

OPERATION MANUAL

MBM TABLETOP COLLATOR MODEL FC 10 PLUS



Read this "Operation Manual" carefully before use. Keep it at a specific place for handy reference.

About warning marking

In this operation manual, warning markings as shown below are used to enable you to properly use the device and thereby prevent harm to the human body and damage to assets. Before using the device, carefully read the descriptions of these warning markings to thoroughly become familiar with correct use.



Warning

This marking indicates the possibility of death or serious injuries if the device is improperly handled in disregard of this marking.



Caution

This marking indicates the possibility of injuries and physical damage if the device is improperly handled in disregard of this marking.

This Collator is a product to be used in the tabletop.

Read this "Operation Manual" carefully before use.

Notes, safely received correct use of the product, is intended to prevent harm or damage in advance. In this manual following names and signs stand for possible dangers.



O This symbol indicates a prohibited act. A pictogram describing the specific prohibited act is shown in the figure. (The left figure shows that disassembly is prohibited.)



This symbol an act the user is forced or instructed to perform. A pictogram describing the specific prohibited act is shown in the figure. (The left figure instructs the user to disconnect the power plug from the outlet.)

Safety Instructions

⚠

Warning

Operate the collator with designated AC current only. Use an exclusive outlet, as overloading may cause fire or an electrical shock.

Do not install the machine in an unstable place, such as one that shakes or tilts. The machine may fall, causing breakage or physical injury.



Never unplug the power cord from the outlet by gripping the cord itself. Doing so may damage the cord, causing fire or injury. Always disconnect the machine by gripping the plug.

Do not place receptacles containing water, such as vases, flowerpots and cups, on the machine. Spilled water can cause fire or an electrical shock.

Do not fail to connect the grounding wire. Connect the grounding wire before connecting the power plug to the power supply. When disconnecting the grounding wire, first disconnect the power plug from the power supply. A fire or electric shock may occur in case of electric leakage if the grounding wire is not connected.



Do not remove the cover of the machine, as it can cause an electrical shock or injury.

Do not dismantle the machine, it may cause fire or an electrical shock.

Continuing operation in spite of irregularities, such as overheating, smoking and unusual odor, may cause fire or an electrical shock. In such cases, turn off the power switch, remove the plug from the outlet and contact your dealer or authorized service representative.



When foreign substances, such as metal fragments, water or other liquids, fall into the machine, turn off the power switch immediately, remove the plug from the outlet and contact your dealer or authorized service representative. Continued operation with such substances in the machine may cause fire or an electrical shock.

ı———			
	<u>A</u> Caution		
8	Do not touch any part of the drive, including the roller, with a hand. It may cause an injury.		
8	Do not allow hair, a necktie, a necklace or other things to get too close to the drive, including the roller, as bodily injury can result.		
	Make sure that the paper feed table, auxiliary table, stacking table and the plate to prevent the machine from falling are properly set. They may cause an injury if they come off.		
	Do not install the machine in a humid or dusty place; excessive humidity and dust can cause fire or physical injury.		
	Do not put your fingers or hands in the clearance around the sheet feed and discharged sheet tables. You may get injured.		
	When you put your hand inside the device to, for example, remove a sheet, be careful not to touch projections or steel plate edges. You may get injured.		
	Never unplug the power cord from the outlet by gripping the cord itself. Doing so may damage the cord, causing fire or injury. Always disconnect the machine by gripping the plug.		
V	Make sure that the paper feed table, auxiliary table, stacking table and the plate to prevent the machine from falling are properly set. They may cause an injury if they come off. Also, take care not to cause the machine to fall when attaching or removing the stacking table and auxiliary table.		
	Be sure to remove the power plug from the outlet when moving the machine, otherwise it may damage the cord, causing fire or an injury.		
912	When the collator will not be used for several days, such during consecutive holidays, etc., be sure to unplug the power cord from the outlet for safety's sake.		

INTRODUCTION

Read this "Operation Manual" carefully before use.

Keep it at a specific place for handy reference.

Since the specifications of this machine are subject to change, be sure not to mistake this manual for one of a different model, as descriptions of may differ.

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1. PRECAUTIONS FOR INSTALLATION AND USE

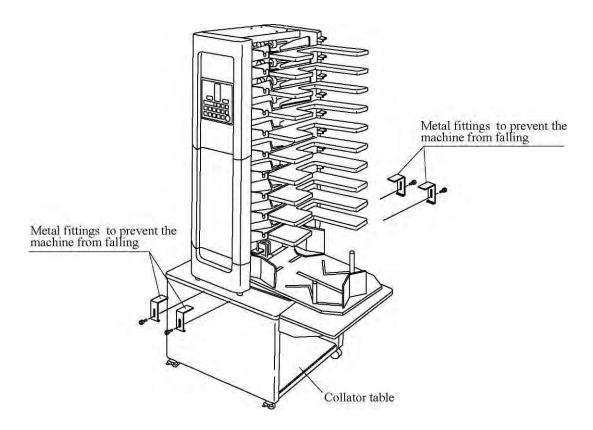
1.1 Installation

Caution

Use the optional collator table exclusively designed for this machine and do not install the machine in an unstable place, such as one that shakes or tilts. The machine may fall, causing a damage or bodily injury.

Do not install the machine in a humid or dusty place, as excessive humidity and dust may cause fire and physical injury.

- When installing the collator, use a collator table designed for the collator (sold as option). The collator table has safety measures such as metal fittings to prevent the machine from falling, etc. and is designed to keep its level position when used as a single machine as well as when connected with post-processing machine such as stapler-puncher, etc.
- When using the collator, or working near the collator, do not lean over the collator as it may overturn.
- When relocating the collator, move it while holding the collator table as pushing the upper part of the collator may overturn it.
- If the collator is likely to overturn when installed, fix the collator to the wall using the wall fixing plate (sold separately).



1.2 Place for installation

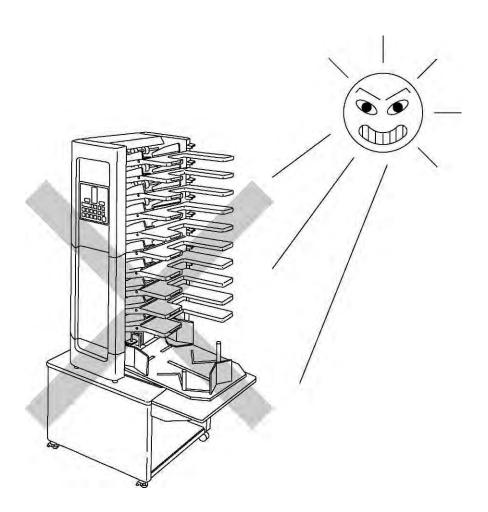
This machine is also designed for IT power system.

Avoid installing the machine in the following places for the sake of safety and to prevent mechanical problems.

[Precautions for installation]

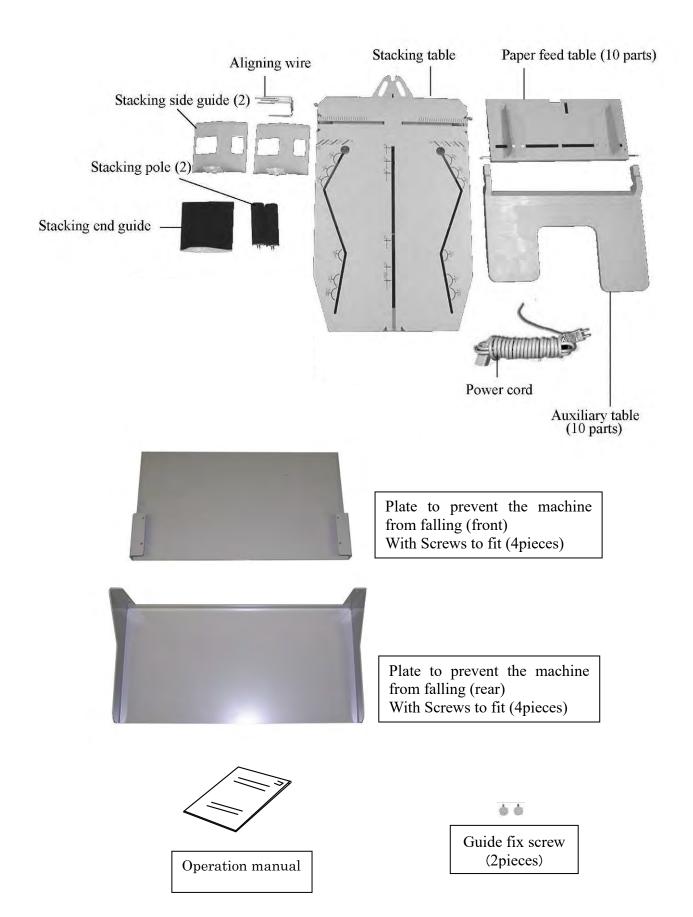
- Locations with extremely high or low temperatures. Room temperature should be between 5 and 35 degrees centigrade.
- Locations with the potential for producing electrical leaks, for example, owing to splashing water.
- Near heat sources
- · Places exposed to wind
- Narrow spots with poor ventilation, or dark places
- Locations exposed to direct sunlight or other powerful light sources. Direct sunlight or other strong light sources may cause the optical sensor to malfunction. Install the machine in an appropriate place or shield the light with a heavy curtain or other material.

BE SURE TO FOLLOW THESE INSTRUCTIONS TO AVOID MALFUNCTION.

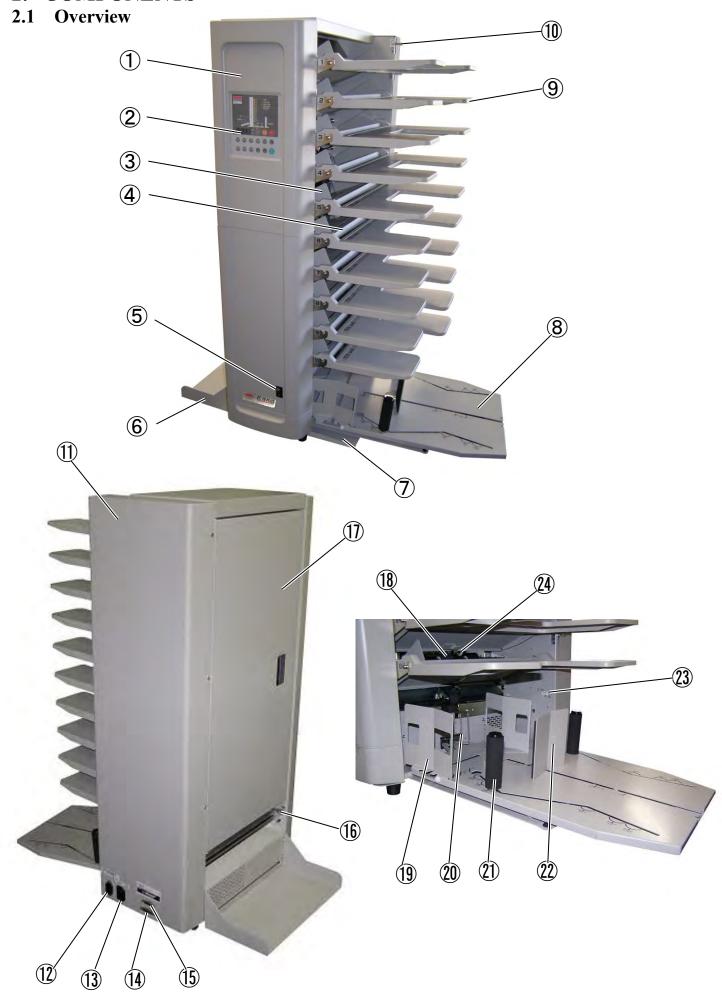


1.3 Confirmation of contents and quantity of attachments

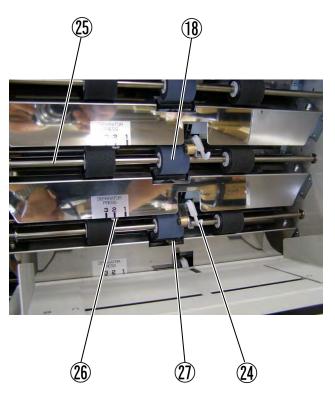
After unpacking the collator, check the attachments. Should any part be missing, contact your dealer immediately.

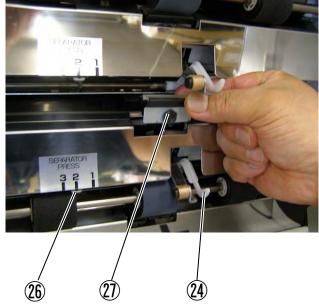


2. COMPONENTS

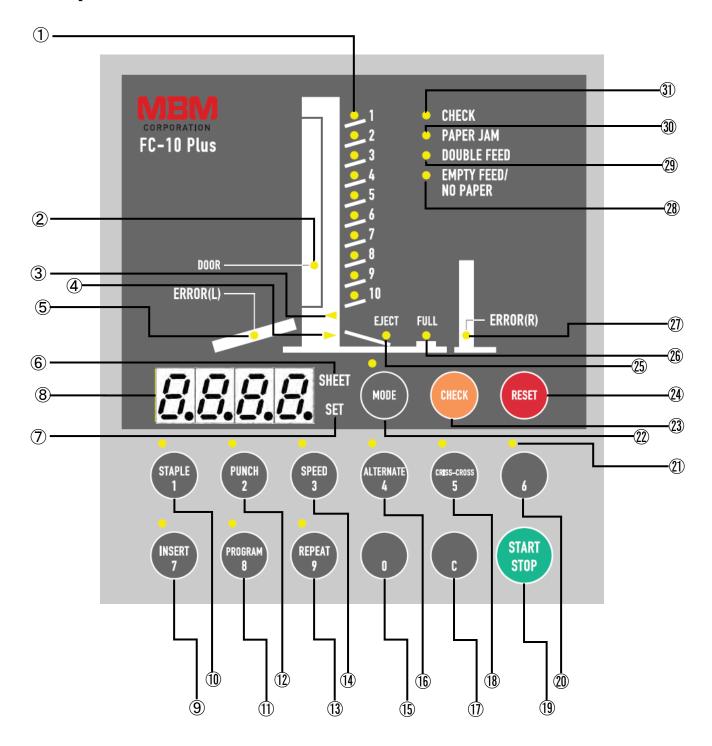


No.	Name	No.	Name
1	Left cover	16	Shift lever for paper direction
2	Operation Panel	17)	Back door
3	Paper guide	18)	Paper feed roller
4	Paper feed table	19	Stacking side guide
5	Power switch	20	Aligning wire
6	Plate to prevent the machine from falling (rear)	21)	Stacking pole
7	Plate to prevent the machine from falling (front)	22	Stacking end guide
8	Stacking table	23	Circuit breaker
9	Auxiliary table	24)	Paper detection wire
10	Paper feed pressure shifting lever	25)	Feed roller shaft
11)	Right cover	26	Separator pressure shift lever
12	Inlet	27)	Separator
13)	Outlet		
	(to connect optional stapler puncher and stacker)		
14)	Left connector (Connect to left tower / option)		
15)	Right connector		





2.2 Operation Panel

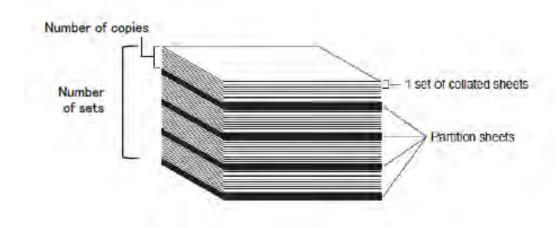


No.	Name	Function
1	Station Green lamp	Shows the collating status of each station 1 through 10
1	Station Red lamp	Flashes red in the event of jam or double feed.
2	DOOR lamp	Lights up when the back door is open.
3 4		Shows direction of paper ejection when lighted green.
5	ERROR (L) lamp	Indicates an error in the left side option when lighted red.
6 7	SHEET SET	Press the key to change the number of collated sets and the number of batches in Insert and Programmed Insert modes.
8	COUNTER	Displays the number of collated sheets. "Err" is displayed in the event of an error.
9	INSERT/7 key	When lighted green, Insert mode is selected. Also used to display 7 on the counter.
10	STAPLE/1 key	When lighted green, staple processing will occur; when not lit, stapling will not occur. Also used to display 1 on the counter.
11)	PROGRAM/8 key	When lighted green, Programmed insert mode is selected. Also used to display 8 on the counter.
12	PUNCH/2 key	When lighted green, paper will be punched; when not lit, no punching will occur. Also used to display 2 on the counter.
13	REPEAT/9 key	When lighted green, Crisscross stacker continuously moves each time pre-programmed number of collated sets are ejected. Also used to display 9 on the counter.
14)	SPEED/3 key	When lighted green, high-speed collation occurs; when not lit, collation will be slow. Also used to display 3 on the counter.
15)	0 key	Used to set the counter to O.
16	ALTERNATE/4 key	When lighted green, Alternate mode is selected; when not lit, Normal mode is selected. Also used to display 4 on the counter.
17)	Ckey	Press to return the counter to zero. It also turns off the lamp.10
18	CRISS-CROSS/5 key	When lighted green, Crisscross mode is selected; when not lit, straight mode is selected. Also used to display 5 on the counter.
19	START/STOP key	Press to start or stop collator operation.
20	6 key	Used to display 6 on the counter.
21)	OPTION lamp	When connecting a option, it lights up.
22	MODE key	When lighted green, various functions can be programmed. When using function keys, press this key first to light it green (goes out after five seconds).
23	CHECK key	Press for trial paper feed so the machine will memorize stations to be used and the thickness of paper.
24)	RESET key	Press to reset error. When pressed for three seconds, the paper feed table lowers. Pressed for three seconds while the machine is in stand-by mode, the main motor will idle.
25)	EJECT lamp	Lights should a paper ejection jam occur
26	FULL lamp	Lights should a paper stacking table is full.
27)	ERROR(R) lamp	Indicates an error in the right side collator when lighted red.
28	EMPTY FEED lamp	Flashes green in the event of no paper or no feed. In case of no paper, the lamp for the relevant station blinks slowly.
20	NO PAPER	If empty feed, the lamp for the relevant station blinks quickly. Flashes red should double feed occur.
<u>29</u> <u>30</u>	DOUBLE FEED lamp	
31)	PAPER JAM lamp CHECK lamp	Lights red should a paper jam occur.
J)	OTTEOIX Tamp	Lights green to when trial feed is complete.

3. MATTERS TO NOTE

3.1 Definitions

Name	Explanation
Paper jam	Paper stuck in the machine
Double feed	Feeding two or more sheets together
Paper feed slip	Paper not being fed
Fan out	Pulling out stuck sheets by blowing air



3.2 Characteristics and purpose of use

- Automatic collation of printed or copied documents in page sequence.
- Enables alternate collation. Alternate collation allows using two stations as one, making for easy collation of massive stacks of paper.
- Electric paper feed table, which raises and lowers automatically, provides for fast setting.

3.3 When not in use

- Remove the power plug from the outlet.
- Cover the machine.

4. PREPARATION FOR USE

4.1 Installing attachments

- 4.1.1 Mount the plate to prevent the machine from falling
- (1) Insert the front fall prevention plate under the body of the collator and fix the plate with four attached screws.

(indicated by the white arrow)

Front fall prevention plate

(2) Mount the rear fall prevention plate, and fix the plate with four attached screws.

(indicated by the white arrow)

Caution!

It is not necessary to use the rear fall prevention plate if a COLLATOR STAND is used.

Rear fall prevention plate





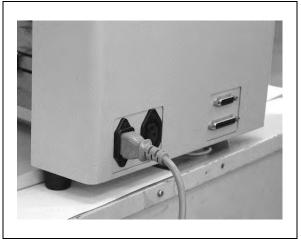
4.1.2 Power connection

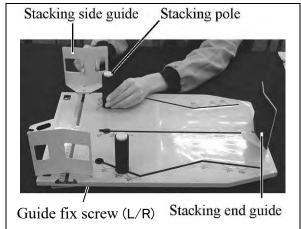
- (1) Insert the power plug in its receptacle on the back of the collator.
- (2) Insert the plug into the wall outlet.

V Caution!

It is strongly advised not to use an extension cord or overloaded one electrical outlet, as it can cause erroneous operation.

- 4.1.3 Stacking table assembly
- (1) Insert the 2 stacking side guides and the stacking end guide in the stacking table, making sure not to set them in the wrong direction.
- (2) Insert the 2 stacking poles in the holes and fix them while sliding them along the slot.
- (3) After having inserted a stacking side guide, please attach a guide fix screw.
- (4) Attach the stacking end guide.





4.1.4 Stacking table

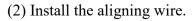
(1) Fit the tumbler-shaped hooks on the stacking table into the hooks of the front foot rubber base (two places) while fitting the tip notch of the stacking table to the collator's crisscross roller, then tilt the stacker table on either right or left side (right with the roller on the right, left when on the left), and insert the stacking table hooks in the opening on the front foot rubber base. Make sure the hooks are firmly fitted on both right and left sides.

V <u>Caution!</u>

If the depressed portion on the stacking table is not properly set in the crisscross roller, "LOCK" will be indicated on the Counter display when the CHECK key or START key is pressed. If the machine is continuously operated in this way, it may cause a breakdown of the crisscross motor. In such a case, turn off the power,, and after the stacking table is removed from the machine, start the machine again to perform normal operation and confirm that the crisscross roller moves from side to side and "LOCK" is not shown on the display. Then, reset the machine properly in accordance with the instructions specified in the Operation Manual.

(If the crisscross roller moves from side to side even after the stacking table is removed, contact your dealer.)

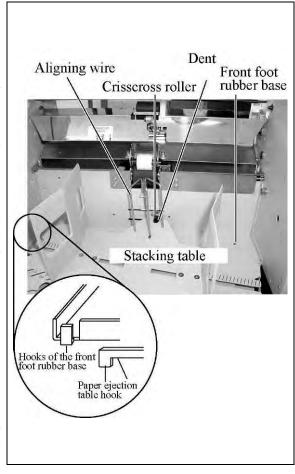
If the <u>CRISS-CROSS/5</u> key is pressed for three seconds after the MODE key is pressed, the crisscross roller will perform one operation.

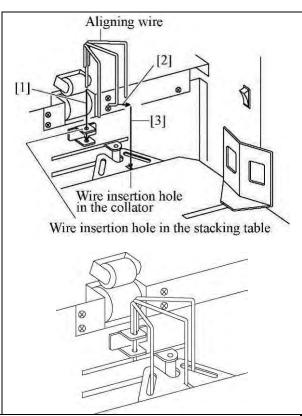


- [1] After installing the stacking table in the collator, insert the rear part of the aligning wire into the wire insertion hole in the collator.
- [2] Pinch the bent part at the aligning wire tip with your fingers and draw it to the front. Then, fit it on the wire insertion hole in the stacking table.
- [3] While pinching the wire as it is, insert the bent part at the wire tip into the wire insertion hole in the stacking table.

Remarks

- a) Make sure the stacking table and aligning wire are properly attached to the machine; wrong attachment may cause the machine to rock or paper to jam when ejected.
- b) Take care so that fingers or hands are not caught in collator operating parts.



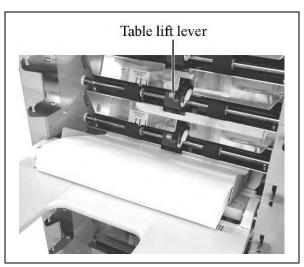


! Caution!

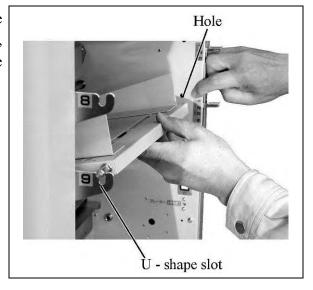
Make sure that the paper feed table, the auxiliary table and the stacking table are properly set. They may cause an injury if they come off. Also, take care not to cause the machine to fall when attaching or removing the stacking table and auxiliary table.

4.1.5 Paper feed table

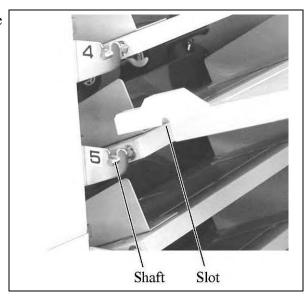
(1) First, make sure the table lift lever is in its low position. If it is not, turn the power switch on and press the Reset key for three seconds or more to lower the lever. Normally, the lever is below the paper feed table; by lifting the lever, the feed table will rise. If the lever is higher than the table, paper cannot be fed as the table cannot be raised.



(2) Insert the right side shaft of the paper feed table in the hole on the side opposite the collator operation side, and mount the left shaft on the plate with the U-shape slot.

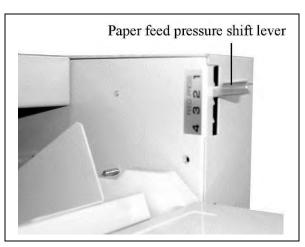


(3) Fit the auxiliary table slots (two places) on both side shafts of the paper feed table.



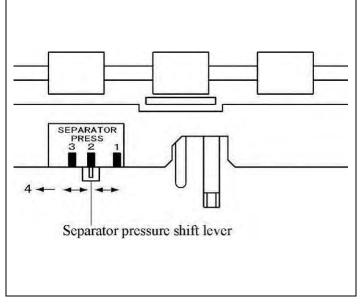
4.2 Setting paper feed pressure

- Position the paper feed pressure shift lever at [2] for normal jobs (ordinary paper).
- Four different degrees of pressure can be selected for Stations 1 and 10.
- Three different degrees of pressure can be selected for Stations 2 to 9.
- Select [1] (weak) when double feed occurs.
- Select [3] (strong) when paper feed slip occurs.



4.3 Setting separator pressure

- For regular jobs processing ordinary paper, set the separator pressure shift lever at [2]. Remove the paper feed table when changing separator pressure.
- Three different degrees of pressure can be selected for all stations.
- Select [1] (weak) when paper feed slip occurs.
- Select [3] (strong) when double feed occurs.
- * While separator pressure is classified as [1], [2] and [3] on the collator display, for special cases, [4] is built in next to [3]. Use this when double feed is so frequent that [3] cannot prevent it.



5. OPERATIONS

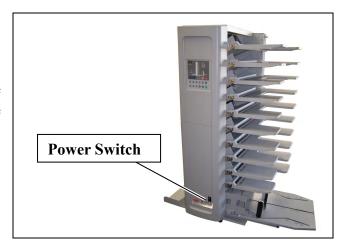
5.1. Procedure and method

5.1.1 Activating power

Turn the power switch on.

Remarks

Before turning the power switch to ON, make sure that the paper feed, auxiliary and stacking tables are fully inserted.



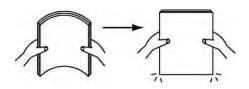
5.1.2 Setting of paper on feed tables

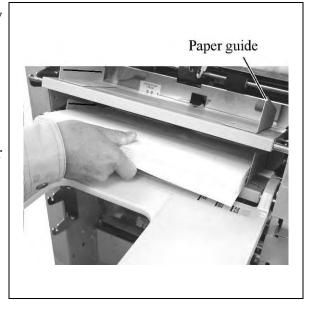
(1) Load paper on the paper feed tables and hold it firmly using the lateral paper guides.

Note Note

[How to fan out sheets]

- ① Pinch the sheets of paper at both ends.
- ② Bend them to admit air.(Loosen the force lightly and pinch them again after bending)
- ③ Jog and align the sheets vertically.





Remarks

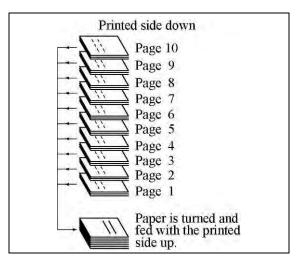
- a) Use the fill line on the paper guide as the loading capacity. In case of printed paper, do not load too much as it tends to swell.
- b) Fan out sheets well and then load them on the feed table. Failure to properly fan sheets may lead to trouble.
- c) Align sheets at the edges and insert them until they lightly strike the forward guide. Failure to properly align sheets may lead to double feed or no feed.
- d) Make sure any ink on the paper is dry. Let ink dry before loading paper. Wet ink soils the feed rollers and can lead to malfunction, such as double feed or no feed.
- e) Copied sheets may cause wrong feed or stacking error owing to electrostatic charge. Static electricity can be controlled by spraying a retail static eliminator on the feed rollers and the front edge of the paper. Too, since copied sheets are apt to curl at the edges; straighten or invert them before feed table loading.
- f) Be sure to load no-carbon-required paper (general quality) with the color developing side (usually the print side) down, otherwise the side coated with color former will probably be marked with rubbed traces when contacting the feed roller.
- g) Front and back sides of ejected paper change according to ejected direction (with independent use or when connected). Be very careful when connecting with after processing equipment.

(2) Paper loading order

1) Paper with the printed side down

Load the paper on the feed tables from bottom to top in ascending order of pages.

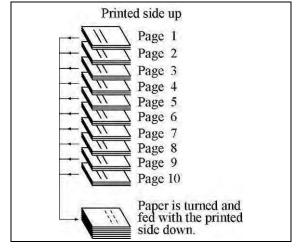
In this case Page 1 appears at the top of collated sheets on the stacking table.



2) Paper with the printed side up

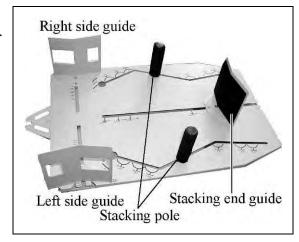
Load the paper on the feed tables from top to bottom in ascending order of pages. Paper is fed to the stacking table turned over.

In this case Page 1 is at the bottom of collated sheets on the stacking table.

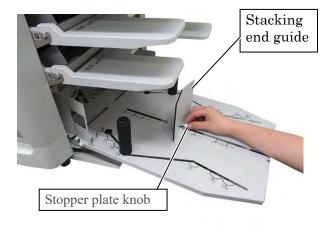


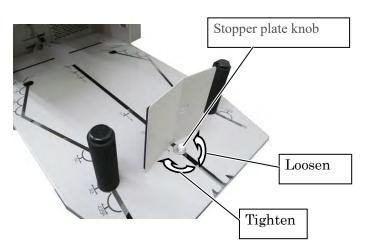
5.1.3 Setting of stacking guides, poles, etc.

Set the right and left side guides, stacking poles (two) and stacking end guide, respectively according to paper size. If the paper is caught by the guides or not properly aligned, make fine adjustments by moving the guides forward or backward, right or left.



Tighten a stopper plate knob and fix stacking end guide.





Remarks

- a) With postcards or organizer-notebook size paper, only straight stacking is recommended.
- b) Stacking arrangement changes according to the collating speed. With high-speed collation, ejected paper rebounds more strongly when striking the stacking end guide or pole, causing greater disorder. In case of warped paper, the faster collation becomes, the more it is apt to roll, worsening the arrangement.

However, since, owing to various factors, collation is not always better when stacked slowly, collation speed should be set case by case.

Paper type -- sturdy or easily torn -- also affects collation and stacking.

Note

a) In case of improper stacking

Set the standard on the positioning gauge for the pole guide shown on the stacking table and move the pole guide to the left (to narrow the gap between pole guide and collated paper). Move the right and left side guides uniformly inward (to narrow the gap between pole and paper) based on the positioning gauge. Adjust the positioning guides gradually rather than all the way at once while checking stacked paper alignment.

b) In case of paper jam frequently occurs on stacker

Set the standard on the positioning gauge for the pole guide shown on the stacking table and move the pole guide to the right (to broaden the gap between pole guide and collated paper).

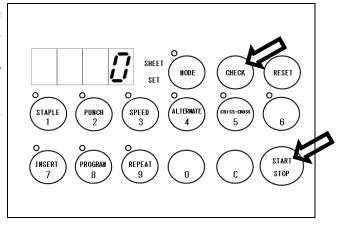
Move the right and left side guides uniformly outward (to broaden the gap between pole and paper) based on the positioning gauge. Adjust the positioning guides gradually rather than all the way at once while checking stacked paper alignment.

5.1.4 Collation

- (1) Press the CHECK key for trial paper feed. The feed tables will automatically rise and each will feed one sheet of paper (set of collated sheets).

 Make sure there is no error in the direction and order of pages and no feeding error.
- (2) If all is in order, press the START/STOP key to begin collating.

To halt collation, press the START/STOP key.



Remarks

- a) Do not turn off the power switch while paper feed is in progress.
- b) If there is any empty feed, the last collated set may have missing pages. Add the missing pages. The collated set with missing pages will not be counted.

Note Note

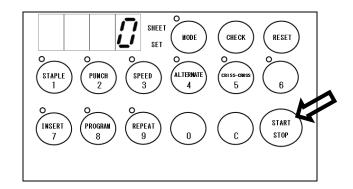
- a) If the last sheet remains on a feed table, place several blank sheets under the remaining sheet.
- b) In case delivered paper is not properly stacked, refer to "5.1.3 Setting of stacking guide, sheet stopper." and make adjustment according to it.

5.2 Counter

5.2.1 Using adding mode

Normally, the counter operates in adding mode. Press the START /STOP key to start collating and the machine will stop after all collated sheets are delivered.

The counter displays the number of collated sets and it will automatically stop when its displayed figure becomes [9999]. Press the START /STOP key to continue collating, and the counter will display [0] and resume counting in adding mode.



5.2.2 Using subtracting mode

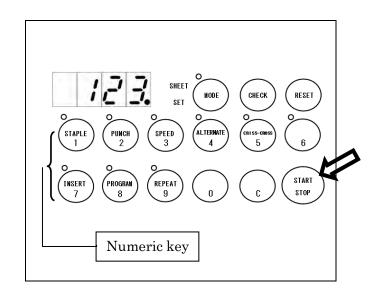
Set the number of sets to be collated by pressing numerical keys.



If the number of sets is set by pressing numerical keys, the subtracting mode lamp will automatically light up.

The counter will automatically stop when its displayed figure becomes [0].

If the <u>START /STOP</u> key is pressed while the machine is in operation, the machine will stop and the counter will show the number of sets remaining to be collated.



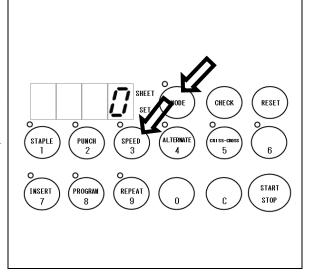
5.3 Setting collation speed

Collating speed can be set according to paper size and quality.

With the power on, it is automatically set for high speed.

- (1) Select function mode by pressing the MODE key. (MODE lamp will light).
- (2) Press the SPEED/3 key to change speed. Each time the MODE key and SPEED/3 key are pressed, speed switches between high and low speed.

(High speed: SPEED/3 lamp lights; low speed: SPEED/3 lamp not lit.)



Remarks

When revising collating speed, be sure to press the START/STOP key after pressing the CHECK key. The collator will not restart unless the paper is checked again.

Note

If paper is improperly set on the stacking table, select low speed for proper stacking.

As for setting of processing speed, the speed applied at the time when the power supply is cut off is stored in it, the machine will start operation based on that speed the next time it will be used.

5.4 Setting normal or alternate collation mode

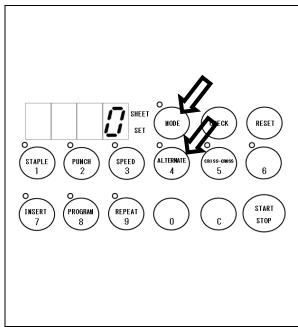
When collating fewer pages for many sets, Alternate mode is convenient as it loads sheets with the same page number in two neighboring stations. One machine can collate paper with up to five pages at once.

With the power switched on, normal mode is automatically programmed.

- (1) Select Program mode by pressing the MODE. (MODE lamp will light).
- (2) Press the ALTERNATE/4 key for Alternate mode.

 Each time the MODE and ALTERNATE/4 keys are pressed, the mode switches between them.

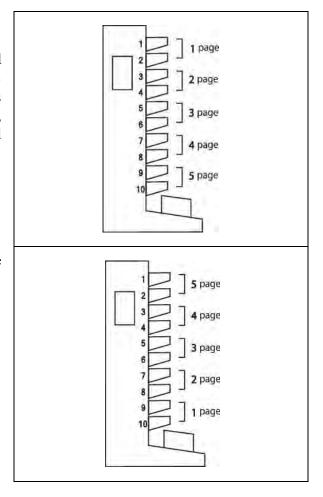
 (Alternate: ALTERNATE/4 lamp will light; Normal: ALTERNATE/4 lamp not lit.)



Note

In normal mode, up to 350 sheets per page can be loaded on each station. In Alternate mode, up to 700 sheets per page can be loaded on each station. (In case of 64 g/m² stock)

- (3) Load paper in Alternate mode
 - Load paper with printed side up on odd and even-numbered stations, that is, Stations 1 and 2, 3 and 4, 5 and 6, 7 and 8, 9 and 10. Paper feed starts with the odd-numbered station; if it runs out of paper, the neighboring even-numbered station will automatically start feeding.
 - Loading paper with the printed side down in Alternate mode.



5.5 Crisscross stacking (or straight stacking)

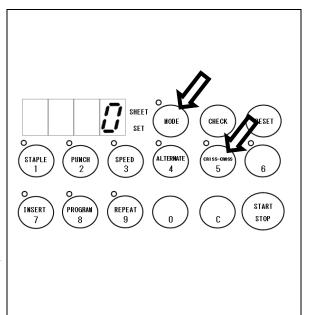
Crisscross stacking or straight stacking can be set according to purpose.

Crisscross stacking: Collated paper is stacked set by set crisscrossed to right and left sides.

(when the lamp is lit)

Straight stacking: Collated paper is stacked straight.
With the power on, crisscross mode is programmed.

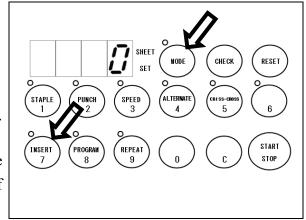
- (1) Select Program mode by pressing the MODE key. (the MODE lamp will light)
- (2) Press the <u>CRISSCROSS/5</u> key to switch between the two stacking modes. Each time the <u>MODE</u> key and the <u>CRISSCROSS/5</u> key are pressed, the mode switches between the two stacking modes.



5.6 Insert mode

Insert mode serves to insert partitioning sheets loaded on the top station in use according to the predetermined numbers of sets. It is convenient for distributing similar booklets to various sections or departments.

- (1) Select function mode by pressing the MODE key. (the MODE lamp will light)
- (2) Press the INSERT/7 key for three seconds; the Counter lamp will flash. Then input the number of sets to be collated.



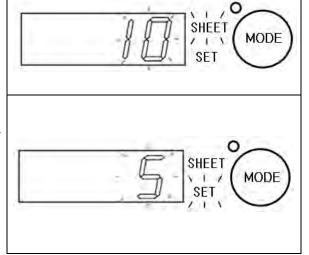
<Example>

When "10" is input as the number of sets (right drawing), partitioning sheet is inserted in each 10 collated set.

(3) Press the MODE key to change the display beside the Counter from SHEET to SET, then input the number of batches.

<Example>

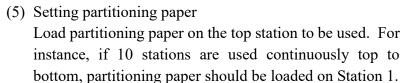
When "5" is input as the number of batches, the machine stops operation after 5 batches of 10 collated sets are processed.

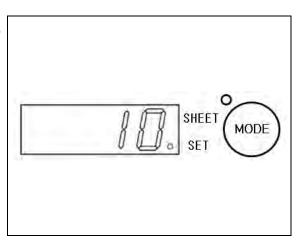


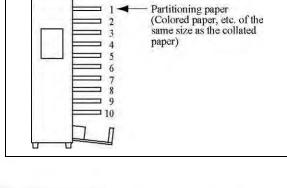
(4) Press the MODE key again; the Counter will light to show the number of sets input previously.

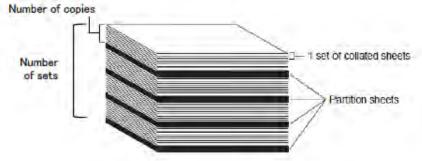
Note

- a) If [0] is input as the number of batches when SET lights on, insert mode collation will continue until the station runs out of paper.
- b) To confirm the number of batches, keep pressing the MODE key in Insert mode; this will display the figure.
- c) Two or more Insert mode data can be stored. For details, see 5.8 "Storing Insert/Chit mode data."





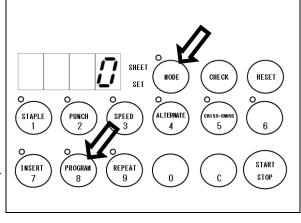




5.7 Programmed insert mode

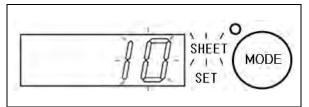
Programmed insert mode functions to insert front covers loaded on the top station and back covers on the bottom station according to a predetermined number of sets, making it easy to prepare chits.

- (1) Select the mode by pressing the MODE key. (MODE lamp will light)
- (2) Press the PROGRAM/8 key for three seconds; the Counter lamp will flash. Then, input the number of sets to be collated.



<Example>

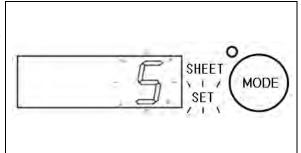
When "10" is input as the number of sets, front and back covers are inserted in each batch (10 collated sets) of set.



(3) Press the MODE key to change the display beside the Counter from SHEET to SET, then input the number of batches.

<Example>

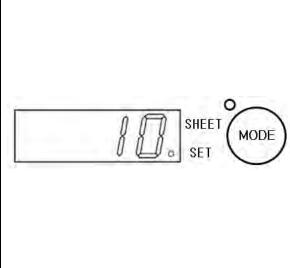
When "5" is input as the number of batches, the machine stops operation after 5 batches (5 chits) are processed.



(4) Press the MODE key again; the Counter will again light showing the number of sets previously input.

Note

- a) If "0" is input as the number of batches while SET is selected, programmed insert mode collation will continue until the station runs out of paper.
- b) To confirm the number of batches, keep pressing the MODE key in programmed insert mode; this will display the figure.
- c) Two or more Chit mode data can be stored. For details, see 5.8 "Storing Insert/Programmed Insert mode data."

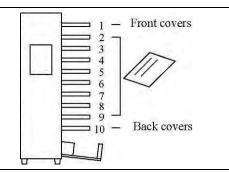


(5) Setting front and back covers

Be sure to load paper with the printed side up.

For example, when 10 stations to be used continuously top to bottom, front covers should be loaded on Station 1, back covers on Station 10.

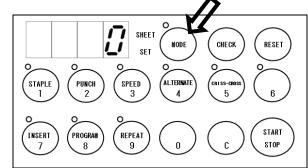
If fewer than 10 stations are used, load front covers on the top station, back covers on the lowest of those to be used.



5.8 Storing Insert/Programmed Insert mode data

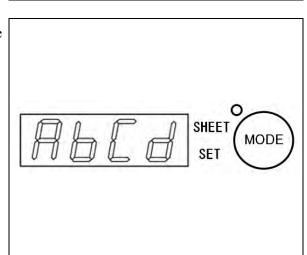
Up to four memories, Insert and Programmed Insert mode data can be stored.

(1) Select Program mode by pressing the MODE key. (MODE lamp will light)



- (2) Press the MODE key for three seconds; memory code [AbCd] will be displayed.
 - A flashing letter means that that letter is not stored in memory.
 - A lit letter means that that letter is already stored in memory.

The content of Insert or Programmed Insert mode data cannot be checked directly from this; it should be checked by calling up the data, as explained in 5.9 "Calling up Insert/Programmed Insert mode data.

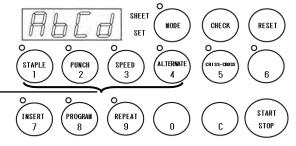


(3) Press the key responding to A to d for three seconds and memorize or overwrite the data.

Memory code A to d responds to the following keys:

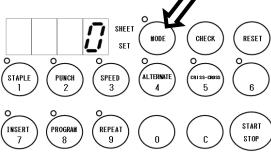
- Memory code A: Key 1Memory code b: Key 2
- Memory code C: Key 3
- Memory code d: Key 4

To return back to the normal collation mode, press the RESET key.

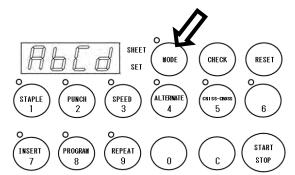


5.9 Calling up the Insert / Programmed Insert mode data

(1) Select Program mode by pressing the MODE key. (MODE lamp will light)



- (2) Press the MODE key for three seconds; memory code [AbCd] will be displayed.
 - A flashing letter means that that letter is not stored in memory.
 - A lit letter means that that letter is already stored in memory.



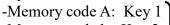
Remarks

To check the content of Insert or Programmed Insert stored memory data directly requires calling up the data content once.

See 5.6 "Insert mode" and 5.7 "Programmed Insert mode."

(3) Press the key to respond to A to d so that the stored data is indicated on LED display.

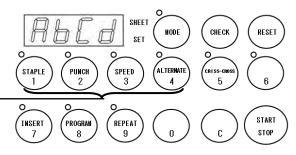
Memory code A to d responds to the following keys:



-Memory code b: Key 2 -Memory code C: Key 3

-Memory code d: Key 4

To return back to the normal collation mode, press the RESET key.

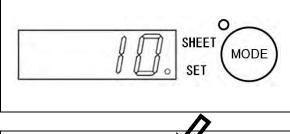


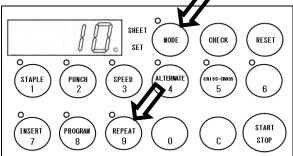
5.10 Repeat mode

Repeat mode is a function to set Crisscross mode according to the number of sets, making it easy to file only part of a chit book.

- (1) Program the number of sets to be stacked with Crisscross stacking.
- (2) Press the MODE key to switch to Function mode.

 (MODE lamp will light)
- (3)Press the REPEAT/9 key; the REPEAT/9 lamp will light.





5.11 Switch Independent/Synchronized

When using an optional staple punch, switch Independent/Synchronized.

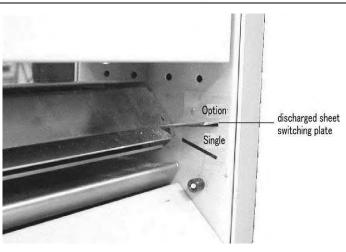
Remarks

Note that an error will occur if the discharged sheet switching plate is switched to "Synchronized" mode with no optional staple punch connected.



Switch the discharged sheet switching plate In Independent mode: The sheet collator is used alone.

In Synchronized mode: The sheet collator is used in synchronization with an optional staple punch.



6. MAINTENANCE, INSPECTION, CONSUMABLES

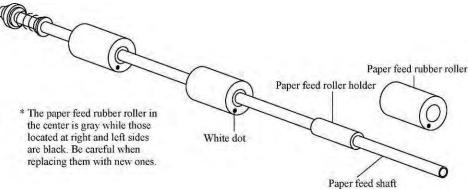
6.1 Important for maintenance and inspection

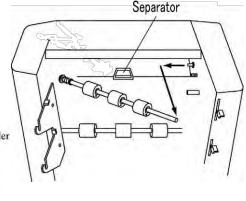


When conducting inspections and maintenance, be sure to remove the power plug from the outlet. If not, it may cause injury or electric shock.

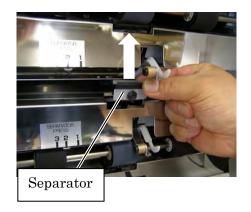
6.2 Usual maintenance

• Cleaning of paper feed rubber roller and separator is recommended from time to time (as required).





- (1) Remove the paper feed tables and auxiliary tables. While holding the paper feed shaft, push it in to the left, then pull it toward the front.
- (2) After removing the paper feed shaft, clean its three rubber rollers.
- (3) Draw out the separator in the direction of the white arrow shown in the figure below, and clean the rubber portion.
- (4) Install the paper feed shaft in the way reverse to how it was removed.



Should trouble such as double feed, no feed, etc. occur after cleaning, the rubber paper feed rollers and separator are worn. Replace them with new ones referring to the previous page. When the paper feed rubber rollers are replaced, mount them on the paper feed rollers holders so that the white dot of the rubber rollers is on the right-hand side. In addition, after mounting the paper feed rollers on their holders, roll them on a flat surface such as a desktop to make sure they are mounted horizontally. If mounted askew, problems like paper feed failure or double feed may occur. Be watchful of the paper detection wire when replacing the feed rollers.

Cleaning the exterior

Wipe off any stains using a cloth dampened with diluted neutral detergent and wrung tightly.

Remarks

Do not use solvent cleaning liquids as they may cause discoloring.

Cleaning of discharged sheet photo sensor

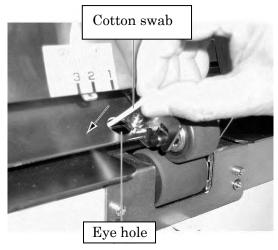
When the paper dust adheres to the surface of the discharge photo sensor (contained in the part indicated by the arrow shown in the figure below) and will shut off the sensor light, it becomes paper discharge jam.

Please regularly clean the paper output photo sensor.

How to Clean:

Put a cotton swab from the "eye hole" of paper ejection guide, to clean the surface of the photo sensor.

The discharged sheet photo sensor (a miniature bulb of approximately 5 mm in diameter) is visible from the "eye hole."

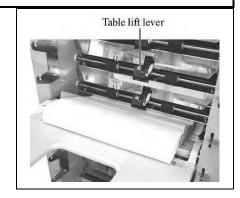




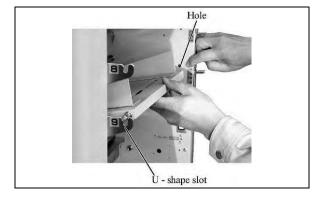
Make sure that the paper feed table, the auxiliary table and the stacking table are properly set. They may cause an injury if they come off. Also, take care not to cause the machine to fall when attaching or removing the stacking table and auxiliary table.

• How to set of Paper feed table

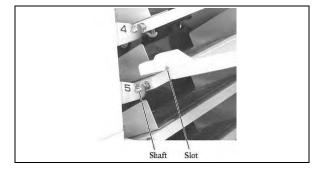
First, make sure the table lift lever is in its low position. If it is not, turn the power switch on and press the Reset key for three seconds or more to lower the lever. Normally, the lever is below the paper feed table; by lifting the lever, the feed table will rise. If the lever is higher than the table, paper cannot be fed as the table cannot be raised.



Insert the right side shaft of the paper feed table in the hole on the side opposite the collator operation side, and mount the left shaft on the plate with the U-shape slot.



Fit the auxiliary table slots (two places) on both side shafts of the paper feed table.



A Caution!

Do not use the collator with the paper feed table removed.

Be very cautious not to get fingers pinched between the paper feed rollers when the collator starts to operate.

6.3 Consumables

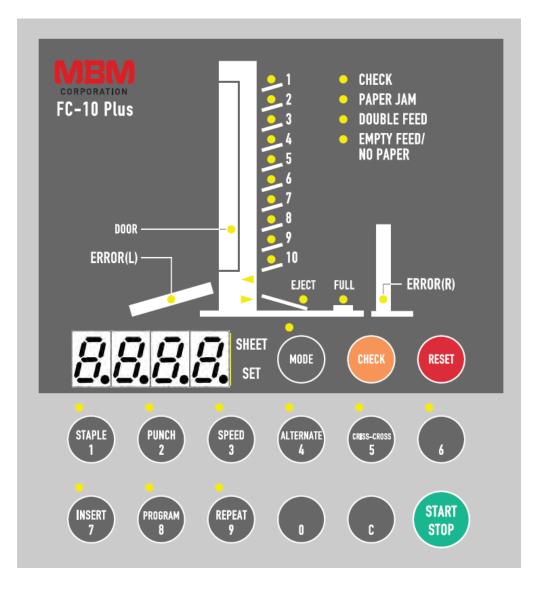
The collator's paper feed rollers and separator are consumable. Contact your dealer or authorized service representative when they need replacing.

7. TROUBLE SHOOTING

7.1 Corrective actions to be taken when LED lamps are lit or flashing

When EMPTY FEED, PAPER JAM or DOUBLE FEED lamps flash, remove the last set from the ejected paper.

Since the number of erroneous collation is not counted, the number of stacked sets is the number of sets displayed on the counter less the removed one set.



LAMPS (Lit/Flashing)	STATUS/CAUSE	CORRECTIVE ACTION
CHECK (Lit in green)	Normal operation	Stations in use and paper thickness are checked.
	If a paper jam occurs, the	Fan out the paper well.
PAPER JAM (Lit in red)	corresponding station lamp and the PAPER JAM lamp will flash. The counter will display "Err."	Select separator pressure weaker by one degree.
		Fan out the sheets of paper well.
		Select separator pressure stronger by one degree.
	If double feed occurs, the	Select paper feed pressure weaker by one degree.
DOUBLE FEED (Flashing in red)	corresponding station lamp and the DOUBLE FEED lamp will flash. The counter will display "Err."	Double feed may occur if a mixture of paper of different quality or differently printed paper is loaded onto a station. Be sure to load each station with paper of only one quality.
		Remove from the stacking table extra page delivered owing to double feed.
	If a station in use has run out of paper or an empty feed occurs, the corresponding lamp will flash. In case of empty feed, the counter will display "Err." In case of no paper, it will display "End."	Load additional paper.
ENPTY FEED/ NO PAPER (Flashing in green)		Fan out the paper well.
		Select feed pressure stronger by one degree.
		Set paper inversely.
FULL	If the stacking table is full of delivered	Remove the paper that has filled the stacking table, or jammed paper, and press the RESET key.
(Flashing in green)	paper The counter will display "FULL."	Install the stacking table properly.
	TOLL.	Install the collator on a level place.
EJECT	Contamination of the discharged sheet sensor or sheet jamming.	Remove paper dust from right and left ejection sensors.
(Flashing in red)	The counter will display "Err.	Remove the sheet caught in the sheet discharge portion.
DOOR (Flashing in red)	The back door is open.	Close the back door. (Make sure it is firmly fixed) The DOOR lamp will flash if the back door is open while the machine is in operation. In such a case, close the back door and press the RESET key.

Special error display

COUNTER DISPLAY	STATUS/CAUSE	CORRECTIVE ACTION
Err 0	Nonvolatile memory fault	If this nonvolatile memory fault frequently occurs, contact the your dealer or authorized service representative.
Err 1	Communication error	Check the connection between the device and the optional unit.
Err 2	Sensor failure	Contact the your dealer or authorized service representative.
Err 4	Both the staple and the punch are set to OFF.	Set the staple or the punch to ON, or switch the mode to "Independent."

7.2 Troubleshooting

Troubles	Possible cause	Action
	The power cord is not plugged in.	Insert the power plug into the outlet.
The POWER has been switched on, but does not indicate on the operation panel.	The circuit breaker is activated. To reset the breaker, please push the projected portions of the breaker shown in the right figure, marked with white arrows (2 places)	Reset the circuit breaker.
	Internal trouble of the machine	Contact your dealer or authorized service representative.
The START/STOP key has been pressed, but the machine does not work.	A paper check is required. A warning will beep and "" (no indication) will appear.	Press the CHECK key for trial feed.
	The back door is not closed completely.	Close the door securely.
The CHECK key has	The stacking table is full or a paper jam is occurring on the stacking table.	Remove delivered or jammed paper.
been pressed, but the	A paper jam has occurred on station.	Remove jammed paper.
machine does not work. Lamps on the operation panel light or flash, indicating irregularities.	When the stapler-puncher is in use, a paper jam or a blown fuse has occurred within the stapler-puncher, or the stapler-puncher has run out of staples.	Remove the cause of the trouble.
	Internal trouble of the machine	Contact your dealer or authorized service representative
The machine has started operation by pressing the START/STOP key or the CHECK key, but no paper is fed.	Sheets are not set properly.	Set sheets securely on a feed table.
Paper jams on the stacking table occur frequently, or sheets are not stacked neatly.	Stacking table paper guides are not set properly.	Adjust the paper guides.
	Paper feed rollers are dirty.	Clean the paper feed rollers.
	Separators are dirty.	Clean the separators.
Domaniano desti C. 1	Sheets of paper are curled.	Straighten curled papers and set sheets on feed table.
Paper jams, double feed or empty feed occur	Feed rollers are worn.	Replace the rollers (Contact your dealer or authorized service representative.)
frequently.	Separators are worn.	Replace the separators. (Contact your dealer or authorized service representative.)
	Paper feed tables have been attached or removed while the power switch is on.	Reset the feed tables after switching off the power.

Troubles	Possible cause	Action
Double feed occurs	Separator pressure is too weak.	Select stronger separator pressure.
frequently.	Paper feed pressure is too strong.	Select weaker paper feed pressure.
	Paper feed pressure is too weak.	Select stronger paper feed pressure.
Empty feed occurs frequently.	Separator pressure is too strong	Select weaker separator pressure.
n equently.	Sheets are curled at the edges because they were copied.	Set sheets upside down on a feed table.
Paper becomes dirty.	Paper feed rubber rollers, separators, transport belts, are dirty.	Clean the rollers, separators, and /or belts.
	The stacking table is not set properly.	Set the stacking table properly.
	The machine and stacking table are not installed at level place.	Install them at level place.
The EJECT lamp shows.	The paper ejection area of the machine are exposed to direct light.	Shade light with curtains or the like, or move the machine to a darker place so that the ejection area will not be exposed to direct light.
	Ejection sensor are dirty.	Cleaning of discharged sheet photo sensor
	The paper ejection sensor malfunctions when hands or foreign objects enter the ejection area while the machine is in operation.	Make sure that foreign objects do not enter the ejection area while the machine is in operation.
The collator suddenly runs fast.	The machine and stacking table are not installed on level place.	Install them at a level place.
	The paper discharge parts of the machine are exposed to direct light.	Shade light with curtains or the like, or move the machine to a darker place so that the ejection area will not be exposed to direct light.
The DOUBLE FEED	Paper of different qualities are loaded onto same feed table.	Make sure that sheets of the same quality are loaded onto a paper feed table.
lamp lights even after only one sheet of paper	Differently printed paper is loaded onto same feed table.	Make sure that sheets printed in the same way are loaded onto a feed table.
has been fed.	Paper not conforming with specifications is in use.	Use paper conforming with specifications.
Lamps for stations repeatedly lights up and go out while moving up and down.	Troubles in the table lifting motor or other electrical parts	Contact your dealer or authorized service representative.
The Counter display shows "LOCK" and the machine stops operation ("CRISSCROSS" is switched to ON, and the stacking table will not move horizontally)	The stacking table is not set properly	Check if the discharged sheet table is properly set.
Do not move stacking table.	It is set to straight stacking	Set to Crisscross stacking

7.3. In case of breakdown

Should the collator need repair, contact your dealer (or the maintenance and service company).

8. RELOCATION OR DISPOSAL

8.1 Relocation

8.1.1 Removal of the machine from its present location

Before removing the machine from its present location, be sure to remove the power plug from the wall outlet.

8.1.2 Transport

- (1) Transport the removed parts, attachments and Operation Manual together with the machine.
- (2) Take care not to expose the collator to strong vibration or shock.

8.1.3 Installation

When relocating the device (whether the device is used alone or in combination with any option), consult the your dealer or authorized service representative.

8.2 Disposal

When disposing of the collator, ask a contractor specialized in industrial waste disposal to handle it in accordance to the local regulations.

9. PRODUCT SPECIFICATIONS

9.1 Specifications

Stations(bins)	10 stations(bins)
Paper Feed	Roller separator system
Station(bin) Capacity	1.1"[approx. 350sheets of 17-lb bond (64g/m²) paper]
Paper Transport	Belt roller system
Stacking Capacity	2.6" [approx. 880 sheets of 17-lb bond (64g/m²) paper]
Paper Stacking System	Right and left index system (20° apart) or straight stacking
Collating Speed	40-70 set/minute (A4 size paper long-edge feeding)
Paper Size	Max. 12.9" × 18.5" (328 × 469 mm) / Min. 3.8" × 5.9" (95 × 150mm) A3SR A3 B4 A4 B5 A5
Paper Weight	52 to 157 g/m² (In case of 157 g/m², up to A3 size can be used.)
Detection of Station in use	Stations in use can be checked by trial feed with the CHECK key.
Detection of Paper Weight	Paper thickness on each station can be checked by trial feed with the CHECK key.
Feed Error Detection	Empty feed, no paper, paper jam, double feed (detection of paper thickness with photo-electric sensors)
Other Detection	Stacking table full, paper eject jam, back door open/close status, (Staple cartridge empty and paper jam detection when optional stapler-puncher is mounted). Four-digit display on the operation panel counter, addition/subtraction (preset) switch-enabled
Additional Features	 Automatic elevation of paper feed table Alternate collation (Neighboring two stations can be used together for the same sheet/page. Insertion of partitioning paper (according to the designated set) Programmed insertion of cover paper (loading covers on the top station and back covers on the bottom: Good for collation for system-notebook, chits, etc.) Three levels of paper feed pressure (four levels for Station 1 and 10, and three levels for Station 2 to 9) Three levels of separator pressure (Fourth level built-in while not displayed on the tablet: Used for special papers)
Power Source	100-240V 50-60Hz <2.0-1.2A>
Power Consumption	Maximum 120W
Dimensions	W27.2" ×D 21.3" ×H 41.8" (W690 × D540 × H1,060 mm)
Dimensions (with anti-fall plate)	$W34.9" \times D21.3" \times H41.8" (W885 \times D540 \times H1,060 mm)$
Weight	176.4 lb (79.7 kg)

Specifications are subject to change without prior notice for the sake of improvement.