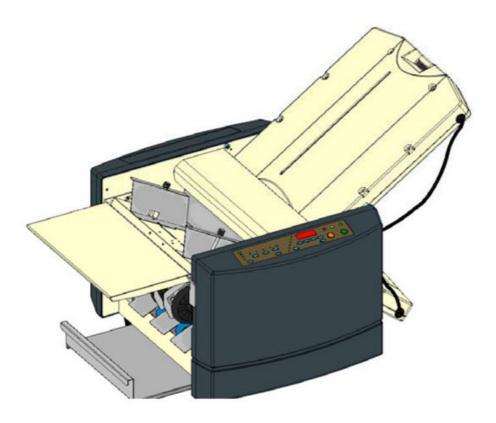
OPERATION MANUAL

Paper Folder EP-45F



Contents

1.Safety Instructions	
2. Accessories	
3. Part Name	
4. Designation and Functions of Operation Panel	5
5. Preparation	
5-1.Install the roller	6
5-2. Install Table A and B, Preparation before start the machine	7
6. Indication of the Counter	
6-1. Addition Counter	9
6-2. Subtraction Counter	
6-3. Input non-standard-size paper length	9
7. How to use	
7-1. Standard Folding of Standard-size Paper	10
7-2. Standard Folding of Non-Standard-size Paper	11
8. Cross Folding	13
9. Adjustment	
10. Storage	18
11. Cancellation of storage	19
12.Check lamp	20
13.Control Speed	20
14. Change roller Rubber pad	·····21

1.Safety Instructions

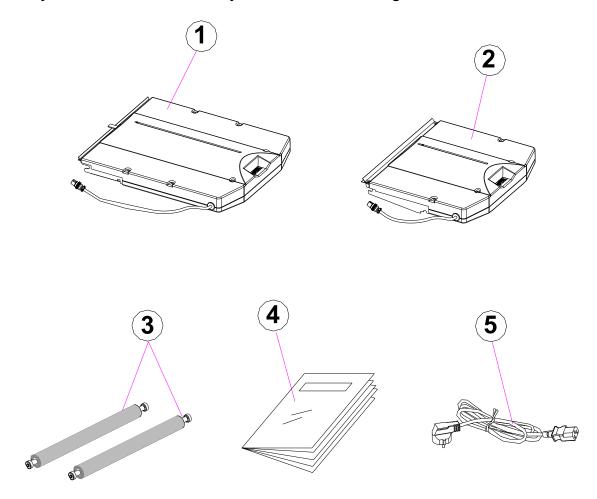
Danger: Stands for immediate danger threatening the life and health of persons and loss of property. Disregarding these instructions may cause severe damage to health and even serious injuries.

Caution: Stands for an endangering situation that may occur. Disregarding these instructions may lead to slight injures or damage to property.

	Make sure that the machine is electrically grounded. This prevents an electric shock when			
	there is a leak of electricity.			
	Use the machine at 110 - 120VAC, 220 - 240VAC with a frequency of 50Hz to 60Hz.			
	Do not place any object on this machine. A fire may start or electricity may leak if water or a			
	foreign object enters inside the machine.			
	Handle the power cord with care. A fire may start or an electric shock may be caused if			
	the cord is damaged, broken, or processed, if a heavy object is placed on the cord, or if the			
	cord is bent forcibly.			
Danger	Do not remove the cover of this machine. Otherwise, an electric shock or injury may be			
Danger	caused.			
	Do not remodel this machine. Otherwise, a fire may break out or an electric shock may be			
	caused.			
	If the machine is used when it is in an abnormal condition, such as generating heat,			
	emitting smoke, and giving out a strange smell, a fire may break out or an electric shock			
	may be caused. Turn off the power switch immediately and then pull the Power plug out of			
	the electric outlet. Afterward, consult with your dealer.			
	If thunder approaches, pull the power cord out of the electric outlet to prevent a fire or			
	breakdown caused by the falling of a thunderbolt.			
	Do not let hairs, a necktie, or necklace hang above the drive of the machine. Doing so may			
	cause an injury.			
	Do not put the machine on an unstable place such as a shaky stand and a slant floor.			
	Doing so may cause the machine to drop or fall down, causing an injury.			
Caution	Do not put the machine in a moist or dusty place. Doing so may start a fire or cause an			
ouulion	electric shock.			
	Be sure to pull the power plug out of the electric outlet first when moving this machine.			
	Otherwise, the cord may be damaged, causing a fire or an electric shock.			
	Be sure to pull the power plug out of the electric outlet for safety purposes when this			
	machine is not used for consecutive holidays or for other reasons.			

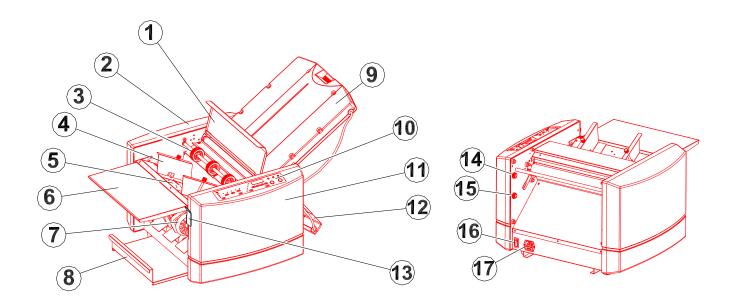
2. Accessories

Make sure that the following accessories are included in the package after opening it. Contact your dealer immediately if there are missing accessories.



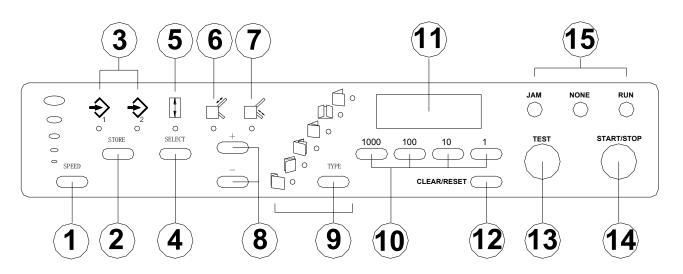
Number	Accessories	Quantity
	Table A	1
2	Table B	1
3	Roller	2
4	Operation Manual	1
5	Power cord	1

3. Part Name



	Part Name		Part Name
1	Roller cover	10	Control panel
2	Left side cover	11	Right side cover
3	Paper feed roller	12	Table B
4	Paper guide	13	Paper feed table lever
5	Feed table	14	Table A socket
6	Auxiliary feed table	15	Table B socket
7	Paper ejection roller	16	Power switch
8	Paper stacking table	17	Inlet
9	Table A		

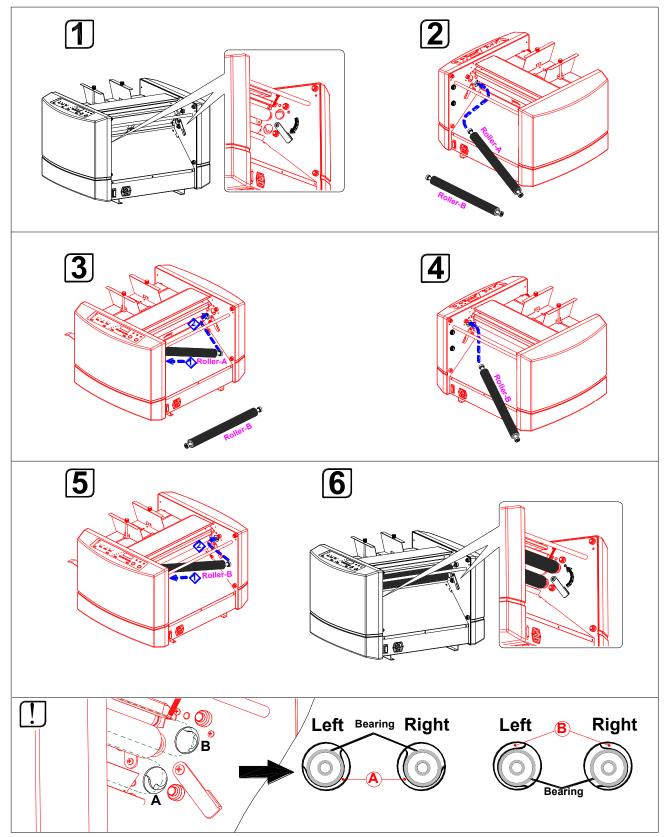
4. Designation and Functions of Control Panel



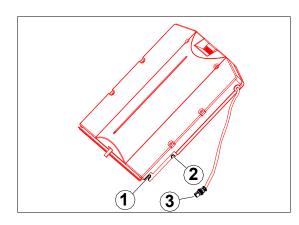
No.	Designation/Indication	Function
1	Speed adjustment key	Used for adjusting the speed.
2	Store key	Select Memory 1/2 stored folding position and the folding position after adjustment is stored.
3	Memory 1/2 lamp	Two special folding types are stored.
4	Select key	Used for selecting paper length, the feed position of table A and B, indicating of the counter when the lights are off.
5	Paper length input mode lamp	It is on when paper length is input; If non-standard-size paper, press CLEAR/RESET, input correct paper length.
6	Table A stopper move mode lamp	It lights when the position of stopper of Table A can be adjusted.
7	Table B stopper move mode lamp	It lights when the position of stopper of Table B can be adjusted.
8	+/ -key	Used for adjusting the position of the stopper of Table A and B,
9	Fold type key	Six folding types & six types of paper can be selected and stored.
10	Numerical key1	Used for inputting the reduced number for subtraction counting and the length of non- standard-size paper
11	Counter	Shows the number of sheets, the position of the stopper pin of Table A and B, and paper size.
12	Clear/Reset key	Clears counter indication and resets error. When the Paper length lamp is on, press this key, can input non-standard-size paper
13	Test key	Test fold one sheet (stopper of Table A and B move to the position)
14	Start/Stop key	Starts and stops the machine
15	Statues lamp	It lights when paper stock runs short, or indicates the location when paper feed trouble occurs.

5. Preparation

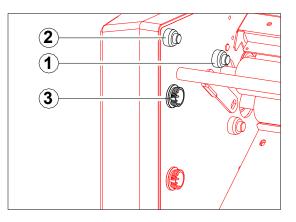
5-1. Install the roller



5-2.Install Table A and B, Preparation before start the machine



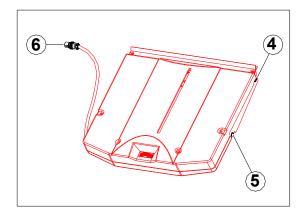
5-2-1. Position of Table A' shrand: connector



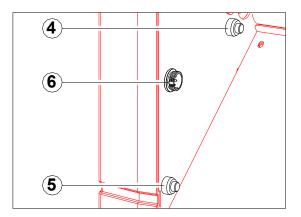
5-2-2. Insert the front notched part of Table A into the stud (1) of the machine and drop its rear notched part on the stud (2). Insert the plug into the connector (3)

Caution:

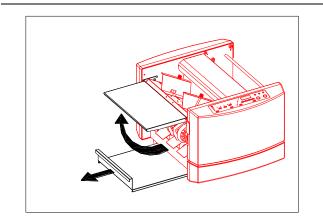
The connector has its direction. Insertion by force may cause trouble.



5-2-3. Position of Table B's notch and connector

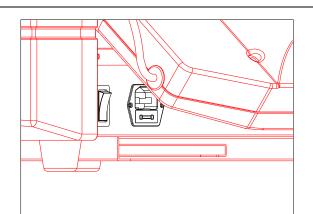


5-2-4. Insert the front notched part of Table 2 into the stud (4) of the machine and drop its rear notched part on the and drop its rear notched part on the connector (6).



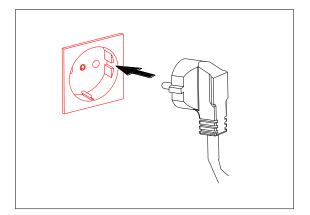
EP- 45F

5-2-5. Pulling the paper stacking table



Paper Folder Operation Manual

5-2-6. Insert the power cord into the inlet out and set it while lifting the auxiliary table.



5-2-7. Caution:

Be sure to undo before use.

Insert the power cord into the outlet.

When the power switch is on, the stoppers

of Table A and B move to the origin.

6. Indication of the Counter

6-1. Addition Counter

When the three lamps are off, the number indicates the counter. Press start/stop key after choosing the fold type, it counts automatically the folded paper.

Press the Clear/Reset key and reset the number at zero (0)

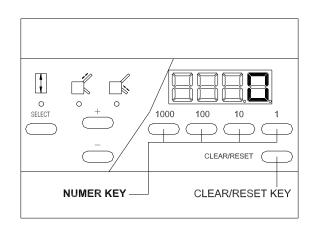


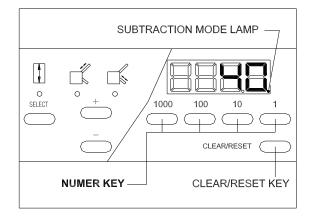
When the three lamps are off, the number indicates the counter. Input the desired number using the Numerical keys.(40 is input in this case)

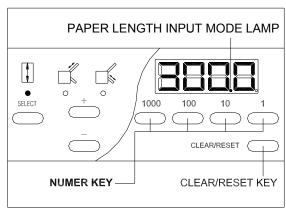
Subtraction Mode Lamp will light. Press start/stop key after choosing the fold type. The number on the counter decrease by one each time a sheet of paper is folded. When the number is finished, the counter will return to the desired number again.

6-3. Input non-standard-size paper length

Press the Select key, Paper length input mode lamp is on, press Clear/Reset key. Input the paper length using the Numerical keys (300mm is input in this case, micro meter can be input after decimal point). Press store key, and store under 1 or 2 memory indication.







7.How to Use

7-1. Standard Folding of Standard-size Paper

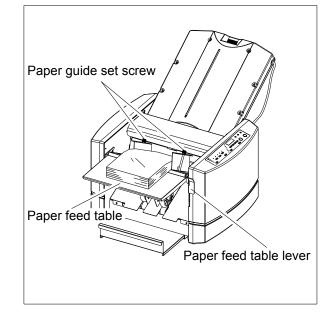
7-1-1. Set the standard-size paper

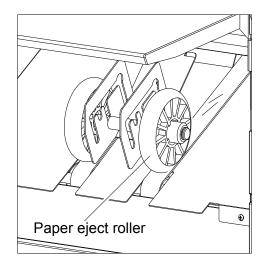
Set the standard-size paper. Loosen the paper guide. Set screw and set the paper guide to fit the width of the paper.

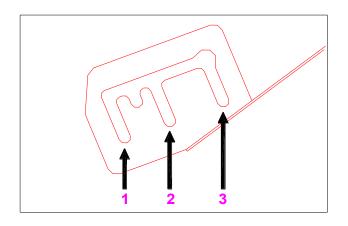
Stack the paper on the paper feed table with its printed side facing up (its printed side down in case of fold-out) after neatly arranging it. Make the paper guide closely contact the paper, and tighten the setscrew. Lower the paper feed table lever to raise the table,

7-1-2. Setting the paper ejection roller

Move the paper ejection roller to the position that fits the size of paper being used. If the roller doesn't run smooth bhange the roller position.







Change the roller position to fit the paper size

	1	2	3
Standard-size	A3	Δ4/R4	B5/A5/B6
paper	7.0		00// (0/00
Non-standard-	Setting the designated position		
size paper	according to the paper length		

7-1-3. Selecting of folding type

One of the six folding types (Single, Gate, Letter, Zigzag, Double, Parallel Fold-out) can be selected. Press the desired folding type key.

7-1-4. Test folding

Before start folding, press Test key, Table A/B move to the position of designated fold type, one sheet will be folded. Check if the paper has been folded correctly. (In case of correcting slanting folding, refer to Adjustment on Chapter 9)

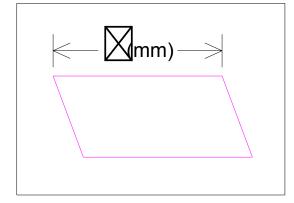


Note: If the Table A or B has been adjusted, press Test key before continuous folding, or the adjustment will not be accepted, Table A / B will return to origin before the adjustment.

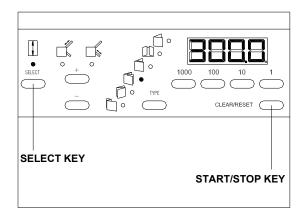
Press the Start/Stop key, the machine will continuously fold the paper, and the counter is in addition counting. When the Start/Stop key is pressed while the machine is in operation, the machine w ill stop the operation.

If only required number of sheets need to be folded, please refer to chapter 6 Subtraction Counter.

7-2. Standard Folding of Non-standard-size Paper



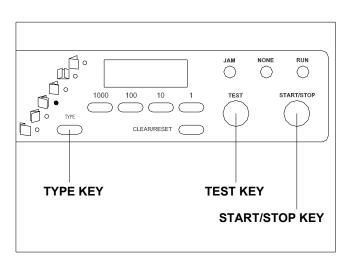
7-2-1. Measure the paper length



7-2-2. Input the paper length

Press the Select key and select the Paper Length Input Mode. Press Clear/Reset key. Input paper length by using numerical key

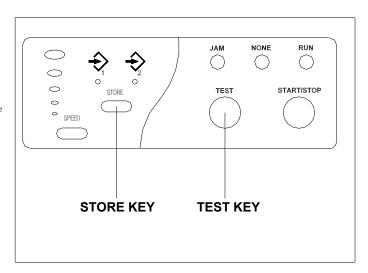
Note: Input length number should be bigger than B6, smaller than A3, otherwise can't work.



7-2-3. Store the paper length

After input the paper length, press store key, choose store at 1 or 2. (press store key and release memory lamp will shift light between 1 and 2; hold pressing store key until "bee" sound, means paper length stored) When paper length is stored, machine will adjust 6 fold types according to paper length.

Choose one fold type; Press Test key to check if the fold is correct. (In case of correcting slanting folding, refer to Adjustment on Chapter 9)



Note: The position of the table A and table B stopper in relation to the measurement value L.

Example: In the case of performing the Double Parallel fold using sheets of paper 300mm in length:

Table A=300 x (1/2)=150 mm Table B=300 x (1/4)=75 mm

Fold type	Table A	Table B
SINGLE	Original position "0"	1/2
GATE	1/4	1/2
LETTER	1/3	1/3
DOUBLE PARALLEL	1/2	1/4
ZIGZAG	2/3	1/3
FOLD-OUT	3/4	1/4

8. Cross Folding

Cross folding can be used if, for example, the sheet of A3-size paper folded using the double parallel folding method is still too large to be enclosed in envelope.

Note:

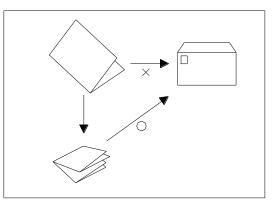
The maximum weight of paper that can be used for cross folding is 105g/m2.

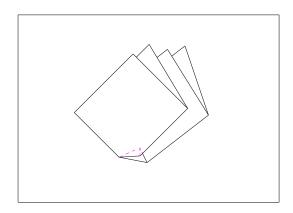
This requirement, however, varies according to the following conditions:

Paper type; Paper size; Whether grains run lengthways or sideways; Temperature and relative humidity; Printing condition

The folding position may be displaced to a greater extent than when the paper is folded using a regular fold method, or a corner of the folded paper may be folded inside as indicated in the figure.

These, however, do not mean that the machine has broken down.

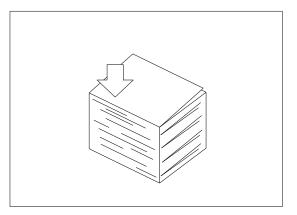




Note:

(1) Adjust the paper feed roller position, so the three rollers feed paper together.

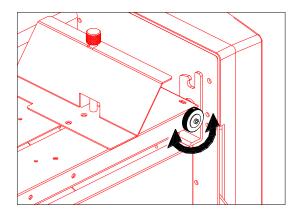
(2) Press the crease hard using the hand.Do not stack too many sheets of paper on the paper feed table.



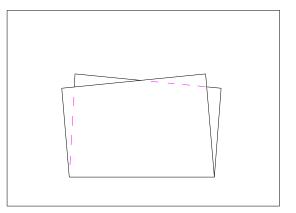
9. Adjustment

9-1. Slant Adjustment

If the folding position is slanted because the edges of the paper are slanted or for other reasons, it can be adjusted using the slant adjustment knob.



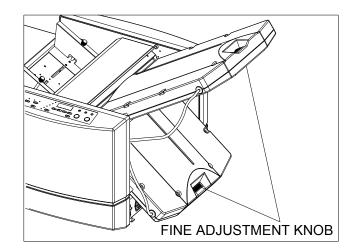
After testing paper fold, check the folded paper. If the paper is like shown in the right photo (lower paper is to the right), adjust the knob clockwise.



9-2. Table Stopper Adjustment

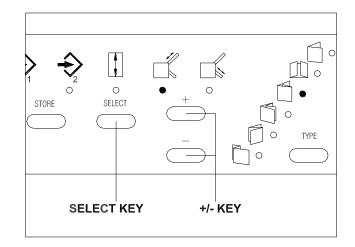
After moving the stopper by stopper fine adjustment knob, make sure press Test key before press Start/Stop key. Otherwise, adjustment will not be accepted.

Note: If press Start/Stop key, after adjusting the stopper, stopper will return to origin to fold.



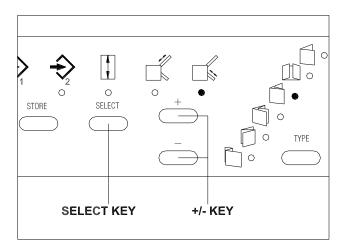
When the stopper is moved largely, it will be convenient to use the +/ -key.

(A). Press the Select key and select the Table A Stopper Move Mode. Press the +/- key and move the stopper to the desired position.



(B). Press the Select key and select the Table B Stopper Move Mode. Press the +/- key and move the stopper to the desired position.

Note: To store the stopper position, after adjusting stopper by using stopper fine adjustment knob or +/- key, please refer to chapter 10 Storage



9-3. Fine Adjustment for Table A

	Fold type	Plane A	Direction to turn the Table A fine adjustment knob
Single Folding	Plane A at "O" posit	ÌOR	
Gate	A	Long	
Folding		Short	
Letter	A	Long	
Folding		Short	
Double	A	Long	
parallel Folding		Short	
Zigzag	Zigzag Folding	Long	
Folding		Short	
Fold-out	A	Long	
Folding		Short	

9-4. Fine Adjustment for Table B

Fold	l type	Plane B	Direction to turn the Table B fine adjustment knob
Single	B	Long	
folding		Short	
Gate folding		Long	
	B	Short	
Letter		Long	
folding	B	Short	
Double	B	Long	
parallel folding		Short	
Zigzag		Long	
folding		Short	
Fold-out	B	Long	
folding		Short	

10.Storage

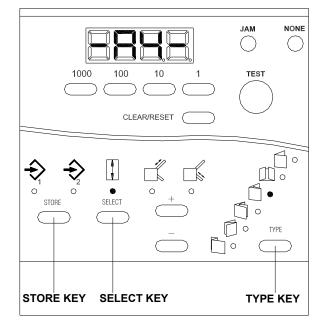
10-1. Standard-size paper fold storage

After adjusting the standard paper (A3,B4,A4,B5,A5,B6), it would be stored into fold type key. One fold type key can store 6 kinds of standard-size paper. (Maximum storage: 6 x 6=36) What can be stored is the folding speed, the positions of the Table A and B.

Prepare for the fold type to be stored:

Choose standard-size paper, choose fold type, (in this case, A4, Letter folding are selected) Adjust the Table A and B position, (refer to Chapter 9 Adjustment), adjust fold speed.

After all adjustment are set, hold press the Select key, until "bee" sound. The lamp of the fo**youtchese** will flash. Select the same paper, same fold type next time, this lamp will flash.



10-2. Non-Standard-size paper fold storage

Measure non-standard-size paper length, press Select key to Paper length input mode, press Clear/Reset key. Input paper length using numerical keys,

(Note: number should be bigger than B6, smaller than A3, otherwise can't woNon-standard-size paper length storage (Refer to Chapter 7, 7-2))

After inputting paper length, press Store key, select 1or 2 to be stored. (Press Store key, and release, store lamp will light shiftly between 1 and 2; Hold press Store key until the "bee" sound, means paper length stored) When paper length is stored, machine will adjust 6 fold types according to the length. Select one fold type, press Test key to check if fold is correct. (If fold incorrect or slating, refer to chapter 9 Adjustment)

(Note: For non-standard-size paper, to store adjustment of table A's stopper position, hold press Store key until sound. Same for Table B, hold press Store key until "bee" sound to store.

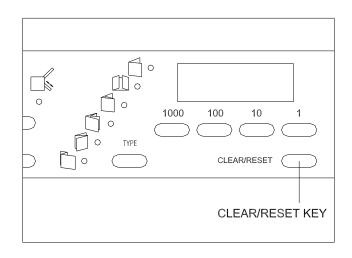
Example: Paper length has been store; Store lamp 1 is on; Adjust fold speed; Select one fold type; Press Select Key to choose Table A stopper move mode lamp, use +/-key to adjust and press Store key to store. Same for Table B stopper move mode lamp, use +/-key to adjust and press Store key to store. Next time, choose same paper same fold type.

11. Cancellation of storage

11-1. Cancel single storage

Recover the folding storage set by the manufacturer by Clear/Reset key.

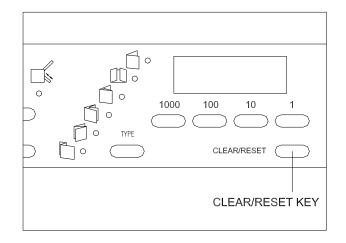
Select the key in which the storage needs to be cancelled, keep pressing Clear/Reset key until "bee" sound, and rei immediately.



11-2. Cancel all storage

Recover folding storage set by the manufacturer by cancel all storage.

Keep pressing Clear/Reset key, do not release the key at first beep; Release the key until the second beep. All stored information is canceled, machine return to manufacturer's original set.



12.Check Lamp

It lights indicating machine's situation

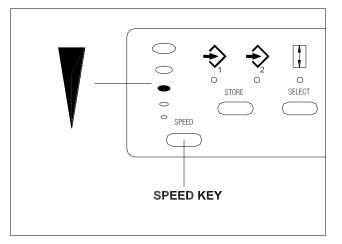
	Situation	Solution
	Paper jam at table A or B	Remove jammed paper
JAM	Paper jam on ejection roller or too	Remove jammed paper or change ejection
	much paper on stacker	roller position (Refer to 7-2-1 position of roller)
	No paper on feed table	Put table on feed table
	Paper table not raised	Pull down paper feed table lever
NONE	Roller cover is open	Close the cover
	Table A and B do not return or	Make sure the plug is correct insert to
	connect	machine. Refer to 5-2 Installation of TableA/B
RUN	Machine is running	

13.Speed Control

If fold is incorrect, change the speed accordingly.

※If crease or fold unevenly, lower the speed.※If big noise occurs, lower the speed.

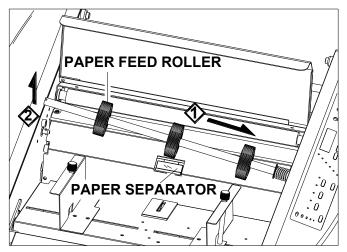
% If thick paper feed improperly, increase, increase the speed.



Note: If the fold speed changes at correct fold position, it maybe needs to adjust stopper position.

Refer to 9-2 Table stopper adjustment.

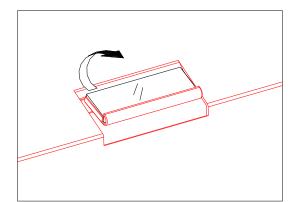
14.Change paper feed roller and rubber pad



Open Roller cover, push the roller to right side, pull the other side of the roller to remove.

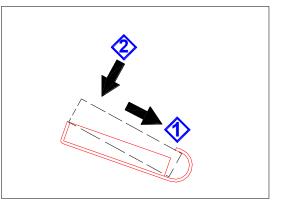
% Change roller Rubber pad

Remove rubber pad



Raise the back side to remove pad

Install rubber pad



Install the pad as to the photo above

Make sure paper feed roller and roller pad are properly installed and placed.