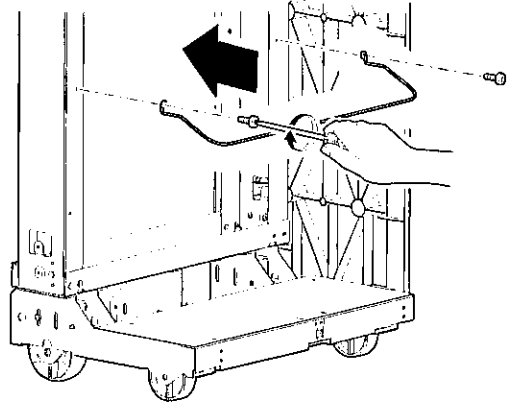


- ▲ 3) Install the button cover with the lock button fixing screws D (2 pcs.) to hide the lock button on the top of the punch cover.



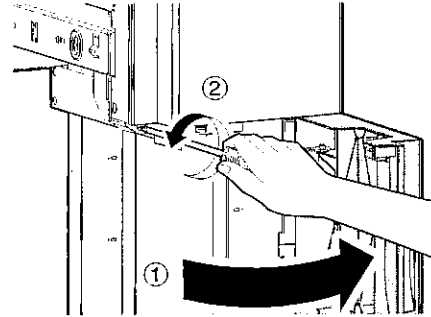
(6) Install the upper limit regulation wire to the inserter

- ▲ 1) Open the front door of the inserter, and install the upper limit regulation wire with the two fixing screws E.

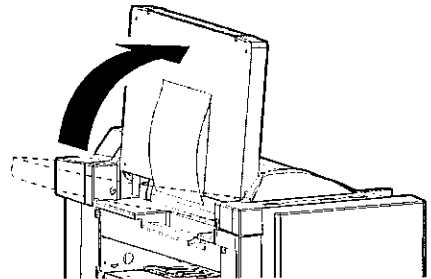


(7) Install the inserter to the finisher

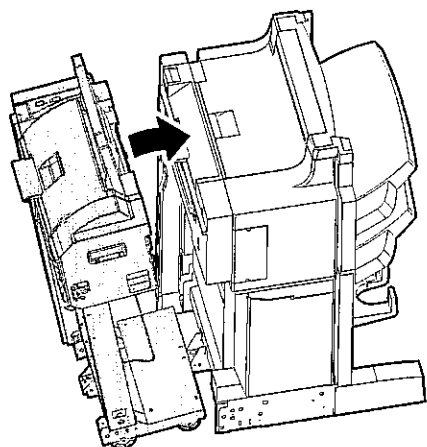
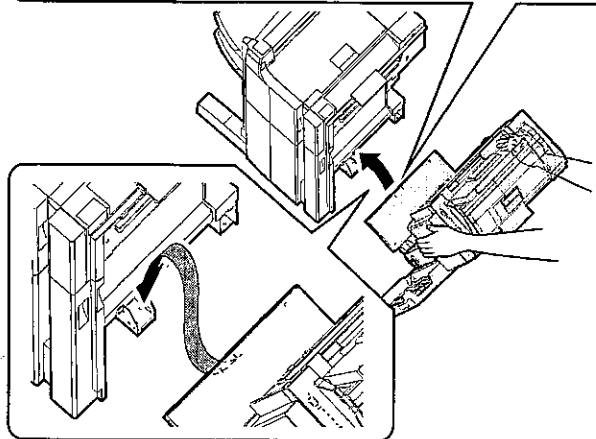
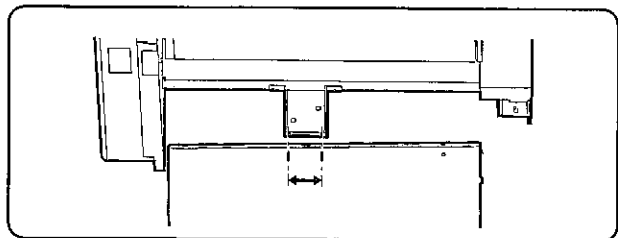
- 1) Open the front door of the inserter, and loosen the lock fixing screw until the screw is released.



- 2) Stand the tray.

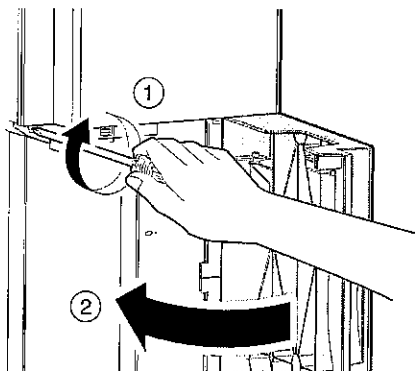


- 3) Hold the lower section of the front cabinet and the grip of the rear cabinet as shown in the figure, tilt the inserter a little so that the indication hole in the inserter support section is fit with the metal fixture of the finisher connecting plate installing section, and install it.

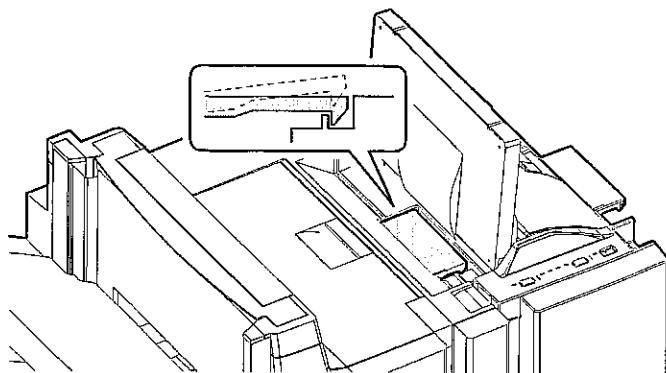


* At that time, check that the finisher lock lever is engaged on the inserter groove securely.

- 4) Tighten the fixing screw of the inserter lock to fix the inserter and the finisher.



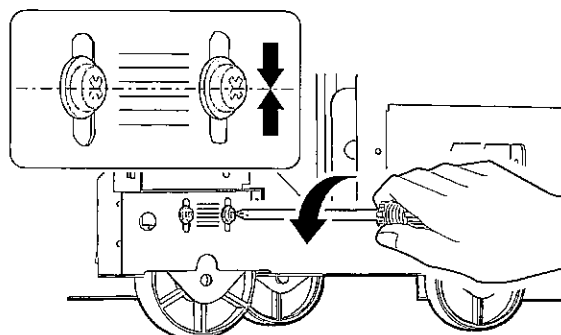
- 5) Check that the finisher lock lever is engaged on the inserter groove securely.



[When the inserter cannot be installed to the finisher]

When the finisher and the inserter differ in the height, perform the following height adjustment, and insert the inserter.

- 1) Set all the finisher height adjustment screws (4 positions) to the center positions.

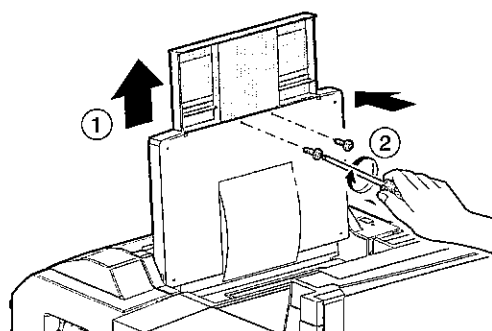


- 2) Insert the inserter to the finisher. (Refer to the procedure (7) in this section.)

(8) Fix the extension guide of the tray

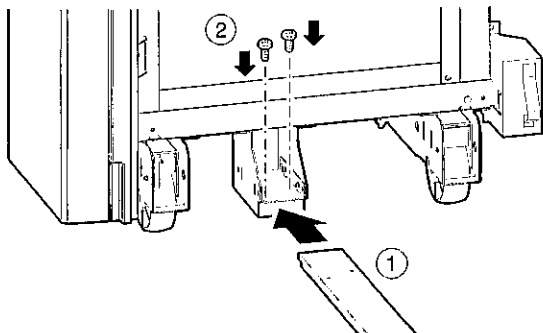
- 1) Pull out the extension guide of the inserter paper feed tray until it stops.

- ▲ 2) Tighten the fixing screws F (2 pcs.) on the back side of the paper feed tray.



(9) Install the connection plate. (Use the packaged parts of the finisher.)

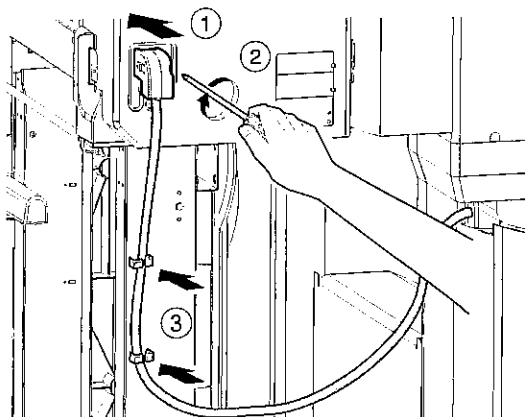
- ▲ 1) Install the connection plate to the inserter with the fixing screws G (2 pieces.).



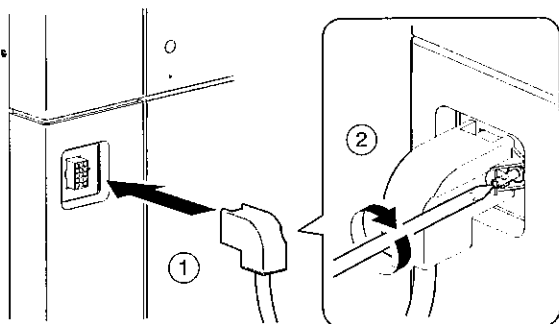
Remark: The plate and the connection plate are common to the finisher. Please reuse rail and connector plate for inserter.

(10) Connect the connector

- 1) Connect the finisher relay harness connector to the inserter connector, and tighten the connector screw to fix it.
- 2) Fix the finisher relay harness to the rear side of the inserter with two clamps.

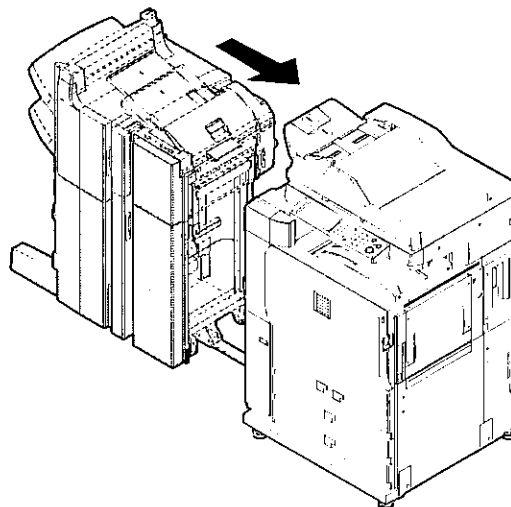


- 3) Connect the inserter relay harness connector to the main unit connector, and tighten the connector screw to fix the connector.

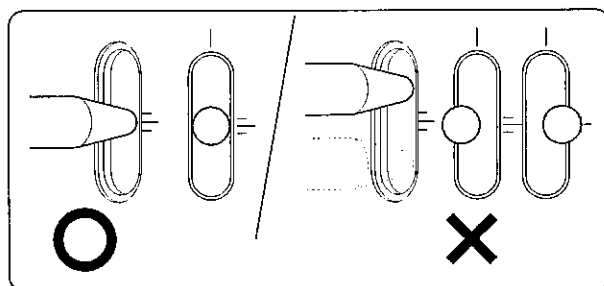
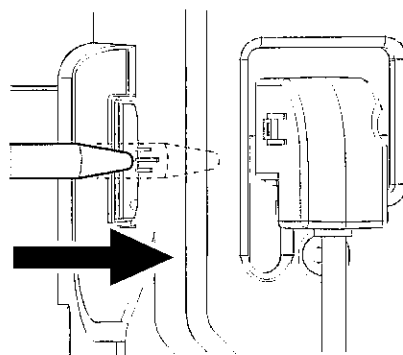


(11) Install the inserter to the main unit

- 1) Bring the inserter closer to the main unit.

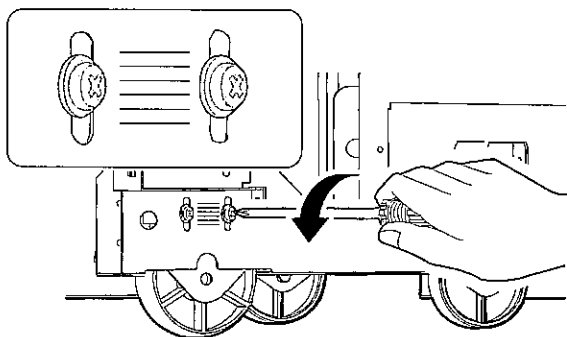


- 2) Check that the main unit positioning pin enters smoothly into the center of the inserter positioning guide.

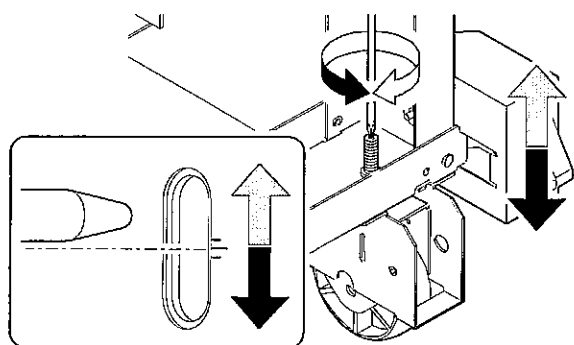


A. When the positioning pin does not enter smoothly:

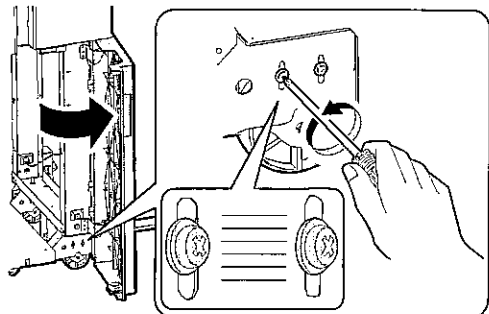
- 1) Loosen the adjustment section fixing screws (2 pcs.) on the rear side.



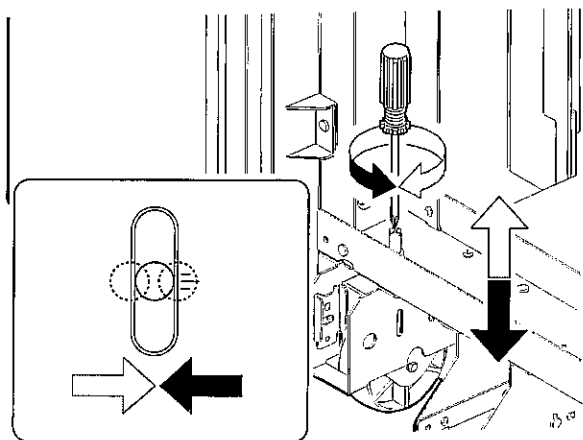
- 2) Turn and adjust the rear side height adjustment bolt so that the center height of the positioning pin comes at the center of the positioning guide.



- 3) Tighten two fixing screws of the rear side adjustment section.
- 4) Loosen the front side adjustment section fixing screws (2 pcs.)



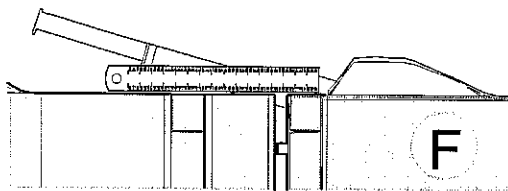
- 5) Turn and adjust the front side height adjustment bolt so that it is at the same position with the rear side adjustment section fixing screw.



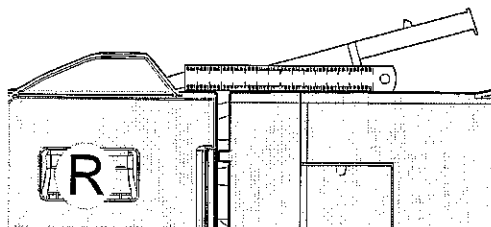
- 6) Tighten two fixing screws of the front side adjustment section.

(12) Finisher and inserter height adjustment

- 1) Check the height of the inserter front cabinet and the finisher front cabinet.



- 2) Check the height of the inserter rear cabinet and the finisher rear cabinet.



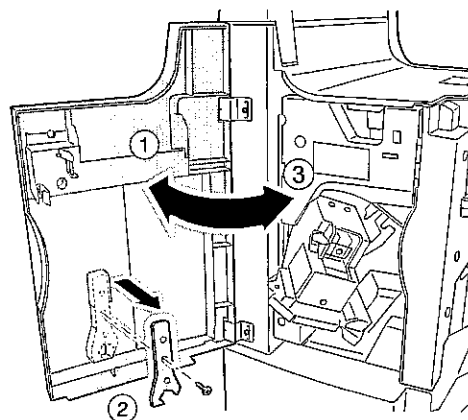
<When the height is proper>

Go to procedure 13.

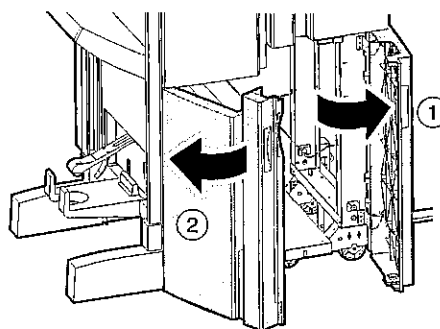
<When the height is not proper>

A. Adjust the height of the front side.

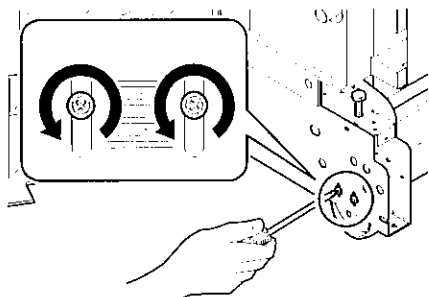
- 1) Open the finisher front door upper, remove the spanner stored in the upper section of the front door, and close the front door upper.



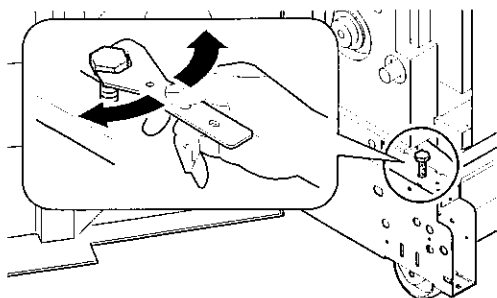
- 2) Open the front door of the inserter, open the front door lower of the finisher



- 3) Loosen the fixing screws (2 pcs.) of the adjustment section of the base.



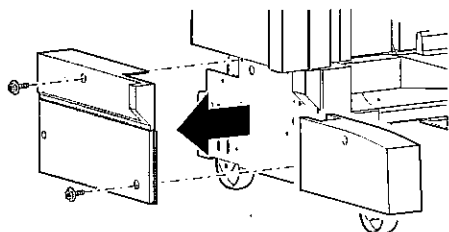
- 4) Use the spanner removed in step 1) to adjust the height adjustment bolt so that the upper cabinet is of the same height.



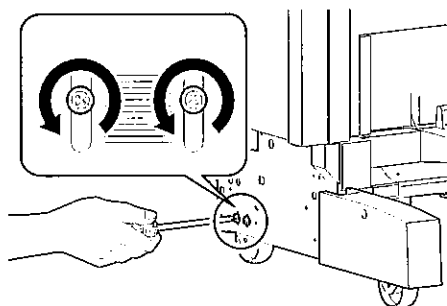
- 5) Tighten the adjustment section fixing screws (2 pcs.).
6) Close the finisher front door lower, and close the inserter front door.

B. Adjust the rear side height.

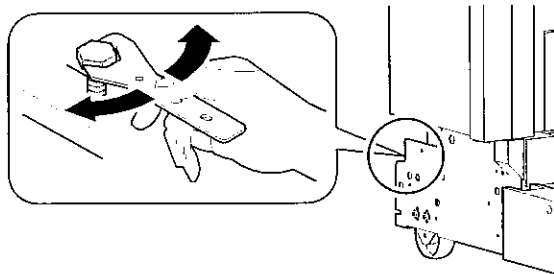
- 1) Remove two screws which are fixing the base cover attached to the finisher rear side base section, and remove the base cover.



- 2) Loosen the adjustment section fixing screws (2 pcs.).



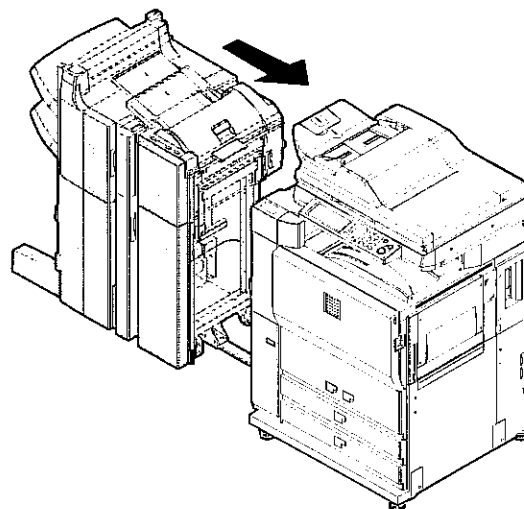
- 3) Use the spanner and adjust the height adjustment bolt so that the height of the rear side cabinet top surface is of the same height.



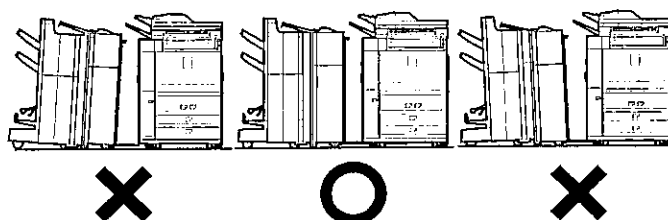
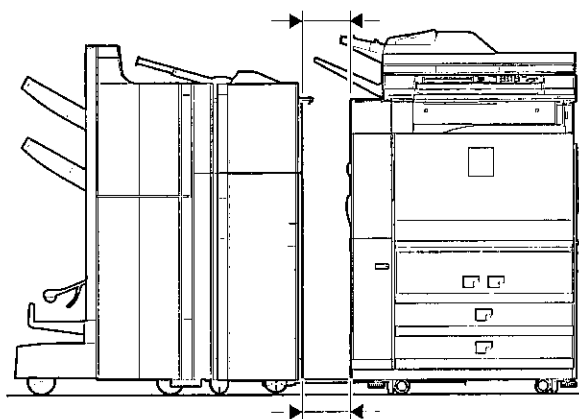
- 4) Tighten the adjustment section fixing screws (2 pcs.).
5) Install the base cover.

(13) Check the clearance between the main unit and the inserter

- 1) Push the inserter into the main unit.

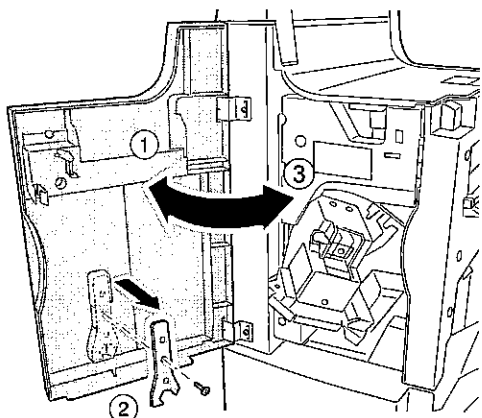


- 2) Check the upper and the lower clearances between the main unit and the inserter cabinet.

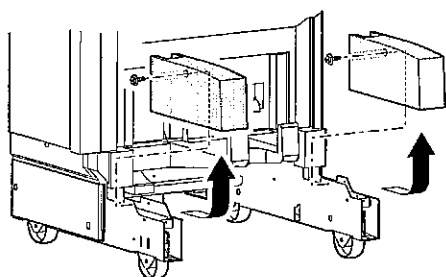


• When the upper and the lower clearances differ:

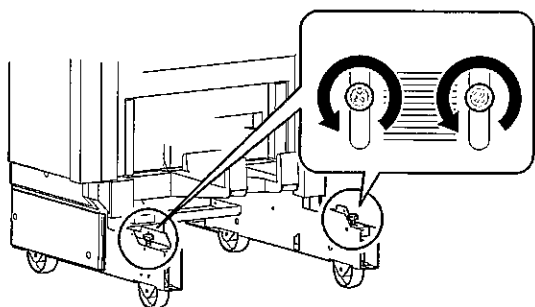
- 1) Open the front upper door of the finisher, and remove the spanner (fixed with a screw) from the inside of the door.



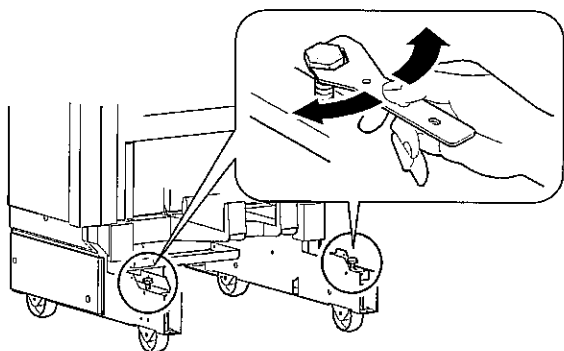
- 2) Remove the base cover (fixed with a screw in the front and a screw at the back) fixed to the front and the rear of the finisher base section.



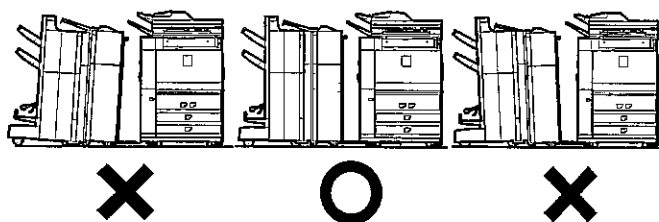
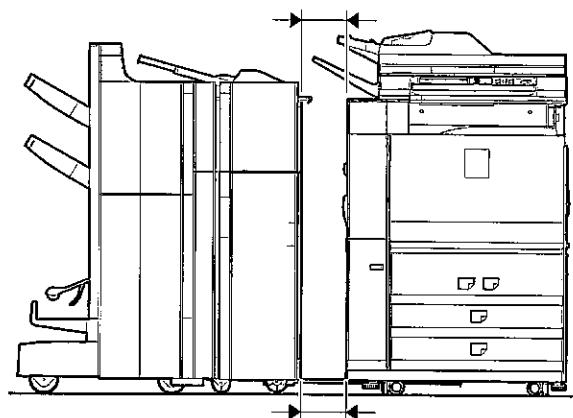
- 3) Loosen the front side and the rear side adjustment section fixing screws (2 pcs. for each side).



- 4) Turn the front and the rear side adjustment bolts with the spanner removed in step 1) so that the upper and the lower clearances are the same.



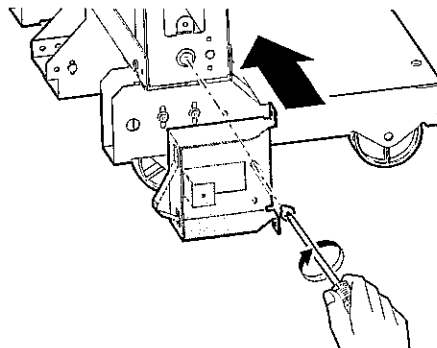
- 5) Check that the upper and the lower clearances are even when viewed from the front and the back.



- 6) Tighten the front and the rear side adjustment section fixing screws (2 pcs. for each side).
- 7) Install the base cover (front and rear).
- 8) Return the spanner to the original position.

(14) Install the plate

- ▲ 1) Hang the plate on the rear lower side of the inserter as shown in the figure, and fix it with the fixing screw G (1 pc).

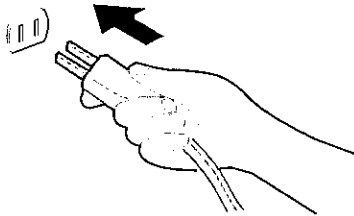


* At that time, check to insure that the upper and lower positioning tabs are in the plate holes.

Remark: The plate and the connection plate are common to the finisher. Please reuse rail and connector plate for inserter.

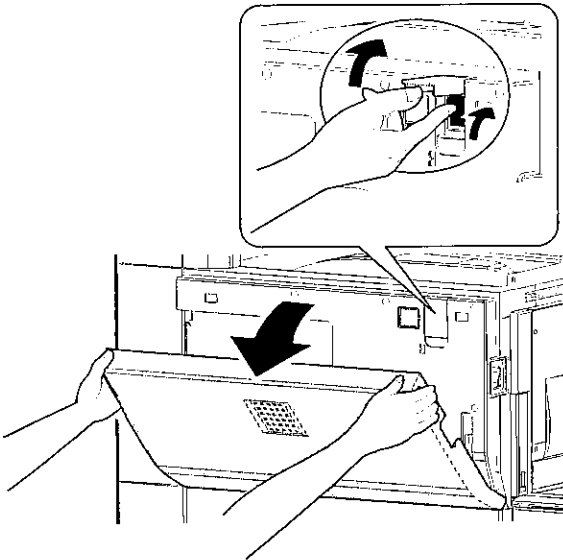
(15) Turn ON the main power switch

1) Insert the power plug of the main unit to the outlet.

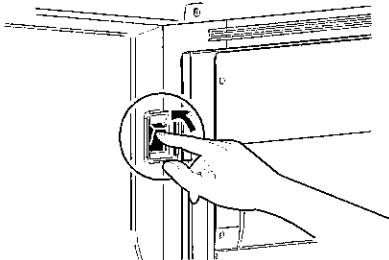


2) Open the front cabinet, and open the power cover.

3) Turn ON the main power switch, close the power cover, and close the front cabinet.



4) Turn ON the power switch on the right side of the main unit.



[4] AR-F15/F16 UNPACKING AND INSTALLATION

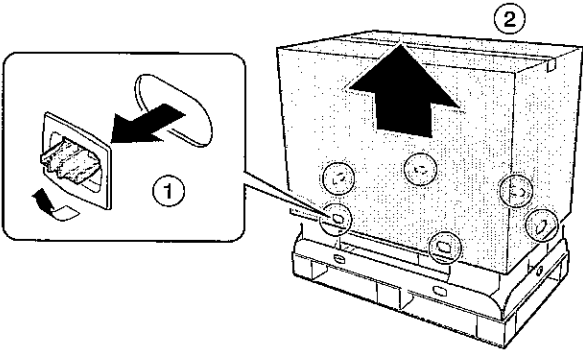
1. Unpacking

When removing or moving, be sure to perform by two persons not to drop the unit.

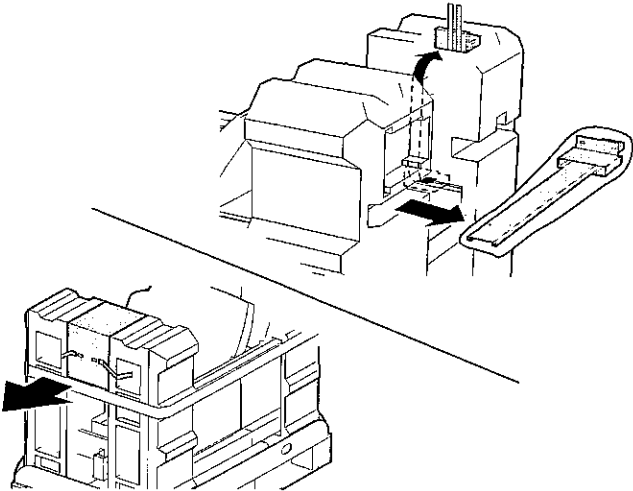
A. Unpacking procedure

(1) Removal of the main unit

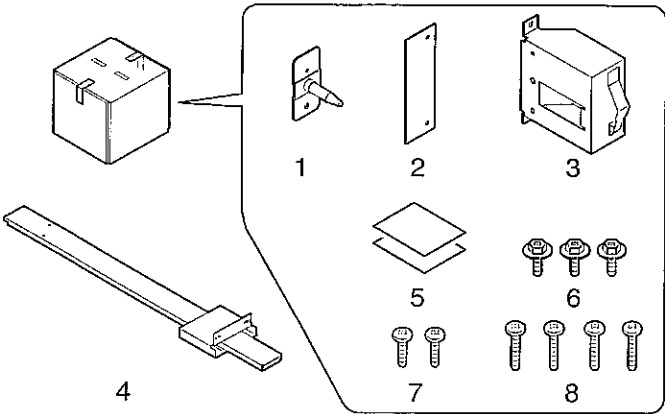
1) Remove the fixing member and remove the top case.



2) Remove the packaged parts from the add.



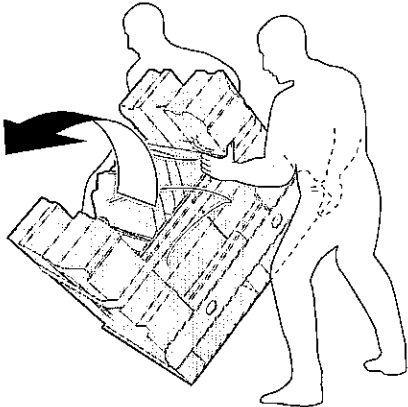
3) Check the packaged parts.



Packaged parts

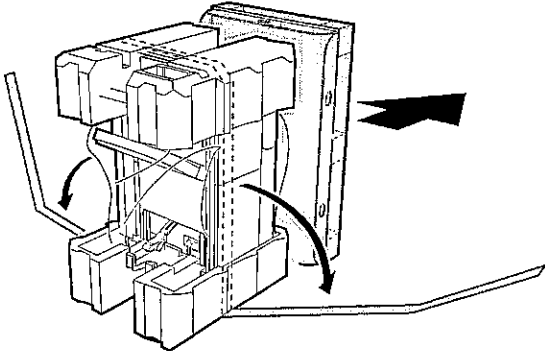
1	Positioning pin	1 pc.	5	Staple label	2 pcs.
2	Earth plate	1 pc.	6	Screw G (M4 x 6)	3 pcs.
3	Earth mounting plate	1 pc.	7	Screw H (M4 x 10)	2 pcs.
4	Rail mounting plate	1 pc.	8	Screw I (M4 x 18)	4 pcs.

4) Hold the upper section of the machine with two persons, and pull it up and stand it straight.

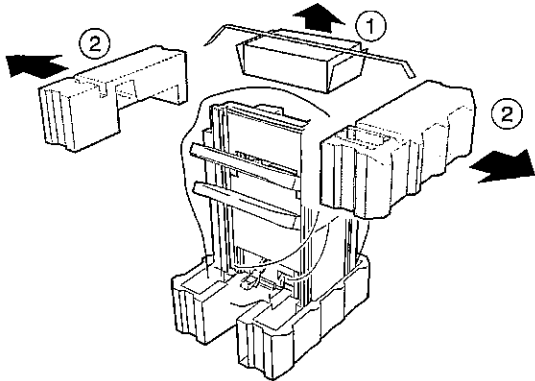


(The machine is very heavy. Be careful.)

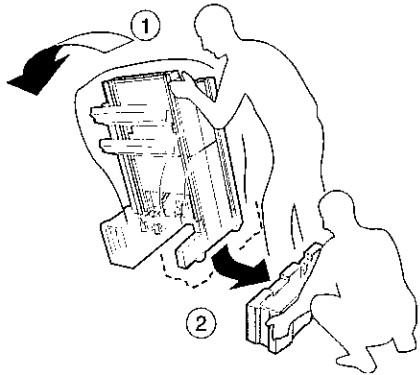
5) Remove the tape and the skid.



6) Remove the upper add.



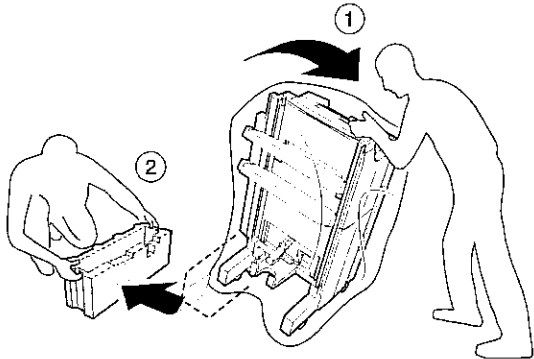
7) One person holds the machine so that it does not fall down. The other person tilts the machine a little to remove packing material.



8) Bring the base of the unit into contact with the floor so that it does not fall down.

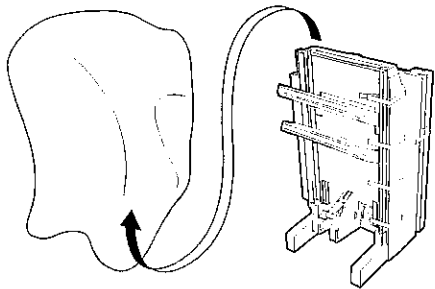
(The base section is slippery. Be careful of that.)

9) Tilt the machine to the opposite side a little, and remove packing material on the opposite side.



10) Slowly bring the base section of the machine on the opposite side to contact with the floor.

11) Remove the vinyl cover.

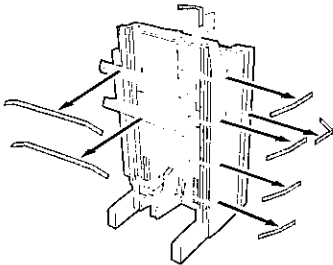


(2) Fixing member removal

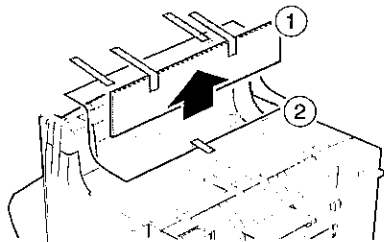
Remove the taping from the finisher.

Remove the shipment locking material with red sticky note.

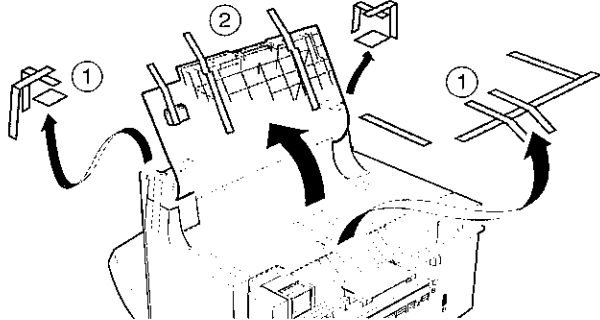
1) Remove the tape.



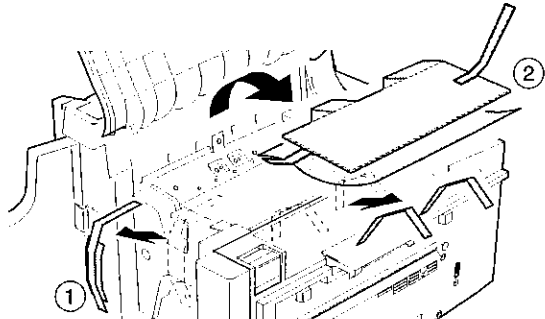
2) Remove the tape and remove the protection board and the sheet.



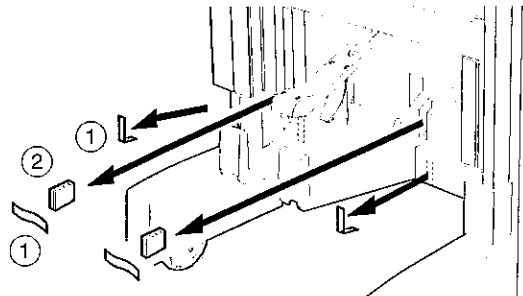
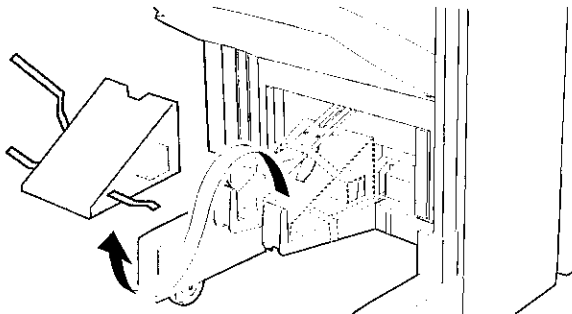
3) Remove the tape and open the upper cover.



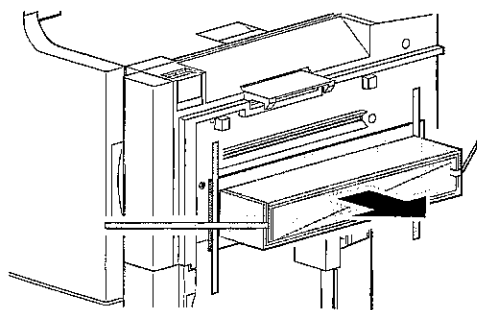
4) Remove the tape and remove the transit fixing member and the sheet.



5) Remove the tape and remove the lower tray transit fixing member.

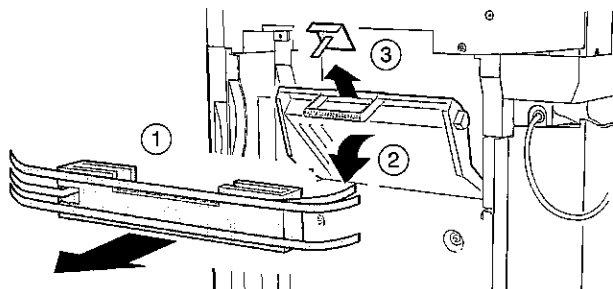


6) Remove the tape and the fixing member.

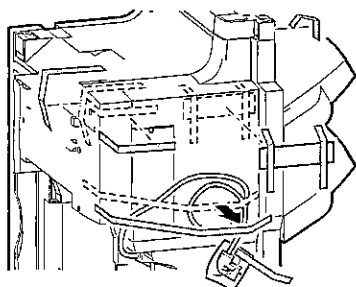


7) Remove the tape and remove the jam release door transit fixing member.

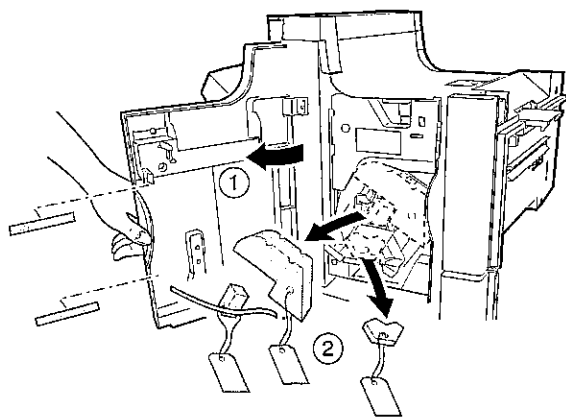
8) Remove the tape and remove the jam release door handle section transit fixing member.



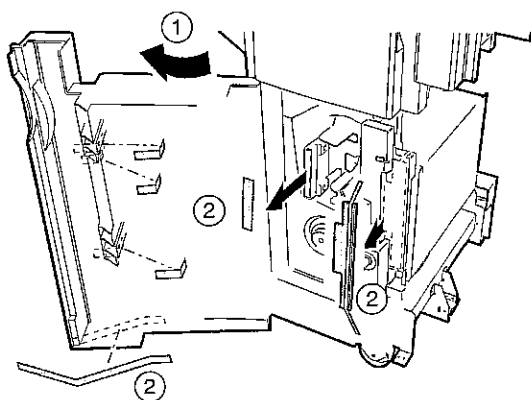
9) Remove the power cable fixing tape.



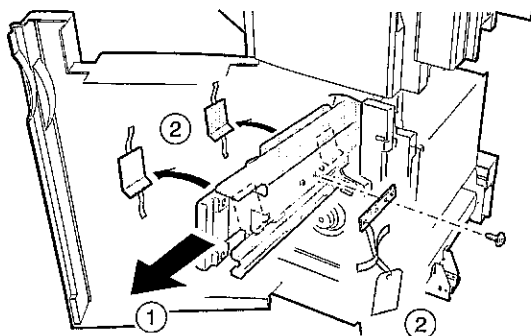
10) Open the upper front door, and remove the staple transit fixing member.



11) Open the lower door, and remove the each tape.

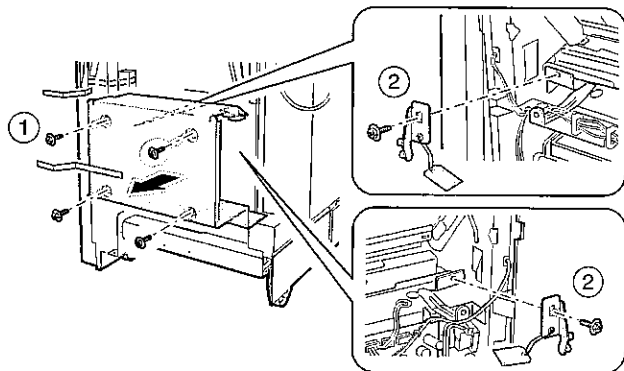


12) Pull out the stitcher remove the screw, and remove the stitcher transmit fixing member.

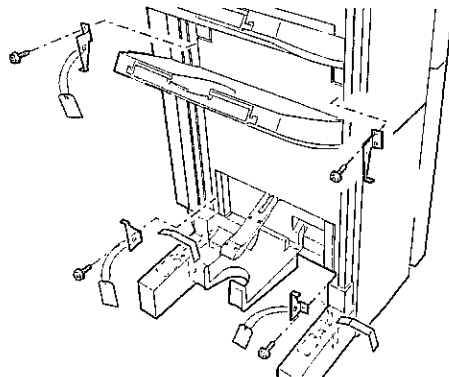


13) Remove the screw, and remove the lower cover.

14) Remove the screw, and remove the transit fixing members F and R.



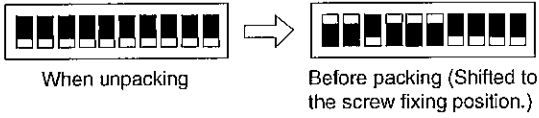
15) Remove the screw, and remove lift tray rail section transit fixing members (4 positions).



B. Note for packing

(1) Finisher transit fixing member installation

- 1) Remove the rear cabinet of the finisher.
- 2) Turn on the power of the main unit.
- 3) Raise the DIP switch 1, 2, 4, 5, and 6 on the rear of the finisher.



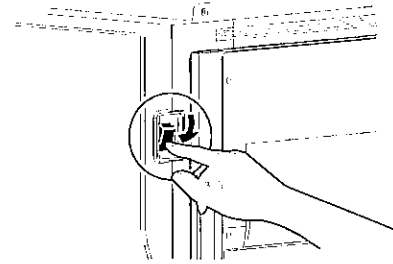
- 4) Press SW1 button (left side) of the PWB. (It is located over the DIP switch.)
* The finisher tray moves to the screw fixing position.
- 5) Turn off the power of the main unit.
- 6) Reset the DIP switch to the original state.
- 7) Install the cabinet.
- 8) Install the lift tray rail section fixing members (4 positions) with four screws.

2. Installation

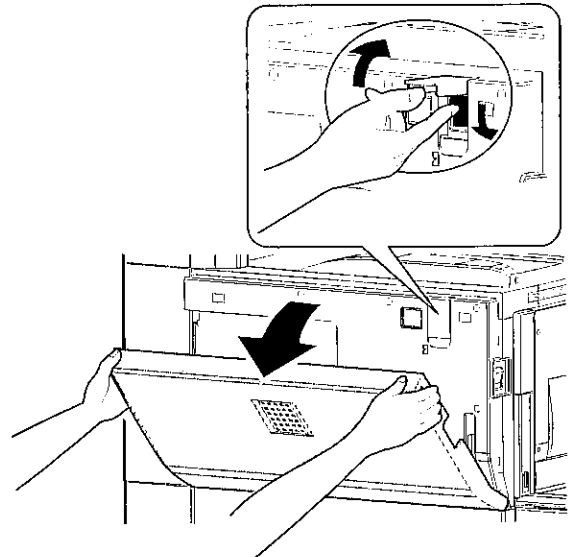
A. Installation procedure

(1) Turn off the power of the main unit.

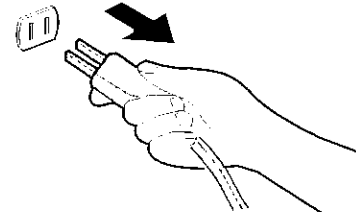
- 1) Turn OFF the power switch on the right side of the main unit.



- 2) Open the front cabinet, and turn OFF the main power switch.

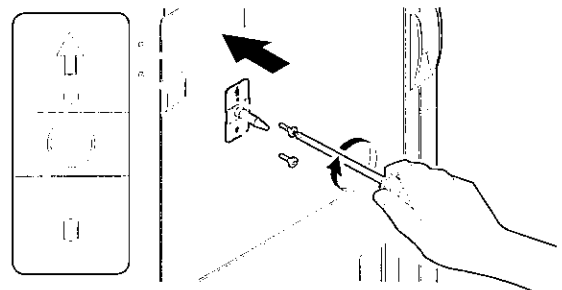


- 3) Disconnect the power plug from the power outlet.

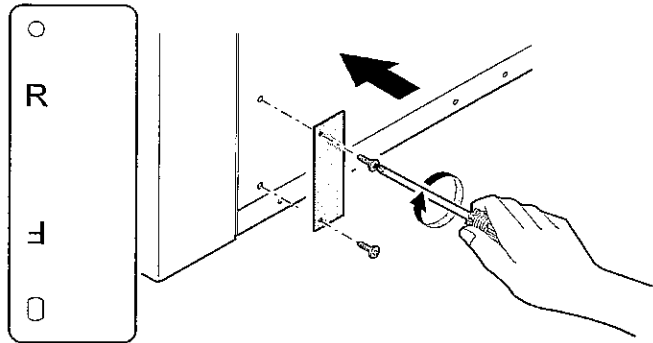


(2) Attach the positioning pin and the earth plate to the main unit.

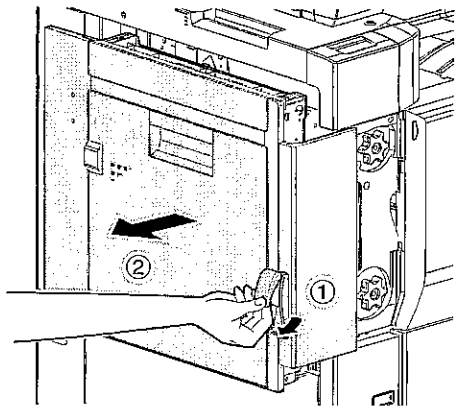
- ▲ 1) Attach the positioning pin with two fixing screws to the left upper section of the main unit. Be careful to the attachment direction of the positioning pin.



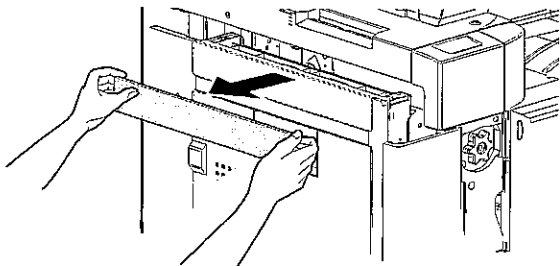
- 2) Attach the earth plate with the fixing screws H (2 pcs.) to the left lower section of the main unit.
In this case, attach so that the R mark on the earth plate faces up.



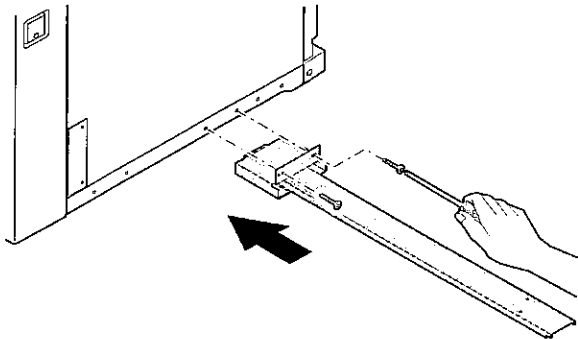
- 3) Pull out the lock release lever on the left side of the main unit, and open the left door.



- 4) Remove the paper exit cover on the upper side of the left door.

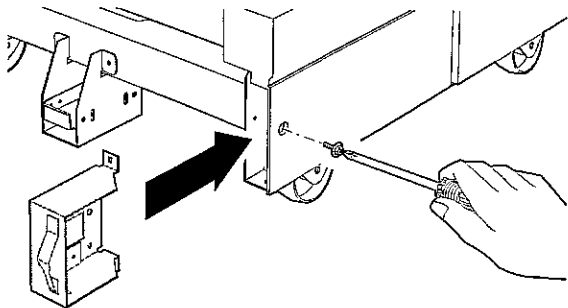


- 5) Close the left door.
6) Install the connection plate to the main unit with the fixing screws I (2 pcs.).

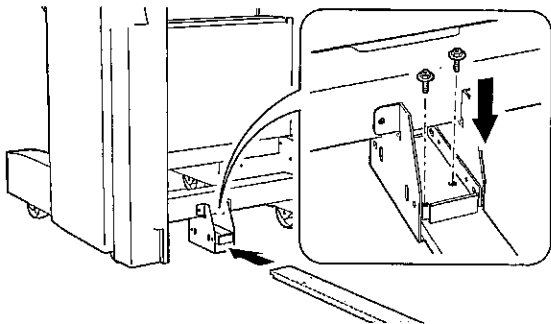


(3) Plate and connection plate installation

- 1) Install the plate to the finisher as shown in the figure, and fix it with the fixing screw G (1 pc).

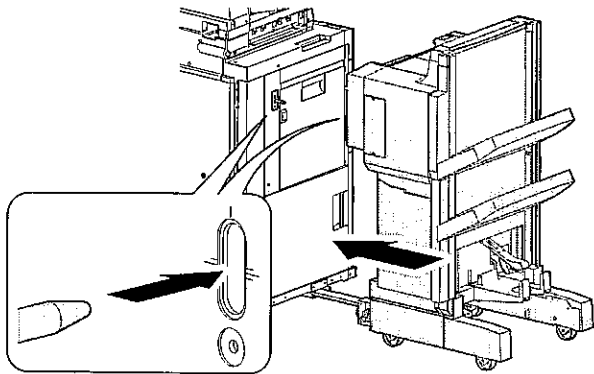


- 2) Install the rail and the finisher with two screws G (M4 x 6).

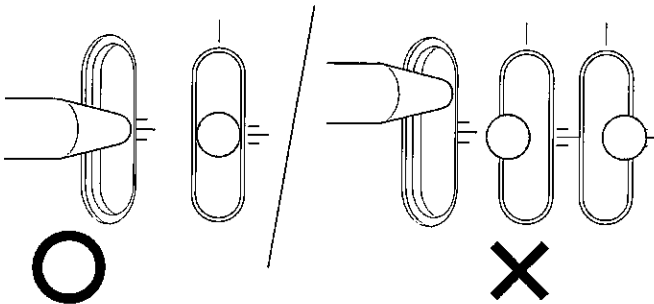


(4) Caster adjustment

- A. Bring the finisher closer to the main unit and check that the guide pin of the main unit enters into the connection hole in the finisher smoothly.

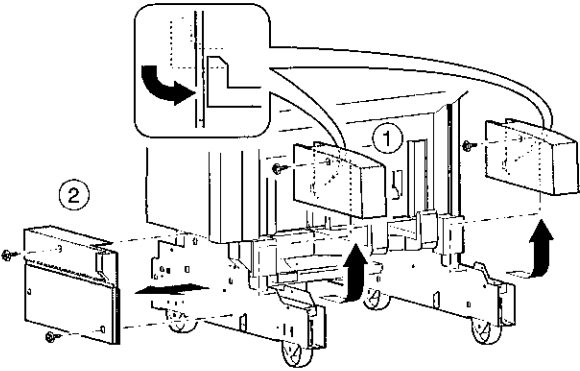


- B. At that time, check that the center of the guide pin is in the center of the scale marked on the side of the connection hole, and the pin direction coincides with the hole direction.

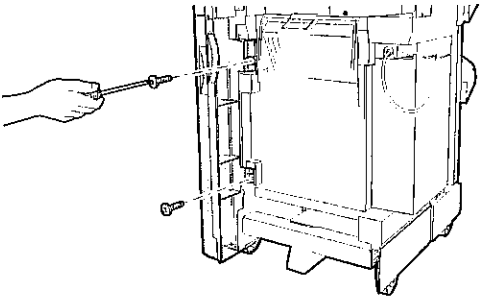


- C. If the guide pin is not in the center, or if the guide pin does not enter smoothly, adjust as follows:

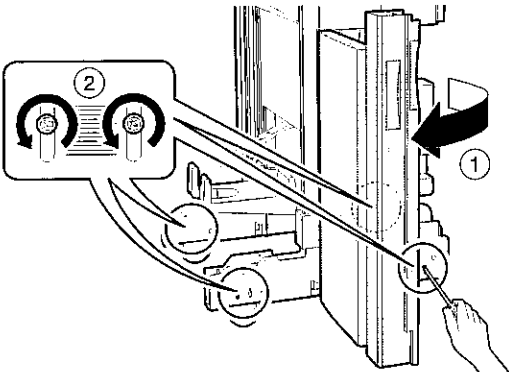
- 1) Remove the fixing screw of base cover (2 positions) in the front and the back of the finisher, and remove the base cover.
- 2) Remove the fixing screws (2 pcs.) of the rear cover on the rear of the finisher, and remove the rear cover.



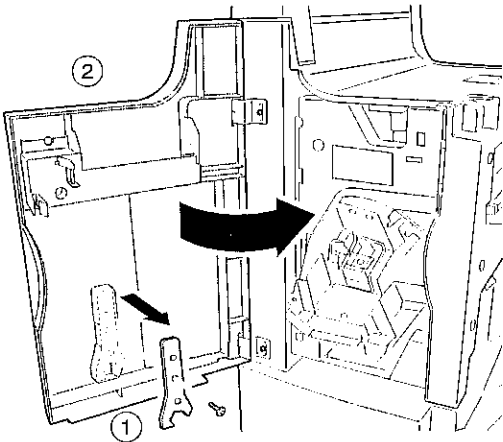
- 3) Only for the AR-F15, remove the front cabinet lower fixing screws (2 pcs.).



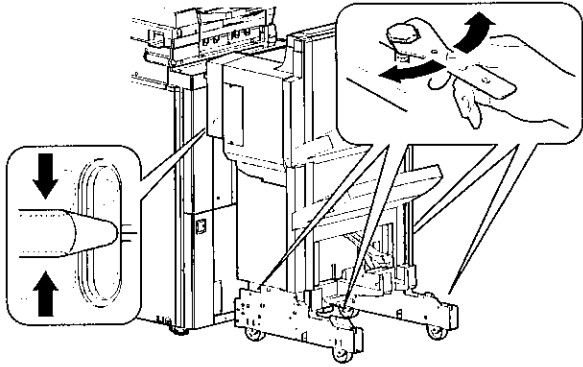
- 4) Open the front cabinet lower, and loosen the fixing screws (2 pcs for each) of four casters.



- 5) Remove the spanner stored inside of the front cabinet upper, and close the front cabinet upper.

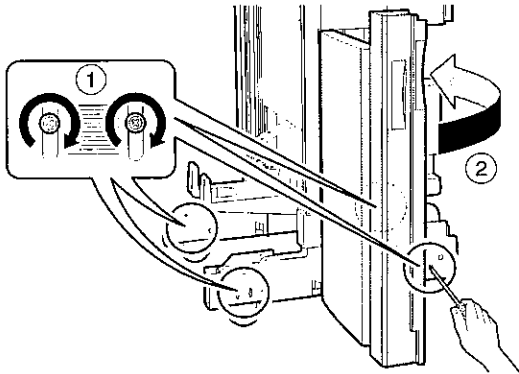


- 6) Turn the bolt with the removed spanner so that the guide pin is in the specified range of the scale.

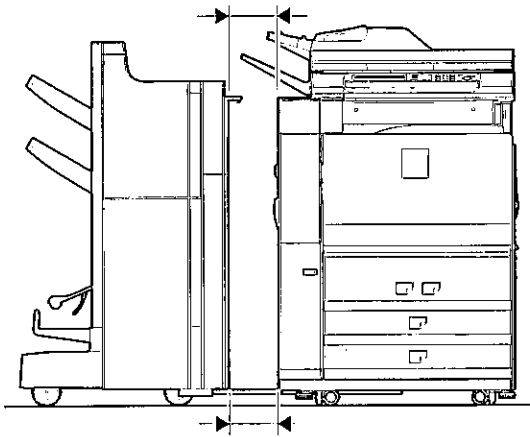


(At that time, lift the finisher a little, and the bolt can be turned manually.)

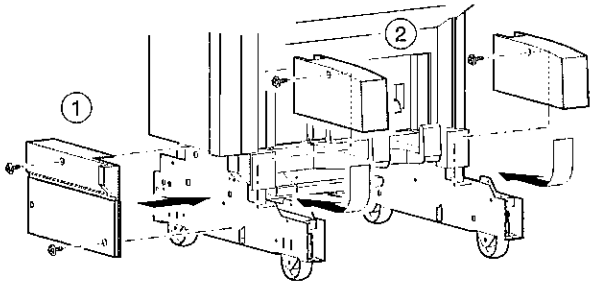
- 7) After completion of the adjustment, tighten the caster fixing screws (8 pcs.) and close the front cabinet lower.



- 8) Check to insure that the intervals at the upper and the lower sides of the main unit and the finisher are even.

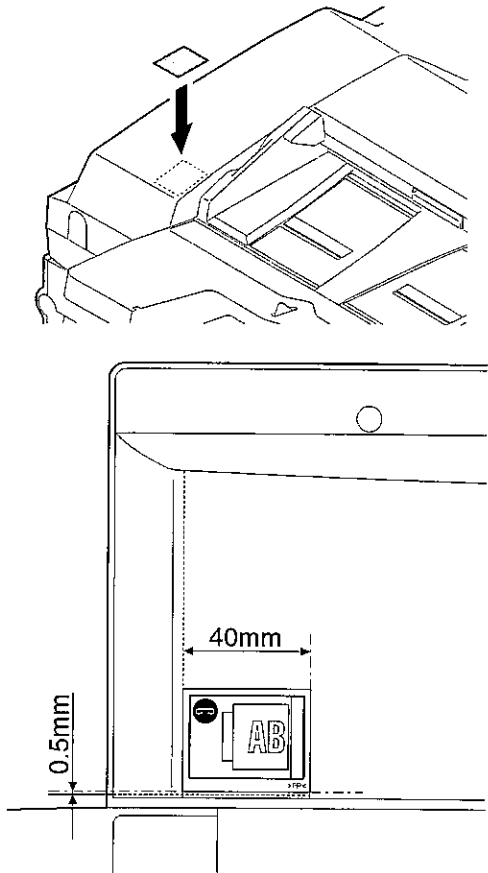


- 9) Attach the foot covers in front and at the back of the finisher and the rear cover on the rear side, and tighten all the fixing screws.

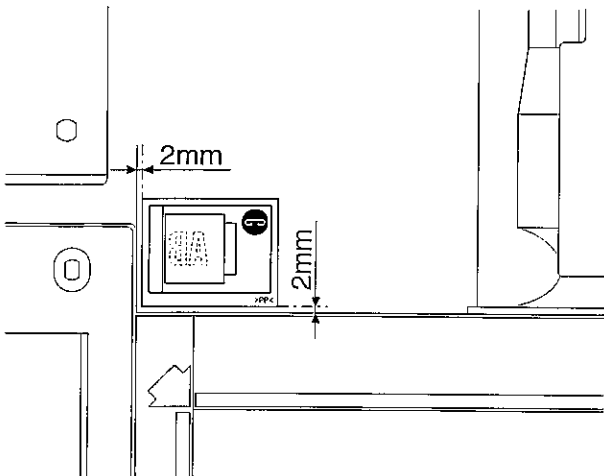
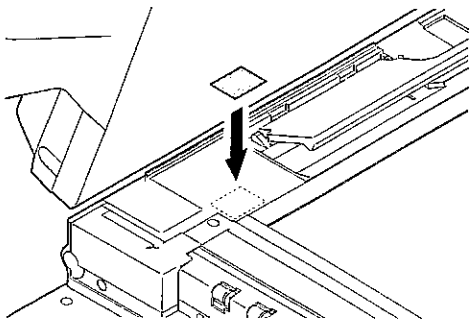


(5) Attach the staple position label.

Attach the staple position label as shown in the figure.

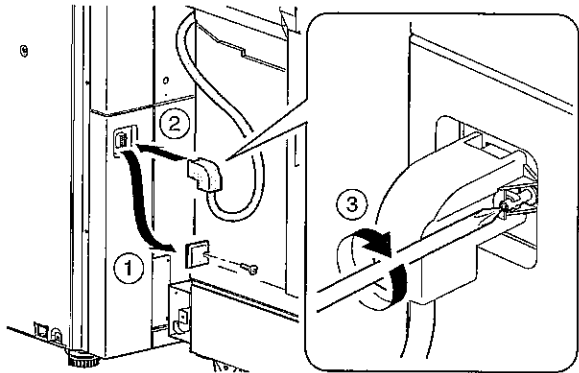


* The label attachment position shown above is based on the corner of the cabinet.



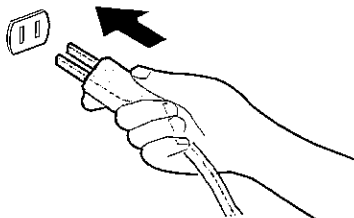
(6) Connect the finisher connector.

- A. Remove the connector cover fixing screw for connection of the finisher joint harness connector, and remove the connector cover.
- B. Connect the finisher relay harness connector to the main unit connector, and tighten the screw on the connector to fix.

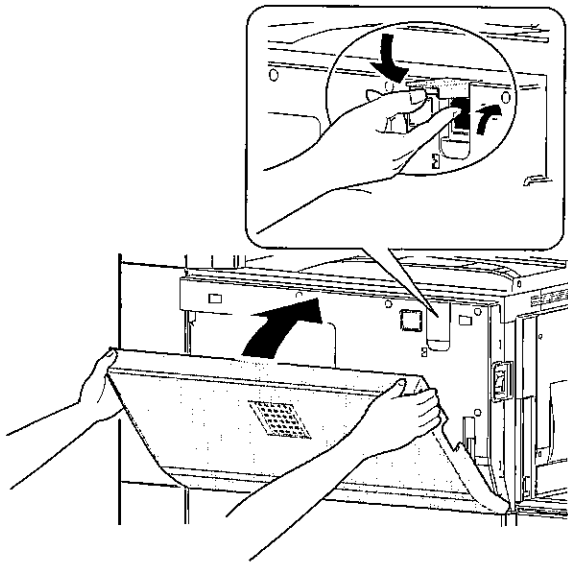


(7) Turn ON the main power switch.

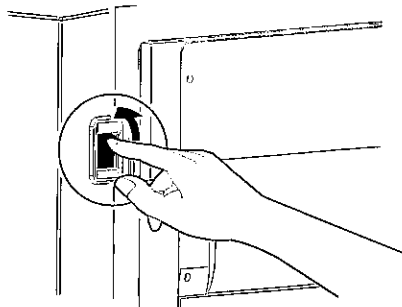
- 1) Insert the power plug of the main unit to the outlet.



- 2) Open the front cabinet, and open the power cover.



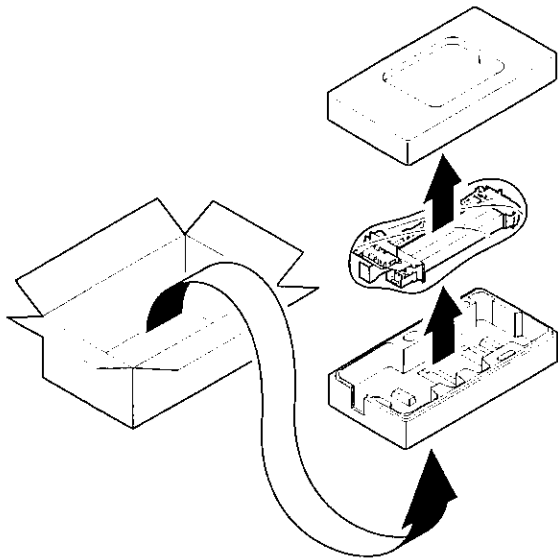
- 3) Turn ON the main power switch, close the power cover, and close the front cabinet.
- 4) Turn ON the power switch on the right side of the main unit.



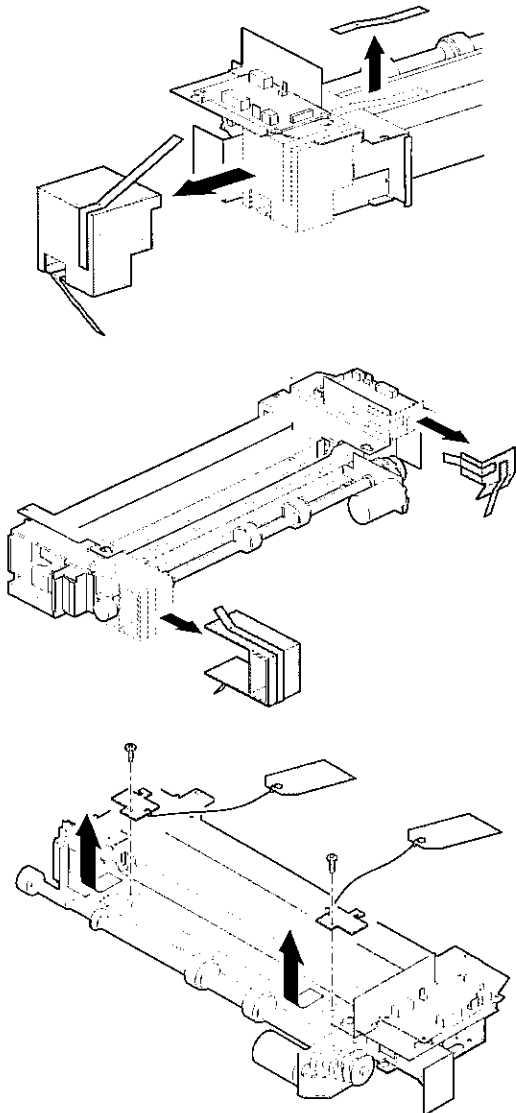
[5] AR-PN4 UNPACKING AND INSTALLATION

1. Unpacking

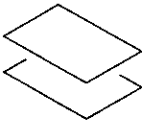
(1) Removal of the main unit



(2) Removal of the fixing member



Packaged parts (accessories)

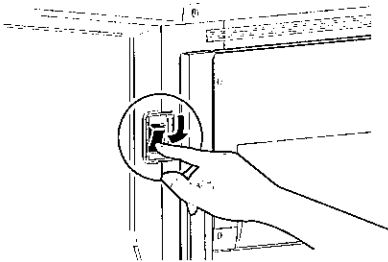


Punch position label	2 pcs.
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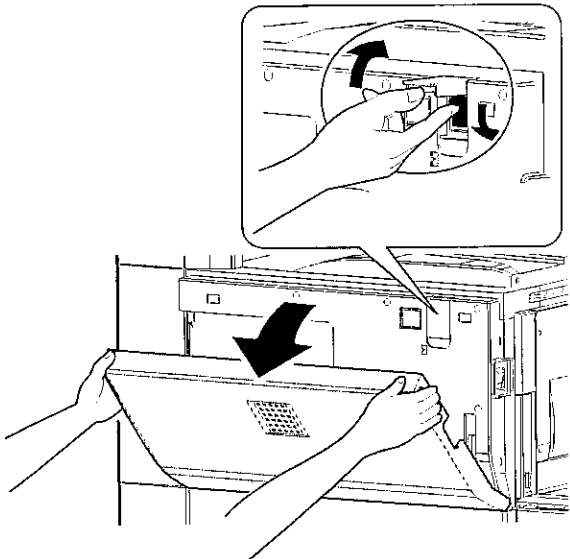
2. Installation

(1) Turn off the power of the main unit.

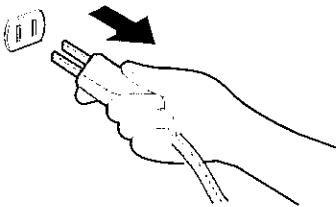
- 1) Turn OFF the power switch on the right side of the main unit.



- 2) Open the front cabinet, and turn OFF the main power switch.

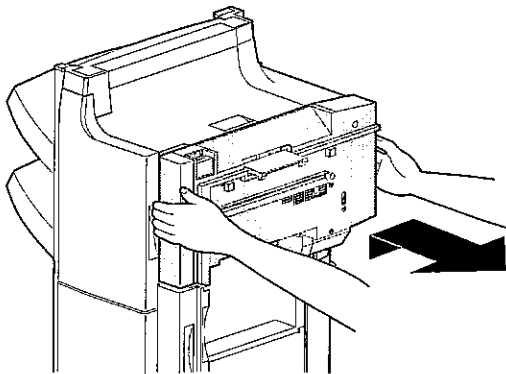
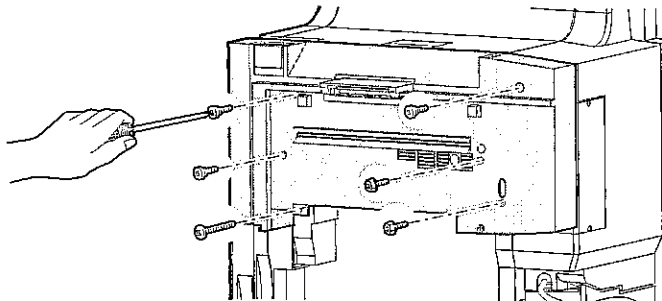


- 3) Disconnect the power plug from the power outlet.

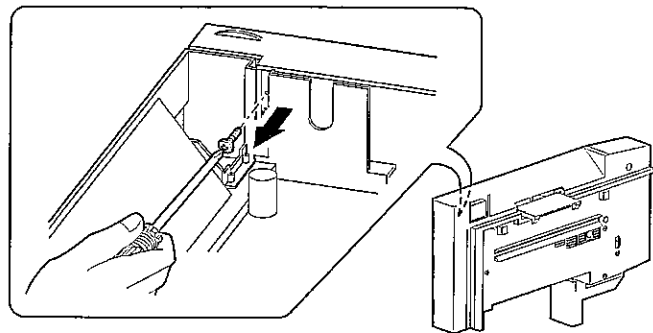


(2) Punch cover disassembly

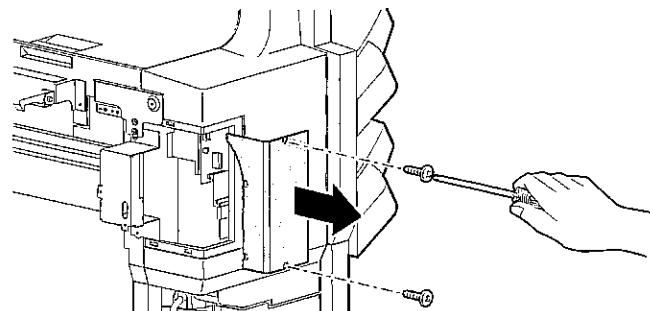
- 1) Remove the punch cover fixing screws (6 pcs.), and lift the punch cover slightly to remove it from the finisher.



- 2) Remove the fixing screw (1 pc.) of the punch cover front door from inside of the punch cover.

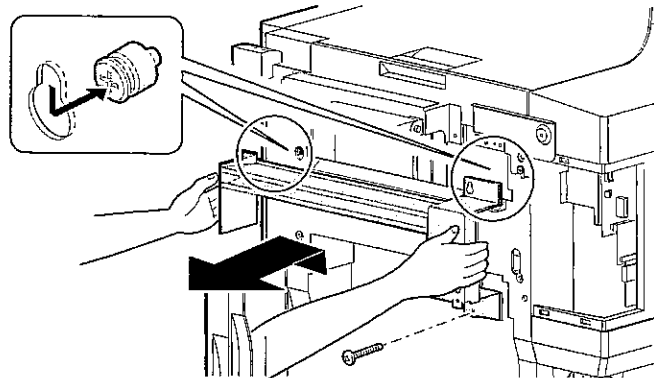


- 3) Remove the cabinet B fixing screws (2 pcs.) on the rear side of the finisher, and remove the rear cabinet B.



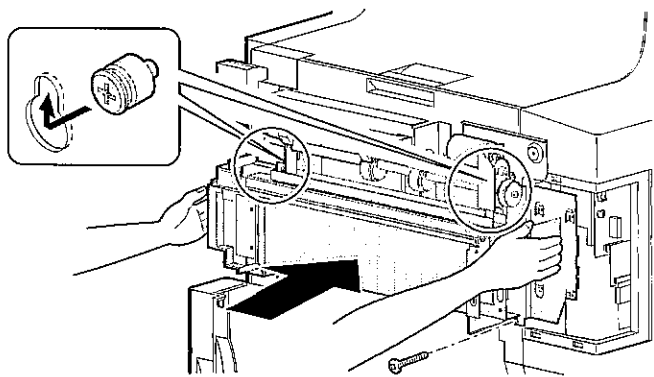
(3) Paper guide disassembly

- 1) Remove the paper guide fixing screw (1 pc.) and remove the paper guide from the finisher.



(4) Punch unit assembly

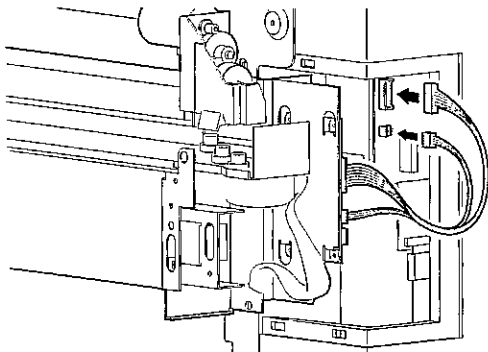
- 1) Hang the punch unit on the step screws (2 pcs.) of the finisher and assemble it.



- 2) Fix the punch unit with the paper guide fixing screw (1 pc.) which was removed in step (3).

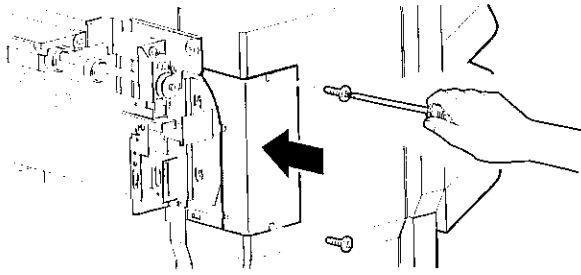
(5) Connector connection

- 1) Connect the punch joint harness connectors (2 pcs.) of the punch unit to the connectors (2 positions) of the finisher PWB.

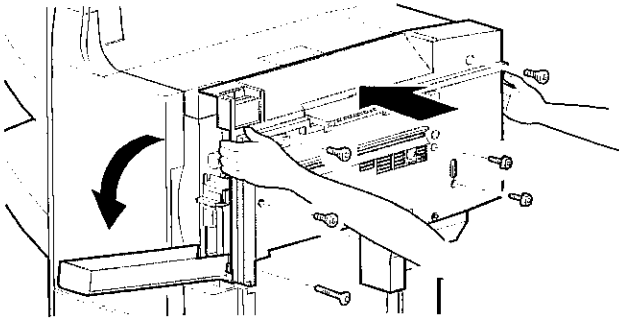


(6) Punch cover assembly

- 1) Attach the rear cabinet B to the original position, and fit it with the fixing screws (2 pcs.).



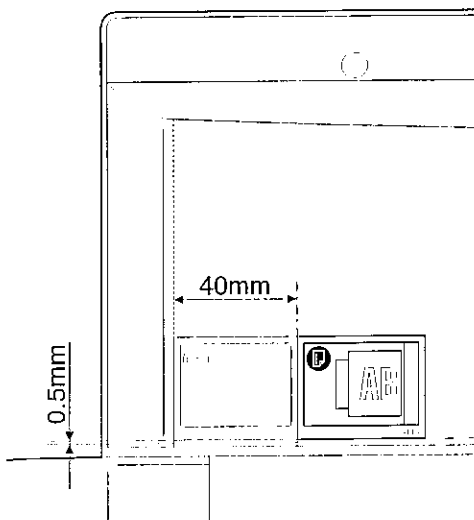
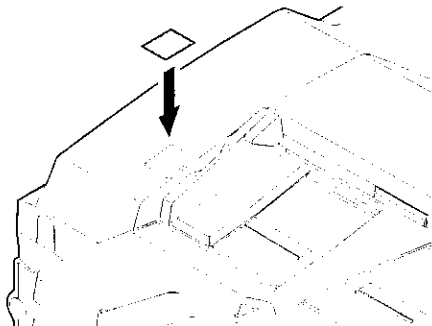
- 2) Open the front door of the punch cover, attach the punch cover to the original position, and fix it with the fixing screws (6 pcs.). In this case, use the fixing screws at their original positions.



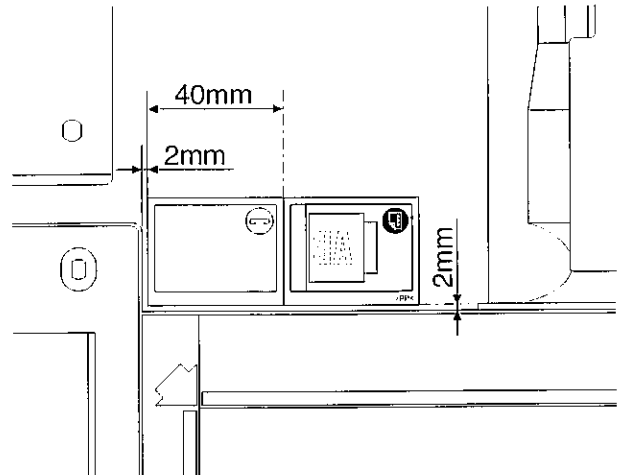
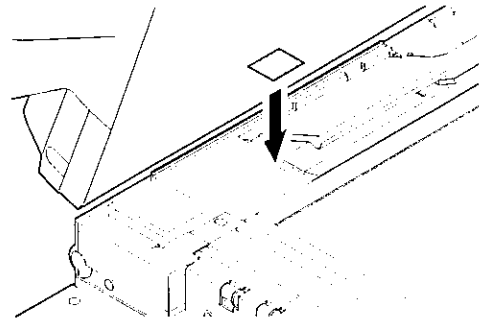
Memo: Open the lower cover before hand. This makes assembly easier.

(7) Position label attachment

- 1) Attach the punch position label as shown in the figure.

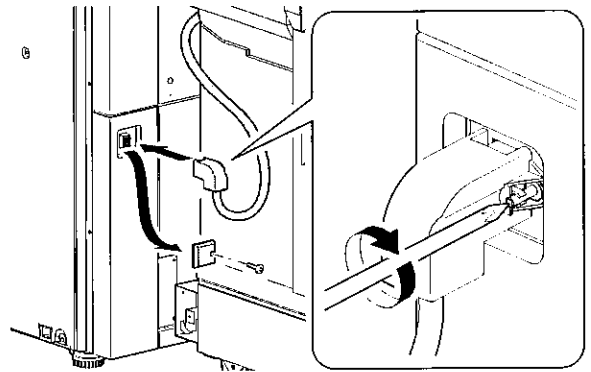


* The label attachment position shown above is based on the corner of the cabinet.



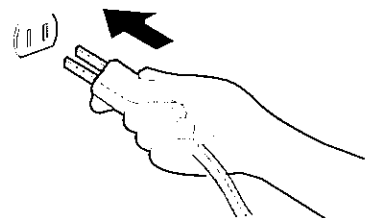
(8) Finisher connector connection

- 1) Remove the connector cover fixing screw for connection of the finisher joint harness connector, and remove the connector cover.
- 2) Connect the finisher joint harness connector to the main unit connector, and tighten the screw on the connector to fix.

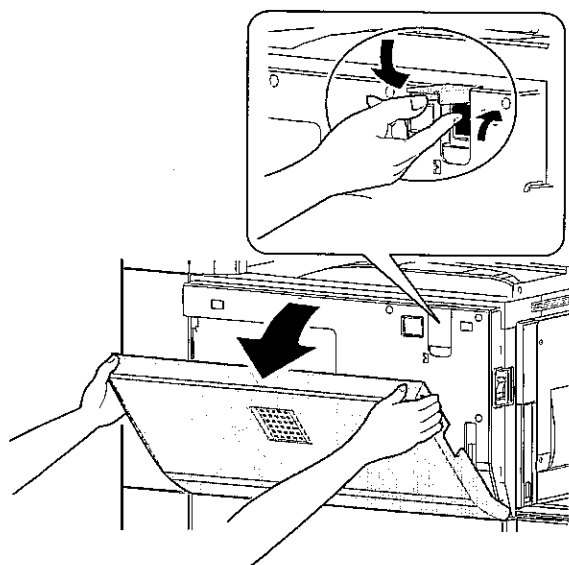


(9) Turn ON the main power switch.

- 1) Insert the power plug into the power outlet.

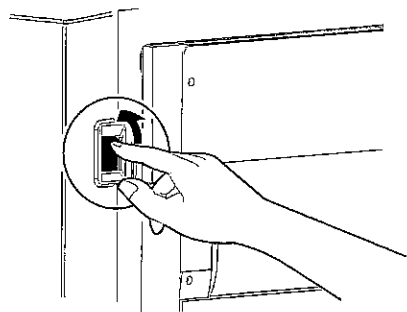


2) Open the front cabinet, and open the power cover.



3) Turn ON the main power switch, close the power cover, and close the front cabinet.

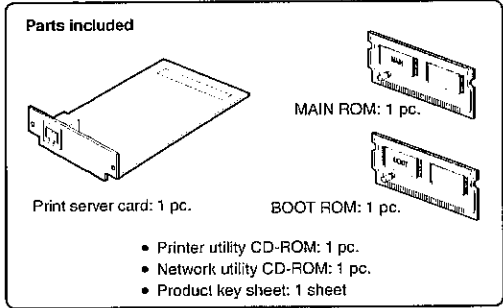
4) Turn ON the power switch on the right side of the main unit.



[6] AR-P19 INSTALLATION

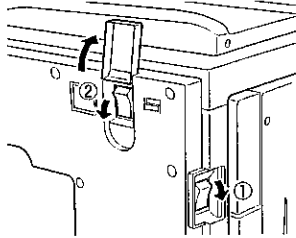
Before installation>

To enable the printer expansion function, the product key must be acquired.



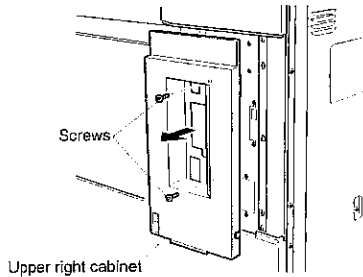
(1) Turn off the switches of the main unit.

- 1) Turn the power switch located on the right side of the main unit to the "OFF" position.
 - 2) Open the front cabinet and turn the main power switch to the "OFF" position.
- Remove the power plug of the main unit from the outlet.

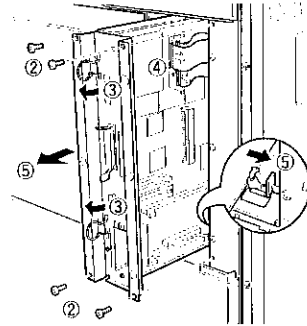


(2) Remove the control PWB.

- 1) Remove the two screws that secure the upper right cabinet and remove the upper right cabinet.
- * If cables are connected to the control PWB, remove all cables.



- 2) Remove the four screws that secure the control PWB unit to the main unit.
- 3) Raise the two grips and hold them to pull out the control PWB unit until the stopper is engaged.
- 4) Remove the two flat cable connectors.
- 5) While using your finger to release the stopper, pull the control PWB unit out of the main unit.

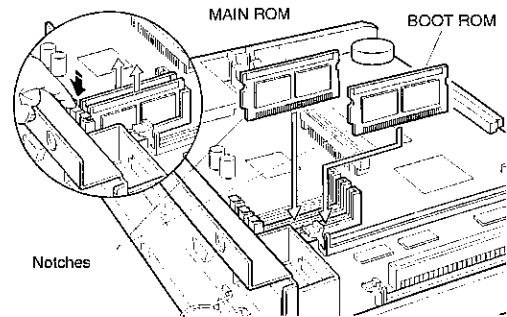


(3) Mount the printer expansion ROMs and a print server card to the control PWB.

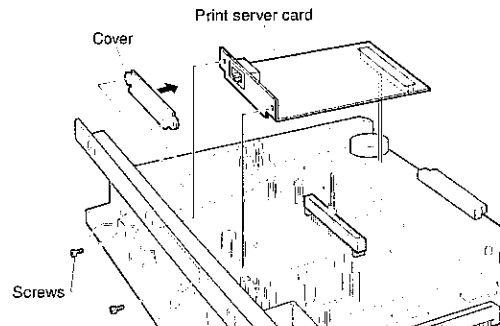
- 1) Remove the ROMs (MAIN and BOOT ROMs) from the control PWB and replace them with the two ROMs (MAIN and BOOT ROMs) of the printer expansion kit.

The MAIN and BOOT ROMs are indicated with "MAIN" and "BOOT" on the labels on the ROMs respectively.

When mounting the printer expansion kit ROMs, insert them to the same positions in the same orientations as those before replacement until they click and ensure that the inserted ROMs are locked with the sockets.

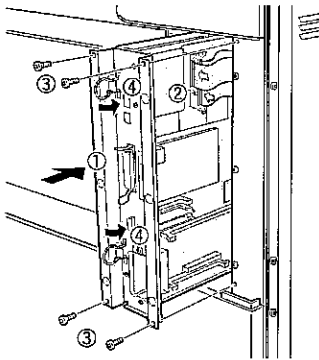


- 2) Remove the screws that secure the cover and remove the cover. Then, insert the connector of the print server card to the connector of the control PWB.
- 3) Secure the print server card using the screws that have been removed.



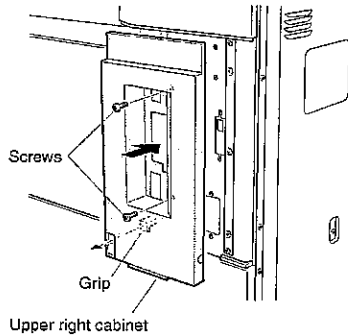
(4) Reattach the control PWB.

- 1) Reattach the control PWB unit to the main unit.
- 2) Reconnect the two flat cable connectors that have been removed in step (2).
- 3) Secure the unit with the four screws.
- 4) Return the grips to their original positions.



- 5) Pull out the grip of the main unit, pass it through the hole shown in the illustration, then reattach the upper right cabinet that has been removed in step (2) to the main unit, and secure it with the two screws.

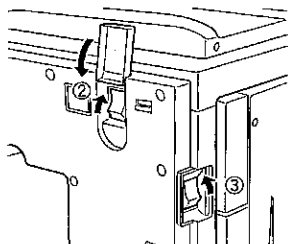
* Reconnect the cables that have been removed to the control PWB located on the side of the main unit.



If another peripheral device must be installed, carry out the following steps at the end of the installation work.

(5) Turn on the main switches of the main unit.

- 1) Insert the power plug of the main unit to the outlet.
- 2) Turn on the main power switch and then close the front cabinet.
- 3) Turn the main switch located on the right side of the main unit to the "ON" position.



(6) Enable the printer expansion function.

- 1) To enable the printer expansion function, use the keys on the operation panel to enter the product key.

For entry of the product key, see the section of key operator programs of the operation manual for the main unit.

After completing product key entry, turn off the power switch and the main power switch of the main unit and then turn on the power switch and the main power switch of the main unit again.

- 2) Carry out the network setting for the print server card.

Use the key operator programs to carry out the network setting for this machine.

For this network setting, the customer's network environment must be checked. Consult the network administrator to carry out the setting.

- 3) According to the customer's network environment, install the printer driver software using the supplied CD-ROM.

Installation of the driver software to the computer server and its setting must be performed by the customer or based on discussion with the customer.

(7) Check the operation of the printer expansion function.

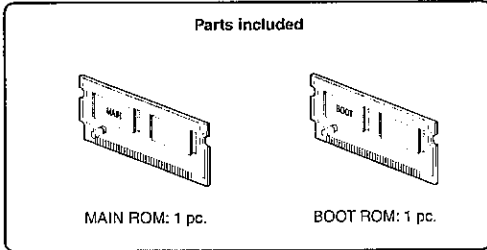
When installation of the printer driver is complete, carry out test page printing to check to see if printing and output can be performed normally.

(When test printing is complete, use the list print of in custom settings to print the network settings for this machine and keep the print carefully.)

[7] AR-FR11 INSTALLATION

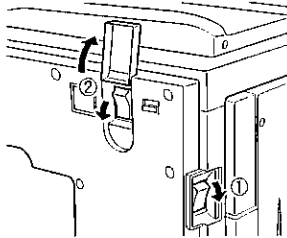
<Before installation>

- To enable the data security function, the product key must be acquired.
- If unfinished data remains in the memory of the main unit (including HDD), output or transmit all the data to clear the data remaining in the main unit and then start installation.



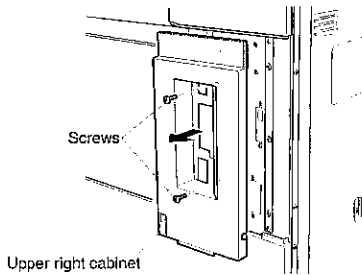
(1) Turn off the switches of the main unit.

- 1) Turn the power switch located on the right side of the main unit to the "OFF" position.
- 2) Open the front cabinet and turn the main power switch to the "OFF" position.
- 3) Remove the power plug of the main unit from the outlet.

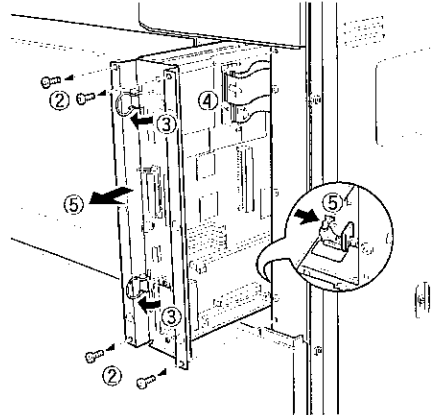


(2) Remove the control PWB.

- 1) Remove the two screws that secure the upper right cabinet and remove the upper right cabinet.
- * If cables are connected to the control PWB, remove all cables.



- 2) Remove the four screws that secure the control PWB unit.
- 3) Raise the two grips and hold them to pull out the control PWB unit until the stopper is engaged.
- 4) Remove the two flat cable connectors.
- 5) While using your finger to release the stopper, pull the control PWB unit out of the main unit.

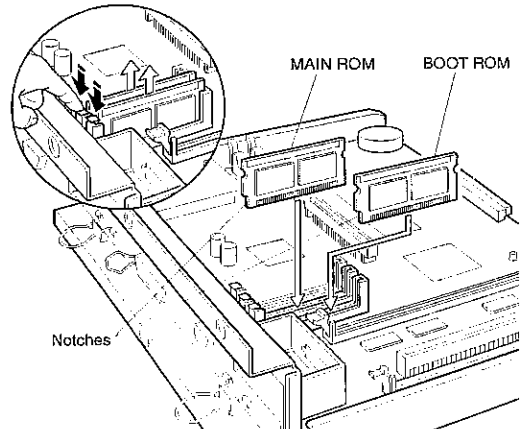


(3) Mount the data security kit ROMs to the control PWB.

Remove the ROMs (MAIN and BOOT ROMs) from the control PWB and replace them with the two ROMs (MAIN and BOOT ROMs) of the data security kit.

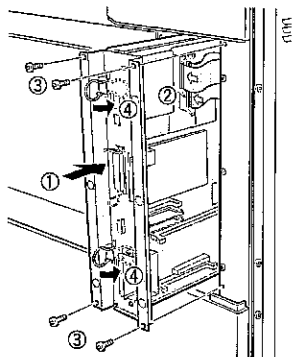
The MAIN and BOOT ROMs are indicated with "MAIN" and "BOOT" on the labels on the ROMs respectively.

When mounting the data security kit ROMs, insert them to the same positions in the same orientations as those before replacement until they click and ensure that the inserted ROMs are locked with the sockets.



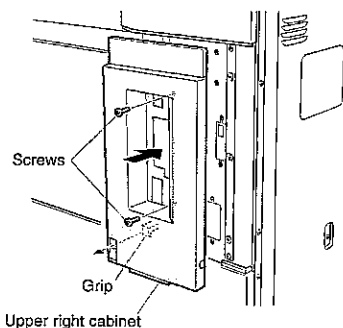
(4) Reattach the control PWB.

- 1) Reattach the control PWB unit to the main unit.
- 2) Reconnect the two flat cable connectors that have been removed in step (2).
- 3) Secure the unit with the four screws.
- 4) Return the grips to their original positions.



- 5) Pull out the grip of the main unit, pass it through the hole shown in the illustration, then reattach the upper right cabinet that has been removed in step (2) to the main unit, and secure it with the two screws.

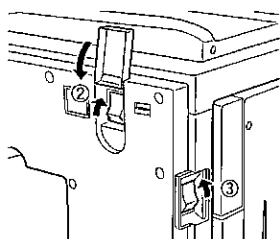
* Reconnect all the cables that have been removed in step (2)-1) to the control PWB.



If another peripheral device must be installed, carry out the following steps at the end of the installation work.

(5) Turn on the main switches of the main unit.

- 1) Insert the power plug of the main unit to the outlet.
- 2) Turn on the main power switch and then close the front cabinet.
- 3) Turn the main switch located on the right side of the main unit to the "ON" position.



(6) Make preparations for enabling the data security function.

To enable the data security function, use the keys on the operation panel to enter the product key.

For entry of the product key, see the section of key operator programs of the operation manual for the main unit.

After completing product key entry, turn off the power switch and the main power switch of the main unit and then turn on the power switch and the main power switch again.

(7) Make user settings of the data security function.

You can make operation settings of the data security function using a key operator program.

If some files have been stored using the quick file function before installation of AR-FR11, be sure to execute [CLEAR ALL MEMORY] after installation to delete all the stored files.

[8] AR-PK5 INSTALLATION

Before installation>

- To enable the PS expansion function, the product key must be acquired.
- For models on which the printer and network functions cannot be used, a printer expansion ROM and a Print Server Card must be installed in advance.

Parts included

- CD-ROM: 1 pc.
- Product key sheet: 1 sheet

(1) Enable the PS expansion function.

To enable the PS expansion function, use the keys on the operation panel to enter the product key.

For entry of the product key, see the online manual included in the supplied CD-ROM or the section of key operator programs of the operation manual for the main unit.

After completing product key entry, turn off the power switch and the main power switch of the main unit and then turn on the power switch and the main power switch of the main unit again.

(2) Check the operation of the PS expansion function.

- 1) Use the keys on the operation panel to execute test page printing and print the PS FONT LIST as a test print.
- 2) Installation of the driver software to the computer server and its setting must be performed by the customer or based on discussion with the customer.
For installation of the driver software, see the installation guide.
- 3) Finally, execute printing from the computer server and check that printing is performed normally.

[9] AR-NS3 INSTALLATION

<Before installation>

- To enable the scanner function, the product key must be acquired.
- For models on which the printer and network functions cannot be used, a printer expansion ROM and a Print Server Card must be installed in advance.

Parts included

- CD-ROM: 1 pc.
- Product key sheet: 1 sheet
- Installation guide: 1 sheet

(1) Enable the scanner function.

To enable the scanner function, use the keys on the operation panel to enter the product key.

For entry of the product key, see the section of key operator programs of the operation manual for the main unit.

After completing product key entry, turn off the power switch and the main power switch of the main unit and then turn on the power switch and the main power switch of the main unit again.

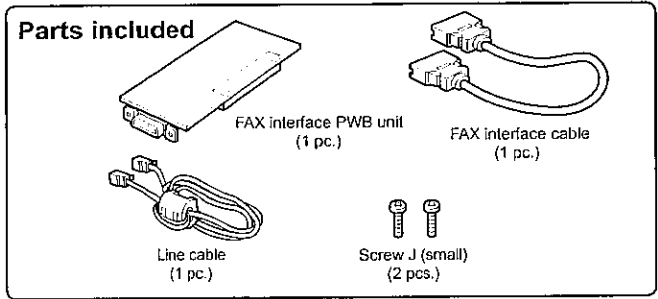
(2) Check the operation of the scanner function.

- 1) Installation of the driver software to the computer server and its setting must be performed by the customer or based on discussion with the customer.
- 2) Finally, referring to the installation guide, set the destination profile. Send image data and check that the image is properly received.

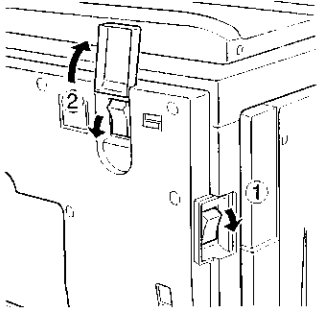
[10] AR-FX8/AR-MM9 INSTALLATION

Before installation>

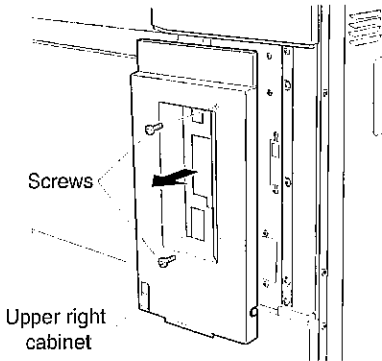
- For installation of AR-FX8, the MFP control PWB unit must have been installed.
- Start installation after checking that the LINE indicator and the DATA indicator below it on the operation panel are neither lit nor blinking.



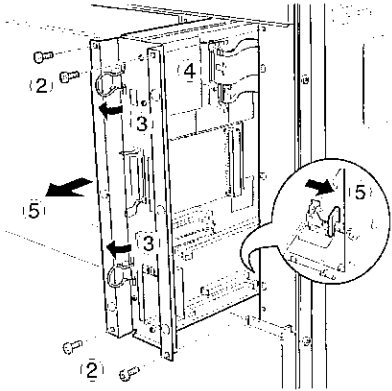
- 1) Turn off the power switch of the main unit.
<1> Turn the power switch located on the right side of the main unit to the "OFF" position.
<2> Open the front cabinet and turn the main power switch to the "OFF" position.
<3> Remove the power plug of the main unit from the outlet.



- 2) Remove the MFP control PWB.
<1> Remove the two screws that secure the upper right cabinet and remove the upper right cabinet.

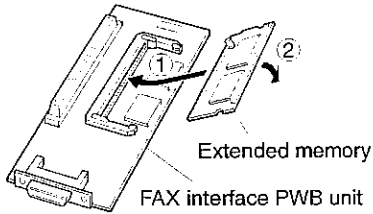


- <2> Remove the four screws that secure the MFP control PWB unit to the main unit.
- <3> Raise the two grips and hold them to pull out the MFP control PWB unit until the stopper is engaged.
- <4> Remove the two flat cable connectors.
- <5> While using your finger to release the stopper, pull the MFP control PWB unit out of the main unit.

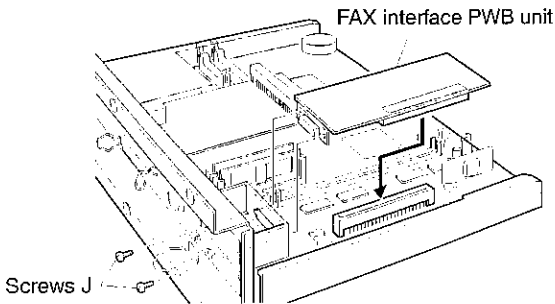


<Step for mounting extended memory (AR-MM9)>

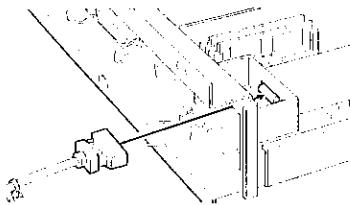
- * If you need not mount an extended memory, proceed to step 4).
- 3) Mount an extended memory.
Mount an extended memory to the socket located on the back of the FAX interface PWB unit.



- 4) Attach the FAX interface PWB unit.
Connect the FAX interface PWB unit to the FAX interface PWB connector (100 pin) on the MFP control PWB unit and secure it with two screws J.



- 5) Connect the FAX interface cable.
Connect the FAX interface cable to the MFP control PWB unit.



<Caution>

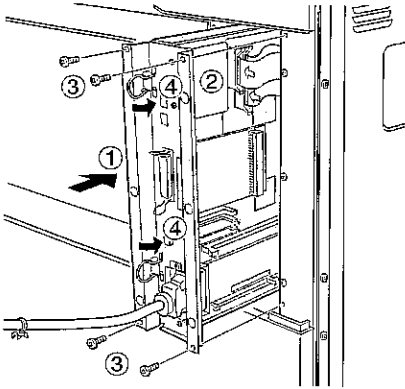
Ensure that both ends of the connector are securely locked and the connector is not inserted at an angle.

- 6) Reattach the MFP control PWB unit.
<1>Reattach the MFP control PWB to the main unit.
<2>Connect the two flat cable connectors that have been removed in step 2).

<Caution>

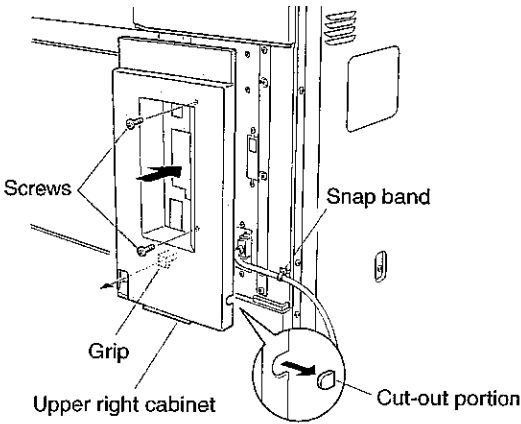
Ensure that both ends of the connector are securely locked and the connector is not inserted at an angle.

- <3>Secure the unit with four screws.
<4>Return the grips to their original positions.

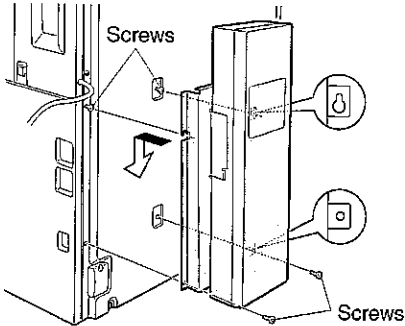


- 7) Reattach the upper right cabinet.
Secure the snap band of the FAX interface cable.
Then, remove the cut-out portion for cable arrangement from the upper right cabinet that has been removed in step 2).

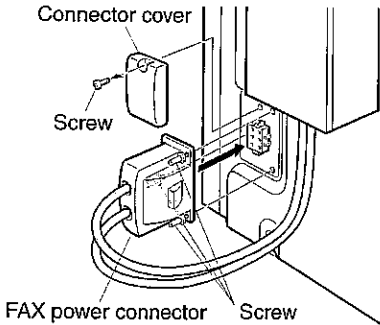
Pull out the grip of the main unit, pass it through the hole shown in the illustration, then attach the upper right cabinet to the main unit, and secure it with the two screws.



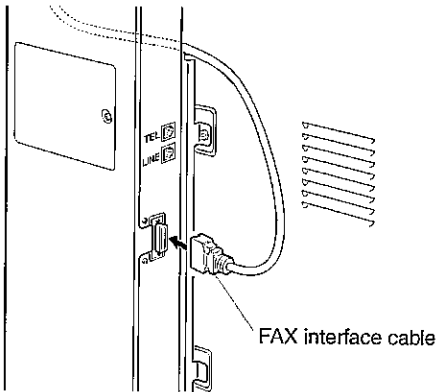
- 8) Attach the FAX box unit.
Among the four screws shown in the illustration that secure the rear cabinet, remove the lower two screws and loosen the upper two screws.
Then, hang the FAX box unit on the two loosened screws and secure it with the two removed screws.
Finally, tighten the two loosened upper screws to secure the FAX box unit.



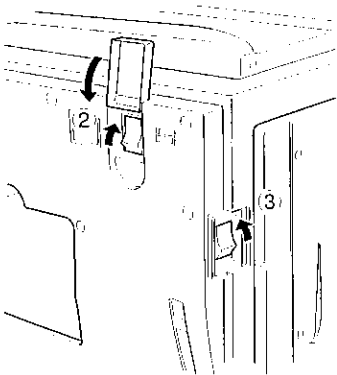
- 9) Connect the FAX power connector.
Remove the screw that secures the connector cover on the main unit for connection with the FAX power connector.
Then, connect the FAX power connector to the connector on the main unit and tighten the three screws on the connector to secure the connector.



- 10) Connect the FAX interface cable to the FAX box unit.
Pass the FAX interface cable behind the FAX box unit and connect it to the FAX box unit.



- 11) Turn on the main power switch and the power switch of the main unit.
 - >Insert the power plug of the main unit to the outlet.
 - >Turn on the main power switch.
 Then, close the front cabinet.
- <3>Turn on the power switch located on the right side of the main unit.



- 12) Set the destination of the main unit.
 - * Be sure to set the destination of the main unit before setting the destination of the FAX.
 - >Switch the operation panel to the copy mode and use the key operation [P], [F], [C], and [M] to enter the simulation mode.
- <2>Use the 10-key pad to enter "26" in the main code entry screen shown below and press the START key.

SIMULATION
INPUT A MAIN PROGRAM NUMBER BY 10-KEY PAD, AND PRESS START.

26

- <3>Use the 10-key pad to enter "6" in the sub-code entry screen shown below and press the START key.

SIMULATION 26
INPUT A SUB PROGRAM NUMBER BY 10-KEY PAD, AND PRESS START.

3. AUDITOR SETUP.

5. A3 (LEDGER) COUNT UP MODE SETTING.

6. DESTINATION SETUP

-

-

6

- <4>Use the 10-key pad to enter the number of the desired destination in the submenu screen shown below and press the START key.
 (For example, to set the UK as the destination, enter "7" and press the START key.)

- * When the START key is pressed, the machine will be automatically rebooted and will start with the setting of the selected destination.

SIMULATION 26-6
DESTINATION SETUP. SELECT 1-10, AND PRESS START.

1. USA

2. CANADA

3. INCH

4. JAPAN

5. AB_B

6. EUROPE

7. UK

8. AUSTRALIA

9. AB_A

10. CHINA

7

- 13) Set the destination of the FAX.
 - <1>Switch the operation panel to the copy mode and use the key operation [P], [F], [C], and [M] to enter the simulation mode.
- <2>Use the 10-key pad to enter "66" in the main code entry screen shown below and press the START key.

SIMULATION
INPUT A MAIN PROGRAM NUMBER BY 10-KEY PAD, AND PRESS START.

66

- <3>Use the 10-key pad to enter "2" in the sub-code entry screen shown below and press the START key.

SIMULATION 66
INPUT A SUB PROGRAM NUMBER BY 10-KEY PAD, AND PRESS START.
SWITCHING OF MENU : [#]

1. FAX SOFT SW. SETTING.

2. FAX SOFT SW.CLEAR.

-

-

-

-

2

- <4>Select the number of the desired destination referring to COUNTRY CODE TABLE, use the 10-key pad to enter the number in the submenu screen shown below and press the START key.
 (For example, to set the UK as the destination, enter "10110100" and press the START key.)

SIMULATION 66-2
FAX SOFT SW. CLEAR(WITHOUT ADJUSTMENT VALUE).
INPUT COUNTRY CODE, AND PRESS START.

1 2 3 4 5 6 7 8

10110100

- <5>Check the destination in the screen shown below. If the display is correct, use the 10-key pad to enter "1"(YES) and press the START key.

SIMULATION 66-2
FAX SOFT SW. CLEAR. ARE YOU SURE?

U.K

1. YES

2. NO

1

- <6>Press the CA key.
 - * The machine is automatically rebooted and starts with the setting of the selected FAX destination.

COUNTRY CODE TABLE

Destination	FAX Software SW No.1 - 8							
U.S.A	1	0	1	1	0	1	0	1
AUSTRALIA	0	0	0	0	1	0	0	1
NEWZEALAND	0	1	1	1	1	1	1	0
U.K.	1	0	1	1	0	1	0	0
FRANCE	0	0	1	1	1	1	0	1
GERMANY	0	0	0	0	0	1	0	0
SWEDEN	1	0	1	0	0	1	0	1

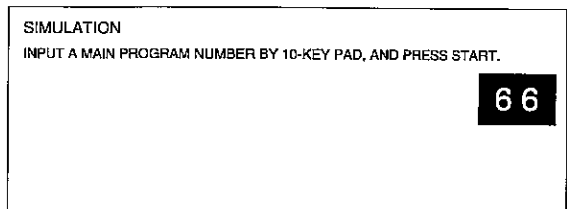
14) Clear the image memory.

* If an extended memory (AR-MM9) has been mounted in step 3), be sure to carry out this step.

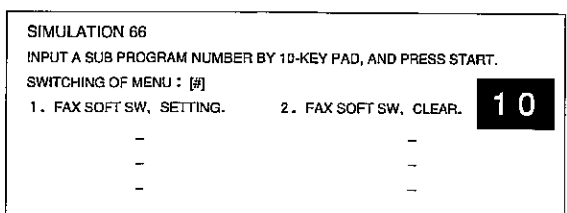
If no extended memory has been mounted, this step is not necessary.

<1>Switch the operation panel to the copy mode and use the key operation [P], [*], [C], and [*] to enter the simulation mode.

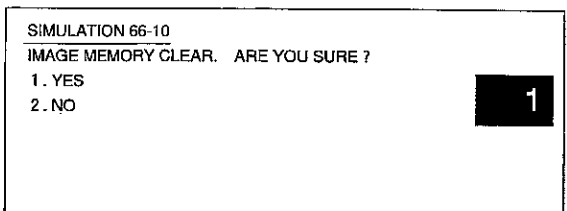
<2>Use the 10-key pad to enter "66" in the main code entry screen shown below and press the START key.



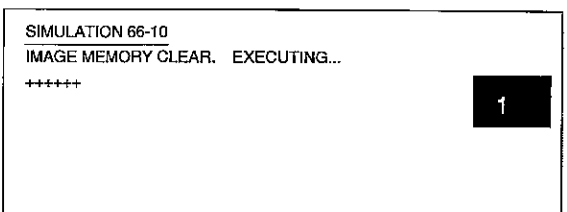
<3>Use the 10-key pad to enter "10" in the sub-code entry screen shown below and press the START key.



<4>Use the 10-key pad to enter "1" in the submenu screen shown below and press the START key.



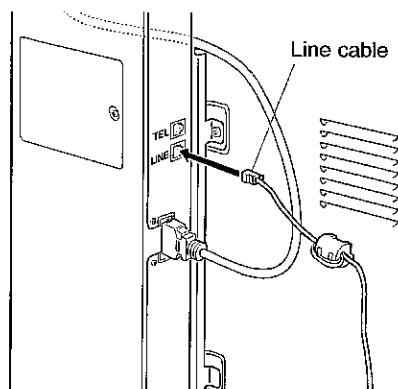
<5>The screen shown below is displayed and memory clear operation is executed.



<6>After several minutes, memory clear operation is completed and then the main unit is rebooted automatically.

15) Connect the line cable to the FAX box unit.

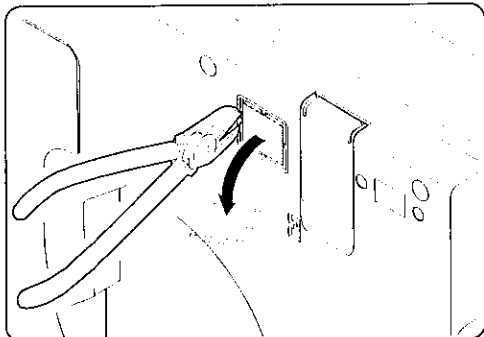
Connect the line cable to the FAX box unit.



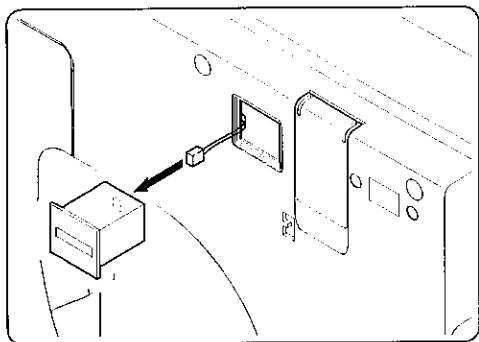
[11] MECHANICAL COUNTER INSTALLATION

NOTE: The mechanical counter (KCOUM0027FCZZ) is treated as a service part. When ordering, order as a service part.

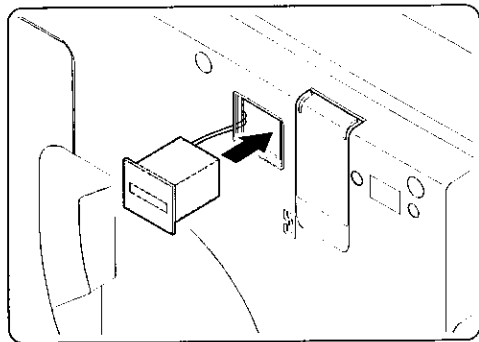
- 1) Open the front cabinet of the main unit, and cut off the counter cover with a cutter and pliers.



- 2) Connect the connector on the mechanical counter side with the connector on the main unit side.



- 3) Insert the mechanical counter into the main unit and fit it securely.

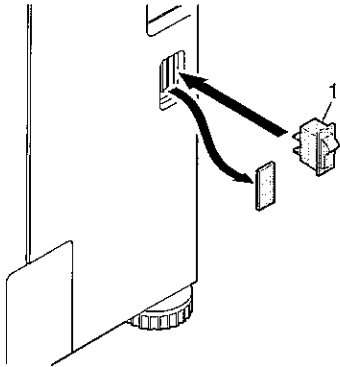


[12] DRY HEATER INSTALLATION

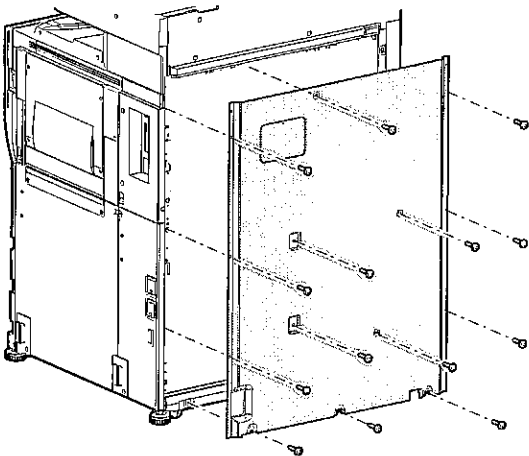
1. Dry heater switch and dehumidifying heater relay PWB installation

No.	Part name	Part code	Q'ty
1	Dehumidifying heater switch	QSW-C1030QCZZ	1
2	Supporter	LSUPP0118FCZZ	4
3	Dehumidifying heater relay PWB	CPWBF1569FCE1	1
4	ACWH harness	DHAI-3525FCZZ	1

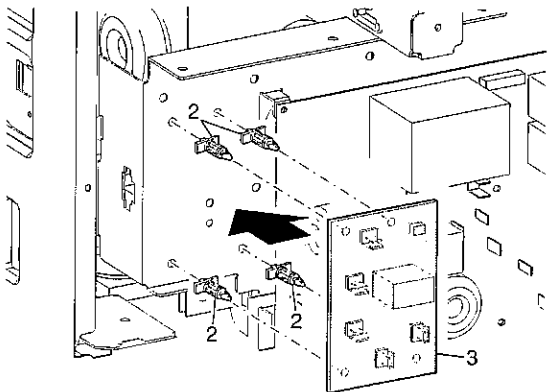
1) Cut off the slit cover with nippers, and install the dehumidifying heater switch.



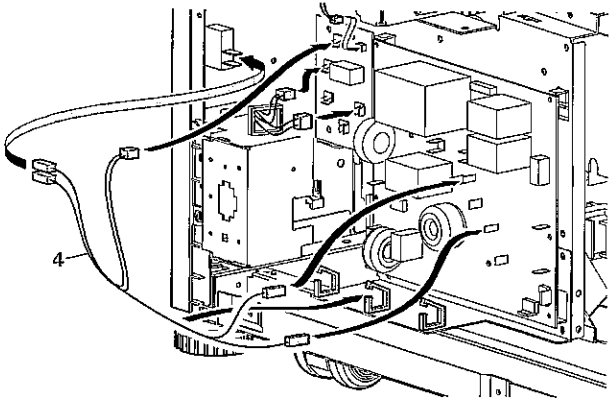
2) Remove the rear cabinet.



3) Install the supporter and install the dehumidifying heater relay PWB.



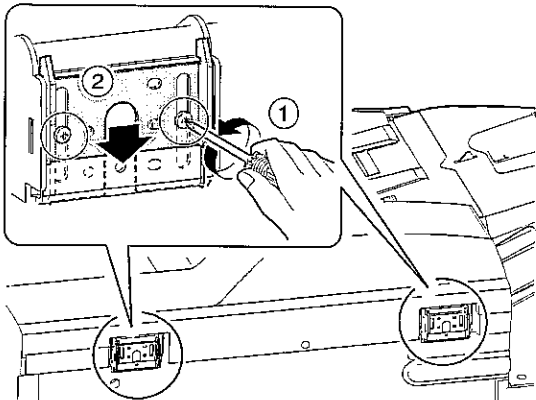
4) Connect the ACWH harness and pass it through the wire saddle.



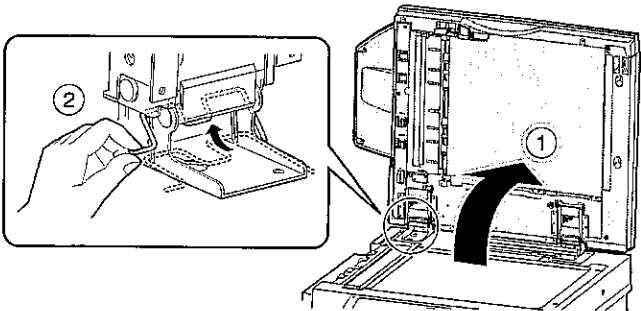
2. Scanner dry heater installation

No.	Part name	Part code	Q'ty
1	Scanner dry heater (120V)	RHETP0113FCZZ	1
	Scanner dry heater (230V)	RHETP0105FCZZ	
2	Screw (M3 x 4S tight)	XHBSD30P04000	2
3	Clamp (HP-4N)	LBNDJ0002FCZZ	2
4	Screw (M3 x 8)	XHBSD30P08000	2
5	Clamp (YMC-15-00)	LHLDW7003XCZZ	6
6	SCN WH harness	DHAI-3540FCZZ	1

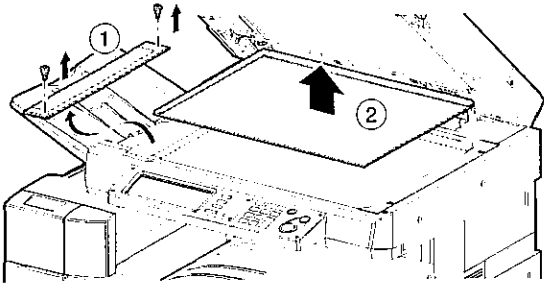
1) Loosen the screw, and push down the metal fixture.



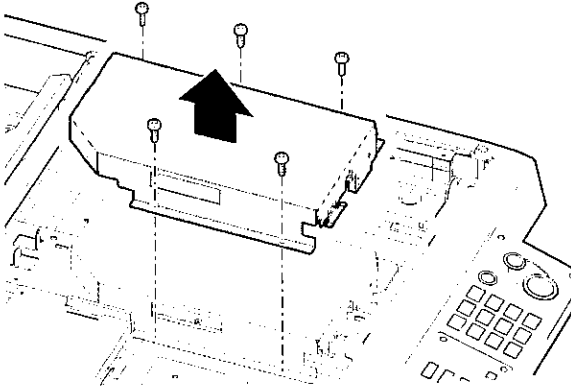
2) Open the SPF, and slide the SPF drop-prevention stopper pin on the hinge L to the drop-prevention position.



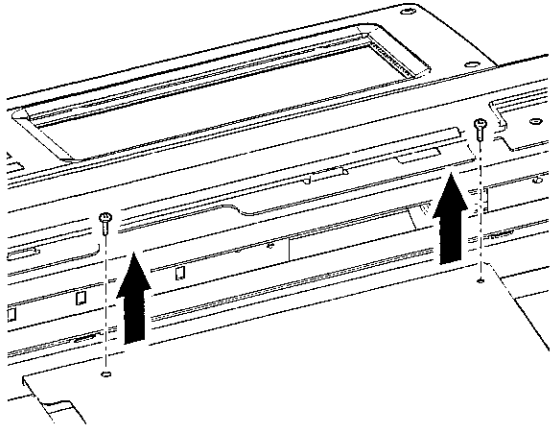
3) Remove the white reference glass unit, and remove the table glass.



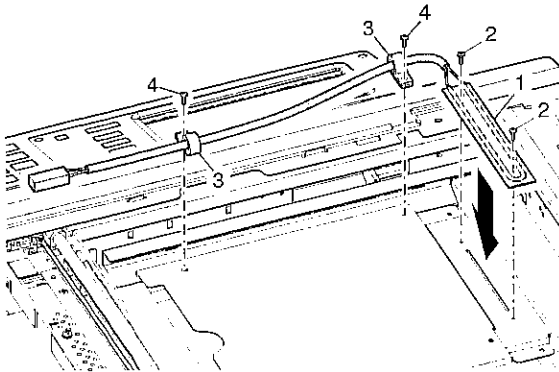
4) Remove the dark box.



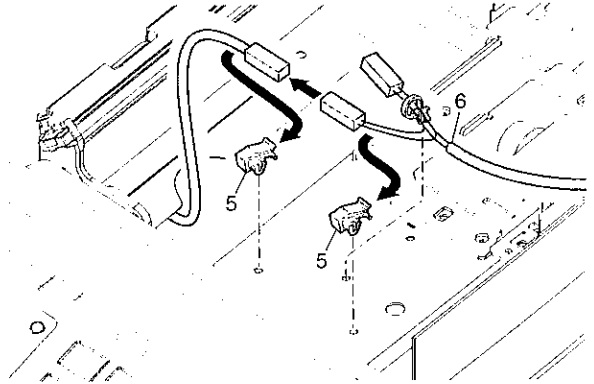
5) Remove the screws.



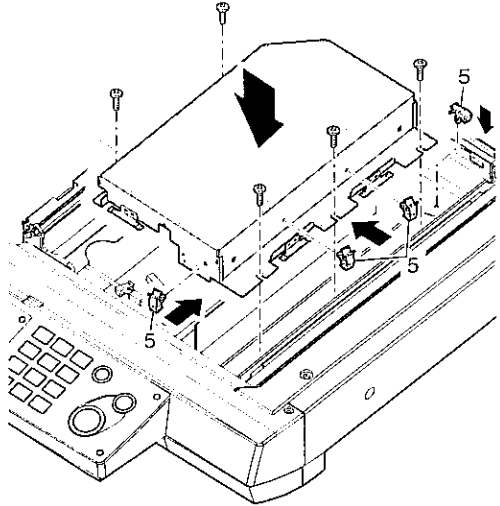
Install the scanner dry heater.



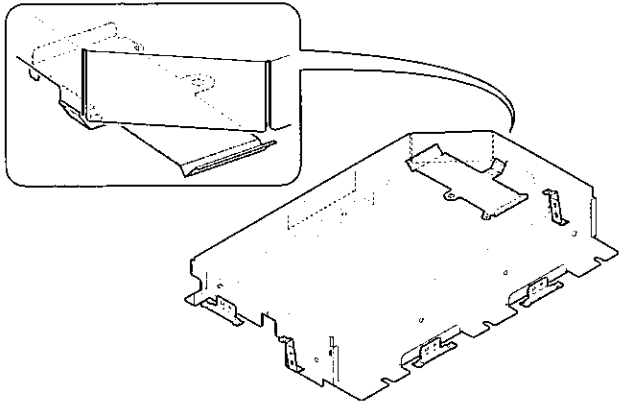
7) Install the clamp, connect the SCN WH harness, and pass it through the clamp and fix with the snap band.



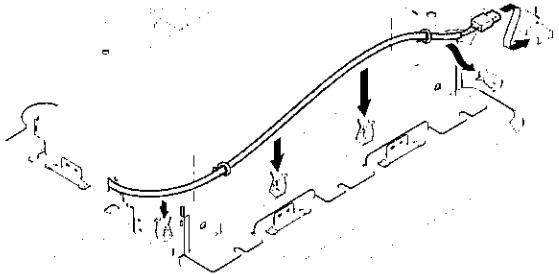
8) Install the clamp, and install the dark box to the scanner base plate.



NOTE: When installing the dark box, check to insure that the blade spring is in the original position.



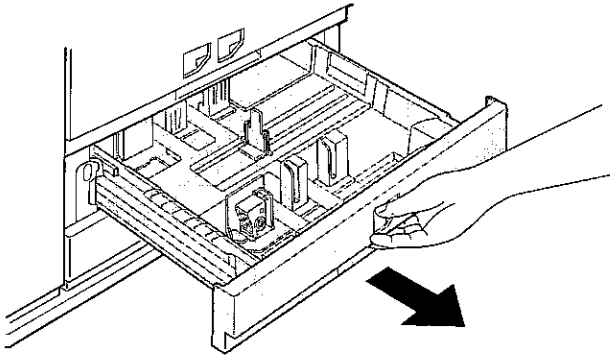
9) Pass the SCN WH harness through the clamp and fix it with the snap band. Connect the connector.



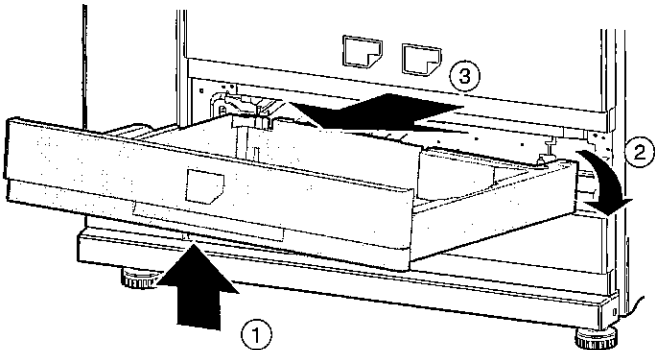
3. Dry heater (Paper feed trays 1, 2) installation

No.	Part name	Part code	Q'ty
1	Heater mounting plate	LPLTM6089FCZZ	1
2	Heater harness sheet	PSHEZ5135FCZZ	1
3	Dry heater (120V) (Paper feed trays 1, 2)	RHETP0118FCZZ	1
	Dry heater (230V) (Paper feed trays 1, 2)	RHETP0123FCZZ	
4	Screw (M3 x 8)	XHBSD30P08000	3
5	Heater cover	PCOVP1654FCZ1	1
6	Heater cover sheet	PSHEZ5012FCZZ	1
7	Heat-resistant clamp	LHLDW0433FCZZ	1
8	Screw (M4 x 8)	XHBSE40P08000	1

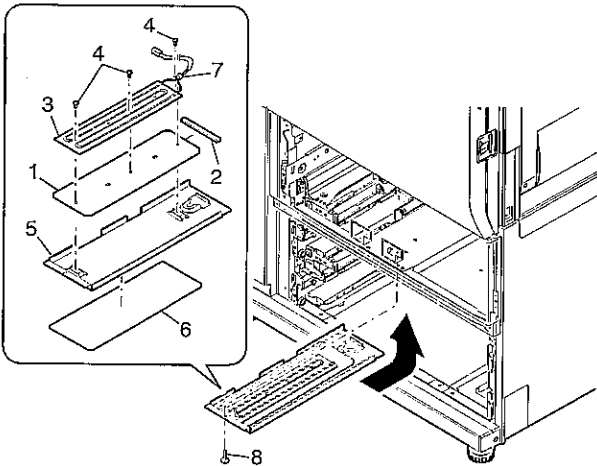
1) Pull out the paper feed tray until it stops.



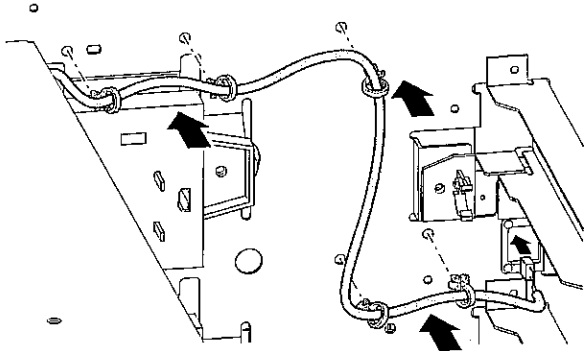
2) Slightly lift the paper feed tray and remove it diagonally from the right side.



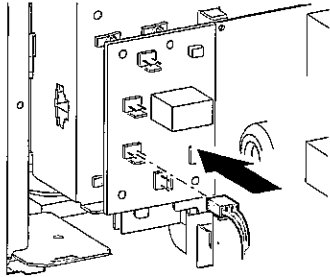
3) Install the dry heater (paper feed trays 1, 2) unit.



4) Fix the harness with the snap band, and pass it through the edge saddle.



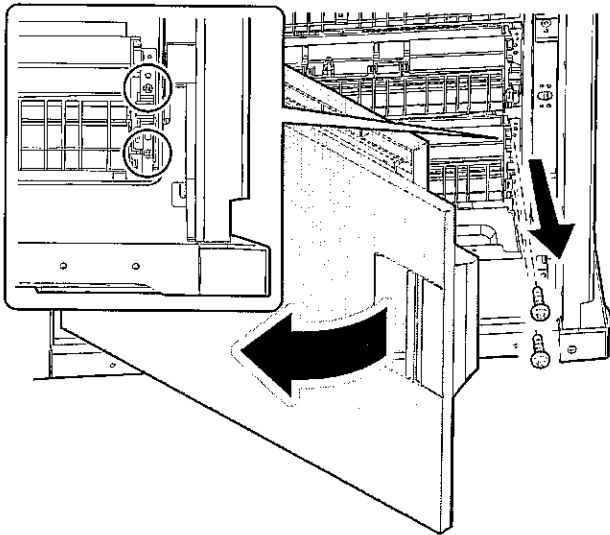
5) Connect the connector to the dehumidifying heater relay PWB.



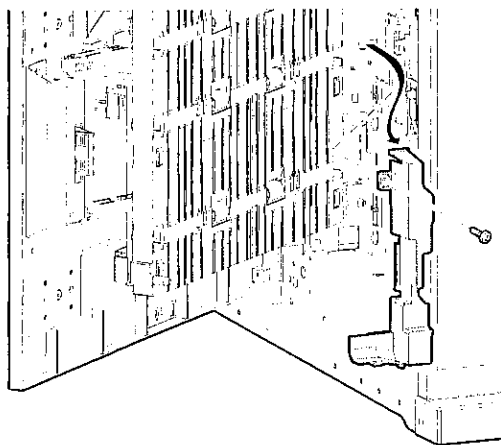
4. Dry heater (paper feed trays 3, 4) installation

No.	Part name	Part code	Q'ty
1	Heater mounting plate	LPLTM6021FCZZ	1
2	Edge saddle (EH11)	LHLDW1285FCZZ	1
3	Heater radiating fin	PRDAR0087FCZZ	1
4	Dry heater (120V) (Paper feed trays 3, 4)	RHETP0117FCZZ	1
	Dry heater (230V) (Paper feed trays 3, 4)	RHETP0122FCZZ	
5	Screw (M3 x 4)	XHBSE30P04000	4
6	Screw (M3 x 6)	XHBSD30P06000	2

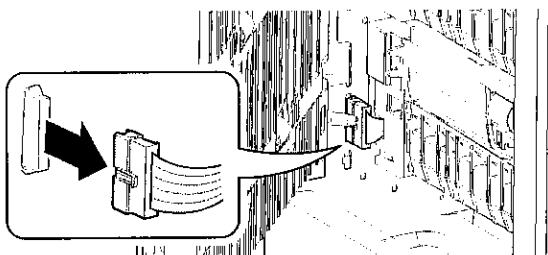
1) Open the left under cabinet.



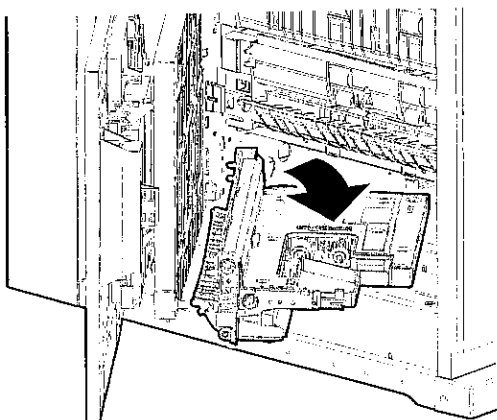
2) Remove the connector cover.



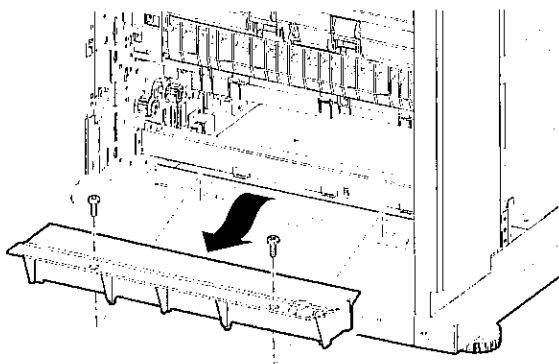
3) Disconnect the connector.



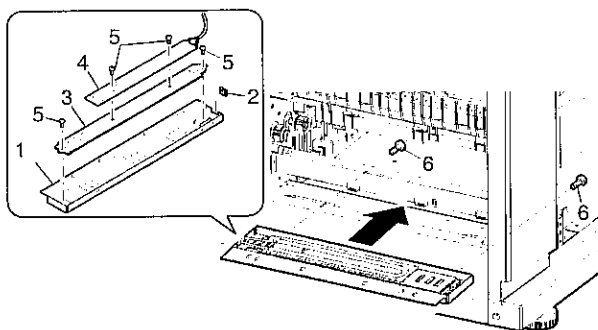
4) Remove the lower stage of the paper trays 3/4 paper feed unit.



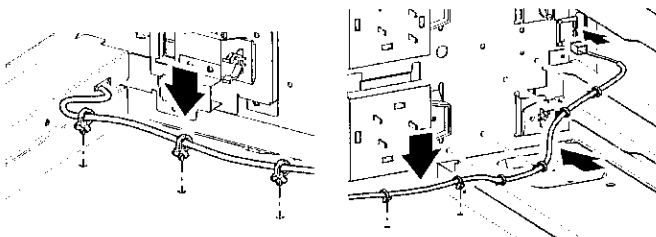
Remove the paper feed lower cover.



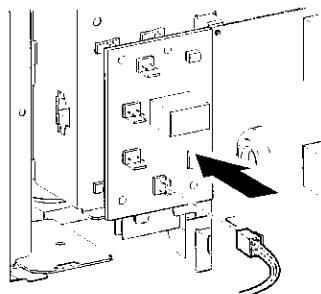
6) Install the dry heater (paper feed trays 3, 4) unit.



7) Fix the harness with the snap band, and pass it through the edge saddle.



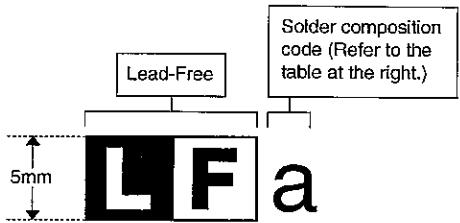
8) Connect the connector to the dehumidifying heater relay PWB.



LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder. The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn-Ag-Cu	a
Sn-Ag-Bi	b
Sn-Ag-Bi-Cu	
Sn-Zn-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu-Ni	n
Sn-Ag-Sb	s
Bi-Sn-Ag-P	p
Bi-Sn-Ag	

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.
Never use conventional lead solder thread, which may cause a breakdown or an accident.
Since the melting point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommendable.

(2) NOTE FOR SOLDERING WORK

Since the melting point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.
Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.
If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.
If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

CAUTION FOR BATTERY REPLACEMENT

(Danish)

ADVARSEL !

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri
af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandoren.

(English)

Caution !

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type
recommended by the manufacturer.

Dispose of used batteries according to manufacturer's instructions.

(Finnish)

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French)

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.

Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish)

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparatillverkaren.

Kassera använt batteri enligt fabrikantens
instruktion.

(German)

Achtung

Explosionsgefahr bei Verwendung inkorrektter Batterien.

Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.

Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)

"BATTERY DISPOSAL"

THIS PRODUCT CONTAINS A LITHIUM PRIMARY
(MANGANESE DIOXIDE) MEMORY BACK-UP BATTERY
THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE
BATTERY FROM THE PRODUCT AND CONTACT YOUR
LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION
ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES"

CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE
MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE)
QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA
PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE
AGENCE ENVIRONNEMENTALE LOCALE POUR DES
INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET
DE TRAITEMENT.



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