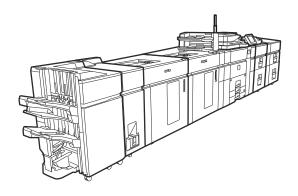
INSTALLATION MANUAL



DIGITAL MULTIFUNCTIONAL SYSTEM

e-STUDIO907 e-STUDIO1057 MODEL e-STUDIO1207

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

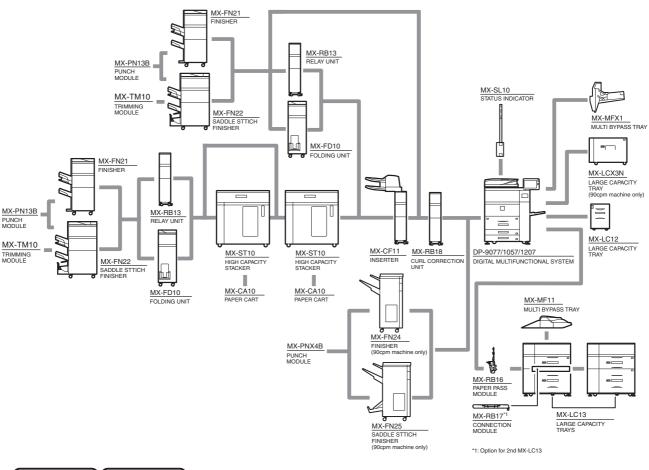
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[1] CONFIGURATION

1. System diagram





[2] DP-9077/1057/1207 (MAIN UNIT)

1. NOTE FOR SERVICING

This Service Manual uses some symbols to assure safe operation. Please understand the meanings of photographs before servicing.

danger to life or a serious injury could result.

⚠ CAUTION: If this CAUTION should be ignored, an injury or

damage to property could result.

A. Precautions for servicing

 When servicing, disconnect the power plug, the printer cable, the network cable, and the telephone line from the machine, except when performing the communication test, etc.

It may cause an injury or an electric shock.

There is a high temperature area inside the machine. Use extreme care when servicing.

It may cause a burn.

- There is a high voltage section inside the machine which may cause an electric shock. Be careful when servicing.
- Do not disassemble the laser unit. Do not insert a reflective material such as a screwdriver in the laser beam path.

It may damage the eyes by reflection of laser beams.

- 5) When servicing the machine while it is operating, be careful when working around chains, belts, gears and drive sections.
- 6) Do not leave the machine with the cabinet disassembled. Do not allow any person other than a serviceman access to the inside of the machine. It may cause an electric shock, a burn, or an injury.
- When servicing, do not breathe toner or developer or get toner or developer in the eyes. If toner or developer contact the eyes, wash eyes immediately and contact a doctor if necessary.
- 8) The interior of the machine has sharp edges. Be careful when servicing the machine, to avoid contact with these edges.
- 9) Do not throw toner or a toner cartridge in a fire. Toner is combustible and may explode and burn you.
- When replacing the lithium battery on the PWB, only use the specified battery.

If a battery of different specification is used, it may not be compatible and cause breakdown or malfunction of the machine.

 When carrying a PWB, be sure to transport the PWB in an anti-static bag. Failure to do so may cause malfunction or failure of the PWB.

B. Warning for servicing

 Be sure to only connect the power cord to an outlet that meets the specified voltage and current requirements. Avoid complex wiring which may lead to a fire or an electric shock.

It may cause a fire or an electric shock.

If there is any abnormality such as a smoke or an abnormal smell, interrupt the job and disconnect the power cord.

It may cause a fire or an electric shock

 Be sure to connect the grounding wire. If an electric leakage occurs without grounding, a fire or an electric shock may result.

To protect the machine and the power unit from lightening, proper grounding must be made.

4) When connecting the grounding wire, never connect it to the following points.

It may cause an explosion, a fire or an electric shock.

- Gas tube
- · Lightning conductor
- A water pipe or a water faucet.
- · Grounding wire for telephone line

5) Do not damage, break, or stress the power cord.

Do not put heavy objects on the power cable. Do not forcibly bend or pull the power cable.

It may cause a fire or an electric shock.

6) Keep the power cable away from a heat source.

Do not insert the power plug with dust on it into a power outlet. It may cause a fire or an electric shock.

7) Do not put any foreign liquid or metal piece (that may fall into or spill) inside of the machine.

It may cause a fire or an electric shock.

8) Do not touch the power plug, insert a telephone line jack or network jack, operate the machine, or service the machine with wet or oily hands.

It may cause an electric shock.

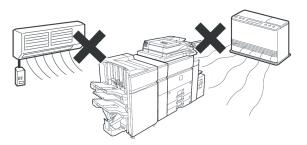
C. Note for installing site

Do not install the machine at the following sites.

 Places of high temperature, high humidity, low temperature, low humidity, places of extreme change in temperature and humidity.

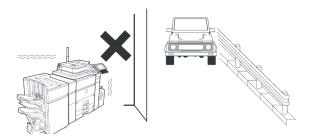
Paper may get damp and form moisture inside the machine, causing paper jam or poor copy quality.

For operating and storing conditions, refer to the specifications described later.



2) Place of high vibrations

It may cause a breakdown.

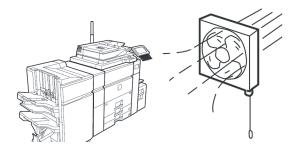


3) Poorly ventilated area

An electro-static type copier will produce ozone.

The machine is designed to produce a low quantity of ozone so as not to affect health. Continuous use of the machine may produce an ozone smell. Install the machine in a well ventilated area.

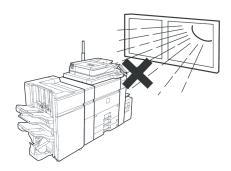
When special paper such as gloss paper is used, unique smell or gas may be generated depending on the kind of paper, arrange and install an additional duct to exhaust smell or gas from the discharge section of the machine to outside of the room. (There is no setting for the exclusive-use duct.)



4) Place of direct sunlight.

Plastic parts may become deformed, discolored, or undergo qualitative change.

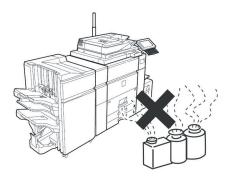
It may cause a breakdown or copy quality problems.



5) Place which is full of organic gases such as ammonium

The organic photoconductor (OPC) drum used in the machine may undergo qualitative change due to organic gases such as ammonium.

Installation of this machine near a diazo-type copier may result in copy quality problems.



6) Place of excessive dust

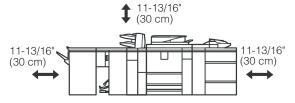
When dusts enter the machine, it may cause a breakdown or copy quality problems.



7) Place near a wall

The machine requires intake and exhaust of air.

If intake and exhaust of air are not properly performed, copy quality problems or a breakdown may be result.



When installing the machine, make sure that the sides and back of the machine are at least 11-13/16" (30 cm) away from any walls.

2. Transit and delivery

No	Content	Method
1	Implements, facility,	Use a forklift. (If no forklift is available,
	and manpower	ensure manpower of four persons or more,
		and use the skid slope (6LS06279000)).
2	Delivery	Transit must be made in safely packed and
		protected environment.

A. Implements, facility, and manpower

A forklift is recommended for removing the machine from the shipping carton.

If no forklift is available, Be sure to use the skid slope (6LS06279000). Removing the machine by hand requires four or more persons as the machine is heavy. Use care and safety precautions when removing the machine from the shipping carton.

Transit of the machine must be made in a protected and secure condition to the place of install.

Since the hard disk drive is built in the machine, refrain from vibrations or shocks to the machine when in transit.

B. Delivery

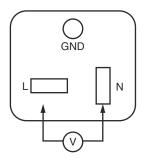
Remove the packing materials prior to installation in the office environment.

When delivering the machine, be sure to keep the separation pawl fixing material attached. (If the machine is delivered without the fixing material, the drum may be scratched.)

NOTE: For USA/CANADA

If the fusing performance is insufficient in a special environment such as low temperature and low humidity, an environment that heavy paper is mainly used and so on when 208V power supply is used, please replace with 208V lamp (6LS06288000).

(Measurement method)



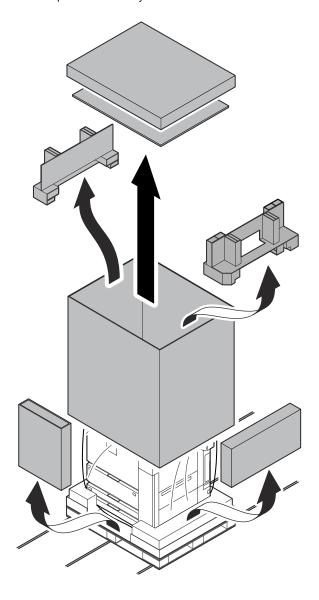
Voltage reference points for wall outlet.

Measure the voltage between L and N of the figure above using a digital multi meter.

3. Unpacking

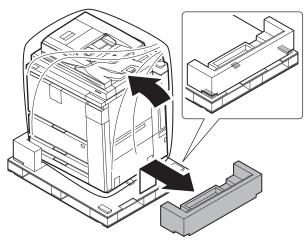
A. Pulling out the main unit

 Remove the top case, the top cushion, the packing case, and the box containing the operation panel, the operation panel arm and parts for assembly.



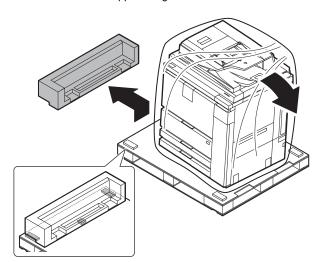
2) Gently lift the main unit high enough to remove the bottom pad "L".

NOTE: There is stopper as figure below.

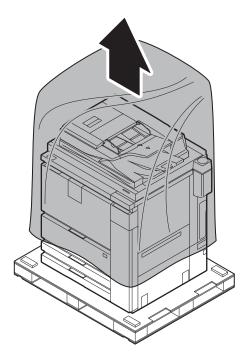


 Next, gently lift the main unit high enough to remove the bottom pad "R".

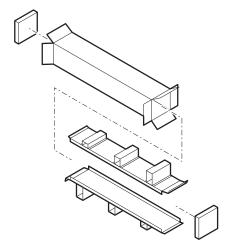
NOTE: There is stopper as figure below.



4) Remove the vinyl bag from the main unit.



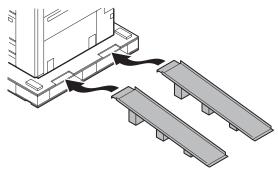
5) Remove the slope.



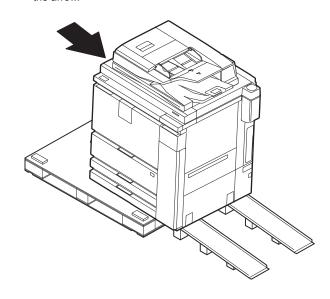
* Slope : Order from parts.

Part name	Part code
Skid slope	6LS06279000

6) Insert the ramps in the cut outs in the skid.

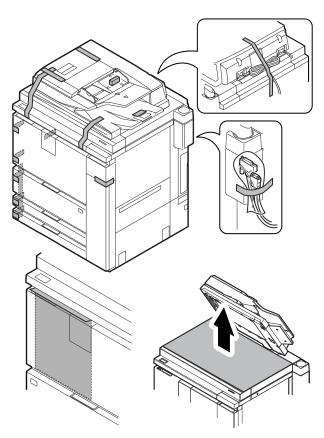


Carefully roll the main unit down the ramps in the direction of the arrow.

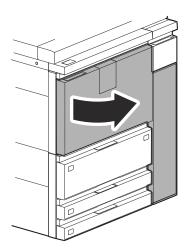


B. Fixing tape and protection material removal

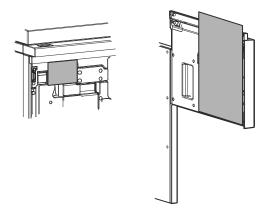
1) Remove the fixing tape and the protection material.



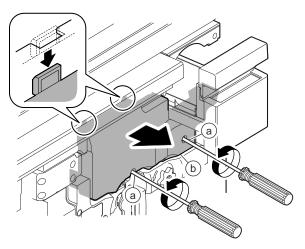
2) Open the front cover.



3) Remove the protection sheet and the Operation Manual.



4) Remove the screw (a), and remove the cover (b).

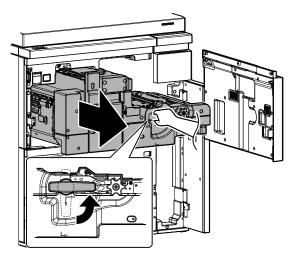


 Remove the protection material. (Packing material for fixing the separation pawls)

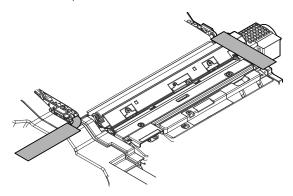
NOTE: When moving the machine again after unpacking, be sure to attach the protection material. (If not, the OPC drum may be damaged.)



6) Pull out the intermediate frame.

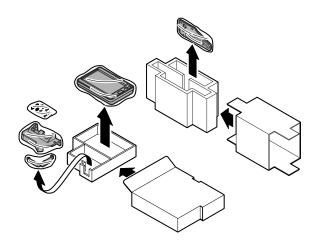


7) Remove the protection material and the caution label.



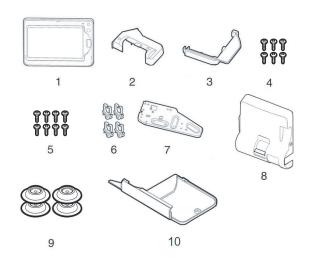
C. Included parts removal

1) Remove the included parts.



D. Included parts check

1) Check to confirm that all the parts are provided.



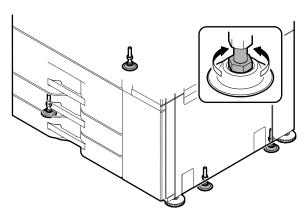
No.	Name	Quantity
1	Operation panel	1
2	Panel cover B	1
3	Panel cover below	1
4	Screw 3 x 6	6
5	Screw 4 x 8	8
6	Clamp	4
7	Panel support plate unit	1
8	Panel cover A	1
9	Height adjuster plate	4
10	Lower cover	1

4. Installation

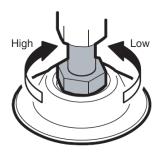
A. Machine height and tilt adjustments

 Put the height adjuster plate (Packed items No.9 x4) under the adjuster bolt at the bottom of the machine.

Turn the adjuster bolt to adjust the height and the tilt of the machine.



MEMO: When the adjuster bolt is turned counterclockwise, the height is decreased. When turned clockwise, the height is increased. (Common to the options the height of which is adjusted by the adjuster bolt.)



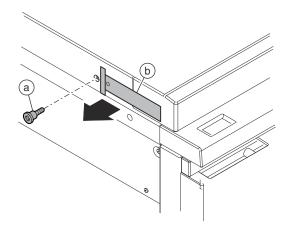
NOTE: Lower the height of the MX-CF11 to the lowest position before adjusts the level between the MX-CF11 and the main body.

Adjust the height of the top surface of main body reference to the top surface of the MX-CF11.

B. Lock release

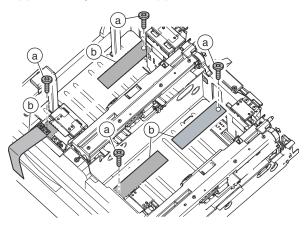
(1) Scanner (2/3 mirror unit) lock release

1) Remove the scanner lock screw (a) and the caution label (b).

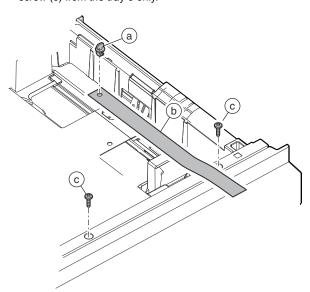


(2) Tray rotation plate lock release

 Pull out trays 1 and 2, and remove the rotating plate lock screw (a) and the tray caution label (b).

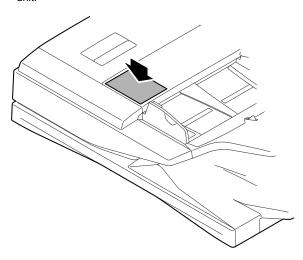


Pull out trays 3 and 4, and remove the rotating plate fixing material (a) and the tray caution label (b). Remove the blue screw (c) from the tray 3 only.



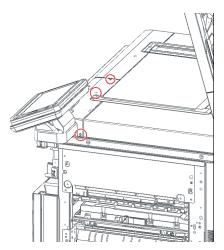
C. Label attachment

 Attach the document scan section label to the top of the DSPF unit.



D. Installation of operation panel unit

1) Remove the operation panel upper cover with the screw.





2) Attach the frame, and fix the screw. (Packed items No.5 x4).



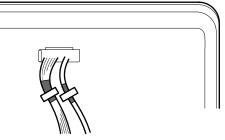
 Attach the four clamps (Packed items No.6 x4) and arrange the wires.

NOTE: When wiring the harness, be sure to check that the cable is not in the hole. Remove slack from the harness.

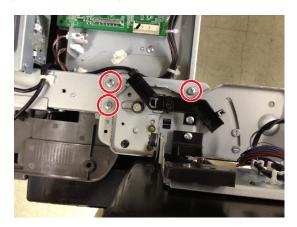


NOTE: Check to confirm that the harness does not enter the panel.

For the reference, refer to the figure below.



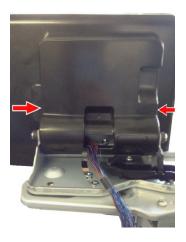
 Attach the operation panel to the machine with the screw. (Packed items No.5 x4).





 Attach the panel cover A (Packed items No.8) with the screw. (Packed items No.4 x2).

NOTE: At that time, pass the harness through the hole in the cover.

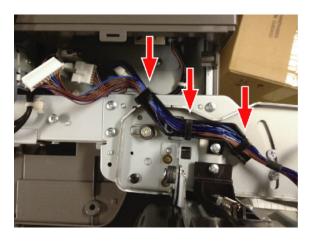


NOTE: Place the cover on the inside of plate.



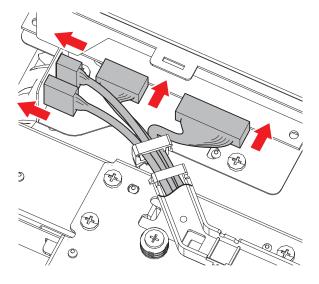
6) Bind up the harness with clamp as per the following picture.

NOTE: Be careful not to pinch the harness. If it is difficult to connect the connector, remove the cabinet in the right side.



Pass the harness through the clamp and the wire saddle, and connect the connector.

NOTE: Be careful not to pinch the lead wires.

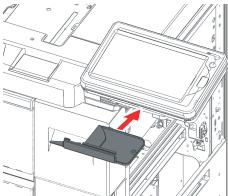


8) Fix the earth wire with screw.



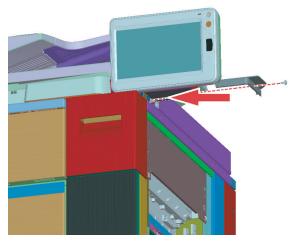
9) Attach the operation Panel cover B (Packed items No.2) with the screw. (Packed items No.4 x2). And, attach the lower cover (Packed items No.10) with the screw. (Packed items No.4).



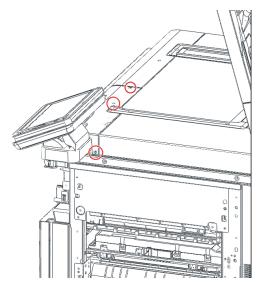


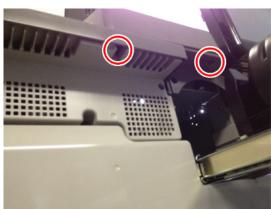


10) Attach the panel cover below (Packed items No.3) with the screw (Packed items No.4).



11) Attach the operation panel upper cover with the screw.





(1) Turn ON the power of the main unit

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

(2) Keyboard input check

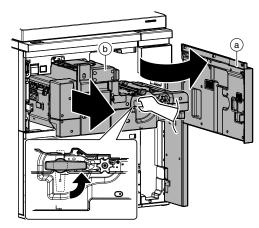
- 1) Touch [E-Mail] on the touch panel.
- 2) Touch the input column of the address.
- 3) Input the address with the keyboard, and check the input result on the touch panel.

(3) USB operation check

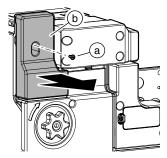
- Insert the USB memory into the USB connector of the operation panel.
- Check to confirm that the recognition mark of the USB memory is displayed on the operation panel.

E. Fusing heat roller pressure

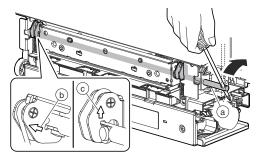
 Open the front cover (a), and pull out the intermediate frame (b).



2) Remove the screw (a), and remove the cover (b).



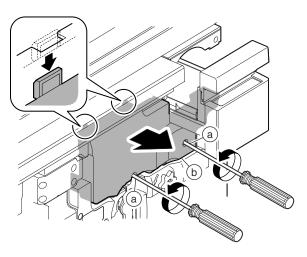
- Insert a screwdriver into the pressure release shaft (a) to apply pressure.
 - * When the pressure is released, the arrow on the pressure release shaft faces diagonally (b). When the pressure is applied, the arrow faces upward (c).



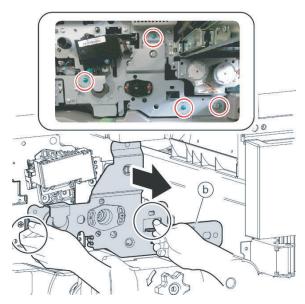
NOTE: If the machine is left unused for one month or more, the heat roller rubber may be deformed. In such a case, release the pressure.

F. Developer supply

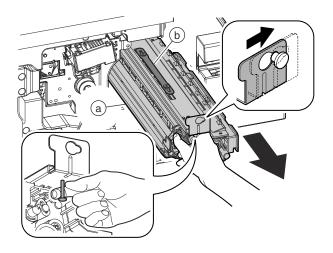
1) Remove the screw (a), and remove the cover (b).



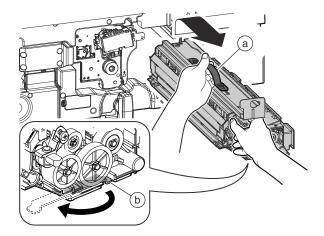
2) Remove the blue screw, and remove the plate (b).



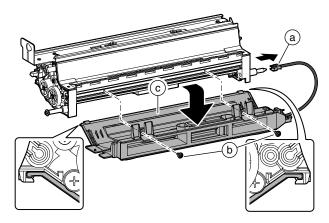
Slide the developing unit (a) to the right, and pull it out until the grip (b) can be held.



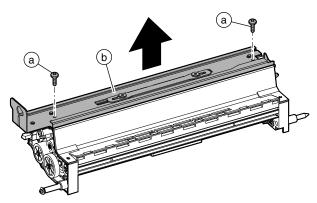
- 4) Hold the handle (a) of the developing unit, and lift it up to remove completely.
 - * When placing the developing unit down, rotate the stabilizing leg and place the developing unit down with the leg extended.



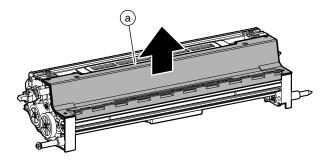
- 5) Remove the connector (a), the screw (b), and the cover (c).
 - * Be careful not to smear the pin of the connector (a) with toner



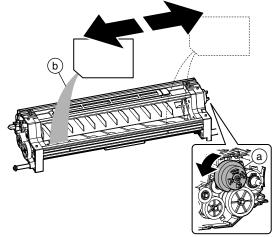
6) Remove the screw (a), and remove the guide (b).



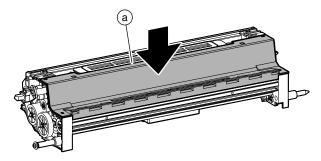
7) Remove the cover (a).



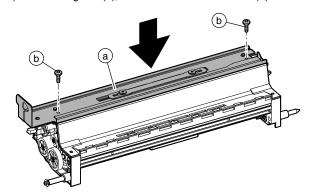
8) While rotating the coupling (a), supply developer (b).



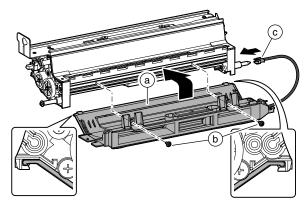
9) Attach the cover (a).



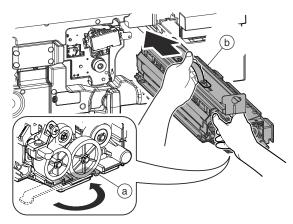
10) Attach the guide (a), and secure it with the screw (b).



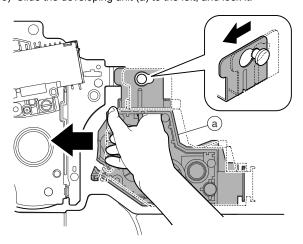
- 11) Attach the cover (a), and secure it with the screw (b). Connect the connector (c).
 - * Check to confirm that the pin of the connector (c) is not smeared with toner.



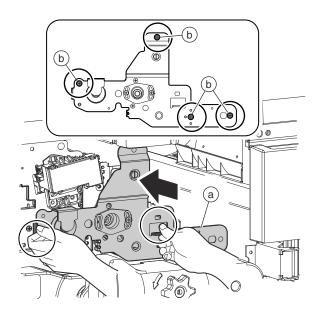
- 12) Rotate the stabilizing leg (a) under the developing unit and install the developing unit (b).
 - * When inserting a developing unit with SIM25-2 not executed, be sure to check that the power is turned OFF.



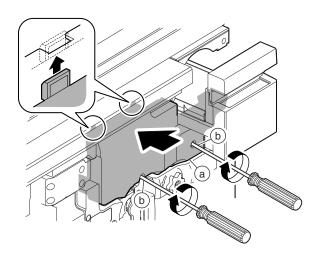
13) Slide the developing unit (a) to the left, and lock it.



14) Attach the plate (a), and secure it with the screw (b).

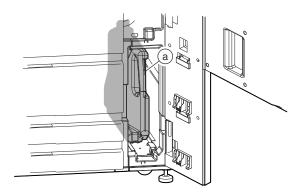


15) Attach the cover (a), and secure it with the screw (b).



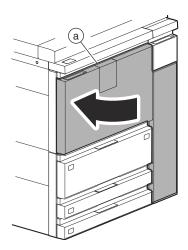
G. Toner collection container check

 Check to confirm that toner collection container (a) is securely installed.



H. Toner density reference control level setting

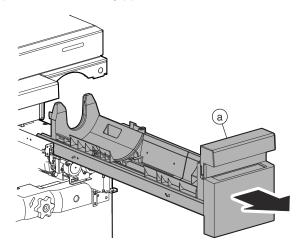
- Connect the power cord of the main unit to the power outlet.
- 2) Open the front cover, and turn ON the main power switch.
- 3) Turn ON the power switch on the operation panel.
- Open the front cover, and remove the toner cartridge. Then enter the input of SIM25-2.
- 5) After entering the simulation, close the front cover (a).



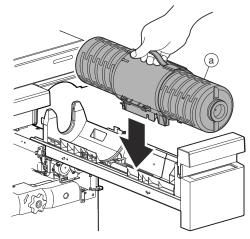
- 6) Press [EXECUTE] button, and the simulation is executed. After stirring toner, the toner density control sensor values are sampled to get the average value of the sensor detection level, which is set (saved) as the reference toner density control value.
- After completion of the reference toner density control value setting, [EXECUTE] key returns to the normal display, showing completion of the setting operation.

I. Toner cartridge installation

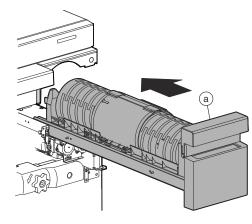
1) Pull out the toner tray (a).



2) Install the toner cartridge (a).



3) Install the toner tray (a).



J. Tray setup

(1) Setting of paper size and paper type

Change the tray setting in the "system setting" mode. Some items require administrator authority for display. The paper setting (to A4/ recycle) procedure for tray 3 is as follows.

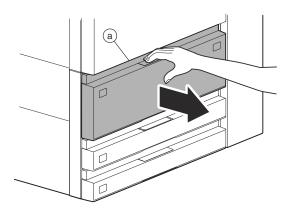
However, if the size of tray 1 has been switched to B5, execute SIM 26-2, and set the paper size.

- 1) Press the [SETTINGS] key on the operation panel.
- 2) Press the [SYSTEM SETTINGS] key.
- 3) Touch the [Paper Tray Settings] key.
- 4) Touch the [Tray 3] key.
- Select "recycled" on the selection box of the "Type". Select "A4" on the selection box of the "Size". Touch the [Submit] key.

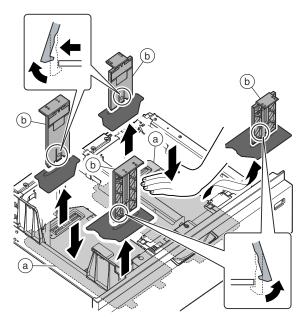
(2) Tray size setup

a. Inch series tray 1, tray 2 (LT to A4)

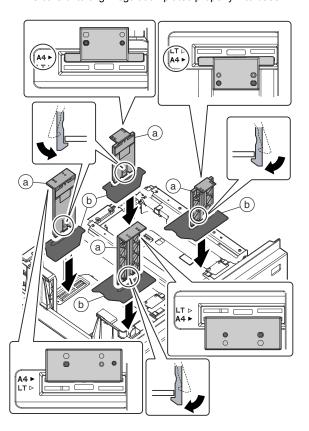
1) Pull out the tray 1/2 (a).



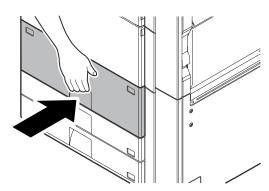
2) Push down the paper feed base plate (a) gently, hold the hooks and remove A4 size regulation plate (b).



Fit the A4 size regulation plate (a) to A4 size, and attach it.
 * Be careful to align regulation plates properly into base.

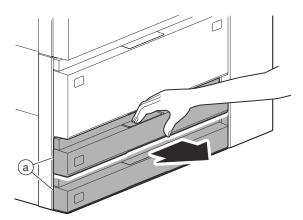


4) Close the tray 1/2 (a).



b. Tray 3, tray 4

1) Gently pull out trays 3 and 4 (a) until each tray stops.

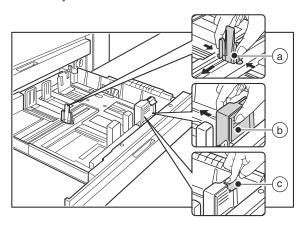


Adjust the guide plates (a) and (b) by squeezing their lock levers and sliding them to match the vertical and horizontal dimensions of the paper to be loaded.

Squeeze the lock knob on guide plate (a), (b) and slide to the desired paper size.

For a non-standard paper size, after sliding guide plate (b) to the desired size, press the lock button (c).

* If slid to a standard paper size, guide plate (b) will lock automatically.



K. Specifications setup

Used to set the specifications with SIM26 according to the customer's request.

SIM	SIM No Content	
26	6	Used to set the destination.

To customize the following items after completion of the destination setup, change the set values.

SIM	No	Content
26	2	Paper size setting of the Tray1/LCC.
	3	Used to set the auditor specification mode.
	5	Used to set the number (1 or 2) of count of paper (A3 or WLT or 8K) that passes. 1:1pc 2:2pcs * Targets: Total counter, maintenance counter, developer counter.
	18	Used to set YES/NO of the toner save mode (Only in UK and Japan versions) * Carry out the setting by the user's program except the UK version. 1:accept 2:inhibit
	52	Used to set whether non-printed paper (insertion paper, cover paper) is counted up or not. 1:YES 2:NO

L. Image quality check

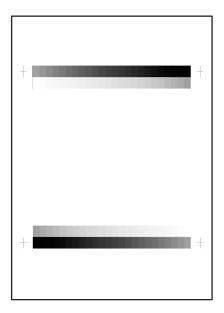
Be sure to check the following items related to image quality. For details of the adjustment and checking procedures, refer to the "[5] ADJUSTMENT" on the Service Manual.

Check that the following items are within specification. If not, carry out the adjustment.

NOTE: When installing the copier, be sure to carry out the copy gray balance and the printer gray balance.

- (1) Image loss, void area (see ADJ 9)
- (2) Copy gray balance (11-A/Auto adjustment)
- 1) Enter the SIM 46-74 mode.
- 2) Press [EXECUTE] button.

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

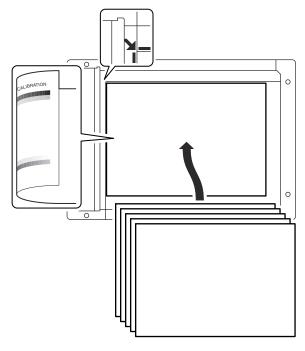


 Set the gray patch image (adjustment pattern) paper printed in procedure 2) on the document table.

Set the gray patch image (adjustment pattern) printed in the procedure 2) on the document table.

Place the gray patch image so that the fine lines are on the left side.

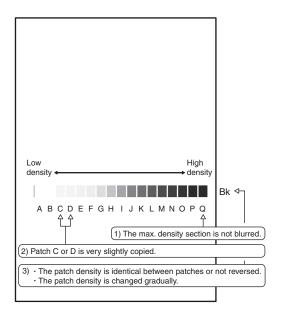
At that time, place 5 sheets of white paper on the printed gray patch image (adjustment pattern).



4) Press [FACTORY] button, then press [EXECUTE] button.

The copy density and gradation adjustment is performed automatically, and the adjustment pattern is printed.

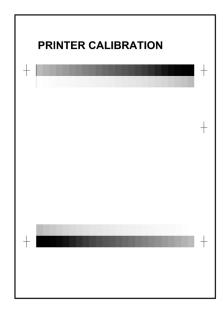
If there is any streak or unclear print on the printed check pattern, check the print engine for any problems.



5) Press [EXECUTE] key.

The printer gray patch image (adjustment pattern) is printed out

(A4/11" x 8.5" or A3/11" x 17" paper is automatically selected.)

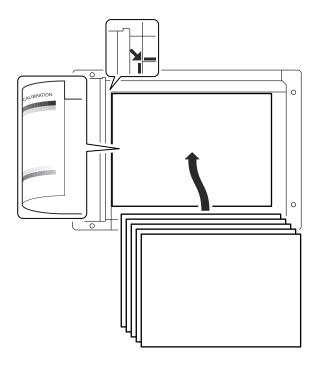


6) Set the gray patch image (adjustment pattern) printed in the procedure 5) on the document table.

Set the gray patch image (adjustment pattern) printed in the procedure 2) on the document table.

Place the gray patch image so that the fine lines are on the left side.

At that time, place 5 sheets of white paper on the printed gray patch image (adjustment pattern).

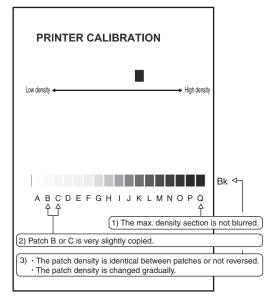


7) Select [FACTORY] target, and press [EXECUTE] key.

When the gray balance is customized with the manual gray balance adjustment (SIM 67-25) according to the user's request and the gray balance is registered as the service target with SIM 67-27, if the gray balance is adjusted to that gray balance, select the [SERVICE] target.

The printer gray balance adjustment (step 1) is automatically performed and the gray balance check patch image is printed out.

If there is any streak or unclear print on the printed check pattern, check the print engine for any problems.



The initial setting menu of the halftone image correction is displayed.

Press [OK] key.

The initial setting of the halftone image correction is performed.

9) Wait until [EXECUTE] key is displayed.

When it is displayed, press it.

The halftone image correction is performed.

 When "COMPLETED THIS PROCEDURE" is displayed, the adjustment operation is completed.

Cancel SIM46-74.

NOTE: The adjustment result becomes valid only when the both adjustments in the copy mode and in the printer mode are completed.

For example, if the copy gray balance adjustment (automatic adjustment) is performed and the simulation is canceled, the adjustment result is invalid.

11) Check the copy gray balance and density.

(Refer to the item of the copy gray balance and density check.) When the gray balance and the density are unsatisfactory after the automatic adjustment by selecting the factory target in procedure 4), execute the manual gray balance adjustment (ADJ11C (2)).

Also when the service target is selected in procedure 4) to execute the automatic adjustment and a satisfactory result is not obtained, perform the manual gray balance adjustment (ADJ 11C (2)).

12) Check the printer gray balance and density.

(Refer to the item of the printer gray balance and density check.)

If a satisfactory result on the gray balance and the density is not obtained with the automatic adjustment, execute the manual adjustment (SIM 67-25) (ADJ 11E (2)).

Also when the service target is selected in procedure 7) to execute the automatic adjustment and a satisfactory result is not obtained, perform the manual gray balance adjustment (ADJ 11E (2)).

If the gray balance or density is not in the satisfactory level even after execution of the automatic and manual adjustments, there may be another cause.

Troubleshoot the cause, repair or perform necessary works, and repeat the adjustment from the beginning.

M. Function and operation check

Check that the following operations are normal.

Check	item list	Equipped condition	
Key-in (operation panel)			
Display (operation	n panel)		
Paper feed	Hand feed		
operation	Paper tray		
Paper size detec	tion		
Originals size	Original table		
detection	mode		
	DSPF mode		
DSPF	S-S mode		
operation/	D-S mode		
duplex	S-D mode		
operation	D-D mode		
Bookbinding ope	ration	When the finisher is installed	
Stapling operatio	n	When the finisher is installed	
Grouping operati	on	When the finisher is installed	
Sorting operation		When the finisher is installed	

N. Setup and adjustment data recording

Print the various setup data and the adjustment data (list) with SIM22-6 and keep the data.

- In case of a memory problems, if the data is not kept, all the adjustments must be made again.
- If the data is kept, the setup values and the adjustment values can be entered without adjustments, shortening the servicing time.

O. Necessary procedures before moving the machine

- If the following options are installed, remove all of them from the machine.
 - · Large capacity tray
 - · Inserter
 - Finisher
 - · High capacity stacker
 - · Curl correction unit
 - · Relay unit
 - · Paper feed system option
- 2) Remove the following consumable parts from the machine.
 - Paper
 - · Toner cartridge
 - · Development cartridge
- 3) Lock the following sections.
 - Scanner (Optical section)
 - · Paper cassette lift plate
- 4) Attach the protection material to the position shown below.
 - Use the "packing material for fixing the separation pawls" which was removed when unpacking.

NOTE: Since the hard disk drive is built in the machine, refrain from vibrations or shocks to the machine when in transit.

[3] Dehumidifying heater kit

1. Parts list

Kit name	Kit part code	Parts r	name	Part code	Q'ty
Heater kit	6LS06289000	WH PWB		6LS06290000	1
		Supporter		6LS04248000	5
		WH harness		6LS06291000	1
		Heater SW		6LS06042000	1
		Heater SW label		6LS06292000	1
		SCN dehumidifier heater	For SCN heater mounting	6LS06293000	1
		Snap band	For SCN heater mounting	6LS03474000	2
		Screw (M3 x 4cap, black)	For SCN heater mounting	6LA58847000	2
		Edge saddle, black	For SCN heater mounting	6LS03477000	1
		Main unit cassette heater	For main unit heater mounting	6LS06294000	2
		Heater mounting plate	For main unit heater mounting	6LS06295000	2
		Heater cover	For main unit heater mounting	6LS06296000	2
		Heater cover sheet	For main unit heater mounting	6LS06297000	2
		Heater harness sheet	For main unit heater mounting	6LS06298000	2
		Screw (M3 x 6S)	For main unit heater mounting	6LA58794400	7
			(For dehumidifier heater unit: x6,		
			For cassette 4 heater: x1)		
		High temperature caution label	For main unit heater mounting	6LS06299000	1
		High temperature caution mark label	For main unit heater mounting	6LS06120000	1
		Screw (M4 x 8S)	For cassette 3 heater mounting	6LA58794800	1
LCC (A4) heater kit	6LS06300000	Heater harness		6LS06301000	1
		Snap band		6LS10148000	1
		AC cord fixer		6LA58665600	1
		Connector cover A		6LS06302000	1
		Connector cover B		6LS06303000	1
		Heater		6LS06304000	1
		Screw (M4 x 8K)		6LS06192000	1
		Screw (M3 x 4)		6LS06219000	1
		Screw for EL connector		6LS06305000	1
		Screw (M4 x 28K)		6LS06306000	2
		Screw (M3 x 20)		6LS06307000	3
		Screw (M4 x 8)		6LA58794800	1
		Nut (M3 = 2.4)		6LS06308000	3
LCC (A3) heater kit	6LS06309000	Heater harness A3		6LS06310000	1
		Snap band		6LS10148000	1
		AC cord fixer		6LA58665600	1
		Connector cover A		6LS06302000	1
		Connector cover B		6LS06303000	1
		Heater		6LS06304000	1
		Screw (M4 x 8K)		6LS06192000	1
		Screw (M3 x 4)		6LS06219000	1
		Screw for EL connector		6LS06305000	1
		Screw (M4 x 28K)		6LS06306000	2
		Screw (M3 x 20)		6LS06307000	3
		Screw (M4 x 8)		6LA58794800	1
		Nut (M3 = 2.4)		6LS06308000	3
		Heater cover		6LS06311000	1
		Heater sheet		6LS06312000	1
		Screw (M4 x 8 Round-tipped S-tight)		6LS04305000	2

Kit name	Kit part code	Parts name	Part code	Q'ty
LCT heater kit 6LS06313000	LCT heater	6LS06314000	2	
		LCT heater mount plate	6LS04036000	2
		Mini clamp	6LS03603000	4
		Edge wire saddle	6LS03615000	6
		Screw (M3x4 S-tight)	6LS06219000	16
		Desk heater	6LS06315000	3
		Desk heater mount plate	6LS03755000	3
		Heater heat sink	6LS05759000	3
		Mini clamp	6LS06316000	9
		Screw (M3x6 S-tight)	6LA58794400	6
		Screw (M4x8 S-tight)	6LA58794800	2
		Step screw	6LS04278000	2
		High temperature warning label	6LS06120000	2
		Dehumidifier heater switch	6LS06042000	1
		LCT WH SW harness	6LS03280000	1
		LCT heater harness 1	6LS03292000	1
		LCT heater harness 2	6LS03293000	1
		Heater SW label	6LS06292000	1

2. Installation

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

A. Turn OFF the power of the main unit

- 1) Turn OFF the power switch on the operation panel.
- 2) Open the front cover, turn OFF the main power switch.
- 3) Disconnect the power cord of the main unit from the power outlet

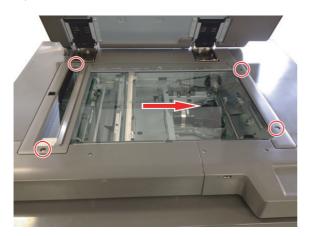
B. Scanner unit dehumidifier heater installing procedures

1) Remove three screws from the right cabinet upper.



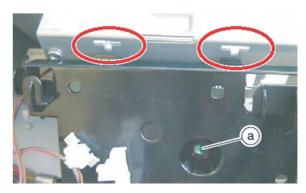
Remove the screw, and remove the glass holder right, the SPF glass unit, and the table glass.

MEMO: Shift the lamp unit completely to the right end of the optical frame.



3) Remove the screw (a), and remove the dust-proof cover LB.

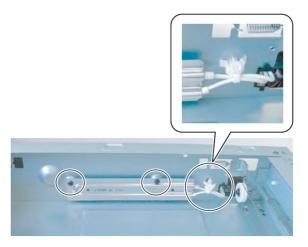
NOTE: When removing the dust-proof cover LB, be careful of two pawls.



4) Install the dehumidifier heater to the optical frame with two black screws (M3 x 4), and fit it with the snap band (included in the package).

NOTE: When installing, be careful in the direction of the snap band.

NOTE: Remove slack from the harness between the dehumidifier heater and the snap band.



Install the edge saddle, and through the harness of the dehumidifier heater.



6) Attach the cover which is removed in step 4).

NOTE: When installing, be careful that does not pinch the harness.

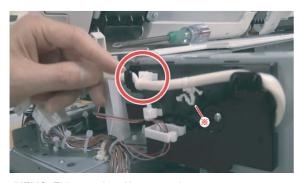


7) Attach the snap band and arrange the wires.

 $\ensuremath{\text{NOTE:}}$ When installing, be careful in the direction of the snap

band.

NOTE: Be careful not to pinch wires.

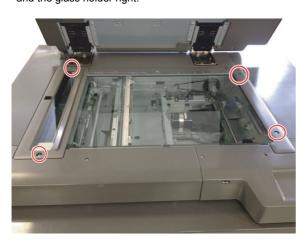


MEMO: This snap band is not used.

8) Insert the connector.



9) Fix the SPF glass unit with screws, and install the table glass and the glass holder right.

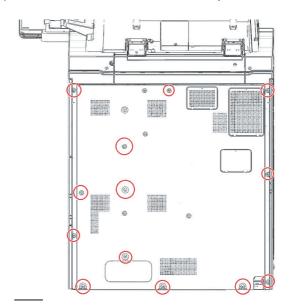


10) Fix the right cabinet upper with three screws.



C. Main unit paper feed section dehumidifier hearer installing procedures

1) Remove the screws, and remove the rear plate.



Remove the harness and the screw, and remove the right cabinet rear upper.



3) Remove two cabinet covers. Remove the screw, and remove the right cabinet rear lower.



 Cut out the SW section of the heat-retention heater, and attach the heater SW label to the frame as shown below.
 (Be careful of the attachment direction of the heater SW label.)



- 5) Attach the heat-retention heater switch.
 - * Attach so that the heater terminal is on the R side.

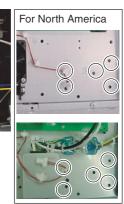


6) Insert the connector into the heat-retention heater SW.

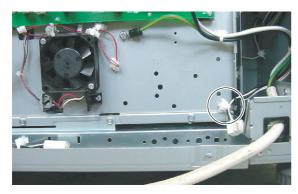


7) Attach the PWB supporters (X5).

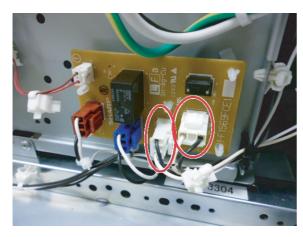




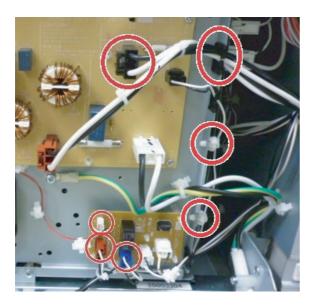
8) Remove the snap band. (Preparation for insertion of the connector into the WH PWB)



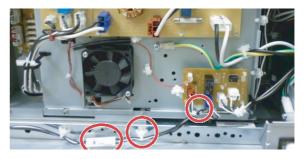
9) Insert the connector.



10) Connect the WH harness, and perform the line process.



11) Insert the connector, and fix it with the snap band.



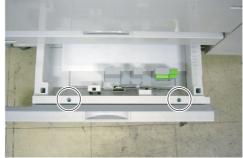
12) Remove the screws, and remove the tandem tray.





13) Remove the screws, and remove the tray 3 and tray 4.





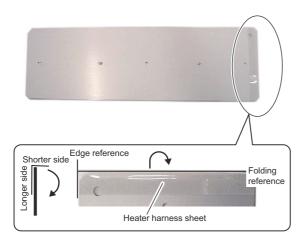
* The screws of the tray 3 should be removed when installing the tray.

The above descriptions are based on the case where the screws were not removed.

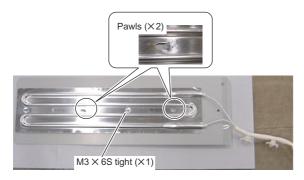
14) Remove the screw, and remove the front covers of the cassette 3 and cassette 4.



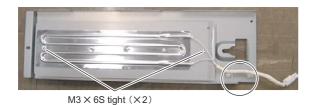
15) Attach the heater harness sheet to the heater mounting plate.



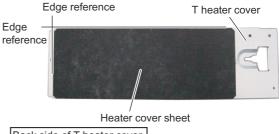
16) Attach the dehumidifier heater to the heater mounting plate and fix it with M3 × 6S tight screw (× 1). Engage the pawls (× 2).



17) Fix the heater mounting plate assembly to the T heater cover with M3 × 6S tight screws (× 2).
Fix the snap band at two positions, too.

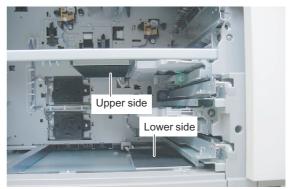


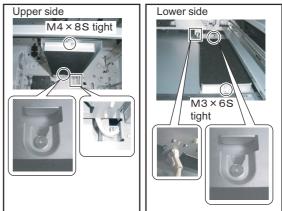
18) Attach the heater cover sheet to the T heater cover.



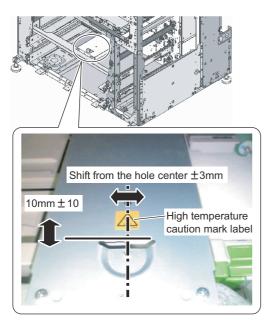
Back side of T heater cover

- * Repeat the procedures of 15) to 18) and make two sets.
- 19) Hang the heater mounting plate unit on the step screw of the main unit frame, and fix them.
 - * Note that the screw on the upper side used to install the heater mounting plate unit differs from that on the lower side





20) Attach the high temperature caution mark label to the heater mounting plate.



21) Fix the front covers of the cassette 3 and cassette 4.



22) Set the tray 3 to the rail. Fix the tray 4 with the screws.





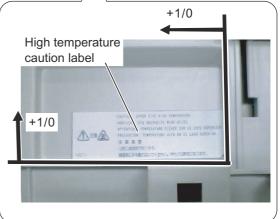
23) Fix the tandem tray with the mounting screws.





- 24) Attach the high temperature caution label to the tray 3.
 - * Before attachment, clean the attachment surface with alcohol.





25) After completion of attachment, perform the short check.

Power SW: OFF Heater SW: ON

- * Measure the resistance value of the AC input plug under the following three conditions to confirm that it is not shorted.
 - L side N sideL side Earth sideN side Earth side

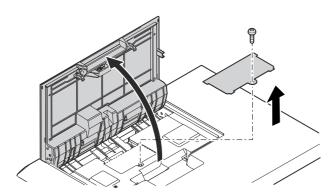
D. Turn ON the power of the main unit

- 1) Connect the power cord of the main unit to the power outlet.
- 2) Open the front cover, turn ON the main power switch.
- 3) Turn OFF the power switch on the operation panel.

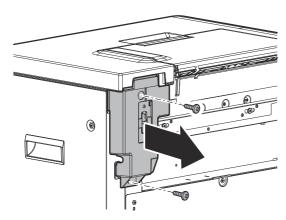
E. Installation of the LCC (A4) heater kit

(1) Paper feed unit removal

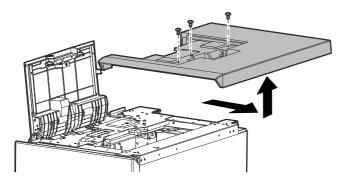
- 1) Pull out the paper feed tray.
- Open the upper cover. Remove the screw, and remove the sheet.



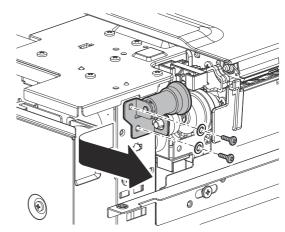
3) Remove the screw, and remove the left rear cabinet.



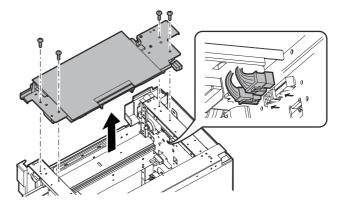
4) Remove the screw, and remove the upper cabinet.



5) Remove the screw, and remove the torque limiter unit.

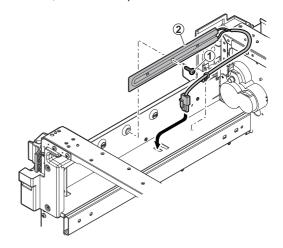


Disconnect the connector. Remove the screw, and remove the paper feed unit.



(2) Heater attachment

1) Attach the heater, and fix by the screw. Attach the connector to the frame, and fix the snap band.

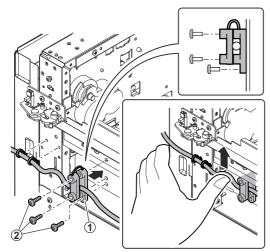


(3) Heater harness unit attachment

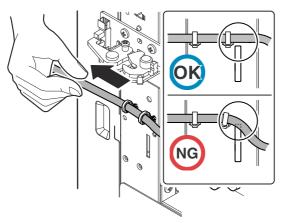
 Attach the snap band of the heater harness unit, and fix by the screw. While holding the harness upward, attach the AC cord fixer

NOTE: After attaching the snap band, cut and trim the end of the band.

NOTE: Be careful not to mistake the attaching direction of the AC cord fixer.

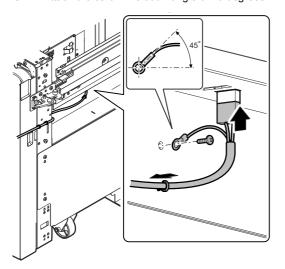


 Pull the harness tightly in the arrow direction, and check to confirm that there is no disconnection of the snap band and that the square hole in the frame is not covered with the harness



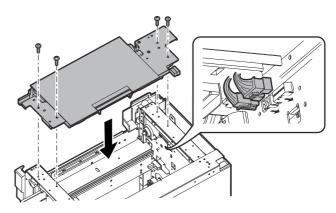
3) Connect the connector of the heater harness unit. Attach the earth wire, and fix by the screw.

NOTE: Attach the earth wire at an angle of 45 degrees.

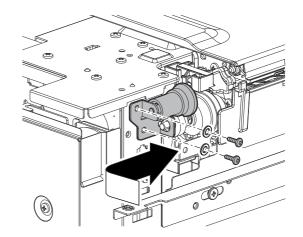


(4) Paper feed unit attachment

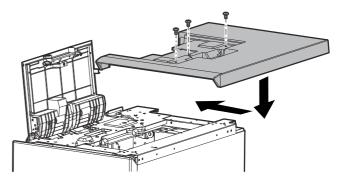
 Attach the paper feed unit, and fix by the screw. Connect the connector.



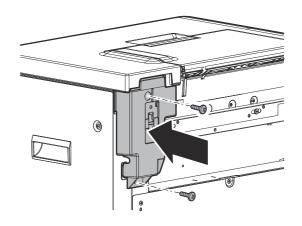
2) Attach the torque limiter unit, and fix by the screw.



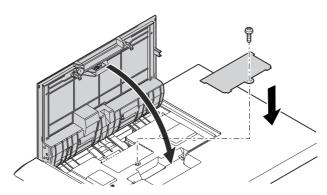
3) Attach the upper cabinet, and fix by the screw.



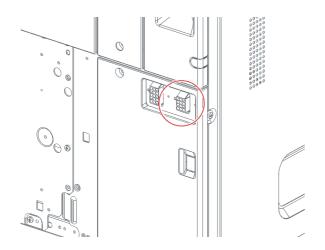
4) Attach the left rear cabinet, and fix by the screw.



5) Attach the sheet, and fix by the screw. Close the upper cover.

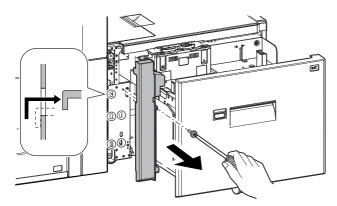


- 6) Insert the paper feed tray.
- (5) Connector connection
- 1) Remove the screw, and remove the connector cover.
- 2) Connect the connector, and tighten the screw.

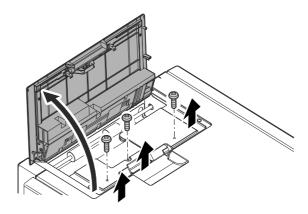


F. Installation of the LCC (A3) heater kit

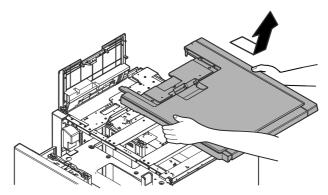
- (1) Paper feed unit removal
- 1) Pull out the paper feed tray.
- 2) Remove the screw, and remove the left front cabinet.



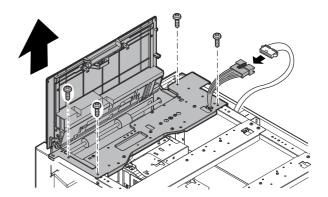
3) Open the upper cover, and remove the screw.



4) Remove the upper cabinet.

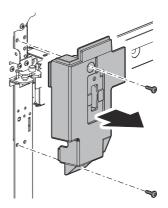


5) Disconnect the connector. Remove the screw, and remove the paper feed unit.



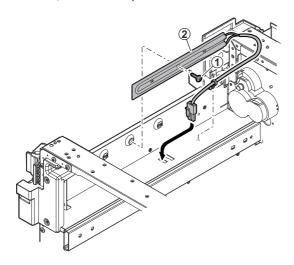
(2) Cover removal

1) Remove the screw, and remove the cover.



(3) Heater attachment

1) Attach the heater, and fix by the screw. Attach the connector to the frame, and fix the snap band.

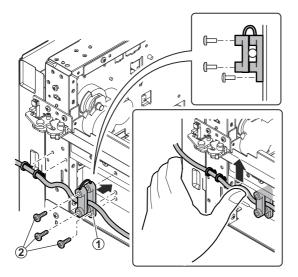


(4) Heater harness unit attachment

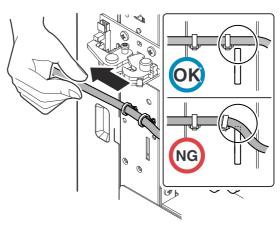
 Attach the snap band of the heater harness unit, and fix by the screw. While holding the harness upward, attach the AC cord fixer.

NOTE: After attaching the snap band, cut and trim the end of the band.

NOTE: Be careful not to mistake the attaching direction of the AC cord fixer.

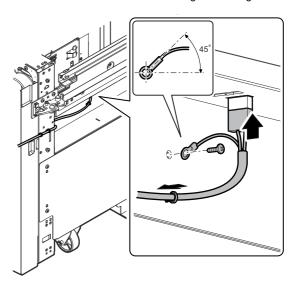


2) Pull the harness tightly in the arrow direction, and check to confirm that there is no disconnection of the snap band and that the square hole in the frame is not covered with the harness



3) Connect the connector of the heater harness unit. Attach the earth wire, and fix by the screw.

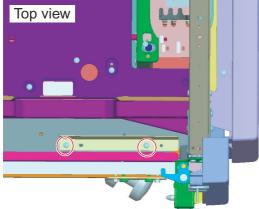
NOTE: Attach the earth wire at an angle of 45 degrees.



(5) Heater cover and heater sheet attachment

1) Attach the heater cover with the screws (M4 x 8).

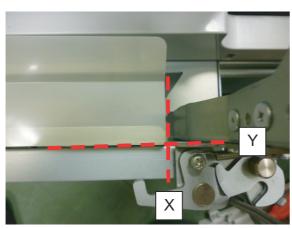




2) Attach the heater sheet.



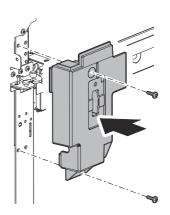
For the reference, see below.



NOTE: Attach the sheet so that it does not extend out from the X and Y lines.

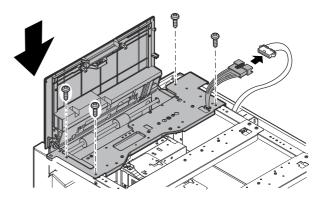
(6) Cover attachment

1) Attach the cover, and fix the screw.

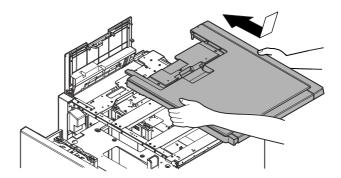


(7) Paper feed unit attachment

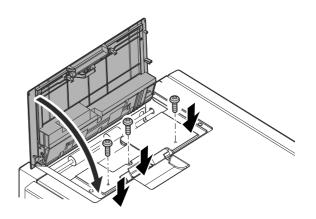
 Attach the paper feed unit, and fix by the screw. Connect the connector.



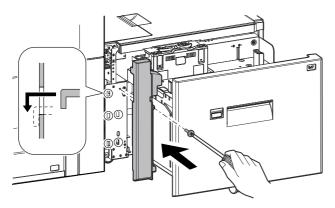
2) Attach the upper cabinet.



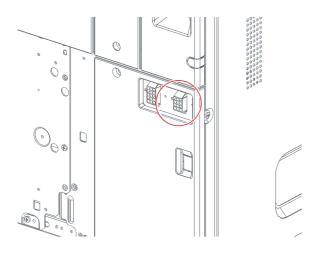
3) Fix the screw, and close the upper cover.



4) Attach the left front cabinet, and fix by the screw.



- 5) Insert the paper feed tray.
- (8) Connector connection
- 1) Remove the screw, and remove the connector cover.
- 2) Connect the connector, and tighten the screw.

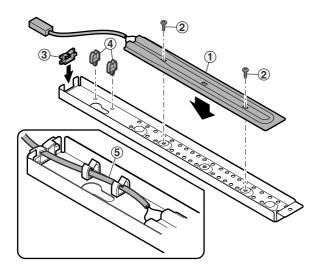


G. Installation of the LCT heater kit

(1) Assembling of the LCT heater unit (2 set)

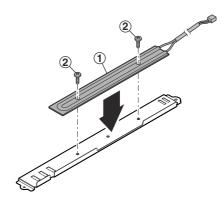
1) Attach the LCT heater to the LCT heater mount plate, and fix by the screw (M3 x 4 S-tight).

Attach the edge wire saddle and mini clamp to the desk heater mount plate, and pass the LCT heater harness through it.

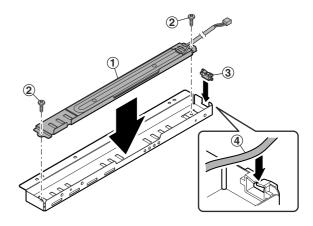


(2) Assembling of the desk heater unit (3 set)

1) Attach the desk heater to the heater heat sink, and fix by the screw (M3 x 4 S-tight).

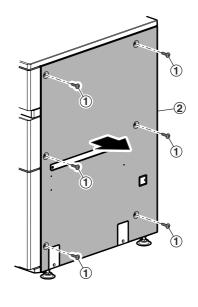


2) Attach the heater heat sink to the desk heater mount plate, and fix by the screw (M3 x 4 S-tight). Attach the edge wire saddle to the desk heater mount plate, and pass the desk heater harness through it.

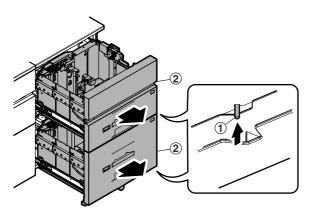


(3) Remove the paper feed tray

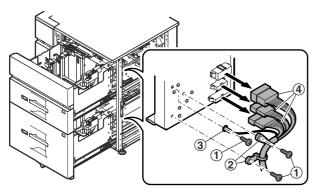
1) Remove the screw, and remove the right cabinet.



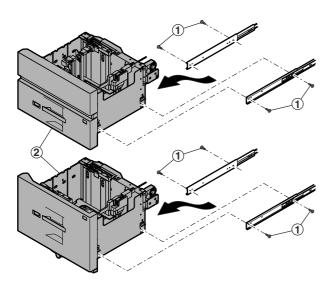
While releasing lock of the paper feed tray bottom, pull out the paper feed tray.



 Remove the screws at the back side of the paper feed tray, and remove the binding band and the earth wire. Disconnect the connector.



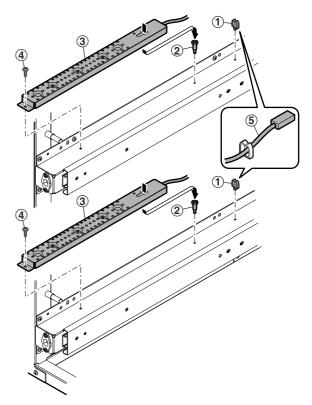
 Remove the screws at the both sides of the paper feed tray, and remove the paper feed tray from the slide rail.



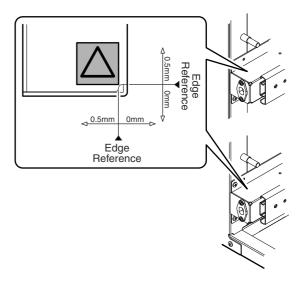
(4) Attach the LCT heater unit and desk heater unit

 Attach the mini clamp and step screw to the frame.
 Put the LCT heater unit on the step screw and fix it with the tight screw (M4 x 8 S-tight).

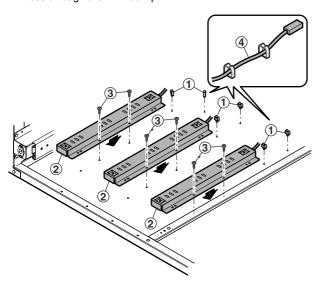
Pass the LCT heater harness through the mini clamp.



2) Affix the high temperature warning label onto the frame.

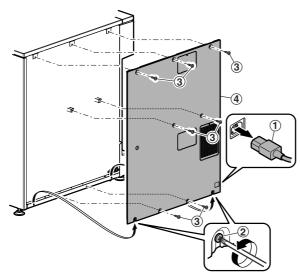


 Attach the mini clamp to the frame. Attach the desk heater unit, and fix by the screw (M3 x 6 S-tight). Pass the desk heater harness through the mini clamp.

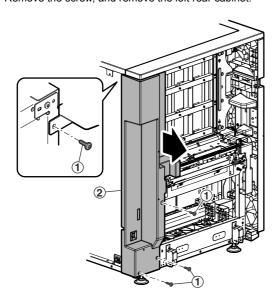


(5) Remove the rear cabinet and left rear cabinet

 Disconnect the power cord. Loosen the screws at the bottom ends. Remove the screw, and remove the rear cabinet.

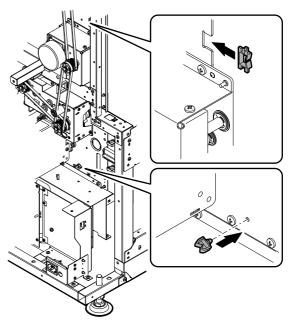


2) Remove the screw, and remove the left rear cabinet.

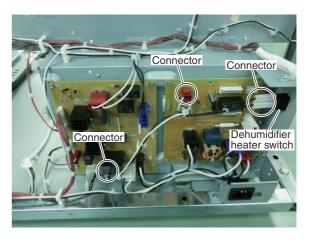


(6) Connect the harness

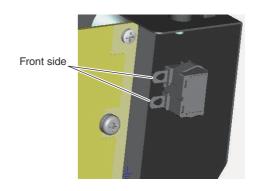
1) Attach the mini clamp and edge wire saddle to the frame.



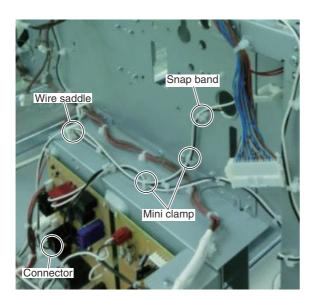
2) Attach the dehumidifier heater switch to the frame. Connect the LCT WH SW harness.



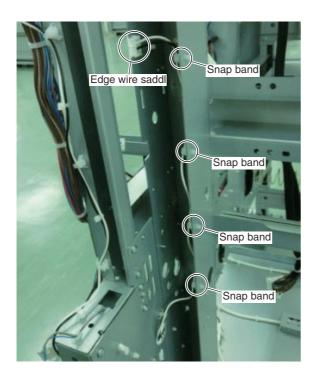
NOTE: Attach the switch to the frame; the switch terminal must be in front frame direction.



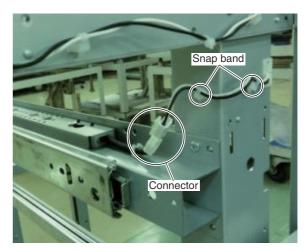
 Connect the LCT heater harness 1. Pass the LCT heater harness 1 through the wire saddle and mini clamp, and fix the snap band.



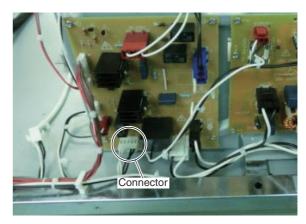
 Pass the LCT heater harness 1 through the edge wire saddle, and fix the snap band.



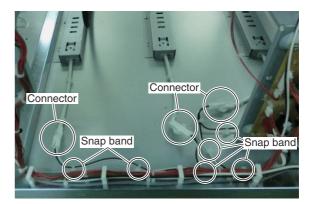
5) Fix the snap band, and connect the connector.



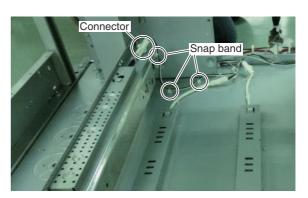
6) Connect the LCT heater harness 2.



7) Connect the connector, and fix the snap band.

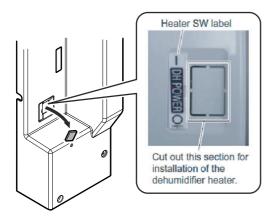


8) Connect the connector, and fix the snap band.

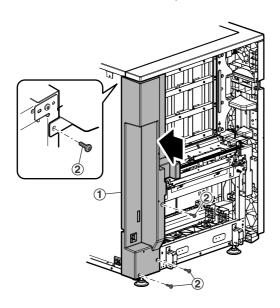


(7) Attach the left rear cabinet and rear cabinet

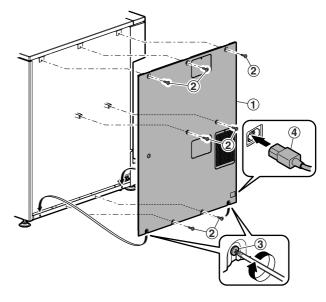
1) Cut the switch part of the left rear cabinet.



2) Attach the left rear cabinet, and fix by the screw.

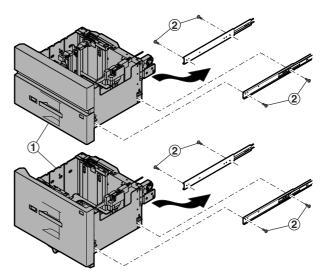


3) Attach the rear cabinet, and fix by the screw. Tighten the screw at the bottom ends. Connect the power cord.

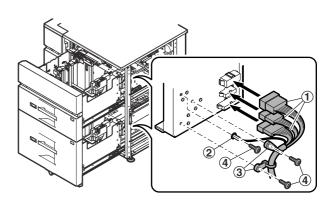


(8) Attach the paper feed tray

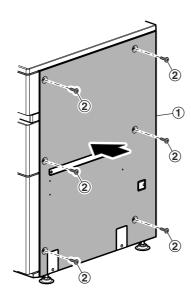
1) Attach the paper feed tray to the slide rail, and fix by the screw.



Connect the connector into the back side of the paper feed tray. Attach the earth wire and the binding band, and fix by the screw.

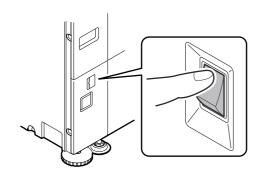


- 3) Close the paper feed tray.
- 4) Attach the right cabinet, and fix by the screw.

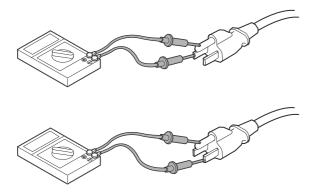


H. After installing the dehumidifier heater, check each AC cord.

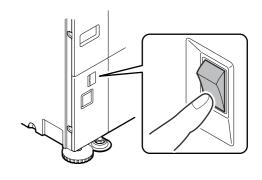
1) Turn on the dehumidifier heater switch.



 Measure the resistance value between the earth terminal and the AC terminal (L side), and between the earth terminal and AC terminal (N side) with the circuit tester, and confirm they are not short-circuited.



 When not using the heater after checking, turn off the dehumidifier heater switch.



[4] MX-MFX1 (MULTI BYPASS TRAY)

1. Unpacking

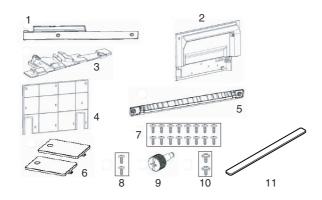
A. Pulling out of the multi bypass tray

1) Multi paper feeding unit.



B. Confirmation of the included parts

· Confirm that the parts below are included.



No.	Parts name	Quantity
1	MF rear cabinet	1
2	MF cabinet UN	1
3	Lock pawl guide	1
4	Right Lower cover	1
5	Paper guide cover	1
6	LCC cover R CD	2
7	Screw A (M4 × 10 S tapping screw)	16
8	Screw B (M4 X 8 P tapping screw)	2
9	Drive screw UN	1
10	Screw C (M4 × 8 cup type)	2
11	Operation panel protection sheet *1	1

^{*1:} Not used in this model.

2. Installation

A. Installation of the multi bypass tray

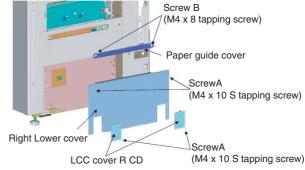
NOTE: Before installation, be sure to turn both the operation and main power switches off and disconnect the power plug from the power outlet. Make double sure that the data lamp on the operation panel does not light up or blink when performing installation.

1) Installation of components.

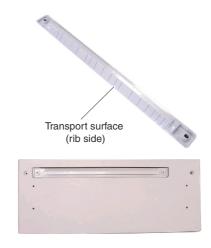
Fix the right lower cover to the right-hand side attachment part of a main unit. Fix the LCC cover "R" CD with 4 screws (M4x10) to the right side of the main unit.

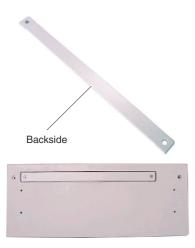
Fix the LCC lower bracket with 2 screws to the right side of the main unit.

* Please note that the orientation for the installation of Paper guide cover varies depending on whether MX-LC12 or MX-LCX3N is used.

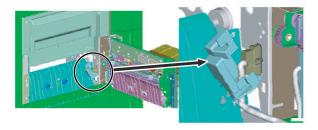


- 2) Flat side out covers the guide area (normal)
 - * Guide side is for the installation of the MX-LCX3N and MX-LC12





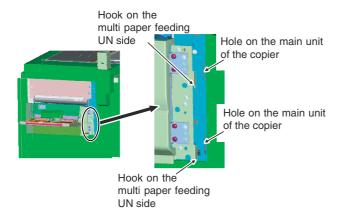
3) Open the multi paper feeding unit and insert the connecter.



* Please remove the dummy connector which is connected to the connector on the main unit side when installing the manual paper feed unit.



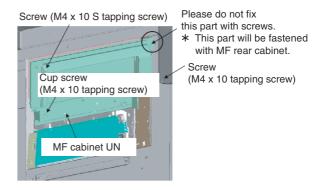
 Install the multi paper feeding unit.
 Insert the hooks on the multi paper feeding unit side to the holes on the side of the main unit to keep them joined.



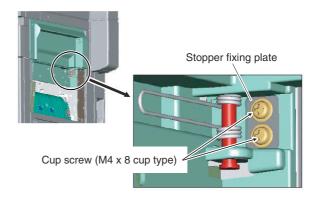
Fix the lock pawl guide with 3 screws (M4 X 10 S tapping screw.)



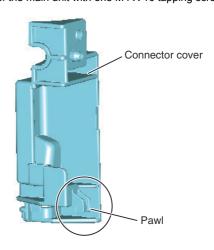
6) Fix the MF cabinet unit with 3 screws.



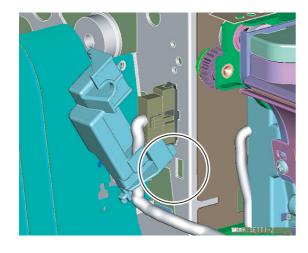
7) Fix the stopper fixing plate of MF cabinet unit with 2 pieces of screw C to the frame of the main unit of the copier.



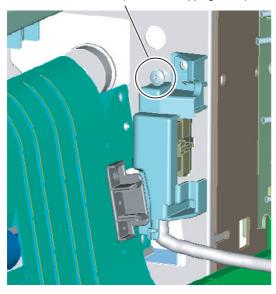
8) Fix the connector cover of the manual paper feed unit to the frame of the main unit with one M4 X 10 tapping screw.



Insert the pawl of the connector cover to the hole of the rear frame.



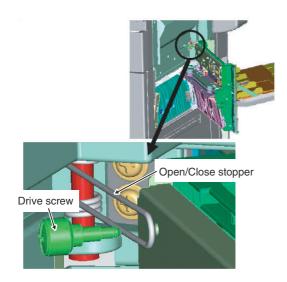
Insert screw "A" (M4 × 10 S tapping screw)

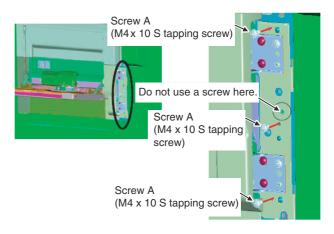


10) Fix the multi paper feeding unit.

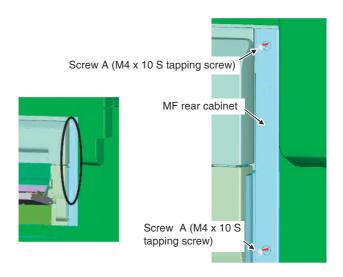
Fix the open/close stopper with the drive screw to the multifeed paper feed unit.

(Fasten along with the open/close stopper)



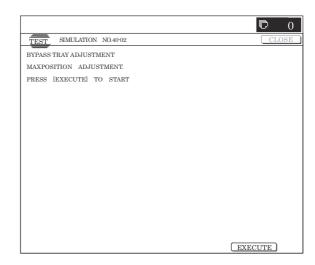


11) Fix the MF rear cabinet with 2 pieces of M4 X 10 S tapping screw to the main unit.

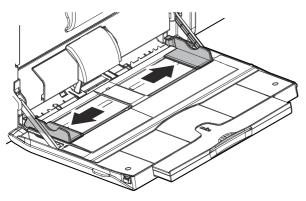


B. Adjustment

1) Enter the SIM 40-2 mode.



Open the manual paper feed guide to the maximum width, and press [EXECUTE] key.



[EXECUTE] key is highlighted. When the maximum width detection level adjustment value is saved, [EXECUTE] key returns to the normal display.

Adjustment steps and display contents

Display/Item	Content	
MAX POSITION	Maximum width detection level adjustment	
P1 (A4) POSITION	A4 width detection level adjustment	
P2 (A4R) POSITION	A4R width detection level adjustment	
MIN POSITION	Minimum width detection level adjustment	

3) Set the manual paper feed guide to the A4 width, and press [EXECUTE] key.

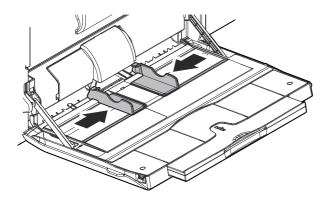
[EXECUTE] key is highlighted. When the A4 size width detection level adjustment value is saved, [EXECUTE] key returns to the normal display.

4) Set the manual paper feed guide to the A4R width, and press [EXECUTE] key.

[EXECUTE] key is highlighted. When the A4R size width detection level adjustment value is saved, [EXECUTE] key returns to the normal display

Set the manual paper feed guide to the minimum width, and press [EXECUTE] key.

[EXECUTE] key is highlighted. When the minimum width detection level adjustment value is saved, [EXECUTE] key returns to the normal display.



When the adjustment is finished, Complete is displayed.

[5] MX-LC12 (LARGE CAPACITY TRAY)

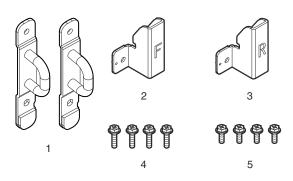
NOTE: When the MX-LC12 is installed, first install the MX-MFX1.

(The paper transport guide for the MX-LC12/MX-LC13 packed together with the MX-MFX1 is required. For the details, refer to the installation manual of the MX-MFX1.)

1. Unpacking

A. Remove the packing material and packing tape

B. Packed items check



No.	Names of bundles	Quantity
1	Mounting plate upper	2
2	Connecting plate lower front	1
3	Connecting plate lower rear	1
4	Fixing screw A (Hex washer S-tight M4x18)	4
5	Fixing screw B (Hex washer S-tight M4x12)	4

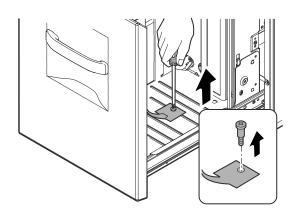
2. Installation

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

NOTE: When installing the MX-LC12, lower the adjusters of the machine to the floor.

A. Release the lock

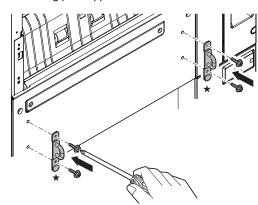
1) Remove the paper feed desk fixing screw.



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

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

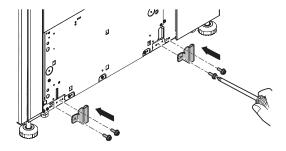
 Attach the mounting plate upper (Packed items) with the fixing screw A (Packed items) to the installation part of right side of the main unit. When installing, put the rubber section (★) of the mounting plate upper on the lower side.



 Remove the fixing screws of the front/rear cover on the lower part of the main unit. Attach the connecting plate lower front (Packed items) to the lower front side of the main unit with the fixing screw B (Packed items).

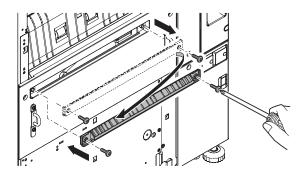
Attach the connecting plate lower rear (Packed items) to the lower rear side of the main unit with the fixing screw B (Packed items).

NOTE: Remove the front and rear covers, then remove the screws (in the rear side only) as shown in the figure below. (The removed screws are not used.)



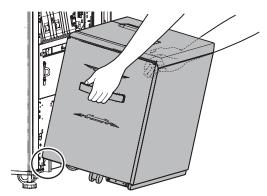
- Remove the fixing screws (2 pcs.) of the machine entry port, and remove the Paper guide cover.
- Reverse the entry port cover and re-attach it to the machine.
 Secure it with the two previously removed screws in procedure
 3).

NOTE: Be careful not to make a scratch for the paper pass surface of entrance cover at the installation.

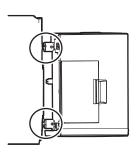


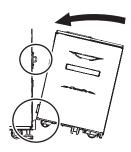
C. Connection of the main unit and the large capacity tray unit

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



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

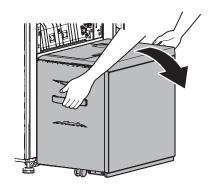




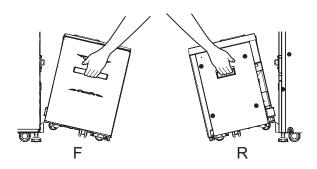
To confirm that the large capacity tray is locked into place pull it in the direction of the arrow as shown.

NOTE: If lock is incomplete, when the power switch is turned on, the message, "Check installation of tray 5" is displayed on the operation panel.

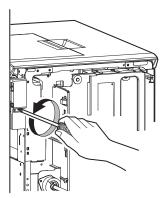
NOTE: Push the large capacity tray onto the machine, and lock it securely.



NOTE: When lifting the LCC, insert fingers firmly into the grip sections of the front and rear cabinets and install slowly.



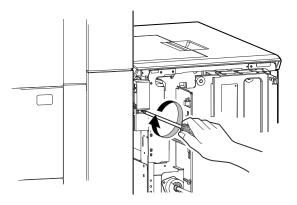
NOTE: Turn the lock release screw of the front cover counterclockwise to loosen and check that the screw is free.



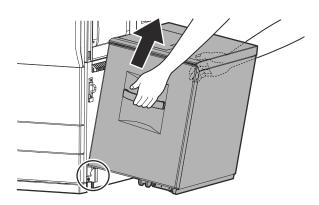
* If the screw is tight at that time, installation will be incomplete.

How to separate the large capacity tray from the main unit

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

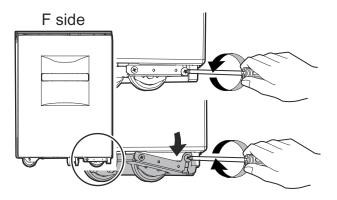


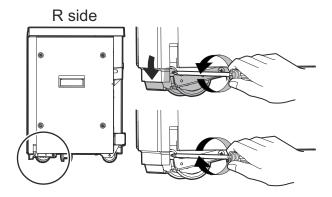
 Then hold the grips of the front and the rear cabinets with both hands, and lift the left side. The large capacity tray will come off



D. Adjusting the casters

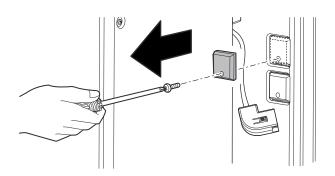
- After installing the large capacity tray to the main unit, loosen the screws (one in the front and one in the rear) of the adjustment caster mounting plate attached to the lower side of the large capacity tray.
 - At that time, the casters of the adjustment caster mounting plate are brought into contact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



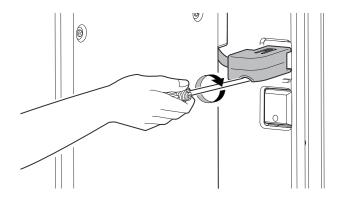


E. Connector connection

 Remove the fixing screw from the connector cover on the main unit and then remove the connector cover.



 Connect the large capacity tray interface harness connector to the main unit connector, and tighten the connector screw to fix the connector.

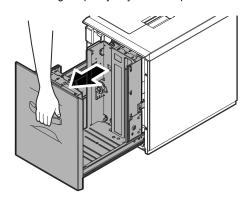


F. Paper size switch

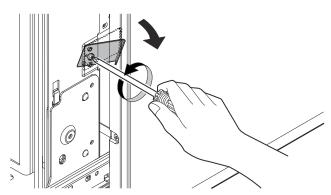
(1) Paper size switch from A4 to LT

Since the factory setting of the paper size is A4 or LT, if paper size switch is required, perform the following procedures.

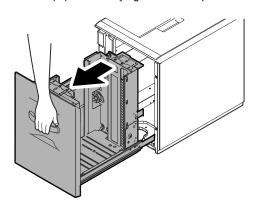
1) Pull out the large capacity tray until it stops.



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

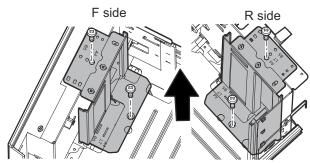


3) Then pull out the paper feed tray again until it stops.

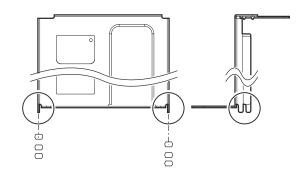


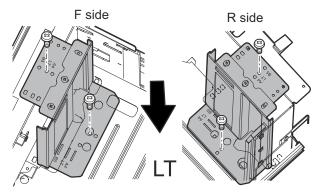
a. Side plate size switch

 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.



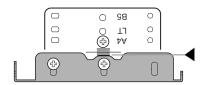
2) Then fit the paper feed tray on the lower side of the side plate F and the side plate R with the engraved marks of the side plates according to the size, and insert it. Also fit the upper side to the size and fix it with the four fixing screws (blue) that have been removed in step 1).



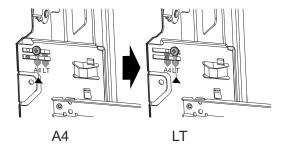


b. Auxiliary guide size switch

 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 fixing screw (flat screw 1pc.) of the auxiliary guide.
- 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.).

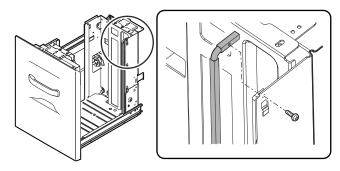


At that time, adjust so that the mark positions (\blacktriangle) on the auxiliary guide and the cassette R are at the same positions of the mark positions (\blacktriangleleft) of the side plate R and the size guide adjustment plate checked in the procedure 1).

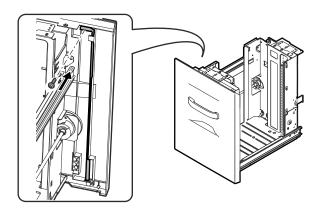
(If the scale of the size guide adjustment plate is at the center, set it to the center. If the size guide adjustment plate is in 1mm in the front side, set it in 1mm in the front side.)

c. Rear edge shaft switch

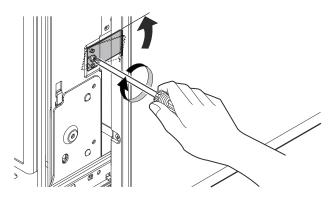
 Remove the rear edge shaft fixing screw (blue) on the right side of the paper feed tray, and remove the rear edge shaft.



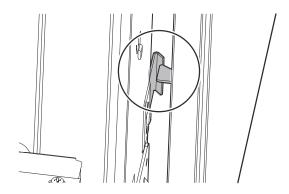
Tighten the removed rear edge shaft with the fixing screw (blue), and store it in the storage space inside the front cabinet.



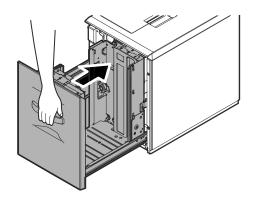
3) Push the paper feed tray slightly, and return the disabled stopper to the original position, and fix with the fixing screw (1pc.).



At that time, check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray unit.



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



G. Turn on the power of the main unit

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

H. Size setting

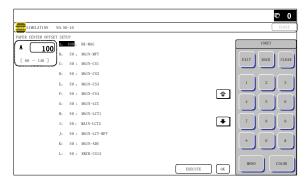
Execute SIM 26-2 "Size setting" with the key operations of the main unit.

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

Off-center adjustment (90cpm only)

(1) Adjustment with the simulation

Run SIM 50-10 using the keypad on the main unit.
 The following screen appears.

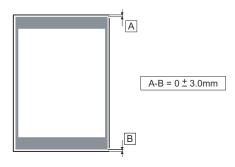


- This screen allows you to configure the print off-center adjustment value for each paper feed tray.
- On the touch panel, press [☐] to select "G: 50 :MAIN-LCC."
- Enter the desired adjustment value through the numeric keypad.

(This value, which defaults to 50, can be adjusted within the range of 1 to 99).

- Reducing the adjustment value by 1 causes the main scan/ print position to shift by 0.1 mm toward the rear.
- Increasing the adjustment value by 1 causes the main scan/ print position to shift by 0.1 mm toward the front.
- 5) After entering the adjustment value, press the [EXECUTE] key on the touch panel to start printing and save the setting.
- Check that the adjustment pattern image is printed in the correct position.

Measure the dimensions of the void areas on the front- and rear-frame sides of the adjustment pattern image, and make sure that the following conditions are met:



No adjustment is needed if A - B = $0 \square 3.0$ mm.

If the above condition is not met, do the following:

7) Change the adjustment value.

(Enter a new adjustment value and press the [OK] key).

Changing the adjustment value by 1 shifts the position by approximately 0.1 mm.

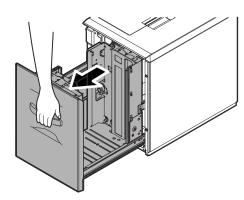
Repeat steps 4) to 6) until the condition shown in step 6) is satisfied.

 After you have completed the adjustment, exit from simulation mode by pressing the [CA] key.

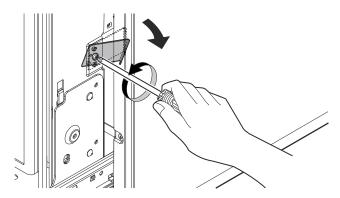
(2) Mechanical adjustment

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

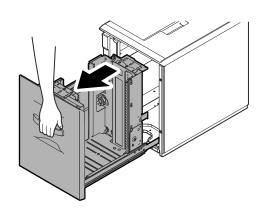
1) Slowly pull out the tray until it stops.



Loosen the stopper fixing screw (1 pc) on the right lower side of the tray so that the stopper does not function.



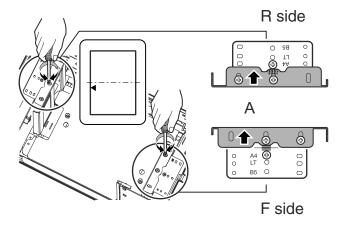
3) Pull out the tray again until it stops.

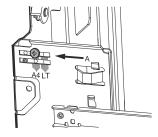


a. When the shift is in the front side

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

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





Slightly push the tray, restore the stopper to the original position, and fix the fixing screw.

Check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray.

2) Slowly insert the tray to the original position.

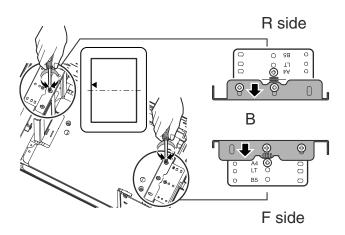
Then make a copy to check to insure that there is no more shift. Repeat the procedures until there is no shift.

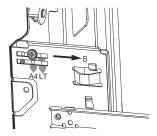
b. When the shift is in the rear side

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

 Loosen two fixing screws (red screws) of the front/rear size guide adjustment plate, and move the size guide adjustment plate in the direction B (F side) by the shift amount, and tighten the red fixing screws (2 for each). Restore the stopper to the original position, and fix it with the fixing screws. Move the auxiliary guide in the direction B by the same size.

Check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray.





2) Slowly insert the tray to the original position.

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

[6] MX-LCX3N (LARGE CAPACITY TRAY)

Note before unpacking

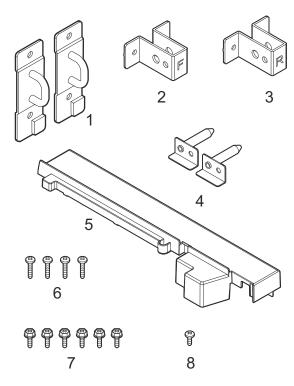
When the MX-LCX3N is installed, first install the MX-MFX1. (Installing of the paper transport guide (for MX-LC12/MXLCX3N) which is included in the MX-MFX1 is required.) MX-LCX3N is inestimable only to DP-9077.

However, firmware version-up of MX-LCX3N is required. (For supporting the high-speed printing)

1. Unpacking

A. Remove the packing material and packing tape

B. Packed items check



No.	Name	Quantity
1	Mounting plate upper	2
2	Connecting plate lower front	1
3	Connecting plate lower rear	1
4	Positioning plate	2
5	Left front cabinet	1
6	Fixing screw A (S-tight, M4 X 18)	4
7	Fixing screw B (Hexagon with seat, S-tight, M4 × 12)	6
8	Fixing screw C (Binding head S tight M4 × 8)	1

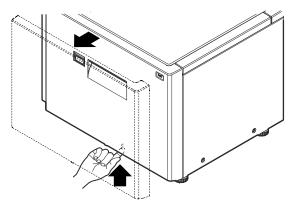
2. Installation

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

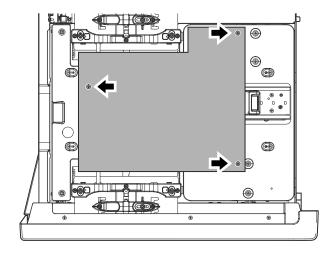
A. Release the lock

1) Manually pull out the cassette.

Push the shaft at the rear side of the front cabinet up to release the lock.



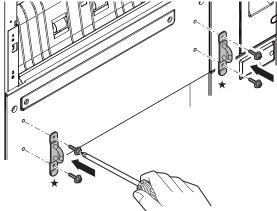
Remove the fixing screws (3 pcs.) of the paper feed table of the LCC, and remove the cautionary note.



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

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

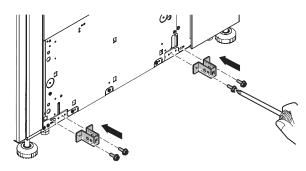
Attach the mounting plates upper (Packed items) with the fixing screw A (Packed items) to the installation part of right side of the main unit. When installing, put the rubber section (★) of the mounting plates upper on the lower side of each plate.



2) Remove the fixing screws of the front/rear cover on the lower part of the main unit. Attach the connecting plate lower front (Packed items) to the lower front side of the main unit with the fixing screw B (Packed items).

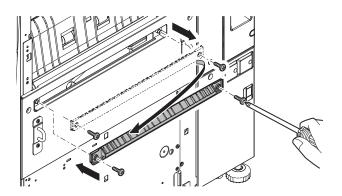
Attach the connecting plate lower rear (Packed items) to the lower rear side of the main unit with the fixing screw B (Packed items).

NOTE: Remove the front and rear covers, then remove the screws (in the rear side only) as shown in the figure below. (The removed screws are not used.)



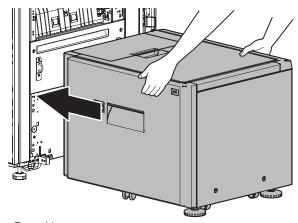
- Remove the fixing screws (2 pcs.) of the machine entry port, and remove the Paper guide cover.
- Reverse the entry port cover and re-attach it to the machine. Secure it with the two previously removed screws in procedure 3).

NOTE: Be careful not to make a scratch for the paper pass surface of entrance cover at the installation.

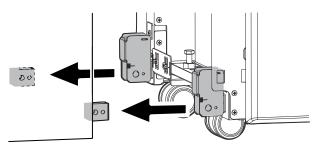


C. Installation to the main unit and height adjustment

 Use the edge of the connection plates F/R mounted to the lower side of the machine and the mark on the mounting plate in the lower left side of the LCC to check the installation height. Front side



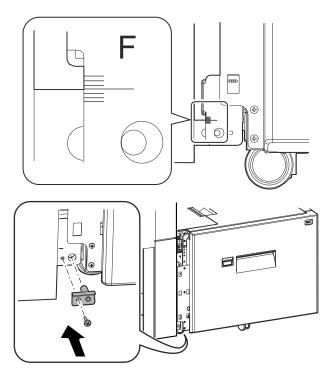
Rear side



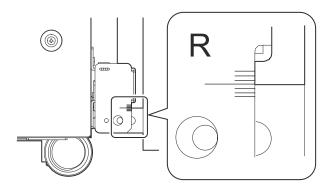
a. When the height is properly adjusted:

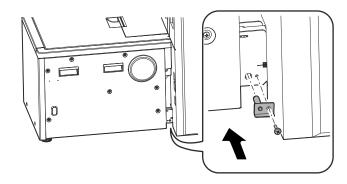
When connecting plates, front and rear, and mounting plates are aligned to the center hash mark, install the positioning plates (Packed items) and secure each with a screw B (Packed items) to lock the LCX3N to the machine.

Front side



Rear side

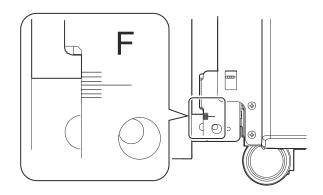




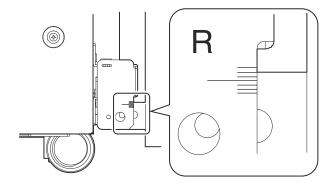
b. When the height is not properly adjusted:

Use the adjustment device on the lower left side of the LCC to adjust the height of the left caster section.

Front side

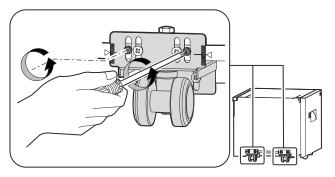


Rear side



<1>

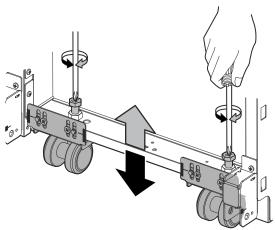
Loosen the hex washer based screws on the both ends of the caster movable plate on the front and the rear sides.



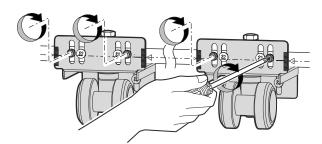
<2>

Turn the adjustment screw behind the plate to adjust the height.

After adjustment tighten the screws on the both ends of the caster movable plate which were loosened in the previous procedure.



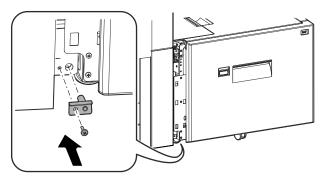
NOTE: Adjust so that the marks on the left and the right sides of the caster movable plate and the lead edge of the triangular hole are at the same height.



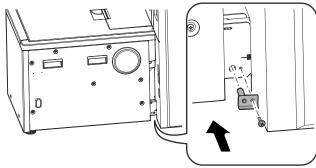
<3>

Check the height in procedure C-1). If the height is not proper, go to <2>. If the height is proper, install the positioning plates to the front and the rear sides and secure them with the fixing screws B (1 pc. for each side).

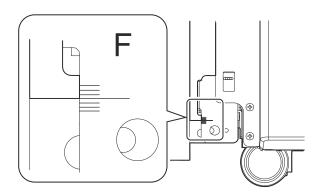
Front side



Rear side



c. If the upper section of the LCC left side is locked first and the positioning plate cannot be inserted :



<1>

Loosen the caster screw in the lower section of the LCC right side

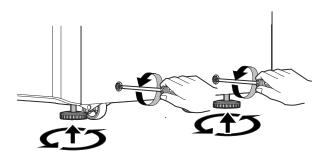
<2>

Turn the adjuster to lower the LCC right side.

<3>

Tighten the caster screw.

Right side

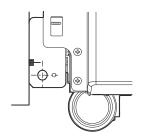


Since the LCC may be moved by the paper weight when closing the tray, the adjuster must be securely on the floor.

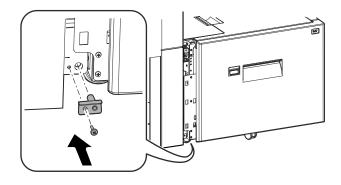
<4>

Check the height in procedure 1). If the height is not proper, separate the LCC (the procedure is described later) and go to "b"

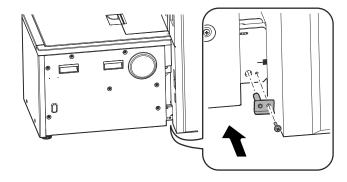
If the height is proper, install the positioning plates to the front and the rear sides with fixing screws B.



Front side



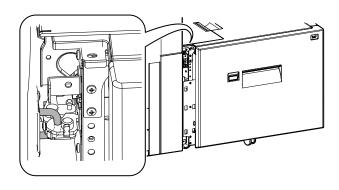
Rear side



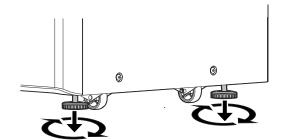
Check to confirm that the upper section of the LCC left side is locked.

After checking, lower the adjuster on the lower section of the LCC right side until it does not rotate.

Locked state



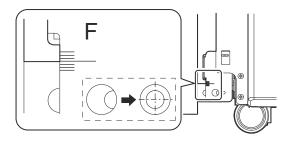
Adjuster section



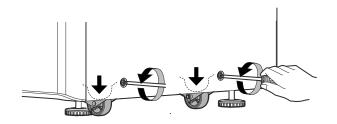
- When the upper side is not locked

Raise the adjuster on the lower side of the LCC right side until the hole shown in the figure below becomes centered, and check that it is locked.

* If not locked, when the power switch is turned on, the message, "Check installation of tray 5" is displayed on the operation panel.

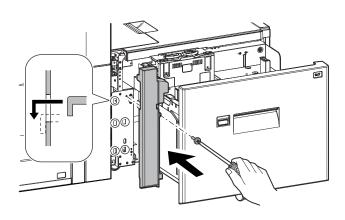


 Check that the right caster section is touching the ground.
 Loosen two screws on the lower side of the LCC right side, lower the caster to the floor, and tighten the screws.



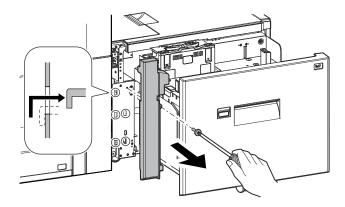
2) Installation of the left front cabinet

Engage the pawls of the left front cabinet (Packed items) with the five square holes in the left front side of the LCC, and install the left front cabinet and secure with the fixing screw C (Packed items) (1 pc.).

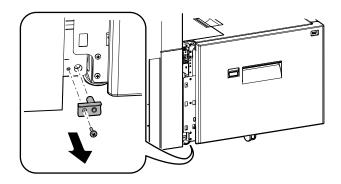


[How to separate the LCC from the machine]

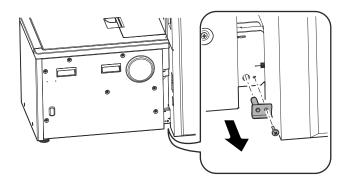
1) Remove the left front cabinet of the LCC.



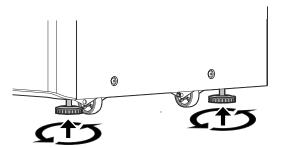
 Remove the positioning plate installed to the front and the rear sides of the left lower side of the LCC.
 Front side



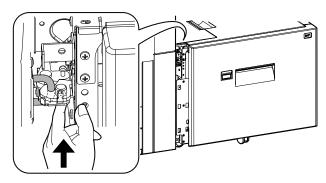
Rear side



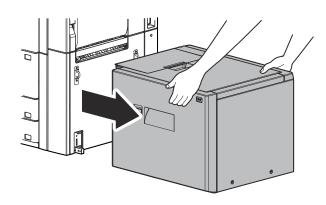
3) Raise the adjusters on the front and the rear sides of the lower section of the LCC right side.



4) Push the resin cover part beneath the lock section on the top of the left side of the LCC to shift the LCC to the right. Release the top lock.

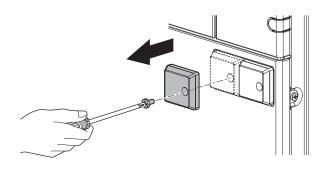


5) Shift the LCC to the right to separate.

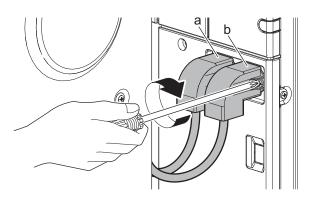


D. Connector connection

 Remove the screw from the upper connector cover and remove the cover to install the LCC. The lower connector cover is for the heating interface harness.

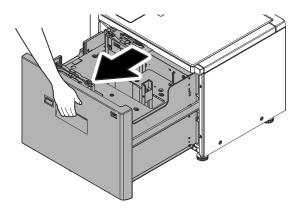


2) Connect the large capacity tray interface harness connector to the upper connector (a) and secure the connector with the screw that is molded in the connector. If a heater interface is being installed, connect the interface harness for the heater in connector (b) - the lower connector.



E. Select the paper size

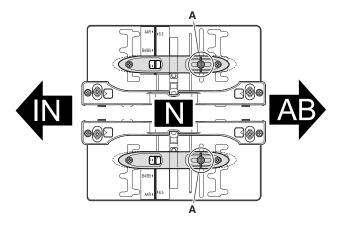
1) Slowly pull out the paper feed tray until it stops.



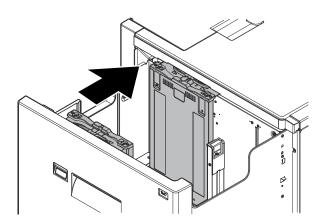
2) Side plate size adjustment.

<1:

Loosen the wing bolt (A) on the front and the rear side of the LCC upper part, and slide the handle to the neutral position.



<2> Move the side plate to the desired paper size position.

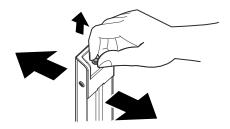


Slide the handle to the desired paper size position, and lock it and tighten the wing bolt (A).

3) Rear edge plate size changeover

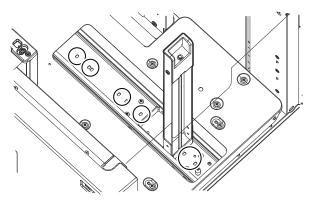
<1>

Lift the MC-CL handle at the top of the rear edge plate and shift it to the desired paper size position.



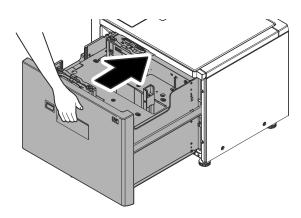
<2>

Insert the lead edge of the movable shaft into the hole in the lower section of the rear edge plate with the upper lever, and lock the rear edge plate to the desired paper size position.



<3>

Push the large capacity tray into the closed (locked) position.



F. Turn on the power of the main unit

NOTE: The firmware of the MX-LCX3N must be upgraded for supporting high-speed printing.

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

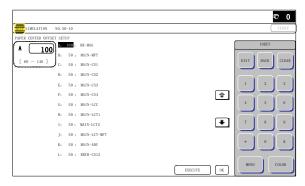
G. Size setting

- Menu screen is displayed on the touch panel. Select the [Paper Tray Settings].
- Select the paper size of LCC from contents of [Paper Tray Settings].

H. Carry out the print off-center adjustment (90cpm only)

(1) Adjustment with the simulation

Run SIM 50-10 using the keypad on the main unit.
 The following screen appears.

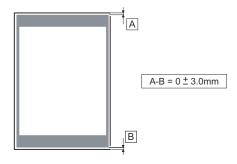


- This screen allows you to configure the print off-center adjustment value for each paper feed tray.
- On the touch panel, press [☐] to select "G: 50 :MAIN-LCC."
- Enter the desired adjustment value through the numeric keypad.

(This value, which defaults to 50, can be adjusted within the range of 1 to 99).

- Reducing the adjustment value by 1 causes the main scan/ print position to shift by 0.1 mm toward the rear.
- Increasing the adjustment value by 1 causes the main scan/ print position to shift by 0.1 mm toward the front.
- After entering the adjustment value, press the [EXECUTE] key on the touch panel to start printing and save the setting.
- Check that the adjustment pattern image is printed in the correct position.

Measure the dimensions of the void areas on the front- and rear-frame sides of the adjustment pattern image, and make sure that the following conditions are met:



No adjustment is needed if A - B = $0 \square 3.0$ mm.

If the above condition is not met, do the following:

7) Change the adjustment value.

(Enter a new adjustment value and press the [OK] key).

Changing the adjustment value by 1 shifts the position by approximately 0.1 mm.

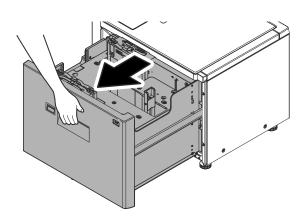
Repeat steps 4) to 6) until the condition shown in step 6) is satisfied.

 After you have completed the adjustment, exit from simulation mode by pressing the [CA] key.

(2) Mechanical adjustment

Since the off-center adjustment has been made at shipping, there is normally no need to adjust. If the center is shifted, however, adjust with the simulation. If the shift is not corrected, perform the following steps to adjust.

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

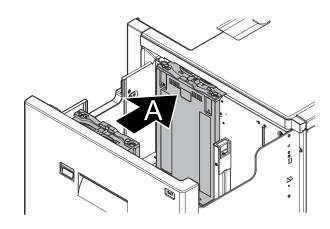


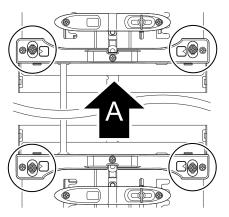
a. When shifted to the front side

When shifting the line of printing from the center of the paper in the direction A of arrow as shown below:

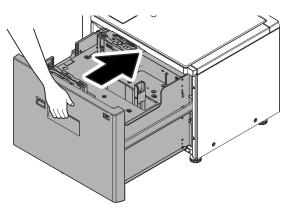
 Loosen the blue off-center adjustment screws (each 2 pcs.), and move the side plate by the dimension shifted in the direction A (R side), and tighten the loosened blue screws.

NOTE: Move the side plates by the same dimension on the front side and the rear side.





2) Push the large capacity tray into the closed (locked) position.



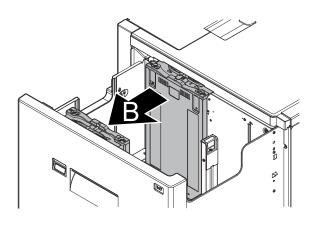
Then make a copy again to check to insure that there is no shift. Repeat this procedure as required.

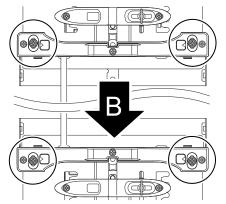
b. When shifted to the rear side

When shifting the line of printing from the center of the paper in the B direction of arrow as shown below:

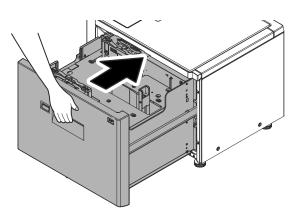
 Loosen the blue off-center adjustment screws (each 2 pcs.), and move the side plate by the dimension shifted in the direction B (F side), and tighten the blue screws.

NOTE: Move the side plates by the same dimension on the front side and the rear side.





2) Push the large capacity tray into the closed (locked) position.



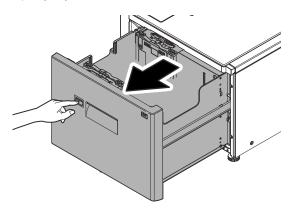
Then make a copy again to insure that there is no shift. Repeat this procedure as required.

(3) Regulation plate adjustment

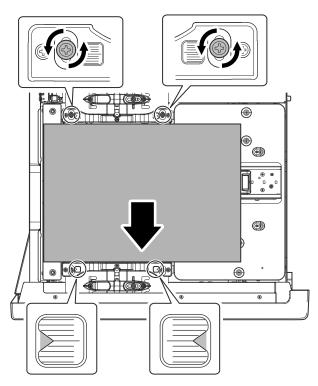
Since the regulation plates are adjusted when shipping, there is basically no need to readjust. If, however, there is skew, adjust the regulation plate width and the diagonal feed in the following procedures:

a. Regulation plate width adjustment

 Press the lock button on the front cabinet and lower the paper feed base tray to the paper supply position. Pull out the large capacity tray.

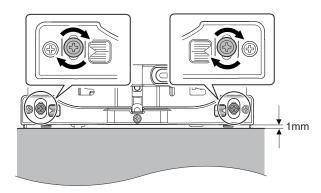


2) Set a sheet of paper on the paper feed base tray. Check that the front regulation plate is at the marked center, and push it in contact with the front regulation plate. Loosen the blue screws of the rear regulation plate.



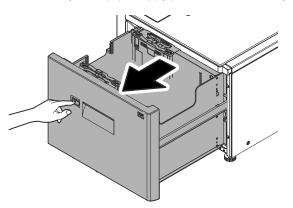
 Use the mark of the rear regulation plate, and fix the blue screws at the position so that the clearance between paper and the rear regulation plate is evenly 1mm.

NOTE: The positions of the regulation plates are even to the right and left marks.

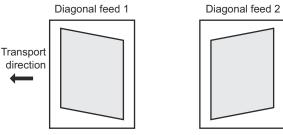


b. Diagonal feed adjustment

 Press the lock button on the front cabinet and lower the paper feed base tray to the paper supply position. Pull out the tray.

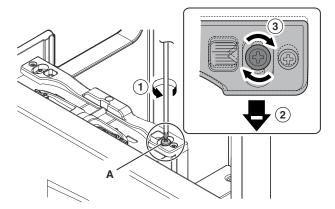


2) Adjust the diagonal feed.



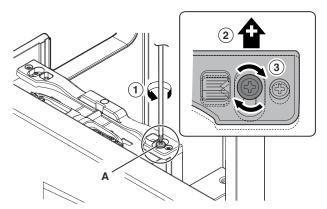
In the case of diagonal feed 1

Loosen the blue screw (A) on the front regulation plate. Referring to the degree of diagonal feed, move the regulation plate in the direction of (-) and fix the blue screw.



In the case of diagonal feed 2

Loosen the blue screw (A) on the front regulation plate. Referring to the degree of diagonal feed, move the regulation plate in the direction of (+) and fix the blue screw.



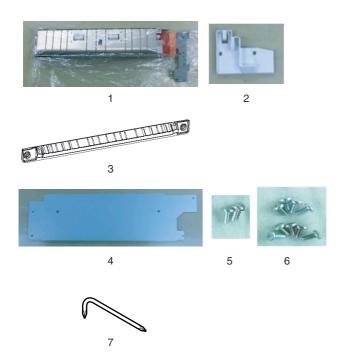
 Set a sheet of paper on the paper feed base tray and adjust the regulation plate width. (Refer to "a. Regulation plate width adjustment.")

NOTE: After completion of the adjustment, check that the front and rear regulation plates are parallel to each other.

[7] MX-RB16 (PAPER PASS MODULE)

1. Unpacking

- A. Unpacking
- B. Removal of the fixing tape and protection material
- C. Packed items check

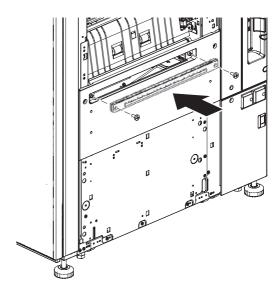


No.	Name	Quantity
1	Connection unit	1
2	Lock pawl guide	1
3	Paper guide cover	1
4	Machine transport frame	1
5	Screw (M4 x 10 P)	2
6	Screw (M4 x 8 S)	9
7	L-shape driver	1

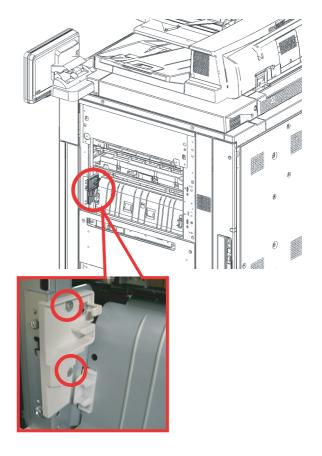
2. Installation

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

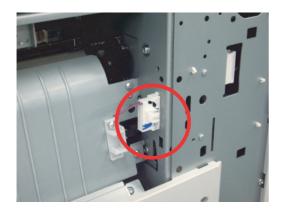
1) Attach the Paper guide cover to the machine with the screws (Packed items No.3) so that the transport surface can be seen.



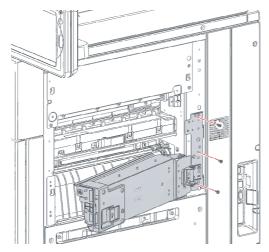
2) Fix the lock pawl guide to the main unit with screws.



3) Remove the dummy connector.



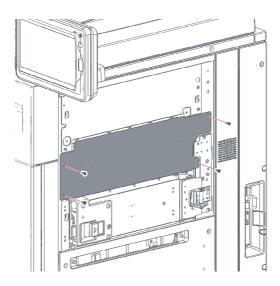
4) Fix this unit to the main unit with screws.



5) Joint the connector.



6) Fix the cover with screws.



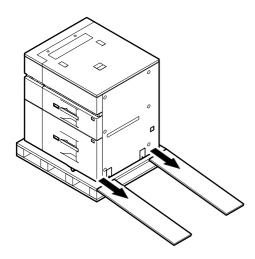
[8] MX-LC13 (LARGE CAPACITY TRAYS)

1. Unpacking

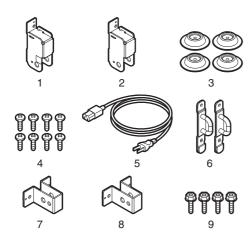
A. Remove the large capacity trays

 Remove the machine from the palette with a forklift or a slope (6LS06279000).

NOTE: When using a forklift, raise the casters to the top in order not to break them.



B. Packed items check



No.	Name	Quantity
1	LCT connecting plate F	1
2	LCT connecting plate R	1
3	Height adjustment plate	4
4	Screw (S-tight, M4 x 8)	8
5	Power cable	1
6	Connecting plate upper	2
7	Connecting plate lower F	1
8	Connecting plate lower R	1
9	Screw (Hex washer S-tight M4 x 18)	4

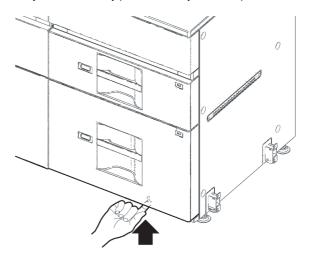
2. Installation1

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

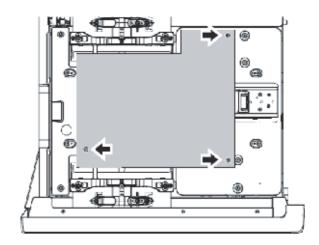
NOTE: When installing this machine in a place of low atmospheric pressure, check and conform to the adjustment contents in the MX-LC13 Service Manual.

A. Release the lock

Draw out the second tray from the unit.
 Push the button of the bottom side of the unit to unlock the tray, and then slowly pull out the tray until it stops.



2) Remove 3 screws from the tray.

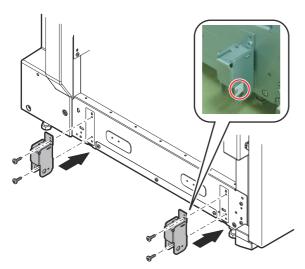


3) Slowly insert the tray to the original position.

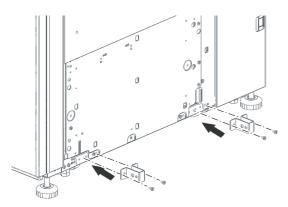
B. Install to the machine

1) Attach the LCT connecting plate to the large capacity trays with screws (Packed items No. 4 S-tight, M4 x 8).

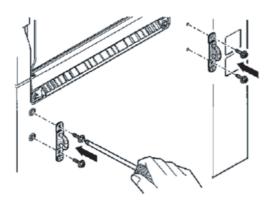
MEMO: The reference label is attached to the plate. Attach it so that the label can be seen from the outside.



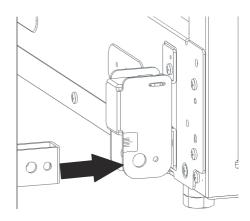
 Attach the connection plates (F/R) to the machine with screws (Packed items No. 4 S-tight, M4 x 8).



3) Fix the upper mounting plates to the main unit with the screws (Packed items No. 11 Hex washer S-tight M4 x 18).



4) Joint the LCT connecting plates (F/R) fixed to MX-LC13 and the connecting plates (F/R) fixed to the main unit.



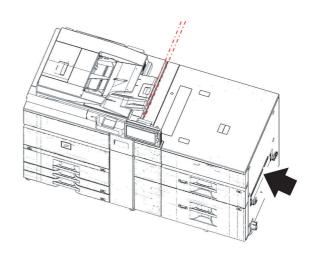
NOTE: Note for separation

When separating, tighten the screw to release the lock.

When connecting again, loosen the screw after connection.

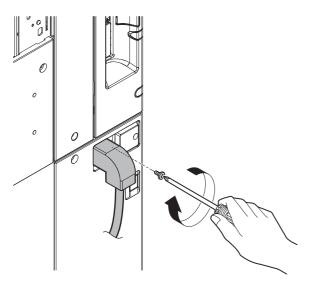


 Ensure even clearance of the upper section by pushing the MX-LC13.



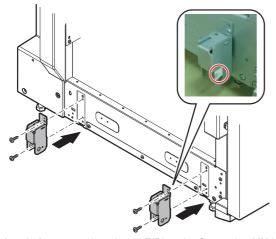
Connect the connector from MX-LC13 to the machine and tighten the screw.

NOTE: Use an L-shape screwdriver(Used with RB16, RB17_packed items No.7).

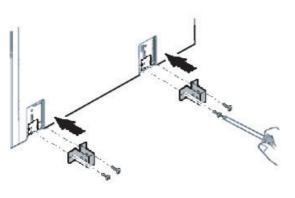


C. When connecting two units

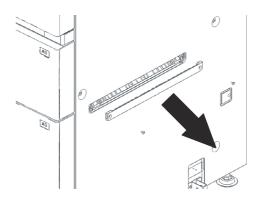
- 1) Install the MX-RB17.
- 2) Attach the LCT connecting plate to the large capacity trays with the screws (Packed items No. 4 S-tight, M4 x 8). MEMO: The reference label is attached to the plate. Attach it so that the label can be seen from the outside.



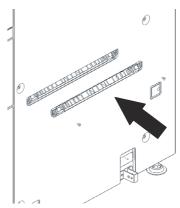
3) Attach the connection plates (F/R) to the first-series MX-LC13 with the screws (Packed items No. 4 S-tight, M4 \times 8).



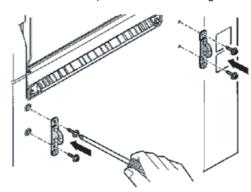
4) Remove the screw, and remove the paper guide cover in the right side of the first-series MX-LC13.



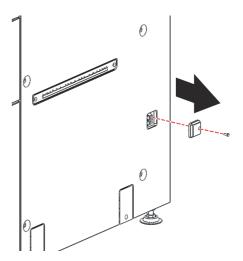
5) Turn the paper guide cover over and fix it with screws again.



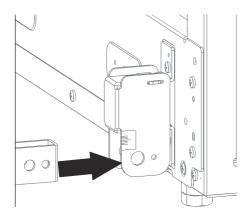
6) Attach the connection plate (Upper) to the first-series MX-LC13 with the screws (No. 11 Hex washer S-tight M4 x 18).



7) Remove the connector cover of the first-series MX-LC13.

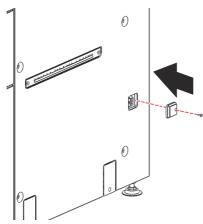


 Fit the connection plates (F/R) attached to the first-series MX-LC13 with the LCT connection plates (F/R) attached to the second-series MX-LC13.



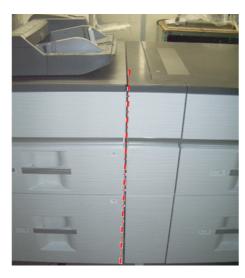
 Attach the harness of the second-series MX-LC13 to the firstseries MX-LC13, and tighten the screw of the harness to fix.

NOTE: Use an L-shape screwdriver.



Adjust the clearance of the exterior cabinet evenly.
 See drawing below.

Front side



Rear side



Adjust the height of the exterior cabinet to the same level.
 Front side



Rear side



 Ensure even clearance of the upper section between the first and the second MX-LC13 bypushing the second series MX-LC13.

D. Turn ON the power of the main unit

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

E. Size setting

- Check to insure that the main body is standby state, and press the [System setting] key on the operation panel.
- Menu screen is displayed on the touch panel. Select the [Paper Tray Settings].
- Select the paper size of large capacity tray from contents of [Paper Tray Settings].

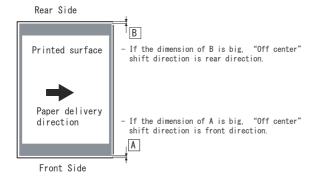
F. Off-center adjustment

(1) Off-center check

Since the off-center adjustment has been made at shipping, there is normally no need to adjust. If, however, the center is shifted, carry out the following steps to adjust.

- 1) Run Sim50-10 using the keypad on the main unit.
- This screen allows you to configure the print off-center adjustment value for each paper feed tray.
- On the touch panel, press DOWN key to select "H: 50: MAINLCT1" and press the [EXECUTE] key
- Check that the adjustment pattern image is printed in the correct position.

Measure the dimensions of the void areas on the front and rear frame sides of the adjustment pattern image, and make sure that the following conditions are met:



A - B =

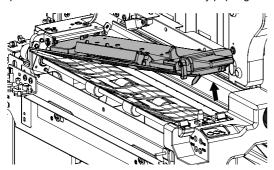
2. Omm < Mechanical adjustment2 < 3. Omm < Mechanical adjustment1

"A-B" is over 3mm: Move to Mechanical Adjustment 1
"A-B" is less than +/-3mm: Move to Mechanical Adjustment 2

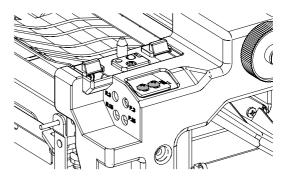
(2) Mechanical Adjustment

a. Mechanical Adjustment1

1) Open the left side door and the LCT delivery paper guide unit.



2) Loosen the 2 blue screws.

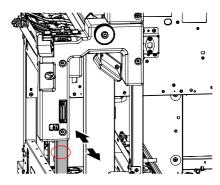


 Adjust the LCT position to push or pull with holding the pillar of LCT as the figure below.

In case the print image shifts to front: Push LCT to rear direction.

In case the print image shifts to rear: Pull LCT to front direction.

After finish the adjustment, fix the unit with the 2 blue screws.



If these adjustment above couldn't adjust Off-center completely, the following adjustment is needed.

When shifting the line of printing from the center of the paper in the direction A of arrow as shown below:

1) Separate the LCT from the main unit.

When separating, tighten the screw to release the lock.

When connecting again, loosen the screw after connection.



- 2) Open the left side door and open the LCT delivery paper guide unit
- 3) Loosen the 2 blue screws.

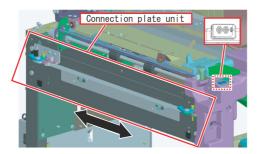
 Shift the connection unit to the following direction and fix the 2 blue screws.

In case the print image shifts to front;

- Shift the Connection plate unit to the front.

In case the print image shifts to rear: Use F hole.

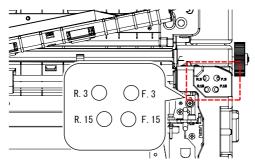
- Shift the Connection plate unit to the rear.



 Stick a standard type cross slot screwdriver to the adjustment hole, the connection plate unit position can be adjusted to the following 4 steps.

F1.5 / 3: Shift the unit 3 / 1.5 mm to front.

R1.5 / 3 : Shift the unit 3 / 1.5 mm to rear.



6) Reinstall MX-LC13 to the main unit.

Use the mark of the rear regulation plate, and fix the blue screw at the position so that the clearance between paper and the rear regulation plate is evenly 1mm.

NOTE: Fasten the screw which was unfastened in the proceudre 1).

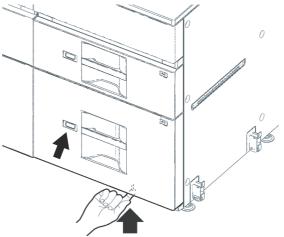
NOTE: When installing this machine in a place of low atmospheric pressure, check and conform to the adjustment contents in the MX-LC13 Service Manual.

b. Mechanical Adjustment2

1) Pull out the cassette.

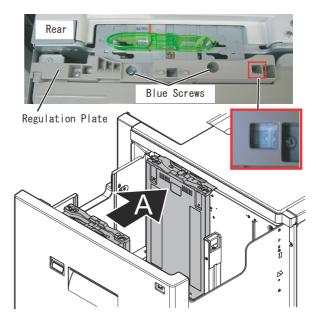
Press the lock button on the front cabinet and lower the paper feed base tray to the paper supply position. Pull out the tray.

* In case the machine is turned off, If it is necessary to release the lock manually, push the shaft at the bottom of the front cabinet and lower the paper feed base tray to the paper supply position and pull out the tray.



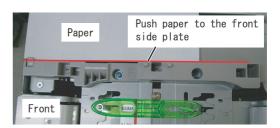
When shifting the line of printing from the center of the paper in the direction A of arrow as shown below:

 Loosen the blue screws of the rear regulation plate, and move the plate with referring the carved marks by the dimension shifted in the direction A (R side), and tighten the blue screws.



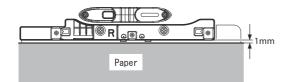
 Set a sheet of paper on the paper feed base tray and loosen the blue screws of the front regulation plate.

Move the front regulation plate to the direction A (R side) with pushing paper to the front regulation plate.



4) Set the front regulation plate to make gap between the rear sideplate and paper and tighten the blue screws of the fron regulation plate.

NOTE: Avoid bending paper with too much closing the regulation plates.



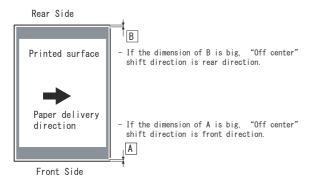
NOTE: When shifting the line of printing from the center of the paper to rear side, move the front regulation plate to adjust.

G. Off-center adjustment (Simulation)

(1) Off-center check

- 1) Run Sim50-10 using the keypad on the main unit.
- This screen allows you to configure the print off-center adjustment value for each paper feed tray.
- On the touch panel, press DOWN key to select "H: 50: MAINLCT1."
- Enter the desired adjustment value through the numeric keypad. (This value, which defaults to 50, can be adjusted within the range of 1 to 99)
 - Reducing the adjustment value by 1 causes the main scan/ print position to shift by 0.1mm toward the rear.
 - Increasing the adjustment value by 1 causes the main scan/ print position to shift by 0.1mm toward the front.
- After entering the adjustment value, press the [EXECUTE] key on the touch panel to start printing and save the setting.
- Check that the adjustment pattern image is printed in the correct position.

Measure the dimensions of the void areas on the front and rear frame sides of the adjustment pattern image, and make sure that the following conditions are met:



A - B = 2.0mm \leq Mechanical adjustment2 \leq 3.0mm \leq Mechanical adjustment1

If the above condition is not met, do the following:

 Change the adjustment value. (Enter the adjustment value and press the [OK] key.)

Changing the adjustment value by 1 shifts the position by approximately 0.1 mm.

Repeat steps 4) to 6) until the condition shown in step 6) is satisfied.

8) After you have completed the adjustment, exit from Simulation mode by pressing the [CA] key.

MEMO: For details of the adjustment and checking procedures, refer to the "[5] ADJUSTMENTS AND SETTINGS" on the Service Manual.

If the center is shifted, however, adjust with the simulation. If the shift is not recovered, perform [F. Mechanical Adjustment] again.

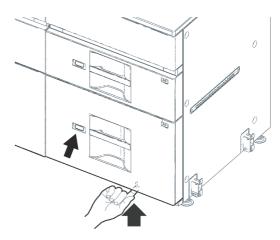
H. Diagonal feed adjustment

(1) Diagonal Adjustment

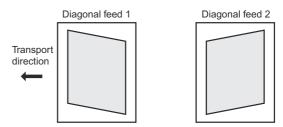
1) Pull out the cassette.

Press the lock button on the front cabinet and lower the paper feed base tray to the paper supply position. Pull out the tray.

* In case the machine is turned off, If it is necessary to release the lock manually, push the shaft at the bottom of the front cabinet and lower the paper feed base tray to the paper supply position and pull out the tray.



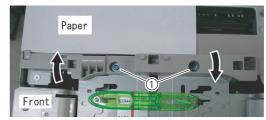
2) Adjust the diagonal feed.



Set a sheet of paper on the paper feed base tray and adjust the width of the regulation plate.

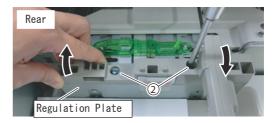
In the case of diagonal feed 1

Loosen the 2 blue screw (1) on the front regulation plate. Referring to the degree of diagonal feed, move the regulation plate in the clockwize direction and fix the blue screw.



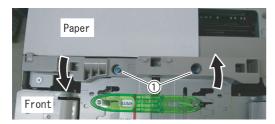
Loosen the 2 blue screws (2) on the rear regulation plate.

To make parallel with the front regulation plate, move the rear regulation plate in the clockwize direction and fix the screws.



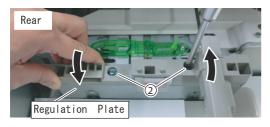
In the case of diagonal feed 2

Loosen the 2 blue screws (1) on the front regulation plate. Referring to the degree of diagonal feed, move the regulation plate in the counterclockwize direction and fix the blue screw.



Loosen the 2 blue screws (2) on the rear regulation plate.

To make parallel with the front regulation plate, move the rear regulation plate in the counterclockwize direction and fix the screws.



NOTE: When fixing the rear regulation plate, not to fix it more closely against the paper.

(The target of the gap between the edge of paper and the rear regulation plate is about 1.0mm)

NOTE: After completion of the adjustment, check that the front regulation plate and the rear regulation plate are in parallel to each other.

I. Height Adjustment

If there's some gap between cabinets or door adjustment is necessary, adjust the height adjustment.

 Install the adjuster (Packed items No.3) and adjuste the height of LC13 (4 places)



2) Adjust the clearance of the exterior cabinet evenly. See drawing below.

Front side



Rear side



Adjust the height of the exterior cabinet to the same level.
 Front side



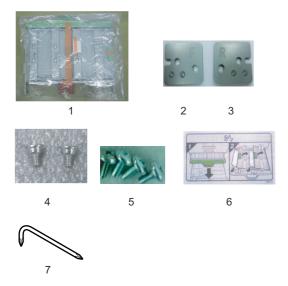
Rear side



[9] MX-RB17 (CONNECTION MODULE)

1. Unpacking

- A. Unpacking
- B. Removal of the fixing tape and protection material
- C. Packed items check

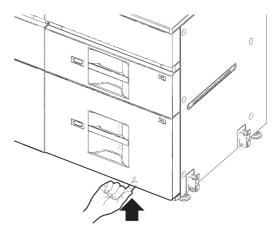


No.	Name	Quantity
1	Consolidation kit	1
2	Hight adjust plate F	1
3	Hight adjust plate R	1
4	Step screw	2
5	Screw (M4 x 8 S)	4
6	Remove the JAM's paper label	1
7	L-shape driver	1

2. Installation

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

Draw out the second tray from the unit.
 Push the button of the bottom side of the unit to unlock the tray, and then slowly pull out the tray until it stops.



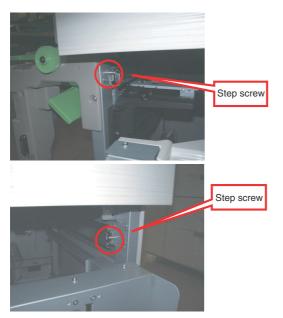
2) Open the front door, and remove the E-ring.



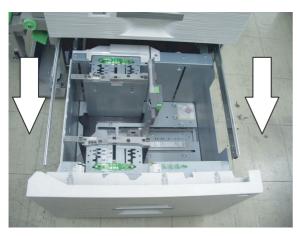
Remove the shaft in the arrow direction, and remove the front door.



4) Remove the step screws in the back on top of the 2nd tray on both right and left sides.



5) Pull the slide rails out.

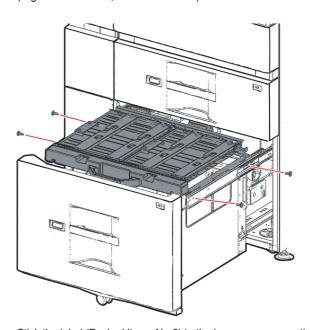


6) Place this unit on the rails.



 Place the screw holes for this unit and the slide rails to the same location and tighten them together with 2 types of screws

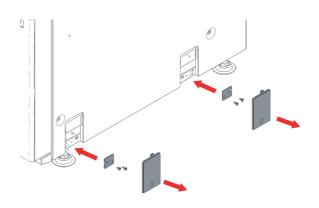
(Right side: No.4 x2; left side: No.5 x2)



Stick the label (Packed items No.6) to the lower paper cassette as shown in the $\,$ picture below.



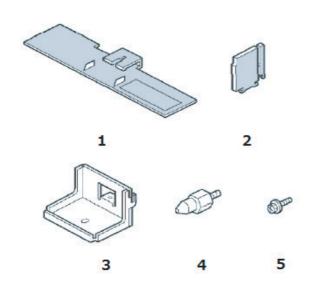
- 8) Close the 2nd tray and fix the front door.
- 9) Remove the cover fixing screw in the lower right side of the first-series LCT, and attach the height adjustment mounting plates (F/R) with the screws (Packed items No.5 x2).



[10] MX-MF11 (MULTI BYPASS TRAY)

1. Unpacking

A. Packed items check



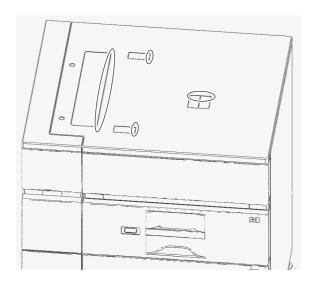
No.	Name	Quantity
1	Tab sheet restraint plate	1
2	Rear edge restraint plate	1
3	Bracket	1
4	Connection pin	2
5	Screws	3

2. Installation

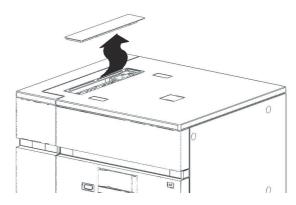
NOTE: Before installation, be sure to turn both the operation and main power switches off and disconnect the power plug from the power outlet. Make double sure that the data lamp on the operation panel does not light up or blink when performing installation.

A. Removal of the covers

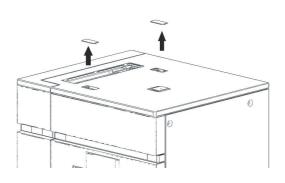
NOTE: When removing the cabinet, insert a screwdriver (-) into the circled sections in the figure below and remove.



1) Remove the multi bypass tray paper transportation cover.



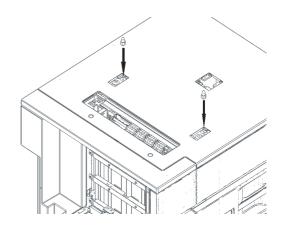
2) Remove the multi bypass tray covers.



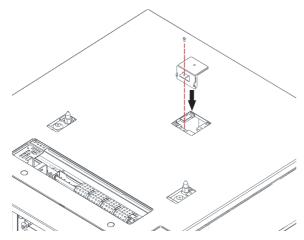


B. Installation of the multi bypass tray for LCT

1) Fasten the connection pins.

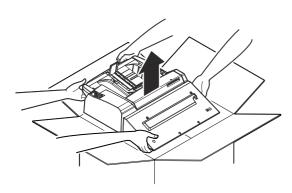


2) Fix the bracket with the screw.



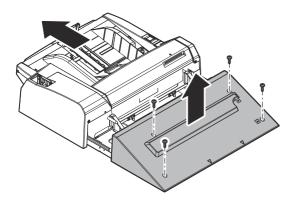
3) Remove the multi bypass tray from the package.

NOTE: Use man power of two persons to lift the multi bypass tray. (Refer to the figure below.)



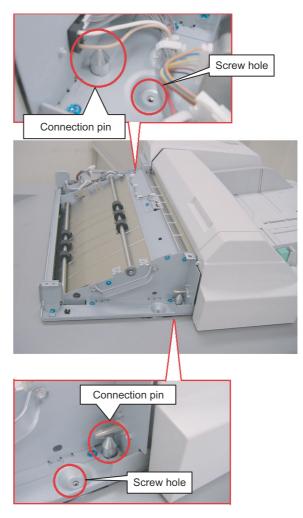
C. Removal of the upper cabinet of the multi bypass tray for LCT

Remove the screws and remove the upper cabinet.
 MEMO: Remove the paper feed section with shifting it to the direction of the arrow.



2) Mount the multi bypass tray on LCT and fix it with screws.

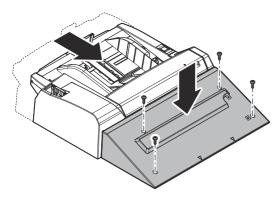
NOTE: Insert the connection pin to the positioning hole of the multi bypass tray.



Connect the harnesses to LCT.
 MEMO: Wire the harnesses through the cable clamp.



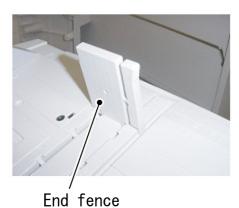
 Fix the upper cabinet with the screws.
 MEMO: After fixing the cabinet, shift the paper feed section to the direction of the arrow.



5) Open the front door of the LCT, and store the tab sheet restraint plate to the place as shown in the figure below.



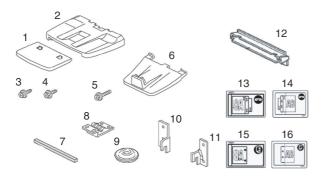
6) Place the End fence as shown in the figure below.



[11] MX-FN24/FN25 (FINISHER/SADDLE STITCH FINISHER)

1. Unpacking

A. Check the packed items



No.	Parts name	Quantity
1	Tray (auxiliary)	1
2	Tray	1
3	Screw (M3 × 8)	1
4	Screw (M3 × 6)	4
5	Screw (M4 × 10)	4
6	Tray (MX-FN25 only)	1
7	Sponge strip	1
8	Ground plate (3holes)	1
9	Leveling shoes *	3
10	Joint bracket L	1
11	Joint bracket R	1
12	Entrance guide plate	1
13	Staple position label (for scanner)	1
14	Staple position label (for DSPF)	1
15	Punch position label (for scanner)	1
16	Punch position label (for DSPF)	1

B. Pulling out of the finisher or saddle stitch finisher

 When you take the finisher down from the skid, raise the upper side of the finisher along with the skid after opening the plastic bag.

(Please see the pictures below.)

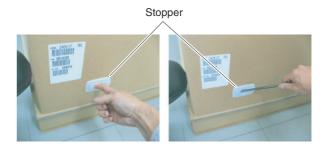
Required persons to unpack the finisher: 2 or more.







NOTE: The stopper attached to the outer carton can easily be removed if you use a screwdriver.



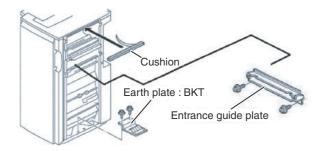
- 2) Take off the locking tape and locking material.
 - * Unfasten the 3 level shoe bolts at the bottom of the finisher.

2. Installation

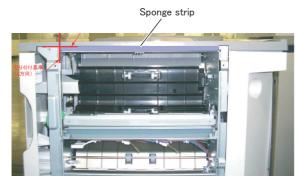
A. Installation of the finisher or saddle stitch finisher

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

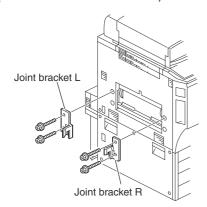
 Attach ground plate (Packed items No.8), Sponge strip (Packed items No.7), and entrance guide plate (Packed items No.12) with the screws (Packed items No.4 Screw M3x6).



* Attachment criteria of the sponge
Attach the sponge along the inside edge of the frame and the end of the upper cover.

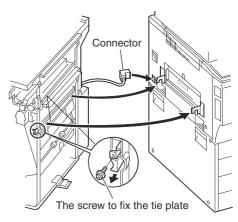


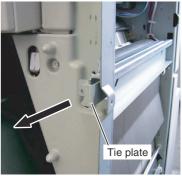
- * If you attach the punch unit, plase attach here.
- Attach joint brackets L/R to the main unit of the copier with the screw (Packed items No.5 Screw M4x10).



 Take off the screw which secures the tie plate on the finisher, pull the tie plate, then join the finisher and the main unit of the copier slowly.

Put the tie plate back and fasten the screw to secure the tie plate.





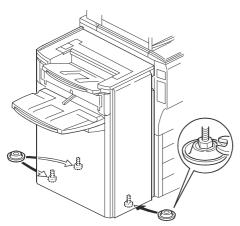
- * Please adjust the height according to "The procedure for the main unit and the option height adjustment" if you cannot join the units.
- 4) Attach the connector.
- 5) Attach the tray. (Packed items No.3 Screw M3x8)



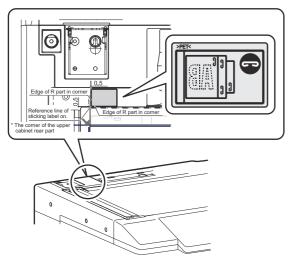
6) Attach the tray (Packed items No.6). (Only MX-FN25)



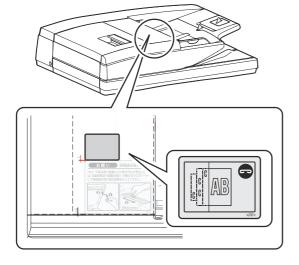
7) Attach the Levering shoes. (Packed items No.9) (3 positions)



- 8) Attach the staple position label (Packed items No.13 and 14) and the punch position label (Packed items No.15 and 16).
 - * Attach the punch position label on the right side of the staple position label if the punch unit is installed.
 (For scanner)



(For DSPF)



B. The procedure for the main unit and the option height adjustment

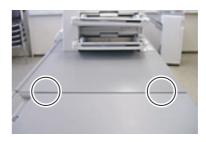
NOTE: This machine is heavy, and installation of the options makes it heavier.

For safety, make sure the floor is of sufficient strength. The floor must be flat for installation.

After installing the main unit, please install the heavy LCT unit first, then install in the finisher.

Connect the post-processing device (MX-FN24, MX-FN25) to the main unit.

* Check the tilt of the main unit and the option. (Front-to-rear direction)



* Check the gap between the main unit and the option at the top and at the bottom. (Side-to-side direction).



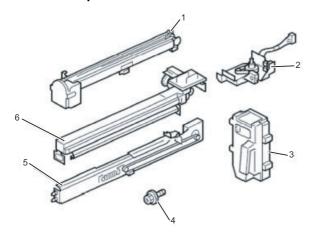
Adjust the height of the top surface of main unit and the top surface of MX-FN24/FN25.



[12] MX-PNX4B (PUNCH MODULE)

1. Unpacking

A. Check the packed items



No.	Parts name	Quantity
1	Punchout waste unit	1
2	Slide drive unit	1
3	Punch waste hopper	1
4	Screws (M3 × 6)	5
5	Side-to-side detection unit	1
6	Punching unit	1

2. Installation

A. Installation of punch module

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

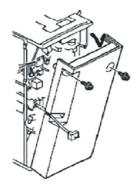
1) Cut the inner cover on the front frame side of the finisher before installing the punching unit.

(Cut at the 4 points with cutters.)



Cut off. (This part is unnecessary.)

2) Remove 2 screws and the rear cabinet of the finisher.



3) Remove the cover on the rear frame side of the finisher and remove the dummy paper guide. (This part is unnecessary.)



Remove 2 screws.

 Remove the protective angle plate (red tag) and 3 screws from the punching unit (Packed items No.6). Discard it as it is not needed.



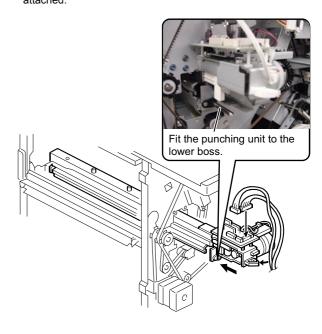




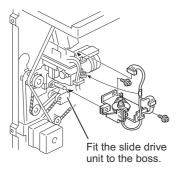
Take off 3 screws.

Protective angle (unnecessary)

5) Insert it to the position where dummy paper guide was attached.



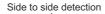
 Fit the slide drive unit (Packed items No.2) to the boss on the attached punching unit (Packed items No.6) with the screws (Packed items No.4 Screw M3x6).



7) Insert the side-to-side detection unit (Packed items No.5) with the screws (Packed items No.4 Screw M3x6).



Insert the side-to-side detection unit into this hole.



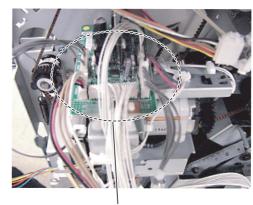




8) Open the harness from the band to pull out the 4 connectors.



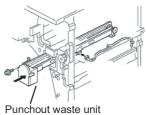
Take off the harness from the band. (3 connectors)



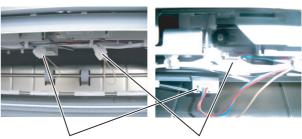
Connect the 4 connectors. (Connect the connector of side-to-side detection unit, too.)

- Attach the punchout waste unit from the front side of the finisher.
 - * Put the punchout waste unit (Packed items No.1) on the rail with the screws (Packed items No.4 Screw M3x6)and slide it in. (See the diagram below)





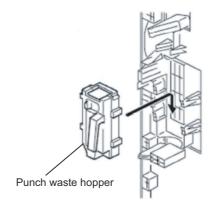
 Remove the shorting connector and save if for future use if needed.



Punchout waste unit connector

Punch unit connector

11) Attach the punch waste hopper.



[13] MX-RB18 (CURL CORRECTION UNIT)

1. Unpacking

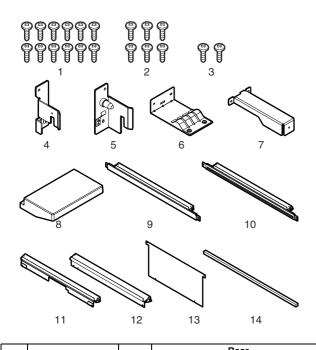
A. Decurler unit removal

NOTE: When moving the unit, use manpower of two or more persons.

B. Fixing tape and protection material removal

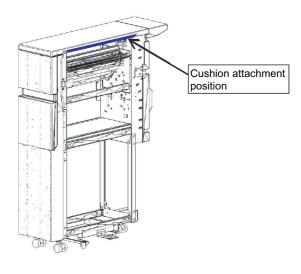
1) Remove fixing tape and fixing bracket from the decurler unit.

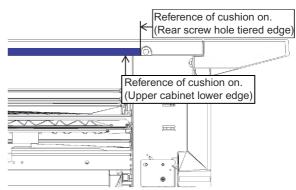
C. Packed items check



			Rear				
No.	Name	Qua ntity	MX- CF11 + MX- FD10	MX- CF11 + MX- RB13	MX- FD10	MX- FN21	MX- FN22
1	Screw (M3 x 6 RS tight)	12	12	12	8	8	8
2	Screw (M4 x 8 RS tight)	6	4	4	6	6	6
3	Screw (M4 x 7 Round tup)	2	2	2	2	2	2
4	Connection plate F	1	1	1	1	1	1
5	Connection plate R	1	1	1	1	1	1
6	Earth bracket	1	1		1	1	1
7	Shunt cable connection plate	1			1	1	1
8	Rear upper cover	1	1	1	1	1	1
9	Paper guide A	1		1	1	1	1
10	Paper guide B	1	1				
11	Paper guide C	1	1	1			
12	Paper guide D	1	1	1	1	1	1
13	Protection sheet	1	1	1	1	1	1
14	Top surface cushion	1	1	1	1	1	1

D. Cushion attachment





2. Installation

NOTE: Installation must be executed in the sequence of the complex machine body, the paper feed option, and the paper exit option.

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

NOTE: To prevent against falling during installation, extend the stand rail.

A. Connection plates F/R attachment

 Attach the connection plates F/R (Packed items No.4, 5) and fix them with the screws (Packed items No.2).



B. Paper guide D installation

1) Attach the paper guide D (Packed items No.12) with the screw (Packed items No.1 x2).



C. Shunt cable connection plate installation (Back of the decurler unit)

1) Fix the shunt cable connection plate (Packed items No.7) with the screws (Packed items No.2).



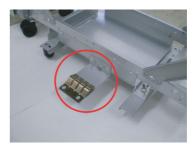
D. Rear upper cover installation

1) Attach the rear upper cover (Packed items No.8) and fix it with the screw (Packed items No.3).



E. Earth bracket installation

 Fix the earth bracket (Packed items No.6) with the screws (Packed items No.1).



NOTE: Use the outside screw holes for fixing.



F. Install to main unit

- Return the stand rail to the original position.
- Open the front cover of the decurler unit and remove the screw then pull the lock lever toward.



3) Connect the decurler to the machine. Insert the pin in the machine side into the hole of the unit.

View from rear frame side



 Push up the lock lever to fix the unit and the main unit, and use the removed screw to fix the lock lever.

MEMO: When locking is not possible, readjust the height refer by instruction of the height adjustment of the main unit and the options.



G. Height and tilt adjustment

NOTE: When the adjuster bolt is turned counterclockwise, the height is decreased. When turned clockwise, the height is increased.

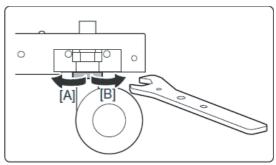
NOTE: For the height and tilt adjustment, use the three adjuster bolts under the unit.

Turn the adjustment nuts of the casters with a wrench in the arrow direction to adjust the height. (When turning the adjustment nut one rotation, the height of the curl correction unit is changed by about 1.75mm.)

- To increase the curl correction unit height, turn the nut in the direction [A].
- To decrease the curl correction unit height, turn the nut in the direction [B].

NOTE: Use the wrench attached to the finisher.





- Adjust the height of the top surface of the unit reference to the top surface of the main unit by turning the adjuster bolt.
- 2) Use adjuster bolt (3) so that the clearance between the machine and the unit becomes uniform.

H. Connection of connector to the main unit

 Connect the one connector of the unit to the machine, and fix with the screw.



[14] MX-CF11 (INSERTER)

1. Unpacking

A. Inserter unpacking

NOTE: When moving the inserter, use manpower of three or more persons.



B. Fixing tape and protection material removal

 Remove the fixing tape and the protection material from the inserter.

C. Packed items check



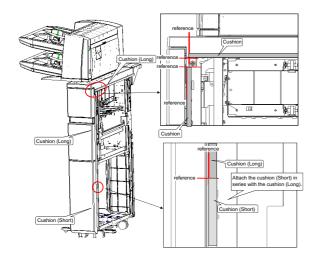
			Front	Re	Rear	
No.	Name	Quan tity	MX- RB15	MX- RB13	MX- FD10	
1	Accessory cover	1	1	1	1	
2	Tray unit front cover	1	1	1	1	
3	Base cover (Tray unit)	1	1	1	1	
4	Connection plate L (Finisher side)	1			1	
5	Connection plate R (Finisher side)	1			1	
6	Safety plate	2	2	2	2	
7	Earth plate	1	1	1	1	
8	Connection plate L (Machine side)	1	1			
9	Connection plate R (Machine side)	1	1			
10	Black Mylar	1	1			
11	Height adjustment saucer	4	4	4	4	
12	"L" hinge pin (Tray unit front cover)	2	2	2	2	
13	Screw (4 x 8L)	1	1	1	1	
14	Blue screw (4 x 8L)	4	4			
15	Blue screw (3 x 8L)	1				
16	Screw (4 x 12L)	3	3	3	3	
17	Screw (4 x 20L)	2	2	2	2	
18	Screw (4 x 6L)	6	6			
19	Front surface cushion (Long)	2	2	2	2	
20	Front surface cushion (Short)	1	1	1	1	
21	Winding bushing 6 x 8L	2	2	2	2	

2. Installation

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

A. Attaching the cushion

 Attach the front surface cushion (Long) (Packed items No. 19) and front surface cushion (Short) (Packed items No. 20) to the reference as shown below.



B. Paper guide B (bundled with the decurler unit) installation

(When installing the paper folding machine)

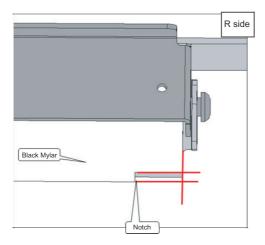
 Attach the Black Mylar (Packed items No.10) to the paper guide B.

Attach the Black Mylar to the downstream side of the paper guide.



Attachment reference

Attach to the notch in the rear side as the reference.



- Install the connection plate L/R (Packed items No. 4 and 5) to the paper exit side of the inserter with the screws (Packed items No. 18 Screw M4x6L).
- 3) Install the paper guide B (bundled with the decurler unit No.12) to the paper exit side of the inserter with the screws (bundled with the decurler unit No.1).



NOTE: When connecting the MX-RB13 to the back, attach the paper guide D (bundled with the relay unit No. 9).

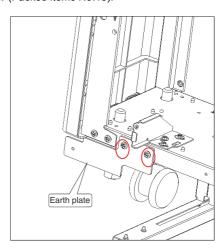
C. Earth plate installation

 Remove the earth plate from the lower section of the inserter and turn the removed earth plate back and attach it as shown in the photo below.





Attach the earth plate (Packed items No.7), and fix it with the screw (Packed items No.18).



D. Paper guide C (bundled with the decurler unit) installation

 Install the paper guide C (bundled with the decurler unit No.13) to the paper feed side of the inserter with the screws (bundled with the decurler unit No.1).



E. Installation of the connection plate and the protection Mylar to the decurler unit

1) Remove the decurler unit plates.



 Attach the protection sheet (bundled with the decurler unit No.14) to the decurler unit with the screw (bundled with the decurler unit No.1).

MEMO: Temporarily attach the protection sheet to the decurler unit with the duplex tape (back of the protection sheet), then fix it with the screw.



 Attach the connection plate F/R (Packed items No.8, 9) to the decurler unit with the screws (Packed items No.18).



F. Connection with the decurler unit

 Open the inserter front upper cover, remove the screw, and pull the lock lever toward you.



Connect the inserter to the decurler unit.
 Insert the pin in the decurler unit side into the unit hole.

Photo viewed from the R side



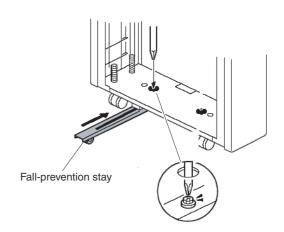
Push up the lock lever to lock the unit and the decurler unit.
 Use the removed screw to fix the lock lever.

MEMO: If they cannot be locked, follow the installing procedures (height adjustment) of the complex machine and options to adjust the height.



G. Fall-prevention stay storing

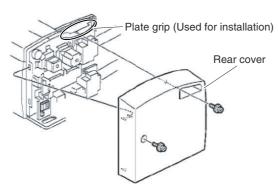
 Loosen the screw of the fall-prevention stay, and store the stay.



H. Tray unit installation

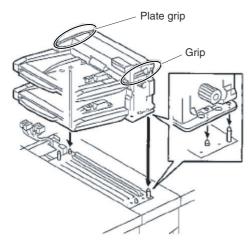
For installation of the tray unit, use manpower of two or more persons.

1) Remove the rear cover of the tray unit.

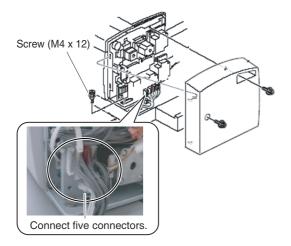


2) Hold the grip of the unit to install it to the inserter.

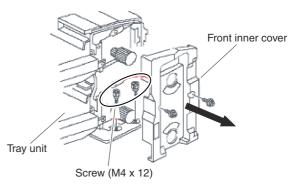
NOTE: When the tray unit is inserted, the machine becomes unstable. In order to prevent against falling, therefore, connect the after-process mechanism (the finisher, etc.) the fall-prevention to the left side of the inserter and put the tray unit on it.



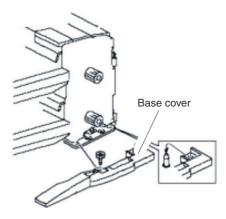
- 3) Attach the screw (Packed items No. 16).
- 4) Connect five connectors.



- 5) Remove the front inner cover. (2 screws)
- 6) Fix the tray unit. (2 screws (Packed items No. 16))



7) Attach the base cover. (1 screw (Packed items No. 3))



8) Attach the front door to the front inner cover, and attach the L-hinge pins (Packed items No. 12).

MEMO: Insert the L-hinge pin in the lower section into the back of the Black Mylar.



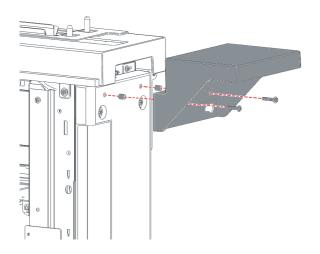




9) Attach the front inner cover to the tray unit. (2 screws)



 Attach the accessory cover (Packed items No. 1) with the screw (Packed items No. 17) and the winding bushing (Packed items No. 21).



I. Cable connection

1) Connect the connector to the decurler unit.



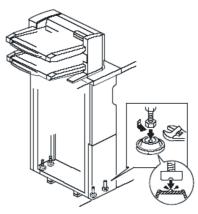
J. Height and tilt adjustment

MEMO: When the adjuster bolt is turned counterclockwise, the height is decreased. When turned clockwise, the height is increased.

MEMO: The specification of the height and the tilt adjustment are as follows.

Height: The difference of level between top surface of the adjacent device is within $\ensuremath{\square} 2mm.$

Tilt: The difference of clearance between upper and lower part of the adjacent device is within □2mm.



- 1) Place an adjustment dish under every adjuster bolt, and screw the bolt. (4 positions)
- 2) Turn the adjuster bolts (1) and (2) in the above figure, and adjust the height.
- 3) Turn the adjuster bolts (3) and (4) in the above figure, and adjust the tilt.

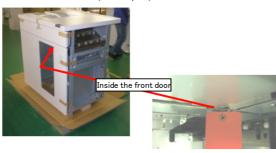
[15] MX-ST10/CA10 (HIGH CAPACITY STACKER/PAPER CART)

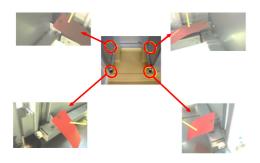
1. Unpacking

A. Unpacking

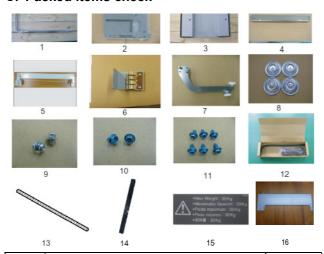
B. Removal of the fixing tape and protection material

1) Remove the L-Plate (Total : pcs)





C. Packed items check



No.	Name	Quantity
1	Handle	1
2	Stacker tray	1
3	Frame cart	1
4	Guide plate	1
5	Bracket	1
6	Earth plate	1
7	Paper holder	1
8	Adjuster support	4
9	Sems screw (M5 x 10)	2
10	Hexagonal screw (M3 x 6)	2
11	Bind screw (M4 x 8)	6
12	Power cord	1
13	Spacer molt	1
14	Guide mylar	1
15	Label	1
16	Connection Plate	1

D. Unloading from palette

- 1) Always work on this unloading in a foursome.
- 2) Lay your hands on the palette as shown in the photos below.





NOTE: Try not to lay your hands on the adjuster volts.

2. Installation

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

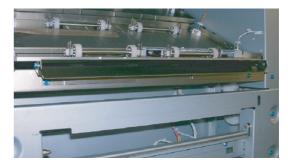
NOTE: Necessary works before moving the machine.

- Remove the paper cart from the stacker before moving.
- Fix the locking plate which were removed at B-2) Remove the Locking Plate.

A. Install the paper guide.

- 1) Attach the guide plate.
 - Connect to MX-RB18

Tighten the paper guide C (Packed item No. 13 with MX-RB18) at the paper feed entry with screws (Packed item No. 1 with the decurler).



- Connect to MX-ST10 (linkage of two)

Attach the guide plate (Packed item No. 4) to the same position as above with the screws (Packed item No. 10 x2).



Connect to MX-CF11

a) Remove the screw.



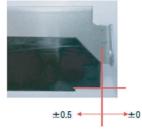
b) Attach the black Mylar.





Attach the black mylar sheet to the paper guide along the reference line. For the reference, see the figure below.





c) Fix the guide plate with the black mylar to the paper feed part of the stacker with the screw (Packed items No.10 Hexagonal screw M3x6).



B. Install the earth plate.

1) Tighten the earth plate (Packed item No.6) with screws (Packed item No.11 x2).

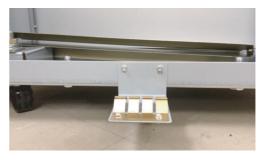
When connected to MX-RB18

Insert the screw into the lower hole and tighten it.



When connected to MX-CF11 or MX-ST10 (linkage of two)

Insert the screw into the upper hole and tighten it.



C.Install the bracket

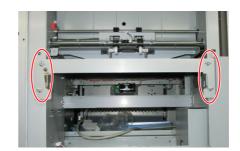
- Connect to MX-RB18 or MX-CF11

1) Tighten the bracket (Packed item No. 5) to the connection option with the screws (Packed item No. 11 x4).

When connected to MX-RB18.

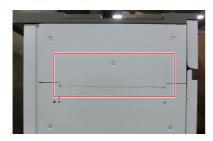


When connected to MX-CF11.

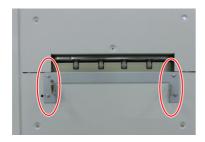


- Connect to MX-ST10 (linkage of two)

1) Remove the cover.



2) Tighten the bracket (Packed item No. 5) to the connection option with the screws (Packed item No. 11 x4).



D.Connect the Stacker unit.

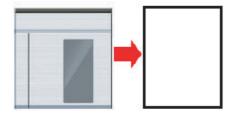
1) Open the front door, remove the screw and pull the lock lever toward you.



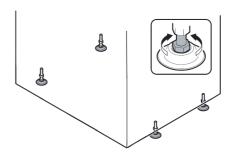
2) Attach the cushion (Packed item No.13).



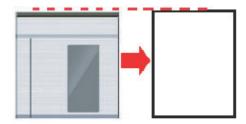
3) Connect the stacker.



4) Set the adjusters (Packed item No.8 x4).



Adjust the height by turning the adjuster volts.
 Keep the height of the stacker in line with the one of the connection.



6) Push up the lock lever which was released in procedure 5) to fix the unit and the connected machine, and tighten with screws. MEMO: If the lock lever cannot be locked, adjust the height of the connection option and the stacker again.



When separated Execute procedure 5) to separate.

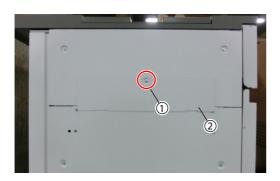
7) Put the label (Packed items No.15)as shown in the figure.



E.. Preparation for Exit unit installation

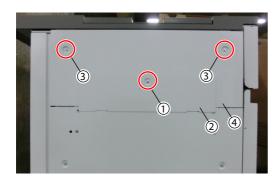
- MX-RB13 or MX-ST10

1) Remove the screw and remove the cover.

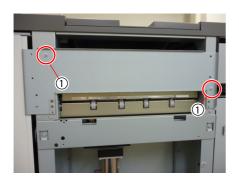


- MX-FD10, MX-FN21 or MX-FN22

1) Remove the screws and remove the covers.



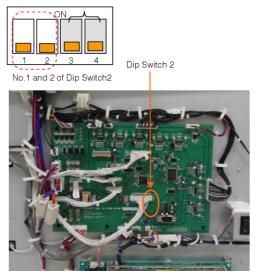
Install the connection plate (Packed item No.16) with screws (Packed item No.11 X 2).



F.Dip switch setting

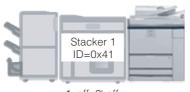
Unit ID setting

The stacker unit ID must be set with the Dip Switch2 on the control PWB



The stacker unit ID setting is enabled only when in I/F with the engine.

Machine + Stacker unit + Finisher



1: off, 2: off

Machine + 2 Stacker units + Finisher



1: on, 2: off 1: off, 2: off

Machine + Stacker unit



1: off, 2: on

Machine + 2 Stacker units



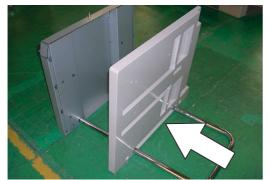
1: on, 2: on 1: off, 2: off

G.Carriage assembly

1) Make the frame cart (Packed item No.3) stand on end.



Pass the handle(Packed items No.1) through the holes of the stacker tray (Packed items No.2) and frame cart.



Tighten the handle with screws (Packed item No.9) from the side of wheels.



4) Place the carriage inside the stacker.



H.Paper holder installation

1) Install the paper holder (Packed item No.7) to the stacker.





I.Adjustment

When MX-ST10 and MX-LC13 are installed, the following confirmation or adjustment are required, to correct the paper transport position to the stacker unit.

Perform List Print by sim22-6.

- Check the MAIN value of Sim50-10 of AUTO CENTRING ADJUSTMENT for LC13 on the 3rd page of the List..
- Perform adjustment of Cassette Side Plate position (mechanical adjustment) according to the following procedure, so that the above value can reach to the reference value (50) to a certain extent.
 - * The adjustment values are suggested from the result of List which is printed in the procedure 1).
 - * Refer Mechanical off center adjustment for LC13.

For example

Value of Sim50-10	The amount of paper guide movement
20	Move the LC13 paper guide to rear direction 3.0mm
30	Move the LC13 paper guide to rear direction 2.0mm
40 or more	No need to move LC13 paper guide

- * The amount of paper guide movement = (50 Value) x 0.1 mm.
- 4) The paper position should be checked.

Perform List Print by Simulation 22-6, after about 10 sheets of paper are fed from each cassette to check whether each value shall be 40 or more.

Print List by sim22-6 and check the paper position after adjustment.

Perform the above procedures for every cassette of LC13.

J. Paper Curl Correction Procedure for Stacker Paper Feeding

In order to output large amount of papers on the cart inside the Stacker neatly, curl amount adjustment according to the paper type and installation environment is necessary by utilizing the curl correction function of the main unit and the delivery option of Decurler (RB-18).

* The standard settings with the Stacker installed: Main unit Decurler Dial: 4, Decurler Unit RB-18 Upper Dial: 5, Lower Dial: 4

*If the curl amount is too large and paper stacking is not so good under the standard settings, correct the paper curl at each section by the following procedures.

1) Upward curl at 2-sided : adjust the upper dial of the decurler unit

Turn the dial to the right from the standard value "5" to correct the curl. (Correction range: 5-10)

If it is not enough, adjust the dial of the decurler inside the main unit

Turn the dial to the right from the standard value "4" to correct the curl. (Correction range: 4-9)

2) Downward curl at 2-sided: Adjust the lower dial of the decurler unit

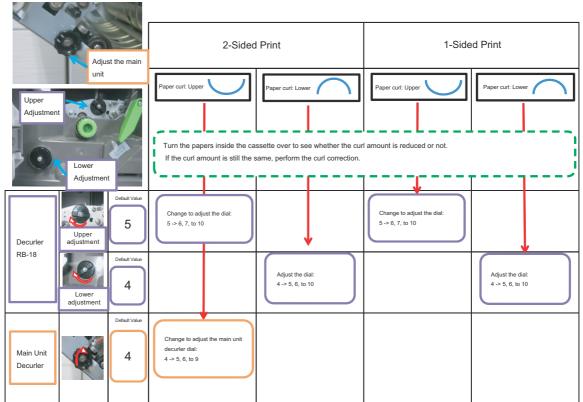
Turn the dial to the right from the standard value "4" to correct the curl. (Correction range: 4-10)

3) Upward curl at 1-sided: Adjust the upper dial of the decurler unit

Turn the dial to the right from the standard value "5" to correct the curl. (Correction range: 5-10)

 Downward curl at 1-sided: Adjust the lower dial of the decurler unit.

Turn the dial to the right from the standard value "4" to correct the curl. (Correction range: 4-10)



- *1 The main unit decurler has the mechanism of adjusting curl in 2-sided print. (It doesn't work in adjusting curl in 1-sided print.)
- *2 The direction and amount of paper curl may vary depending on the paper type, 1-sided/2-sided print or installation environment. Sometimes modification of adjustment value may be required.

[16] MX-RB13 (RELAY UNIT)

1. Unpacking

A. Relay unit unpacking

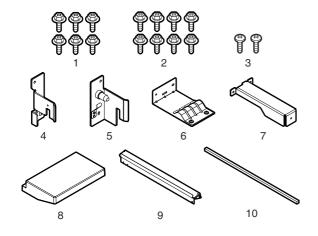
NOTE: When moving the relay unit, use manpower of two or more persons.



B. Fixing tape and protection material removal

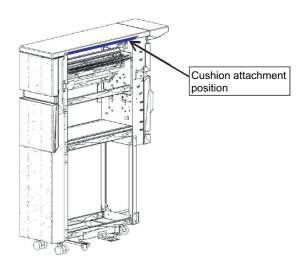
1) Remove the fixing tape and fixing bracket from the relay unit.

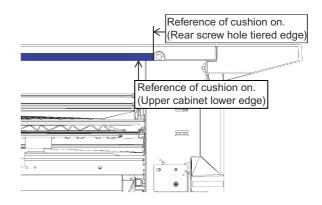
C. Packed items check



No.	Name	Quantity
1	Screw (M3 x 6 RS tight)	6
2	Screw (M4 x 8 RS tight)	8
3	Screw (M4 x 7 Round tup)	2
4	Latch receiver F	1
5	Latch receiver R	1
6	Earth bracket	1
7	Shunt cable connection plate	1
8	Rear upper cover	1
9	Paper guide D	1
10	Top surface cushion	1

D. Cushion attachment





2. Installation

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

NOTE: To prevent against falling during installation, extend the stand rail.

A. Shunt cable connection plate installation (Back of the relay unit)

1) Fix the shunt cable connection plate (Packed items No.7) with the screws (Packed items No.2).

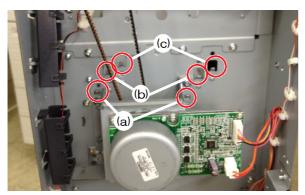


B. Pulley replacement

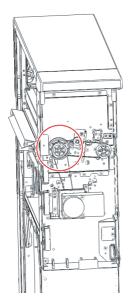
1) Remove the rear cabinet.



2) Remove the Motor unit at place (b) and fix the removed Motor unit at place (a).



3) Remove the C-ring, and remove the pulley (big), (small).



- 4) Attach the pulley (small) again, and apply the belt.
- 5) Attach the pulley (big), and fix it with the C-ring.

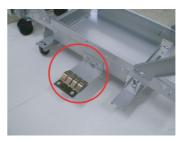
C. Rear upper cover installation

 Attach the rear upper cover (Packed items No.8) and fix it with the screw (Packed items No.3).



D. Earth bracket installation

1) Fix the earth bracket (Packed items No.6) with the screws (Packed items No.1).

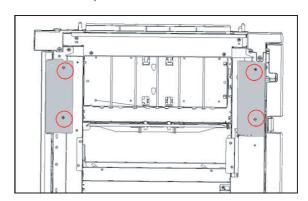


NOTE: Install the screws to the screw holes inside.



E. Connection plate installation

 Attach the safety plate (bundled with the inserter No.6) with the screw (bundled with the inserter No.18) (Only when attached to the MX-CF11).



Fix the latch receivers F/R (Packed items No.4, 5) with the screws (Packed items No.2).

When attached to the MX-CF11



When attached to the MX-ST10



F. Paper guide D installation

 Attach the Black Mylar (bundled with the inserter No.10) to the paper guide D (Packed items No.9).

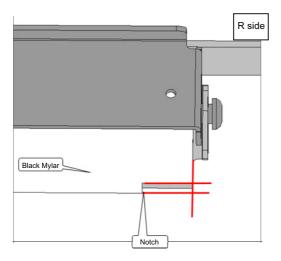
Attach the Black Mylar to the downstream side of the paper guide.





Attachment reference

Attach to the notch in the rear side as the reference.



2) Fix the paper guide D (Packed items No.9) to the paper feed side of the relay unit with the screws (Packed items No.1).



G. Connection with the inserter or stacker

 Open the front cover of the relay unit, remove the screws and pull the lock lever toward you.



Connect the relay unit to the inserter or stacker.
 Insert the pin of the latch receiver into the hole in the relay unit.

Photo viewed from the R side



3) Push up the lock lever to fix the relay unit and the inserter or stacker, and use the removed screw to fix the lock lever. MEMO: If they cannot be locked, follow the installing procedures (height adjustment) of the complex machine and options to adjust the height.



H. Height and tilt adjustment

NOTE: When the adjuster bolt is turned counterclockwise, the height is decreased. When turned clockwise, the height is increased.

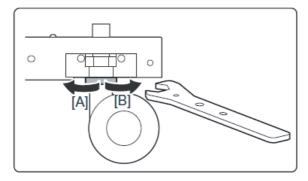
NOTE: For the height and tilt adjustment, use the three adjuster bolts under the unit.

Turn the adjustment nuts of the casters with a wrench in the arrow direction to adjust the height. (When turning the adjustment nut one rotation, the height of the relay unit is changed by about 1.75mm.)

- To increase the relay unit height, turn the nut in the direction [A].
- To decrease the relay unit height, turn the nut in the direction [B].

NOTE: Use the wrench attached to the finisher.





- Adjust the adjuster bolt (1) so that the difference in heights in the front side the relay unit and the connection unit is within 2mm
- Adjust the adjuster bolt (1) so that the difference in heights in the rear side the relay unit and the connection unit is within 2mm.
- 3) Use adjuster bolt (3) so that the clearance between the machine and the unit becomes uniform.

I. Cables attachment

 Open the cover at the back of the finisher, and disconnect the dummy connector.

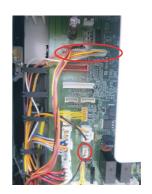


Attach the disconnected dummy connector to the saddle at the right lower side to keep for future use.

Pass the cable from the relay unit to the center saddle and fix with the screw (Packed items No.2) to connect.



3) Connect the two cables, and attach the cover.



[17] MX-FD10 (FOLDING UNIT)

1. Unpacking

A. Paper folding unit unpacking

NOTE: When moving the paper folding unit, use manpower of four or more persons.

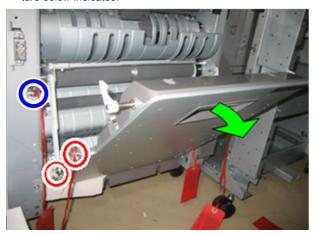


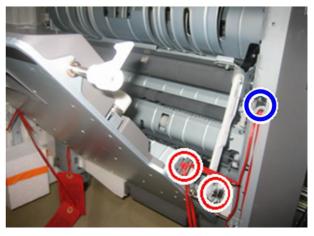
B. Fixing tape and protection material removal

- 1) Remove taping from the paper folding unit.
- 2) Remove the L-shape angle brackets for the folding unit.



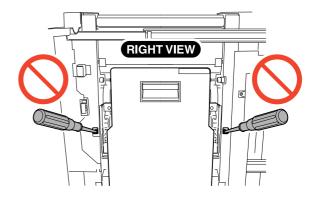
Open the paper guide and remove the fixing angles as the picture below indicates.



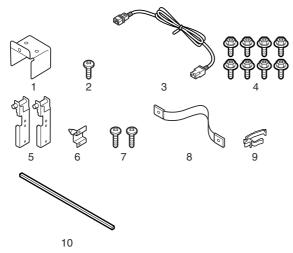


NOTE: Remove the fixing bracket for pressure release (blue circled section, two positions) with opening the paper guide after you open the fixing bracket for pressure release (red circled section, four positions) with opening the paper guide. Since it may drop inside the fixing bracket unit, do not pull forcibly.

NOTE: The two screws (pointed to by screwdrivers) at the front and rear are used to adjust the folding roller pressure. Never loosen these screws.

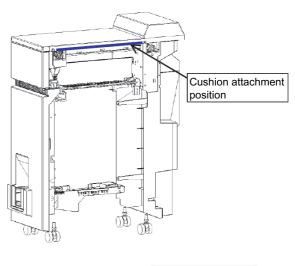


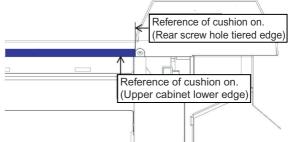
C. Packed items check



	Front			Re	ar		
No.	Name	Qua ntity	MX- CF11	MX- RB18	MX- ST10	MX- FN21	MX- FN22
1	Plug cover	1				1	1
2	Screw (Bind, M4 x 7)	1				1	1
3	Power relay cable	1	1	1	1	1	1
4	Screw (RS tight, M4 x 8)	8	8	8	8		
5	Connection plate	2	2	2	2		
6	Positioning pin	1	1	1	1	1	1
7	Screw (Bind, M4 x 10)	2				2	2
8	Shunt cable	1	1	1	1	1	1
9	Wire saddle	1	1	1	1	1	1
10	Cushion	1	1	1	1	1	1

D. Cushion attachment





2. Installation

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

A. Connection plates F/R, connection pin, paper guide, protection Mylar (decurler unit only) installation

Connection unit: MX-RB15 (Decurler unit)

 Fix the connection plates F/R (Packed items No.5) and the connection pin (Packed items No.6) to the decurler unit with the screws (Packed items No.4).



 Fix the paper guide A (bundled with the decurler unit No.11) and the protection Mylar (bundled with the decurler unit No.14) together to the decurler unit with the screws (bundled with the decurler unit No.1).

MEMO: Temporarily attach the protection sheet to the decurler unit with the duplex tape (back of the protection sheet), then fix it with the screw



Connection unit: MX-CF11 (Inserter)

Fix the connection plates F/R (bundled with the inserter No.4,
 and the connection pin (Packed items No.6) to the inserter with the screws (Packed items No.4).



Connection unit: MX-ST10 (Stacker) (MX-FN22 only)

 Fix the connection plates F/R (Packed items No.5) and the connection pins to the stacker with the screws (Packed items No.4).

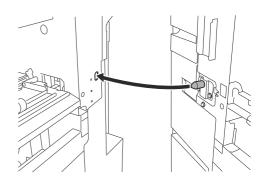


 Attach the paper guide B (bundled with the decurler unit No.12) to the stacker with the screws (bundled with the decurler unit No.1).

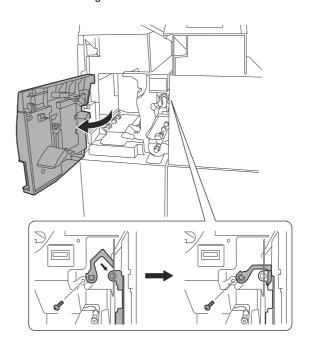


B. Paper folding unit connection

Connect the unit to the decurler unit.
 Insert the pin in the decurler unit side into the hole in the unit.



Open the front upper cover, remove the screw and put down the lock lever. Tighten the removed screw to fix the lock lever.



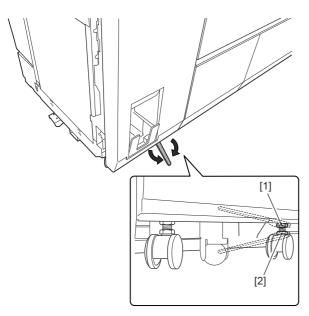
C. Height adjustment

MEMO: When the adjuster bolt is turned counterclockwise, the height is decreased. When turned clockwise, the height is increased.

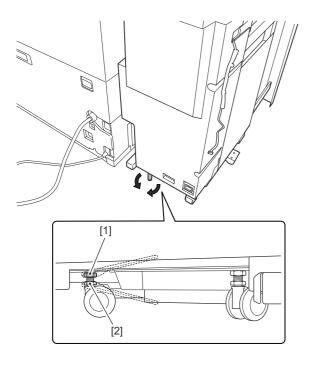
MEMO: The specification of the height adjustment is as follows.

Height: The difference of level between top surface of the adjacent device is within $\hfill\square 2mm.$

- Open the front upper cover, pull out the folder section, and remove the wrench from the front cover of the folder section.
- Turn the adjuster bolt of the caster (connection unit side) on the front side to adjust the height.



3) Turn the adjuster bolt of the caster (connection unit side) on the rear side to adjust the height.



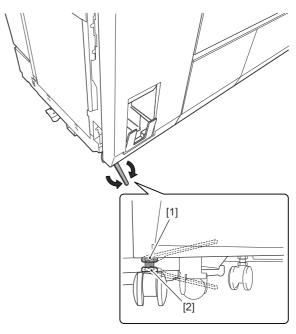
D. Tilt adjustment

MEMO: When the adjuster bolt is turned counterclockwise, the height is decreased. When turned clockwise, the height is increased.

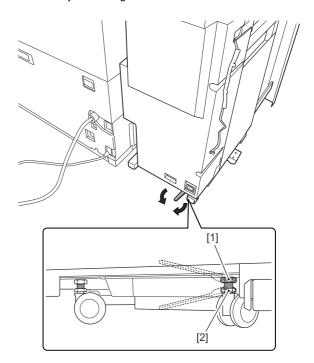
MEMO: The specification of the tilt adjustment is as follows.

Tilt: The difference of clearance between upper and lower part of the adjacent device is within □2mm.

 Turn the adjuster bolt of the caster (paper exit side) on the front side to adjust the height.



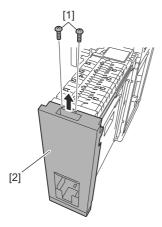
2) Turn the adjuster bolt of the caster (paper exit side) on the rear side to adjust the height.



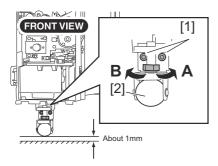
E. Caster height adjustment

When the height of the paper folding unit is adjusted, execute the caster roller height adjustment in the folder section according to the following procedures.

 Open the front upper cover, pull out the folder section, remove the screws, and remove the front cover of the folder section.



2) Return the folder section to the inside of the machine. Loosen the screws, and turn the adjuster bolt to adjust the height so that the clearance between the caster roller and the floor is about 1mm. After completion of the adjustment, tighten the screw to fix.

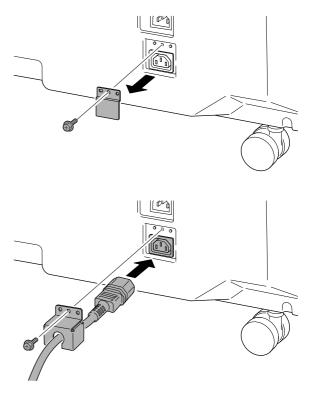


F. Cables attachment

1) Connect the communication cables from the folding unit to the finisher. Fix it with the screw (Packed items No.7).



2) Remove the inlet cover of the finisher, and connect the power relay cable (Packed items No.3).



G. Earth connection when the MX-CF11 is installed to the right side of the MX-FD10

 Connect the paper folding unit and the connection unit with the shunt cable (Packed items No.8). Use the screw (Packed items No.4).

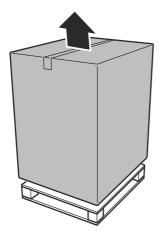


[18] MX-FN21/FN22 (FINISHER/SADDLE STITCH FINISHER)

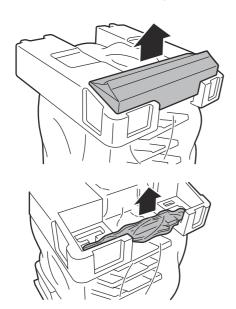
1. Unpacking

A. Removal of the finisher

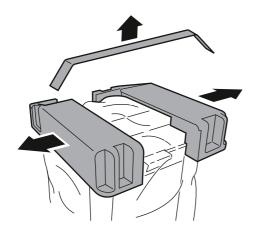
1) Remove the fixing material, and remove the top case.



2) Remove the bundled items from the top.



3) Remove the packing materials.



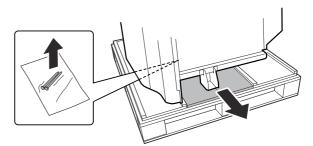
4) One person holds the machine not to fall, and the other person tilt the machine a little to remove the packing materials from the lower section. Remove the vinyl cover.



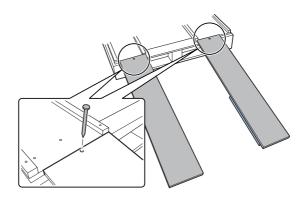
- 5) Put the base of the machine on the floor. (Use enough care not to slip.)
- Tilt the machine slightly to the opposite side, and remove the packing material on the opposite side. Remove the vinyl cover.



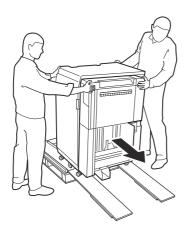
- 7) Put the opposite side base of the machine on the floor.
- 8) Remove the slopes and the fixing pins from the pallet.



9) Fix the slopes to the pallet with the fixing pins.

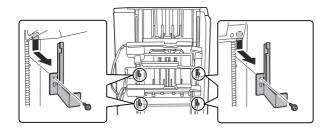


10) Move the finisher from the pallet to the floor slowly.



B. Fixing tape and protection material removal

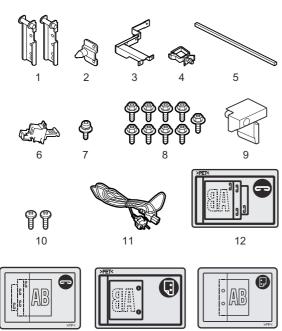
- 1) Remove the fixing tape and the fixing bracket from the finisher.
- Remove the screw, and remove the four fixing members of the lift tray rail section.



C. Packed items check

13

MX-FN21

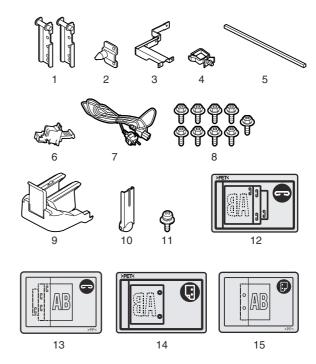


No.	Name	Quantity
1	Latch receiver	2
2	Positioning pin	1
3	Shunt cable unit	1
4	Wire saddle	1
5	Spacer	1
6	Staple unit staple case	1
7	Spring + small bind screw with flat washer (M4)	1

14

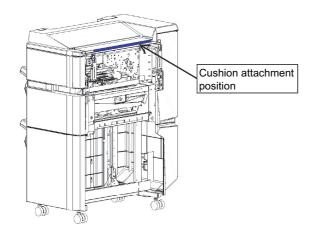
No.	Name	Quantity
8	Screw (RS tight, M4 x 8)	9
9	Latch cover	1
10	Screw (Bind, M4 x 6)	2
11	Power cord	1
12	Staple position label (For scanner)	1
13	Staple position label (For DSPF)	1
14	Punch position label (For scanner)	1
15	Punch position label (For DSPF)	1

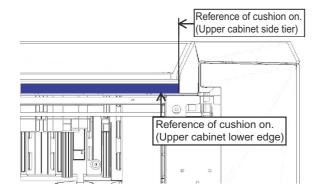
MX-FN22



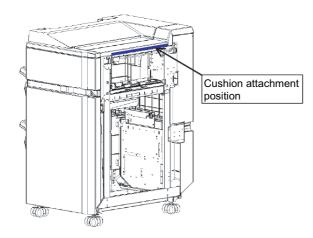
No.	Name	Quantity
1	Latch receiver	2
2	Positioning pin	1
3	Shunt cable unit	1
4	Wire saddle	1
5	Spacer	1
6	Staple unit staple case	1
7	Power cord	1
8	Screw (RS tight, M4 x 8)	9
9	Bookbinding tray	1
10	Saddle stitcher unit accessory caster	1
11	Screw (with spring washer)	2
12	Staple position label (For scanner)	1
13	Staple position label (For DSPF)	1
14	Punch position label (For scanner)	1
15	Punch position label (For DSPF)	1

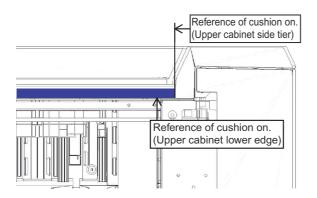
D. Cushion attachment MX-FN21





MX-FN22



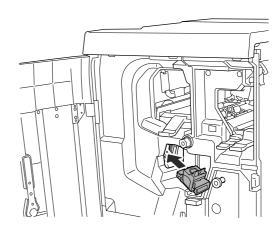


2. Installation

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

A. Staple unit stale case installation

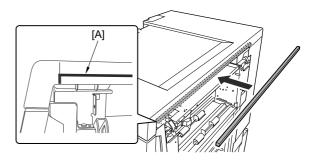
1) Open the front cover of the finisher. Insert the staple unit staple case into the staple unit until it clicks.



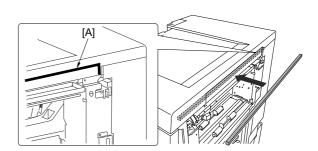
B. Spacer attachment

 Attach the spacer to the inside of [A] at the groove in the right side of the upper cover of the finisher. Since the groove is shorter than the spacer, put the spacer in parallel with the top line where there is no groove.

When the groove is in the front side:

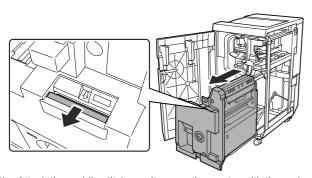


When the groove is in the rear side:

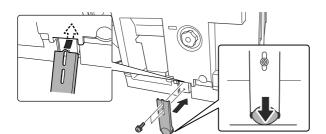


C. Saddle section installing procedures (MX-FN22 only)

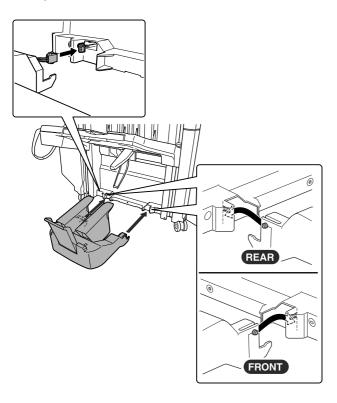
 Open the front cover of the finisher, pull out the hook of the saddle stitcher unit until it stops.



 Attach the saddle stitcher unit supporting caster with the spring washer screw so that the saddle stitcher unit accessory caster (Packed items No.10) is on the floor. (Attach with the two spring washer screws which are included in the package.)

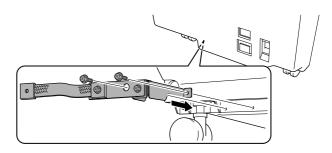


 Connect the connector of the saddle tray (Packed items No.9) to the connector in the lower left side, and attach the saddle tray with the two hooks.



D. Shunt cable unit installation

1) Fix the shunt cable unit (Packed items No.3) with the screw (Packed items No. 8 RS tight, M4 x 8).



E. Connection plates F/R, connection pin, paper guide, and protection Mylar installation

Connection unit: MX-RB15 (Decurler unit)

Fix the latch receivers F/R (Packed items No.1) and the positioning pins (Packed items No.2) to the decurler unit with the screws (Packed items No. 8 RS tight, M4 x 8).



2) Fix the paper guide A (bundled with the decurler unit No.11) and the protection sheet (bundled with the decurler unit No.14) together with the screws (bundled with the decurler unit No.1). MEMO: Temporarily attach the protection sheet to the decurler unit with the duplex tape (back of the protection sheet), then fix it with the screw.



Connection unit: MX-FD10 (Paper folding unit)

Fix the latch receivers F/R (Packed items No.1) and the positioning pins (Packed items No.2) to the decurler unit with the screws (Packed items No. 8 RS tight, M4 x 8).



Connection unit: MX-RB13 (Relay unit)

Fix the latch receivers F/R (Packed items No.1) and the positioning pins (Packed items No.2) to the relay unit with the screws (Packed items No. 8 RS tight, M4 x 8).



Fix the paper guide A (bundled with the decurler unit No.11) to the relay unit with the screws (bundled with the decurler unit No.1).



Connection unit: MX-ST10 (Stacker) (MX-FN22 only)

 Fix the connection plates F/R (Packed items No.1) and the positioning pins (Packed items No.2) to the stacker with the screws (Packed items No.4).

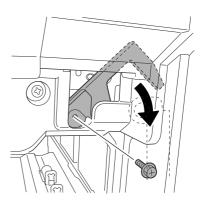


 Attach the paper guide B (bundled with the decurler unit No.12) to the stacker with the screws (bundled with the decurler unit No.1).

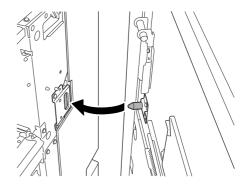


F. Finisher connection (common for each unit)

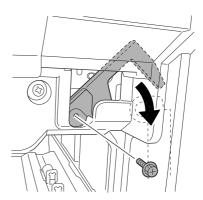
1) Remove the screw, lift the latch and tighten the screw again to fix the latch.



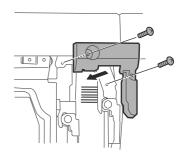
 Fit the positioning pin attached to the connection unit with the positioning hole in the finisher, and connect the finisher with the connection unit.



3) Check to confirm that the latch is securely engaged with the latch holder, and fix the latch with the fixing screw.



4) Attach the latch cover (Packed items No.9) to the latch section. (Attach with the binding head screws (Packed items No. 10 Bind, M4 x 6).) (Only for FN21)



G. Shunt cable connection

1) Connect the shunt cable (Packed items No. 3) and the connection unit with the screw (Packed items No. 8 RS tight, M4 x 8).



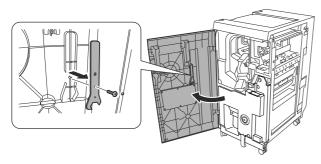
H. Height and tilt adjustment

MEMO: The specification of the height and the tilt adjustment are as follows.

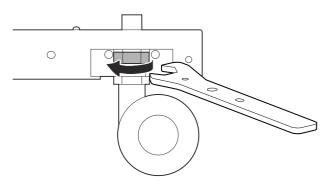
Height: The difference of level between top surface of the adjacent device is within $\ \square 2mm.$

Tilt: The difference of clearance between upper and lower part of the adjacent device is within $\ \square 2mm$.

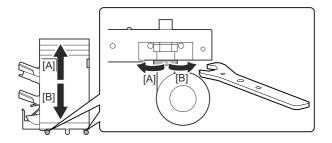
1) Open the front cover, and remove the wrench.



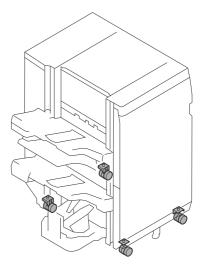
Turn the fixing nut of the caster in the arrow direction with the wrench to loosen it.



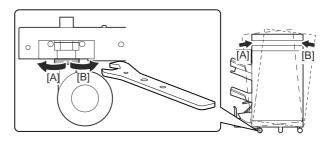
- Turn the adjustment nuts of the caster in the arrow direction with the wrench to adjust the height. (When the adjustment nut is turned one rotation, the finisher height is changed by about 1.75mm.)
 - To heighten the finisher height: Turn in direction [A].
 - To lower the finisher height: Turn in direction [B].



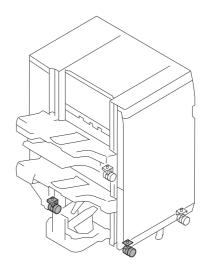
MEMO: To adjust the height, use the four casters shown in the figure below.



- 1) Turn the adjustment nut of the caster in the arrow direction with the wrench to adjust the tilt.
 - To tilt the finisher to the right: Turn in direction [A].
 - To tilt the finisher to the left: Turn in direction [B].

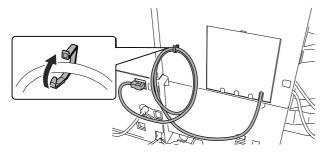


MEMO: To adjust the tilt, use the two casters shone in the figure below.



I. Cable connection

- Insert the wire saddle (Packed items No.4) into the hole in the upper rear cover to attach.
- Attach the interface cable to the wire saddle. (The figure below shows that the cable is wound two turns and fixed.)

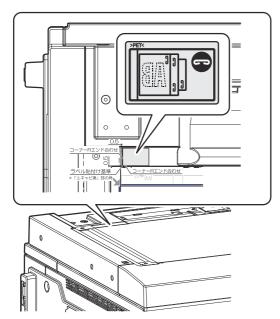


3) Connect the AC cable.

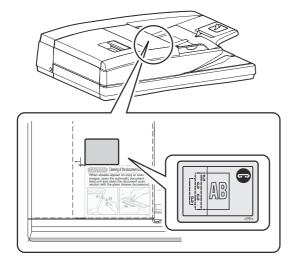
J. Staple position label attachement

 Attach the staple position label (Packed items No.11, 12) to the position indicated in the figure.

For scanner



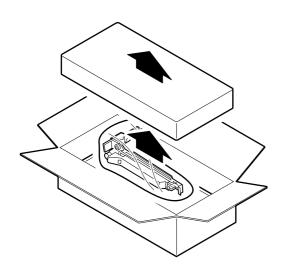
For DSPF



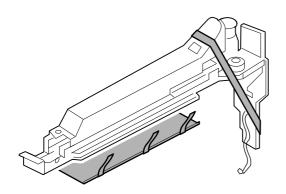
[19] MX-PN13B (PUNCH MODULE)

1. Unpacking

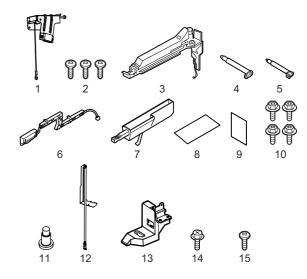
A. Removal of the punch unit



B. Fixing tape and protection material removal



C. Packed items check



No.	Name	Quantity
1	Punch open support plate	1
2	Screw (bind, M4 x 6)	3
3	Punch unit	1
4	Punch unit fixing pin (for the finisher)	1
5	Punch unit fixing pin (for the saddle finisher)	1
6	Punch dust full sensor unit	1
7	Punch dust box	1
8	Card	1
9	Label 2	1
10	Screw (hex screw with flange, SRM4 x 8)	4
11	Step screw	1
12	Spring hook plate	1
13	Punch handle	1
14	Screw (TP, M3 x 6)	1
15	Screw (bind, M3 x 6)	1

2. Installation

NOTE: Installation must be executed in the sequence of the complex machine body, the paper feed option, and the paper exit option.

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

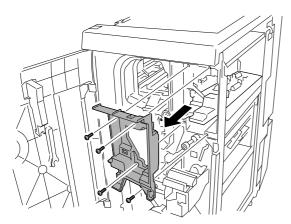
A. External fixture removal

- 1) Open the front door of the finisher.
- 2) Remove the inside upper cover.

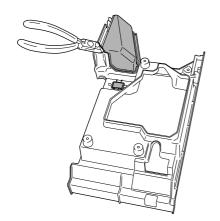
In the case of the MX-FN21:



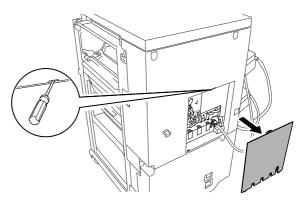
In the case of the MX-FN22:



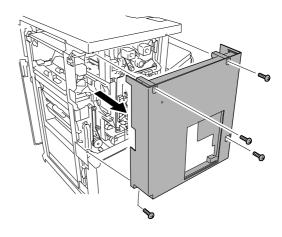
Use a nipper to cut out the dust-box blind cover of the inside upper cover.



4) Remove the rear cover of the finisher.

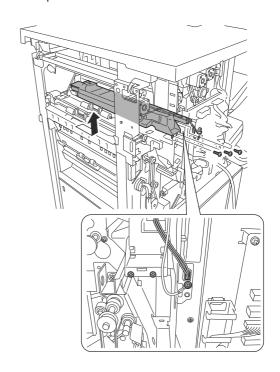


5) Remove the rear cabinet of the finisher.

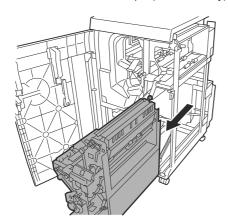


B. Transport unit removal

 Remove the earth, the connector, and the screw, and remove the transport unit.

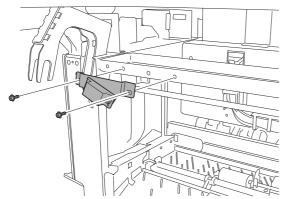


2) Pull out the saddle unit until it stops. (MX-FN22 only)



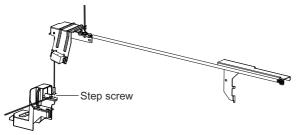
C. Punch open support plate installation (MX-FN21 only)

1) Remove the magnet plate.



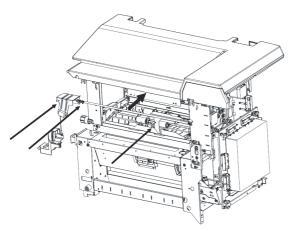
2) Purchase assembling

Attach the punch handle (Packed items No.13) and spring hook plate (Packed items No.12) to the punch open support plate (Packed items No.1) with the screw (Packed items No.10) and the step screw (Packed items No.11).



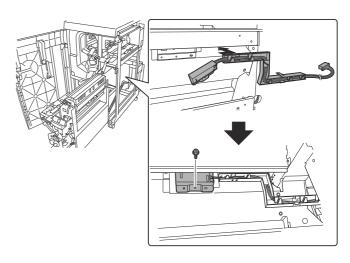
3) Purchase installation

Install the purchase to the finisher with screw (Packed items No.10).



D. Punch dust full sensor installation

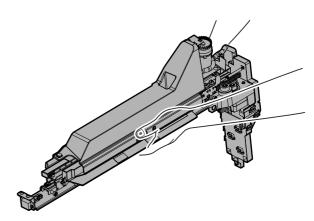
 Attach the punch dust full sensor unit (Packed items No.6) with the screw (Packed items No.15).



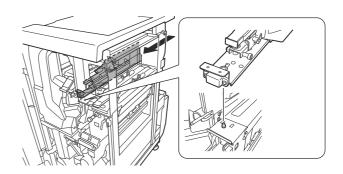
E. Punch unit installation

NOTE: Hold the punch unit as shown in the figure below.

NOTE: Do not hold the motor gear.

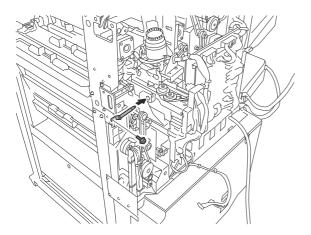


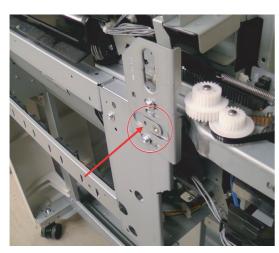
1) In the front side of the punch unit, fit the hole in the punch unit with the pin in the finisher side then push down the entire unit.



F. Punch unit fixing pin attachment

 Attch the punch unit fixing pin (FN21 : Packed items No.4 / FN22 : Packed items No. 5) and fix it with the screw.

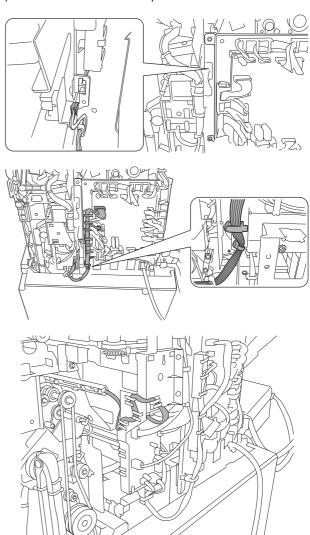




In the case of the MX-FN22 (Fix with the screw (Packed items No.14):

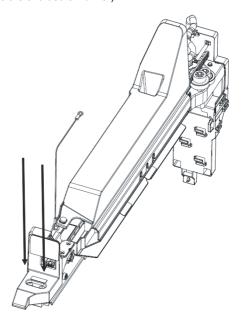


2) Connect the cable from the punch unit.

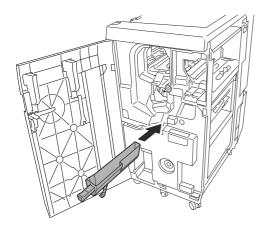


G. Assemble the punch unit (MX-FN21 only)

 Attach the punch handle with the screw (Packed items No.2). (Use the short screw driver)

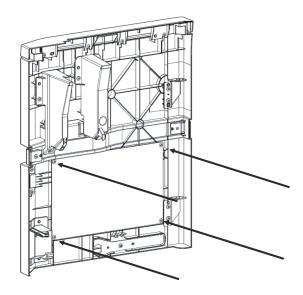


H. Punch dust box installation

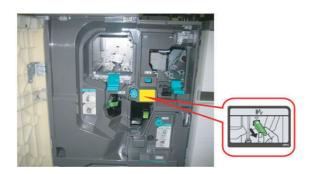


I. Card installation (MX-FN21 only)

 Once remove the existing card fixing screw and stack the card (Packed items No.8) on the existing card then fix with the screw.



J. Punch JAM clear label attachment (MX-FN22 only)



[20] MX-TM10 (TRIMMING MODULE)

1. Unpacking

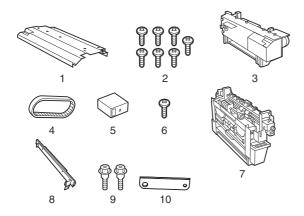
A. Trimmer unit unpacking

NOTE: When unpacking the trimmer unit, use manpower of two or more persons.

B. Fixing tape and protection material removal

1) Remove the fixing tape from the paper folding unit.

C. Packed items check



No.	Name	Quantity
1	Upper cover	1
2	Screw (Bind, M4 x 6)	7
3	Cutter unit	1
4	Drive belt	1
5	Dust box holding member	1
6	Special tapping screw	1
7	Trimmer unit frame body	1
8	Accuride rail	1
9	Step screw (M4 x 6)	2
10	Plate	1

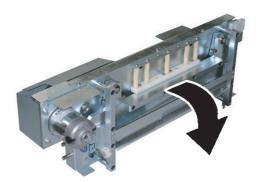
2. Installation

NOTE: Installation must be executed in the sequence of the complex machine body, the paper feed option, and the paper exit option.

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

NOTE: Because there is a cutter in the cutter unit, please don't insert fingers into the unit.

NOTE: When putting the cutter unit on a floor, put it so that the cutter motor is in the lower side.

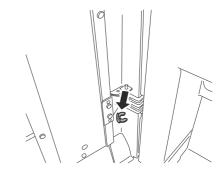


A. Sponge sheet removal

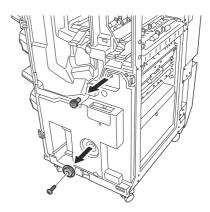
1) Remove the sponge sheet.

B. External fixture removal

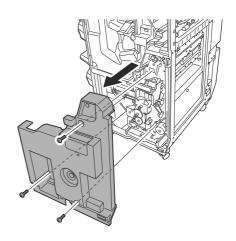
- 1) Open the front door of the finisher.
- 2) Remove the resin E-ring, and remove the front door.



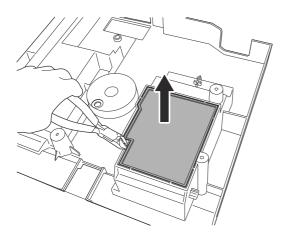
3) Remove the jam dial and the screw.



4) Remove the screw, and remove the inside cover.

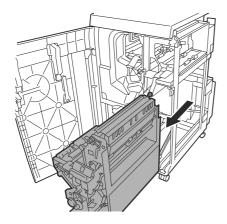


Use a nipper to cut out the dust-box blind section of the inside cover.

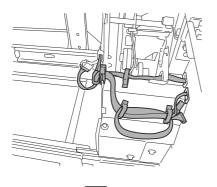


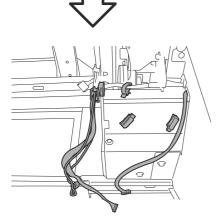
C. Transport unit removal

1) Pull out the saddle unit until it stops.

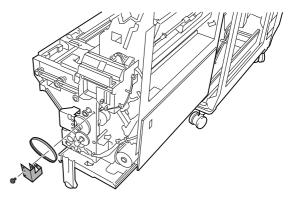


2) Disconnect the connector at the rear of the saddle unit.

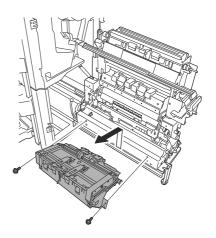




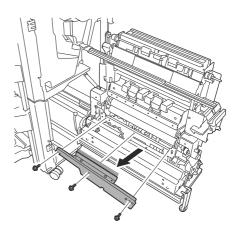
3) Remove the plate and the belt. (The plate will be used later.)



4) Remove the transport unit.



5) Remove the discharge unit. Save the removed screws for later use.

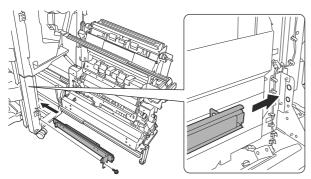


D. Trimmer unit installation

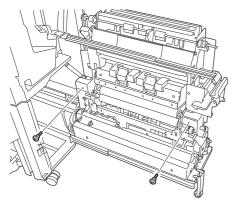
1) Insert the pin at the rear of the accuride rail (Packed items No.8) into the hole at the rear of the finisher.

NOTE: Fix the accuride rail with the screw removed in the previous procedure (Discharge unit removal).

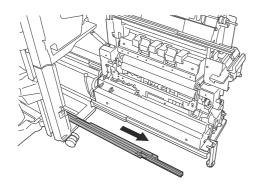
NOTE: Insert the screw into the hole in the upper side of the accuride rail.



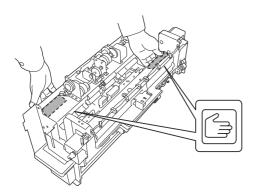
2) Fix the unit with the step screw (Packed items No. 9 Step screw M4 \times 6).



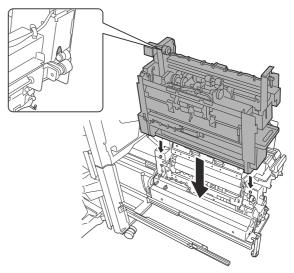
3) Pull out the accuride rail installed in procedure 1) until it stops.



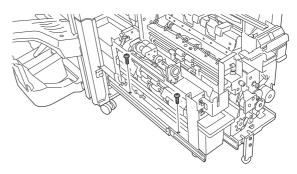
Hold the trimmer unit frame body (Packed items No. 7) as shown in the figure below.



4) Engage the frame of the trimmer unit with the step screw attached in procedure 2),

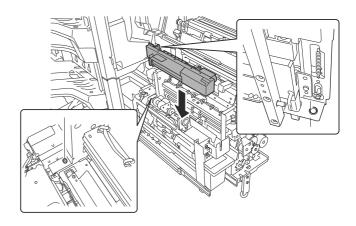


Fix the trimmer unit to the accuride rail with the screw (Packed items No. 2 Bind M4 x 6).

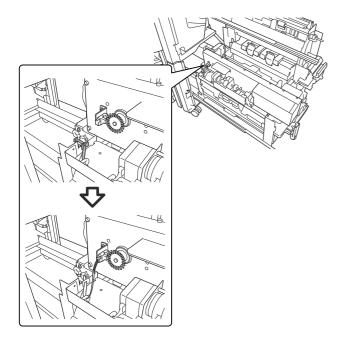


E. Cutter unit installation

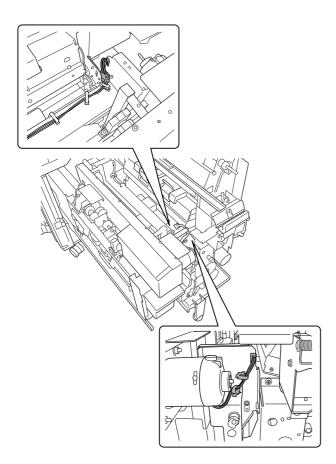
1) Put the cutter unit (Packed items No.3) on the trimmer unit.



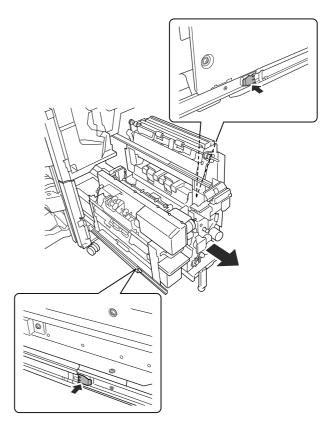
2) Connect the connector for the sensor.



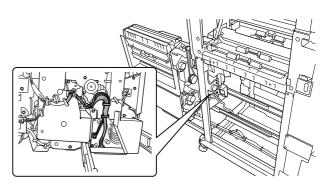
Connect the connector for the motor, and fix it with the wire saddle.



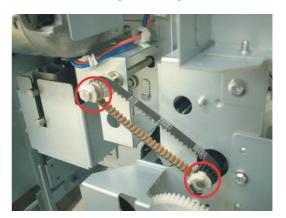
4) Disengage the stopper of the accuride, and pull out the saddle unit to the maximum extent.



5) Connect the connector at the back of the unit.



- 6) Attach the belt (Packed items No.4).
- 7) Remove the resin E-ring, the bearing, and the resin washer.

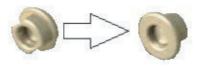


MEMO: Dispose of the resin washer only.

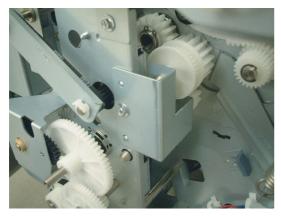
8) Install in the sequence of the plate (Packed items No.10), the bearing, and the resin E-ring.



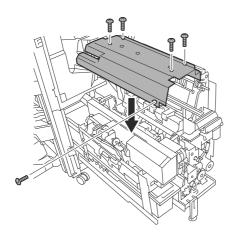
NOTE: Turn back the bearing and attach it.



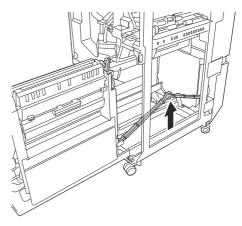
9) Attach the plate removed in procedure B-3).



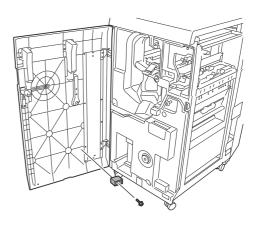
Attach the upper cover (Packed items No.1).
 Insert the trimmer frame into the slit groove of the cover.



11) Lift the communication cable of the saddle unit.



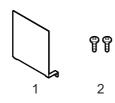
- 12) Return the saddle unit to the original position.
- 13) Attach the inside cover.
- 14) Attach the jam dial (upper) and the jam dial (lower).
- 15) Attach the front door of the finisher.
- 16) Attach the dust box holder (Packed items).



[21] MX-EB11 (ENHANCED COMPRESSION KIT)

1. Unpacking

A. Packed items check



No.	Name	Quantity
1	Scanner function expansion PWB	1
2	Screw	2

2. Installation

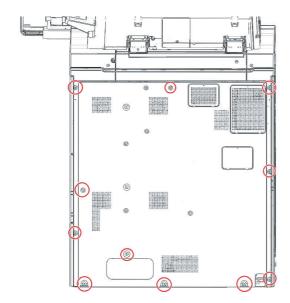
NOTE: Before installation, be sure to turn both the operation and main power switches off and disconnect the power plug from the power outlet. Make double sure that the data lamp on the operation panel does not light up or blink when performing installation.

NOTE: The "E7-48" error is occurred if install the older version of MX-EB11.

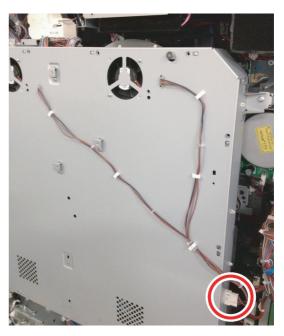
Check the version of the ACU (MAIN) and the ACU (DATA) in SIM22-5, update the firmware.

A. Gain access to the MFP control unit

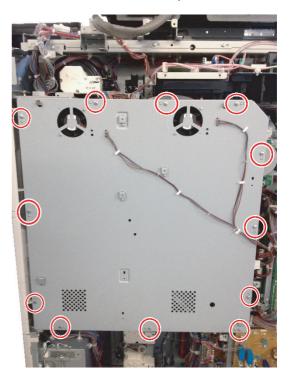
1) Remove the screw, and remove the rear cabinet.



2) Remove the harness.

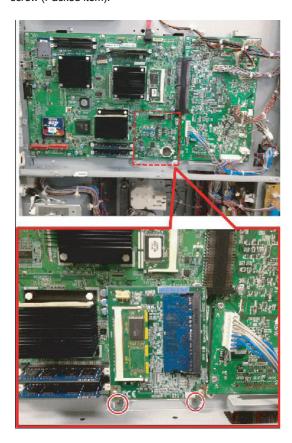


3) Remove the screw, and remove the plate.



B. Scanner function expansion PWB installation

 Connect the scanner function expansion PWB (packed item) to the connector of the MFP control PWB, and fix it with the screw (Packed item).



C. Turn ON the power of the main unit

 Attach the part which is removed in the previous step, connect the power plug of the machine to the power outlet, and turn ON the main power switch and the operation panel power switch.

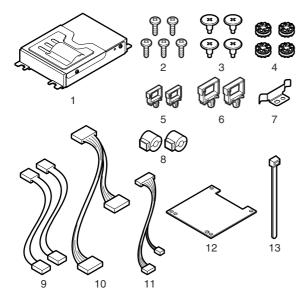
D. Confirmation of connection

1) Execute SIM22-10 to check to confirm that the combined machine recognizes the MX-EB11.

[22] MX-EB15 (MIRRORING KIT)

1. Unpacking

A. Packed items check



No.	Name	Quantity
1	Mirroring HDD unit	1
2	Screw *2	5
3	Step screw	4
4	Damper	4
5	Wire saddle (small size) *1	2
6	Wire saddle (big size)	2
7	Earth plate *1	1
8	Core *1	2
9	SATA cable	2
10	Power cable	1
11	Communication cable	1
12	RAID PWB	1
13	Banding band	1

^{*1:} Not use for this installation.

NOTE:

Note for installing the mirroring kit

Before installing the mirroring kit, fully understand the descriptions below and careful follow the instructions.

Prohibited items

When installing a mirroring kit newly, do not install a mirroring kit which has been used.

When a mirroring kit which has been used is installed in new installation of the mirroring kit, the mirroring kit HDD will overwrite the machine HDD which has been original installed, deleting the user data and causing a freeze of the machine.

"A mirroring kit which has been used" includes one which was only installed and conducted.

When removing the HDD after installing the mirroring kit, be sure to remove the both HDD's. If only one HDD is removed and reinstalled, the data on the both HDD's data may be out of synchronization

When removing the HDD, first disconnect the HDD SATA connector of the MFP PWB. This procedure brings the machine into the state where the both HDD's are disconnected from the machine simultaneously.

Countermeasures

If a mirroring kit which has been used must be installed at any cost, delete the mirroring information of the HDD before installing. (For details, refer to "5. Deleting the HDD mirroring information" described later.)

2. Data backup

MEMO: When the mirroring kit is installed to a machine which has not been used, this procedure is not required. Backup of data with a machine which has been used is made in order to provide against a failure in automatic copy of data to the HDD of the kit.

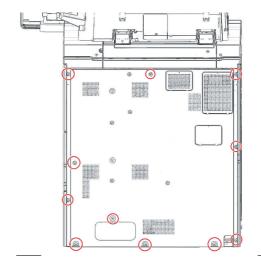
- Use SIM56-2 or Web Page to backup the HDD data. (Device cloning data / Storage backup data)
- Use SIM56-3 or Web Page to backup the HDD data. (Document filing data)
- Use SIM56-4 or Web Page to backup the HDD data. (Jog log data (Reinstallation disable))

3. Installation

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

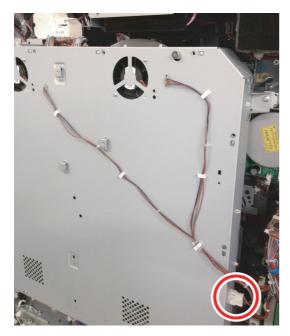
A. Gain access to the MFP control unit

1) Remove the screw, and remove the rear cabinet.



^{*2:} Not use for this installation. (One of five screws)

2) Remove the harness.

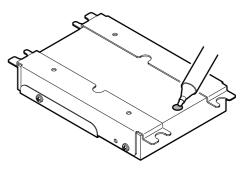


3) Remove the screw, and remove the plate.

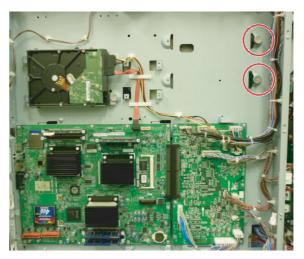


B. Mirroring HDD unit attachment

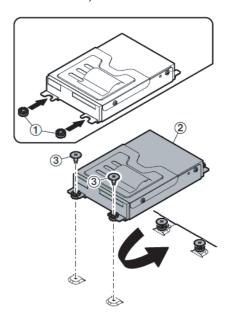
Make a mark on both the mirroring HDD unit (Packed items No.1) and the main HDD unit with a marker pen to indicate the use history.



1) Attach the damper (Packed items No.4 x2) with the step screw (Packed items No.3 x2).



 Attach the damper (Packed items No.4 x2) to the mirroring HDD unit and install it to the MFP control unit with step screws (Packed items No.3 x2).



C. Installation of the RAID PWB

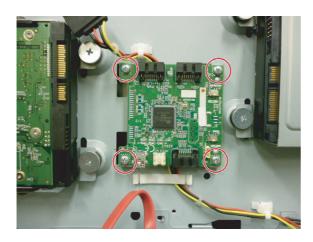
 Remove the SATA cable and the power cable from the main HDD unit.



MEMO: Open the clamp and unbind the SATA cable only.



 Attach the RAID PWB (Packed items No.12) with screws (Packed items No.2 x4).



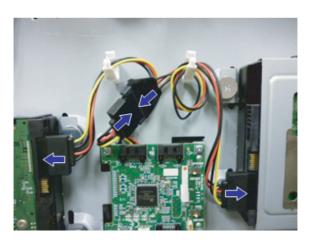
D. Cable connection

1) Attach the wire saddle (big size) (Packed items No.6 x2) to the frame as per the following picture.



 Connect the power cable (Packed items No.10) to the power cable which was disconnected C-1).
 After connected, pass the power cable through the wire saddles and connect to both the HDD.





3) Connect the SATA cable (Packed items No.9).

MEMO: Bind up the cables as per the following picture.

NOTE: Be careful not to mistake the machine HDD with the mirroring HDD.

If the HDD should be erroneously connected, the contents of the mirroring HDD would be written into the machine HDD.



 Bind up the SATA cable which is unbinded in the step C-1) and connect it.



NOTE: Twist the SATA cable two and half times and connect it.

Connect the communication cable (Packed items No.11).
 Bind up the communication cable with banding band (Packed items No. 13) after connection. (The following picture shows bind up position.)

MEMO: Cut off excess part of the band with nippers.



NOTE: Check to confirm that the SATA connector is securely connected.

E. Turn ON the power of the main unit

- Turn on the main power switch and the operation panel power switch.
 - Date copying from the standard HDD to the mirroring unit HDD is started. It is called "Rebuilding."
- 2) Check to confirm that the machine is booted. It takes about three hours to complete rebuilding. Do not turn off the power during rebuilding. When, however, the power is turned off during rebuilding, turn on the power again, and rebuilding will be continued. During rebuilding, a message is displayed to indicate the operation. A job can be performed during rebuilding, though the job speed may be reduced.

4. Operation check

- 1) Check to confirm that the mirroring kit active icon is displayed.
- Use SIM62-20 to check to confirm that the HDD status is OK/ REBUILDING.
- Perform copying and check to confirm that machine is normally operating.

Mirroring kit installed	
Mirroring kit/HDD trouble	
Mirroring kit/Rebuilding	

5. Deleting the HDD mirroring information

Be deleting the HDD mirroring information is necessary when discontinue use the mirroring kit.

A. Necessary tools

· RIB Buster software

The software is composed of the following two files. (They can be downloaded from Tech DS Web site.)

- RIB Buster{YYYYMMDD}.exe
- · Setup.ini



- · USB cable
- · SATA connection cable
- SATA connector
- · AC adapter
- · Windows PC

(Support OS: Windows XP, Windows VISTA, Windows 7 (32/64bit)

B. Procedures

 Connect the target HDD to delete mirroring information with the USB cable, SATA connection cable, SATA connector and the AC adaptor as follows.



NOTE: When disconnect the cable from the HDD, be sure to disconnect the USB cable from the PC in advance.

If this precaution is ignored, the HDD may be damaged.

- Copy the RIB Buster software files (RIB Buster {YYYYM-MDD}.exe and Setup.ini) to a same directory of the PC.
 - RIB Buster{YYYYMMDD}.exe
 - Setup.ini
- 3) Connect the target HDD to PC with USB cable.

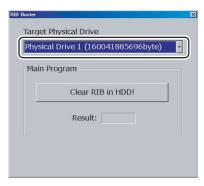


 Double-click RIB Buster {YYYYMMDD}.exe to boot the RIB Buster software.

If the user account control is ON in VISTA or Windows7 setting, the user account control menu is displayed. Click [Allow] on this menu.



5) Select the target HDD to delete the mirroring information.



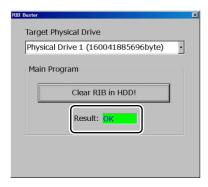
6) Click [Clear RIB in HDD] button.



7) Click [OK] button. (The mirroring information is deleted.)



After completion of deleting the mirroring information, "OK" is displayed.

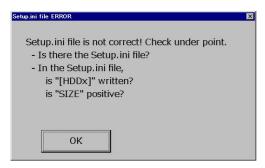


C. Kinds of errors, causes and remedies

Phenomenon 1

An error indicating an abnormality in the Setup.ini file when booting the RIB Buster software.

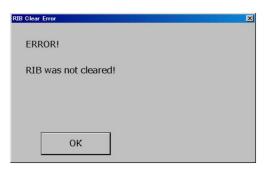
Cause	Setup.ini file does not exists, or there is any abnormality in the file.
Countermeasures	Check to confirm that there is Setup.ini file in the proper directory and that there is no abnormality in the descriptions.

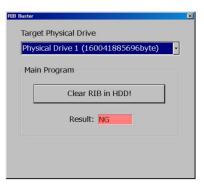


Phenomenon 2

The mirroring information has not been deleted normally.

Cause	Temporary communication trouble, cable or other device trouble, HDD trouble
Countermeasures	Click [Clear RIB in HDD] button again. If the trouble is not solved by procedure 1., disconnect and connect the cable, change the devices, and reboot the RIB Buster. Then execute procedure 1





Phenomenon 3

Though the target HDD is connected, it is not displayed.

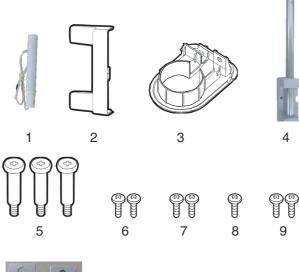
Cause	The target HDD is not registered in the Setup.ini file.
	Cable or other device trouble, HDD trouble
Countermeasures	Reboot RIB Buster. Click the framed section.
	2. If the trouble is not solved by procedure 1.,
	replace the Setup. ini file and the RIB Buster
	{YYYYMMDD} with the latest version, and execute
	procedure 1
	3. If the trouble is not solved by procedure 2.,
	disconnect and connect the connector, change the
	devices, and reboot the RIB Buster. Then execute
	procedure 1



[23] MX-SL10 (STATUS INDICATOR)

1. Unpacking

- A. Unpacking
- B. Removal of the fixing tape and protection material
- C. Packed items check





10

No.	Name	Quantity
1	Lamp unit	1
2	Bracket side cover	1
3	Edge cover	1
4	Support unit	1
5	Step screw for bracket	3
6	Screw (4 x 8)	2
7	Screw (4 x 10)	2
8	Screw (3 x 8)	1
9	Screw (3 x 6)	2
10	Mounting plate	2

2. Installation

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

A. Assemble the status indicator unit

 Pass the status indicator (Packed items No.1) cable through the status indicator support, and support unit (Packed items No.4) locked completely.





Attach the lower cover (packed items No.3) and fix it by the screw (packed items No.7) as the following photo.



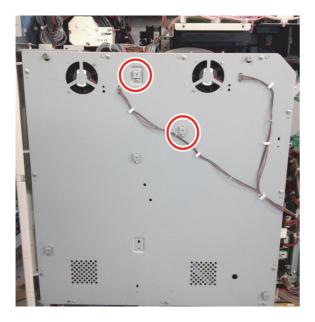


3) Attach the cable to the unit with screw (packed items No.7).



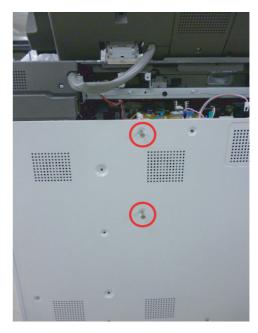
B. Status indicator installation

- 1) Remove the rear cabinet.
- 2) Peel 3 cover labels from the outside of the rear cabinet.
- Attach the mounting plate (packed items No.10) with the screws (packed items No.9) to the shield plate.

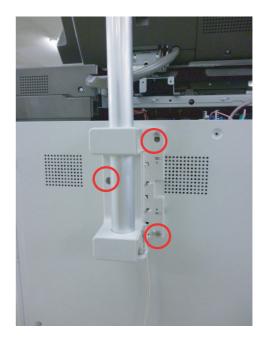


- 4) Attach the rear cabinet.
- 5) Remove the screw and remove the rear upper cabinet.
- 6) Fix the step screws (Packed items No.5) temporarily.

NOTE: Only 3 rotation.

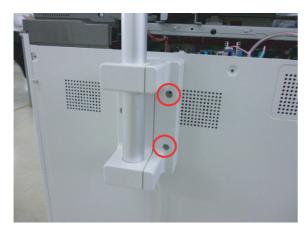


 Hook the status indicator (packed items No.5), and fasten the step screws.



Attach the cover (packed items No.2) with the screws (packed items No.6).

NOTE: When attach the cover, be sure to check the cable not to be bitten between cover and the unit.



- 9) Remove the screw and remove the right rear cabinet.
- Fix the cable with the snap band and the screw (packed items No.8).

NOTE: Fix the snap band vertically as the following photo. Connect the relay cable.



11) By using nippers, split the removed right rear cabinet and attach the cabinet with the screw.



C. Setting

- (1) Turn ON the power of the machine.
- (2) Setting
- 1) Enter the SIM26-50 mode.
- 2) Set the item "H" to "0(ON)".

[24] Remote operation panel function Enable setting

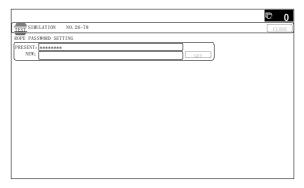
General

To use the remote operation panel function, the password for the remote operation panel function must be entered on the password input menu displayed on the VNC boot screen. Note that, therefore, the password must be set in advance to use the remote operation panel function.

Let the user make the password, and use SIM26-78 to set it. MEMO: After installation of an option, upgrade all the firmware's to the latest versions.

2. Remote operation panel function password setting procedures

1) Enter the SIM26-78 mode.



- 2) Enter the password with 10-key. (Within 5 8 digits) The entered password is displayed on the column of "NEW." To modify the entered password, use clear key to delete the password digit by digit.
- 3) Press [SET] key, and the password is set.

[25] Setting, Adjustments, Operation check

1. Firmware version check and version up

After installation of all the options to the machine, use SIM22-5 to check the version of each firmware. If it is not the latest version, upgrade it to the latest one.

2. Function and operation check

Check that the following operations are normal.

Check item list		Equipped condition
Key-in (operation panel)		
Display (operation panel)		
Paper feed	Hand feed	
operation	Main unit paper	
	tray	
	Desk unit paper	With the desk unit installed
	feed tray	
Paper size detecti	on	
Originals size	Original table	
detection	mode	
	SPF mode	
DSPF operation /	S-S mode	
two sided copy	D-S mode	
	S-D mode	
	D-D mode	
Bookbinding opera	ation	When the finisher is installed
Stapling operation		When the finisher is installed
Grouping operatio	n	When the finisher is installed
Sorting operation		When the finisher is installed
Paper exit operation		When the exit tray unit (MX-MFX1) is installed

[26] Setup and adjustment data recording

Print the various setup data and the adjustment data (list) with ${\sf SIM22-6}$ and keep the data.

- In case of a memory trouble, if the data are not kept, all the adjustments must be made again.
- If the data are kept, the setup values and the adjustment values can be entered without adjustments, shortening the servicing time.

[27] Necessary works before moving the machine

- If the following options are installed, remove all of them from the machine.
 - · Large capacity tray
 - Finisher
 - · Paper pass unit
 - · Saddle finisher
- 2) Remove the following consumable parts from the machine.
 - Paper
 - · Toner cartridges
 - · Development cartridge
- 3) Lock the following sections.
 - · Scanner (Optical section)
 - · Paper cassette lift plate

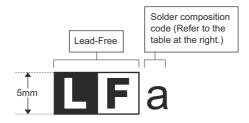
NOTE: Since the hard disk drive is built in the machine, use care not to exert vibrations or shocks to the machine when in transit.

NOTE: Raise the adjusters and the height adjustment bolts to the top.

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- <u>Ag</u> -Cu	а
Sn-Ag- <u>B</u> i Sn-Ag- <u>B</u> i-Cu	b
Sn- <u>Z</u> n-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu- <u>N</u> i	n
Sn-Ag-Sb	S
Bi-Sn-Ag- <u>P</u> Bi-Sn-Ag	р

(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 recommended.

(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 apparattillverkaren.
Kassera använt batteri enligt fabrikantens

instruktion.

(German) Achtung

Explosionsgefahr bei Verwendung inkorrekter 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
(MANGANESS 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.