Duplo Express Sealer EX-2000

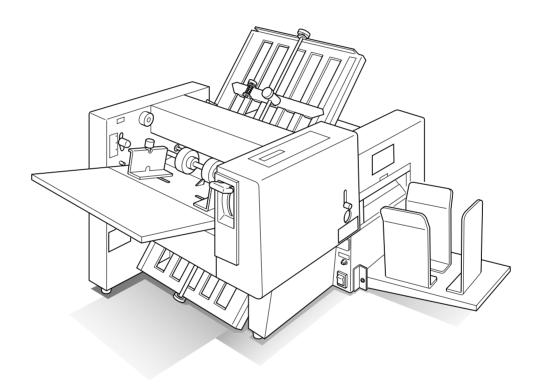
Instruction Manual



EXPRESS SEALER EX-2000

Instruction Manual

Ver.1





For this machine to be used safely, it MUST be operated correctly and serviced regularly. Therefore, read this Instruction manual thoroughly before using the machine.

ADM

Keep this manual in a safe place where it can be consulted at any time.

Introduction

Thank you for purchasing the EX-2000 EXPRESS SEALER.

This machine is an automatic pressure sealer. Do not use for other purposes.

Be sure to read this manual before using the machine.

In order to use the machine safely and efficiently, read this manual thoroughly, and make sure that you understand all of the instructions that it gives, so that you operate the machine correctly.

Take good care of this manual. Keep it in a safe place where it can be consulted at any time.

Conventions Used in this Manual

IMPORTANT:

Introduces instructions for correct operation of the machine. If these instructions are ignored, the machine my not be able to operate at optimum performance, or may break down.

NOTE:

Introduces information that is useful for operation and maintenance of the machine, or information about the machine's performance, etc.

PLEASE NOTE

In the interest of upgrading our products, specifications and other data given in this manual are subject to change without notice. If the manual contains anything that you do not understand, contact the manufacturer for clarification.

Duplo Express Sealer EX-2000

Instruction Manual



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ACAUTION



- Install the machine on a level and stable surface in a spacious place.
 - **→** If the machine drops or falls over, it may result in injury.



- Do not place the machine on an unstable or sloping surface.
 - → If the machine drops or falls over, it may result in injury.



- Do not place the machine in a humid place or area exposed to water.
 - **⇒** Insulation may deteriorate causing a fire or electric shock.



- Be sure to unplug the power supply cord before moving the machine.
 - → Failing to do so may damage the power supply cord causing a fire or electric shock.

► Caution for Grounding (Be sure to use the supplied power cord)

MARNING



- Use only the power cord that is provided among the accessories.
 Insert the power cord plug firmly into the socket, so that proper electrical contact is effected.
 - ➡ Use of any other power cord could result in imperfect grounding.

 If grounding is imperfect and electrical leakage occurs, fire or electric shock could result.



Power supply and power supply cord

∴ WARNING



- Use a wall outlet (AC 115 V, rating: 3A) only for the machine.
 - → If used for other equipment at the same time, the outlet may generate extreme heat causing a fire.



- Use only the specified voltage.
 Never plug multiple cords into a single outlet.
 - → It may cause a fire or electric shock.



- Do not insert or remove the plug with wet hands.
 - ⇒ It may cause electric shock.



- Use a dry cloth to wipe off dust on the plug's blades or connecting surface.
 - **→** Dust may cause a fire.



- Avoid damage to the power supply cord or power supply plug.
 Do not cut, modify, bend, twist, pull, bundle or place a heavy object.
 - ⇒ It may cause a fire or electric shock.

** ∴** CAUTION



- Remove the power plug itself, not the cord.
 - → Tugging the cord may damage it (expose conductors, or cause disconnections, etc.), resulting in fire or electric shock.



Precautions for use

⚠ WARNING



- If the machine is used after foreign matter (metal fragments, water, or liquid) has entered the machine, this may result in fire or electric shock.
 - **→** Turn the main unit's power switch OFF, and then remove the power plug from the outlet.

Contact the sales distributor.



- If the machine is used after heat, smoke, strange smell, or other abnormality is detected, this may result in fire or electric shock.
 - → Turn the main unit's power switch OFF, and then remove the power plug from the outlet.

Contact the sales distributor.



- Do not insert or drop metal, flammable material, or other matter through the ventilation holes into the machine interior.
 - **⇒** Doing so may result in fire or electric shock.



- Keep the machine away from a pin, wire or other metallic or foreign objects.
 Do not allow liquid to enter the machine through its openings or gaps.
 - → Malfunctions and a fire or electric shock may result.



- Do not place flower vases, flowerpots, cups, or water containers (including metal containers) on top of the machine.
 - Fire or electric shock may result if liquid spills inside the machine.



Preventing injury to hands or fingers

⚠WARNING



- Do not touch the pressure roller during operation.
 - → Your hands or fingers may get caught in the machinery and injured.



- Use tweezers or a similar tool to remove jammed paper.
 Be sure to unplug the power supply cord in order to prevent an electric shock.
 - **→** Unplug the power supply cord before removing jammed paper.



Prohibition of Disassembly or Modification

⚠WARNING



- Do not modify the machine.
 - **⇒** Doing so may result in fire or electric shock.



- Do not remove the rear lid, cabinet, or covers from the machine.
 - → The inside of the machine contains high-voltage parts, which may cause electric shock.

Cleaning

⚠WARNING



- Before cleaning the machine, turn off the power switch and unplug the power supply cord.
 - ⇒ If the machine is activated accidentally, injury may result.



- Do not use flammable sprays or solvents inside or near the machine.
 - → Gas may accumulate inside the machine causing a fire or explosion.

Long periods of disuse

ACAUTION



- Leave the power supply cord unplugged when the machine is not used for a long period (i.e. during vacation).
 - → Insulation may deteriorate and cause an electrical fire.



Notes for power supply

▶ Power supply range for stable use

• AC 115 V ± 10% 60Hz

▶ Power supply connection

• Plug the power supply cord into the wall outlet directly.

Usage/storage conditions

▶ Use or store the machine where:

- A temperature range is 10°C 30°C (5°C 35°C for storage)
- A humidity range is 40% 70% (20% 80% for storage, no condensation)
- Direct sunlight is completely blocked
- There is no excessive dust
- Vibration level is low
- Exposure to saline objects is moderate
- No chemical specialties exist

Liability

Liability for damaged paper

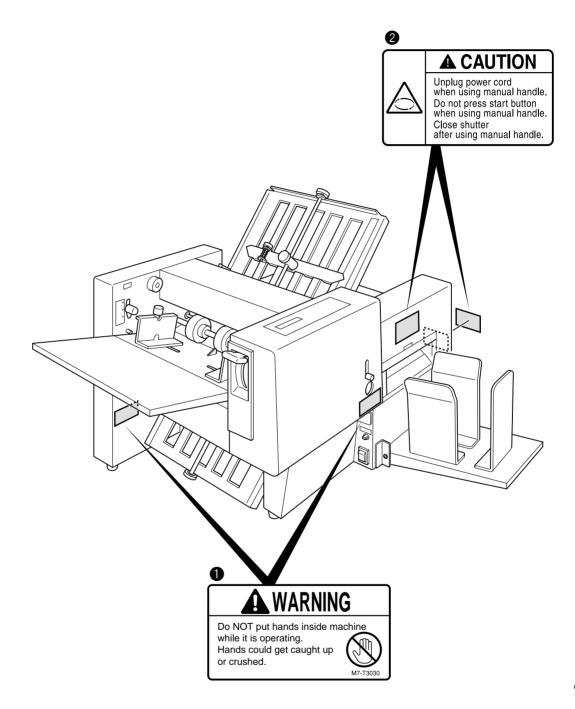
 We shall not be liable for any damage to or dirt on envelopes or enclosures resulting from the use of the machine as well as any secondary damage.
 Be sure to handle your important documents with great care.





► Locations of warning stickers

• Keep the WARNING and CAUTION stickers clean at all times. If stickers become damaged or come off, replace them with new ones.



Ω40026

No.	Parts No.	Name	Q'ty
0	M7-T3030	Warning Sticker	2
2	Q4-T1070	Caution Sticker	2



1. Before Use

Supported paper

IMPORTANT: If using paper which is not supported

•Optimal performance cannot be expected and the paper may be damaged.

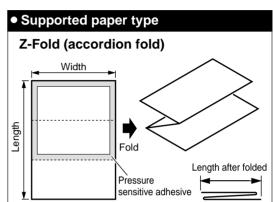
Supported paper type

Material and weight

Envelope paper (20 lb - 32 lb) with pressure sensitive adhesive along the edges of the front.

IMPORTANT: Avoid using the following:

- Paper with folds or wrinkles
- •Warped or curled paper (usable if flattened)
- Paper curved downward (folds may be made when used)
- Stapled paper (may damage the machine)
- Paper with pressure sensitive adhesive applied overall



Paper sizes & fold types

(Inch)

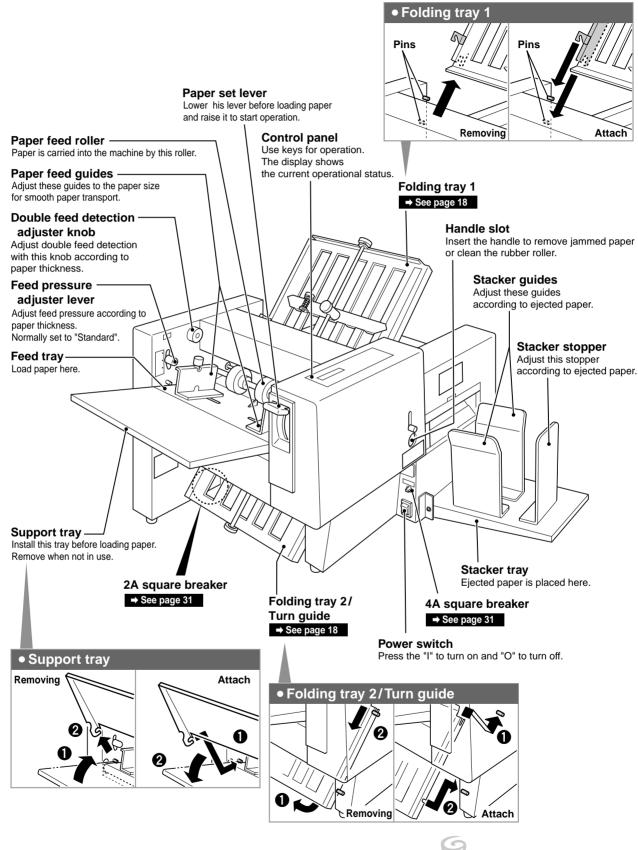
Fold type		Length × Width	1st Panel	2nd Panel	Finished size : A
• V-Fold (half fold)	A	8.5 × 11	5.5	-	8.5 × 5.5
• Z-Fold (accordion fold)		8.5 × 11	3.66	3.66	8.5 × 3.66
	A ►	8.5 × 14	4.66	4.66	8.5 × 4.66
C-Fold (standard letter fold)		8.5 × 11	7.33	3.66	8.5 × 3.66
	A ►	8.5 × 14	9.33	4.66	8.5 × 4.66
• EZ-fold	A	8.5 × 14	3.5	5.25	8.5 × 5.25
• EC-fold	A	8.5 × 14	10.5	5.25	8.5 × 5.25

* Above values are for reference only. Adjust the fold position, etc. according to the paper size.

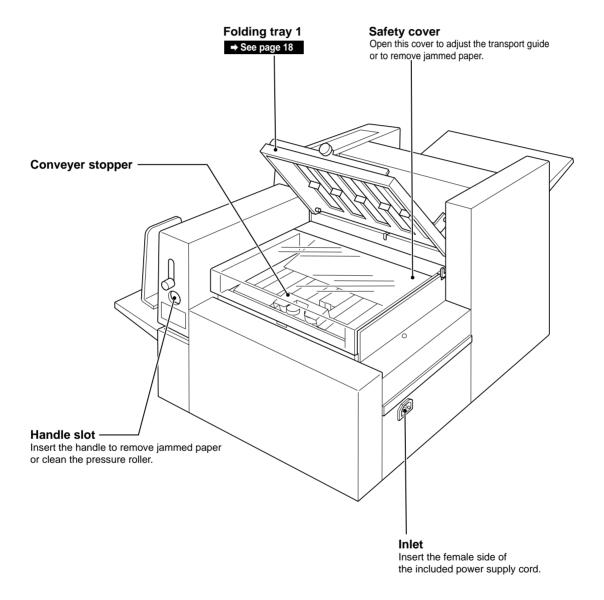


Part Names and Their Functions

► Overall appearance (front side)



▶ Overall appearance (rear side)

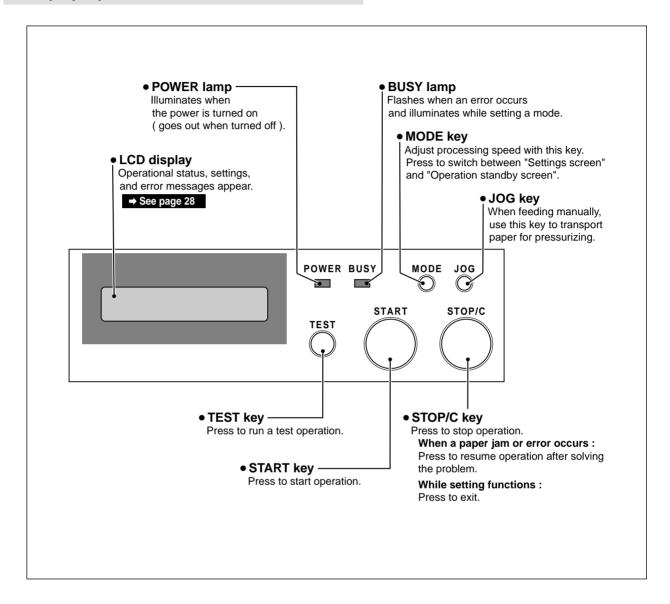


Q4005e



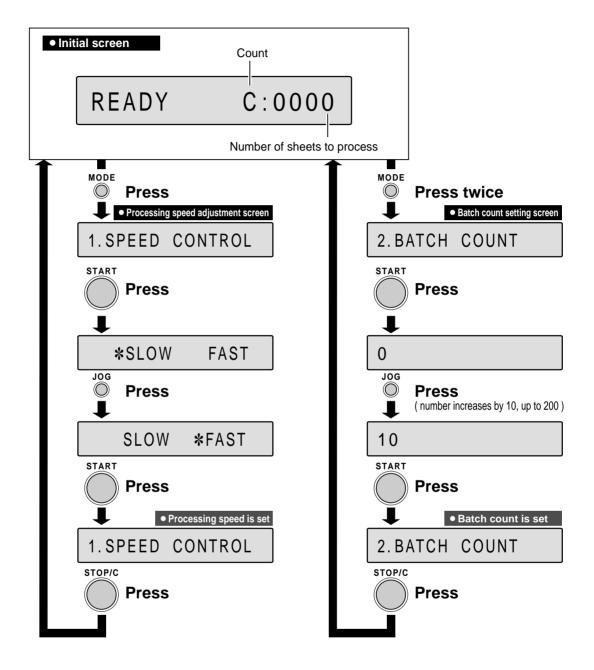
▶ Control Panel

Display/Operation section





▶ Display types

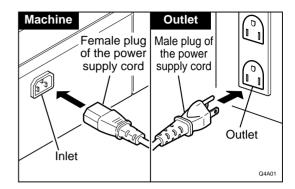




Turning Power ON/OFF

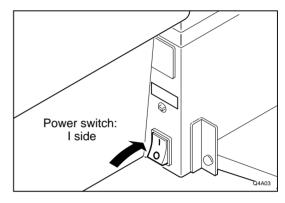
▶ Turning Power ON

- Insert the **female side** of the power supply cord into the **inlet**.
- Insert the male side of the power supply cord into the outlet (three-slot).



3 Press the. "I" of the **power switch** to turn the power **ON**.

The **POWER lamp** on the touch panel illuminates.



Setting is possible when the **initial screen** appears on the LCD.

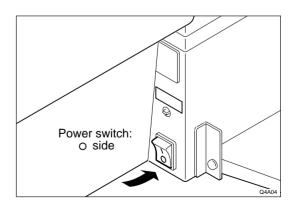
Initial screen

READY C:0000

► Turning Power OFF

Press the "o" of the **power switch** to turn the power **OFF**.

The **POWER lamp** on the touch panel goes out.





2 Basic Operation

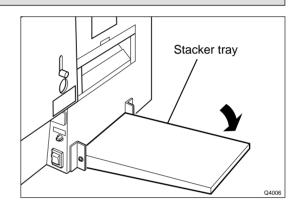
Basic Operation

• This section describes basic procedures including preparation, power **ON**, paper loading, test operation, start of operation, and removal of processed paper.

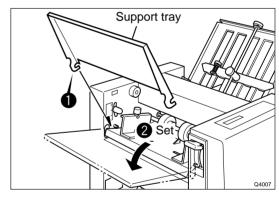
Processing speed, batch and fold skew can be adjusted according to material and size of paper. Refer to 4. Advanced Operation.

♦ Procedures

Open the stacker tray.

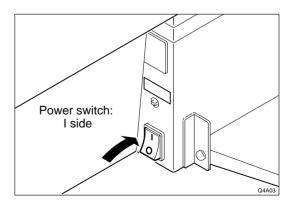


2 Install the support tray.



Press the "I" of the power switch to turn the power ON.

NOTE: → See page 14

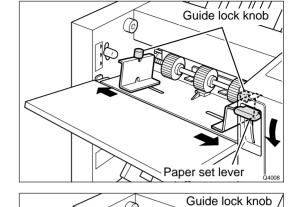


Initial screen

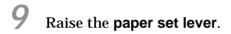
Setting is possible when the **initial screen** appears on the LCD.

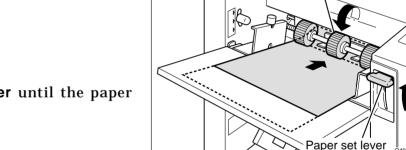


- 4 Loosen the guide lock knob to widen the paper feed guides.
- 5 Lower the paper set lever.

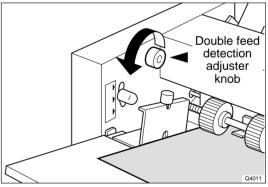


- Insert a sheet of paper until it meets resistance and place on the **feed tray** in the direction as shown in the figure.
- Slide both **paper feed guides** to the edges of the paper.
- Tighten the guide lock knob to fix the paper feed guides.



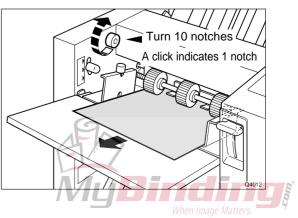


- Turn the paper feed roller until the paper stops moving.
- Turn the double feed detection adjuster knob slowly counterclockwise until a buzzer sounds.



Paper feed roller

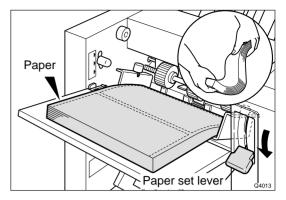
- Turn the double feed detection adjuster knob clockwise further by 10 notches when the buzzer stops.
- 13 Pull out the paper to remove.

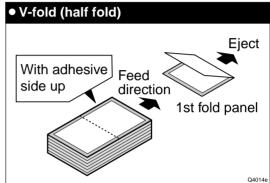


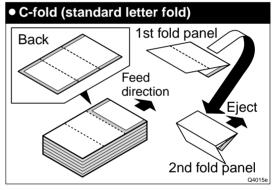
14 Fan the paper and straighten the edges.

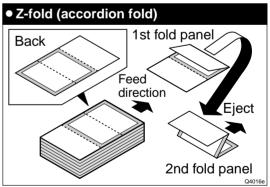
IMPORTANT:

- Fan the paper well to prevent misfeeds and paper jams.
- 15 Lower the paper set lever.
- Insert the paper until it meets resistance and place on the **feed tray** in the direction as shown in the figure.









Feed pressure adjuster lever

NORMAL PAPER

LIGHT PAPER

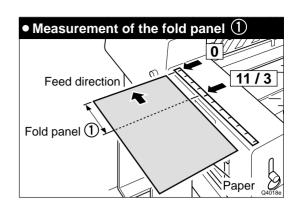
Paper set lever

October 100 Paper set lever

- 17 Raise the paper set lever.
- Adjust the feed pressure adjuster lever according to paper thickness.

Measure the **fold panel** ①.

Example: Fold panel ① is 11 /3 inch.



- 20 Loosen the **knob** and adjust the position of the **folding tray 1 stopper** to the **fold panel** ①. Example: Fold panel ① is 11 /3 inch.
- 21 Tighten the knob to fix the folding tray 1 stopper.
- Folding tray 1 stopper Knob

 11/3 inch

• Folding tray 1

Following the instructions below, install the folding tray 2 or turn guide.

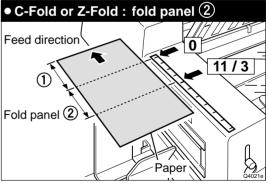
V-Fold

- Remove the folding tray 2.
- 2 Install the turn guide.

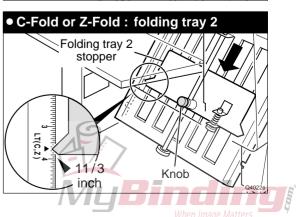
● V-fold : turn guide Turn guide Pins Pins 04020

• C-Fold or Z-Fold

1 Measure the **fold panel** ②. Example: Fold panel ② is 11 /3 inch.



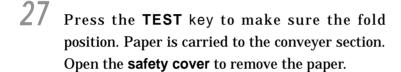
- 2 Loosen the knob and adjust the folding tray 2 stopper position to the fold panel 2. Example: Fold panel 2 is 11 /3 inch
- 3 Tighten the knob to fix the folding tray 2 stopper.



- 23 Open the safety cover.
- Loosen the knob and adjust the position of the conveyer stopper to the finished size.

Example : Paper size = LT, Fold type = Z-fold

- Tighten the knob to fix the conveyer stopper.
- 26 Close the safety cover.



Check the following:

- Was the paper fed and carried smoothly?
- Is a fold skewed? ⇒ See "Adjusting fold skew" on page 22.

- After making sure the fold position, hold down the TEST key for 2 seconds or more.

 The machine performs a set of operation for a sheet of paper.
- Processed paper is ejected into the **stacker**. Adjust the **stacker guides** and **stacker stopper** to the size **approx**.

1 cm larger than the finished size.

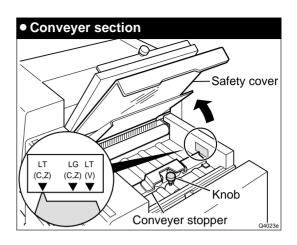
30 Remove and check the processed paper.

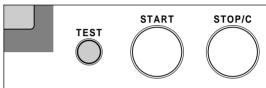
Check the following:

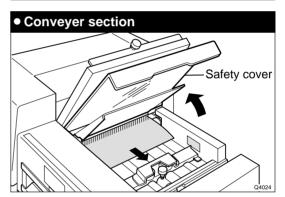
- Is the processing speed appropriate? → See page 21.
- To batch processed paper: → See page 24.

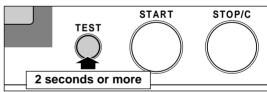
• To reset the counter to "0"

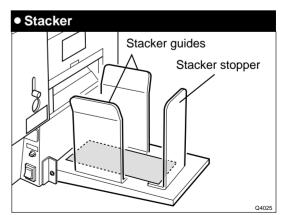
Hold down the STOP/C key for 2 seconds or more.

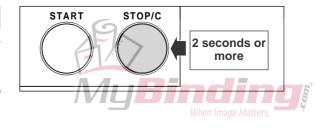




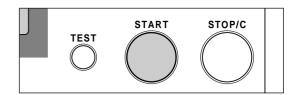








31 Press the START key. Operation starts.
The counter counts the number of processed sheets.



START

TEST

STOP/C

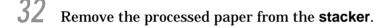
▶ During operation

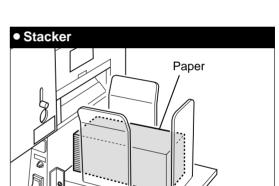
• To interrupt the operation

Press the **STOP/C** key. The machine stops after the current operation is completed.



Check the error message and refer to Message display on page 28 to solve the problem.







3. Advanced Operation (Adjustment & Settings)

Adjusting processing speed

• This machine supports a variety of paper. Feeding and folding vary by material and size of paper and processing speed may need to be adjusted.

▶ Procedures

To cancel, press the STOP/C key

- Make sure the display is **initial screen**. If not, press the **STOP/C** key.
- Initial screen (operation standby screen)

READY C:0000

- Press the MODE key once.
 The display changes to mode selection screen.
 - 1. SPEED CONTROL

Press **START** key.

Press **MODE** key once.

- Press the START key.

 The display changes to processing speed setting screen.
- *SLOW FAST
- Use the JOG key to select FAST (high speed operation) or SLOW (low speed operation).
 "*" indicates the current speed.
 With the press of the JOG key, "*" moves and FAST and SLOW switch.
- Press JOG key. "FAST" is selected.

 SLOW *FAST
- 4 Press the START key.

 The processing speed is set and the mode selection screen returns.
- 1.SPEED CONTROL

Press the STOP/C key.
The initial screen returns.

Press STOP/C key.

Press **START** key.

READY C:0000



Adjusting fold skew

▶ Fold skew

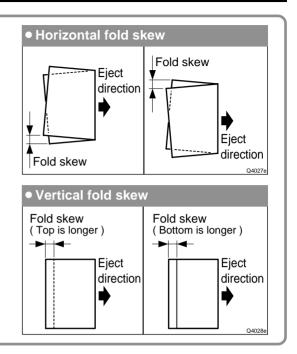
 Folding results vary even on the paper of the same size and fold skew may occur depending on paper type, thickness, print status, processing speed, etc.
 There are 2 types: horizontal fold skew and vertical fold skew.

Horizontal fold skew: Adjust with the skew adjustment knob

Vertical fold skew: Adjust with the fine adjustment knob.

IMPORTANT:

- Make sure the paper feed guides are installed properly (→ see page 16).
- Adjust to fit the paper feed guides to the paper size. Leaving a gap increases the frequency of vertical fold skew.



▶ Adjusting horizontal fold skew

Check the fold skew.

Fold skew A

- **1** Turn the skew adjustment knob on the folding tray 1 clockwise.
- 2 Hold down the TEST key for 2 seconds or more for a test operation and check if there is fold skew.

• For Z-fold and C-fold only

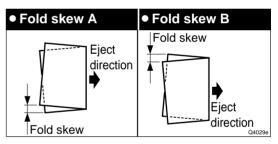
1 Turn the skew adjustment knob on the folding tray 2 in the same way as described for the folding tray 1. (Adjust the folding tray 2 after the folding tray 1.)

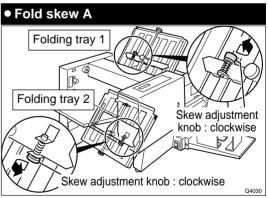
Fold skew B

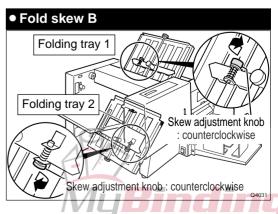
- 1 Turn the skew adjustment knob on the folding tray 1 counterclockwise.
- 2 Hold down the TEST key for 2 seconds or more for a test operation and check if there is fold skew.

For Z-fold and C-fold only

1 Turn the skew adjustment knob on the folding tray 2 in the same way as described for the folding tray 1. (Adjust the folding tray 2 after the folding tray 1.)







▶ Adjusting vertical fold skew

Check the fold skew.

Fold skew A

- Turn the fine adjustment knob on the folding tray 1 clockwise.
- 2 Hold down the TEST key for 2 seconds or more for a test operation and check if there is fold skew.

● For Z-fold and C-fold only

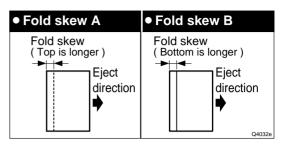
1 Turn the fine adjustment knob on the folding tray 2 in the same way as described for the folding tray 1. (Adjust the folding tray 2 after the folding tray 1.)

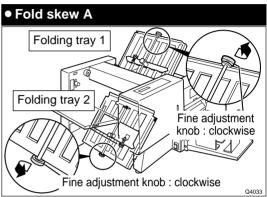
Fold skew B

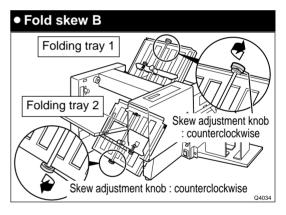
- 1 Turn the fine adjustment knob on the folding tray 1 counterclockwise.
- **2** Hold down the **TEST** key for **2 seconds or more** for a test operation and check if there is fold skew.

For Z-fold and C-fold only

1 Turn the fine adjustment knob on the folding tray 2 in the same way as described for the folding tray 1. (Adjust the folding tray 2 after the folding tray 1.)







► Adjustment table (vertical fold skew)

Adjusting the folding tray 1

Fold type		Fold panel "A"	Fine adjustment knob	
V-Fold	A	"A" is longer	Turn "clockwise"	
	Eject direction	"A" is shorter	Turn "counterclockwise"	
C-Fold	A	"A" is longer	Turn "clockwise"	
	Eject direction	"A" is shorter	Turn "counterclockwise"	
Z-Fold	A	"A" is longer	Turn "clockwise"	
	Eject direction	"A" is shorter	Turn "counterclockwise"	

Adjusting the folding tray 2

Fold type		Fold panel "B"	Fine adjustment knob	
V-Fold		Not used (tu	rn guide is used)	
C-Fold	B	"B" is longer	Turn "clockwise"	
	Eject direction	"B" is shorter	Turn "counterclockwise"	
Z-Fold	$\overline{}$	"B" is longer	Turn "clockwise"	
	Eject direction	"B" is shorter	Turn "counterclockwise"	



Batch setting

Batch setting

• You can specify the number of sheets to process.

For example, when 50 is set for batch count, 50 sheets are processed and the machine stops for 5 seconds. Remove the paper from the stacker meanwhile.

After 5 seconds, the operation resumes from the 51st sheet automatically.

Select from 0 to 200 (number increases by 10).

The interval is fixed to 5 seconds.

Setting batch count

To cancel, press the STOP/C key

Make sure the display is initial screen. If not, press the STOP/C key.

Initial screen (operation standby screen)

READY

C:0000

- Press the MODE key twice.
 The display changes to mode selection screen.
- Press the START key.

 The display changes to batch count setting screen.
- Use the JOG key to specify number of sheets (0-200).

The number increases by **10** as you press the **JOG** key.

4 Press the START key.

The Number of sheets is set and the mode selection screen returns.

Fress the STOP/C key.
The initial screen returns.

Press **MODE** key twice.

2. BATCH COUNT

Press **START** key.

0

Press **JOG** key.

Number increases by 10.

10

Press **START** key.

2. BATCH COUNT

Press STOP/C key.

READY

C:0000

Manual feed (pressurizing only)

► Manual feed

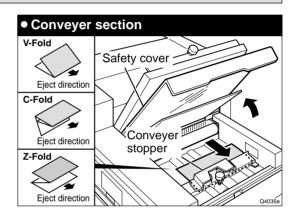
When performing pressurizing only, follow the procedures below:
 (Feed paper sheet by sheet watching the feed direction.)

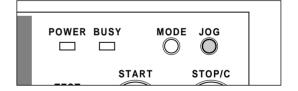
▶ Using manual feed

- 1 Open the safety cover.
- Insert a sheet of paper until it meets resistance and place on the **conveyer stopper** in the direction as shown in the figure.

IMPORTANT:

- •Make sure to align the paper with the stopper.
- **3** Close the **safety cover**.
- Press the JOG key.
 The paper is ejected (end of the operation).







Troubleshooting

♦If trouble occurs

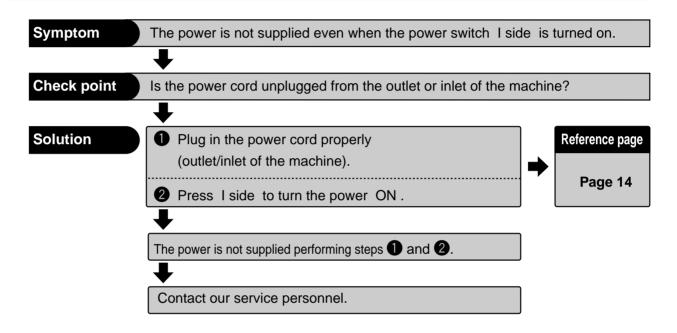
• Machine malfunctions resulting from many possible causes.

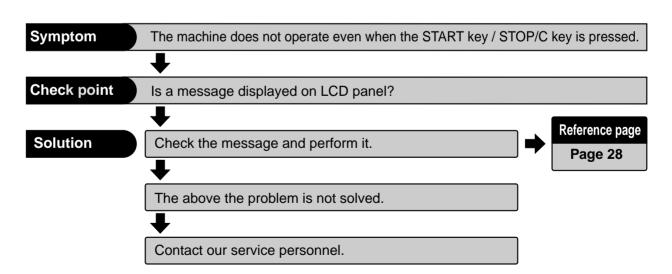
The following table describes **check point**, **solution** and **symptom**.

For details, see the reference page.

If the problem still persists, contact our service personnel.

Check Point







Symptom	Check point	Solution	Page
 An error message "DOUBLE FEED" appears when there is no double feed. 	 Double feed detection is not properly adjusted. 	 Adjust double feed detection with double feed detection adjuster knob. 	16
 Machine does not stop when double feed is detected. 	 Double feed detector is not operating. 	 Adjust double feed detection with double feed detection adjuster knob. 	16
	 Feed pressure is too high. 	 Reduce feed pressure with feed pressure adjuster lever. 	32
Double feed occurs frequently.	 Paper feed roller or paper separator is dirty. 	 Clean paper feed roller or paper separator. 	-
	 Paper feed roller or paper separator is worn out. 	 Replace paper feed roller or paper separator (contact service personnel). 	-
	 Feed pressure is too low. 	 Increase feed pressure with feed pressure adjuster lever. 	33
 Empty feed occurs frequently. 	 Paper feed roller or paper separator is dirty. 	 Clean paper feed roller or paper separator. 	-
	 Paper feed roller or paper separator is worn out. 	 Replace paper feed roller or paper separator (contact service personnel). 	-
• Paper feed is not smooth.	 Paper is curled or tip is folded. 	• Flatten the paper.	-
Paper cannot be folded.	The paper is not supported.	 See "Paper sizes & fold types" and use supported paper. 	9
	 Folding tray stopper is not properly adjusted. 	 Adjust the position of folding tray stopper. 	18
There is fold skew.	The paper is not supported.	 See "Paper sizes & fold types" and use supported paper. 	9
 Paper stops in conveyer section. 	 Conveyer stopper is not properly adjusted. 	 Adjust the position of conveyer stopper. 	19

♦ Message display

• The LCD shows the status of the machine with messages.

Error messages appear when operation is not possible with the **TEST** key and **START** key. Solve problems and then press the **STOP/C** key.

The **initial screen** (operation standby screen) appears (operation is possible).

Messages

COVER OPEN

COVER OPEN

Status A: The safety cover is open.

Solution: Close the safety cover.

→ Refer to page 35

COVER OPEN

Status B: The cover of the handle is open.

Solution: Pull out the handle and close the cover.

→ Refer to page 35, 36

NO PAPER

NO PAPER

Status: There is no paper on the feed tray.

Solution: 1 Load paper.

2 Press the STOP/C key.

Refer to page 17

▶ Error messages

MISS FEED

MISS FEED

Status: Improper paper feed.

Solution: • Remove jammed paper.

Press the STOP/C key.

→ Refer to page 32, 33

REMOVE PAPER

REMOVE PAPER

Status: The START, TEST or JOG key was pressed with

paper left inside.

Solution:

Remove jammed paper.

Press the STOP/C key.

→ Refer to page 32 - 36

DOUBLE FEED

DOUBLE FEED

Status: Double feed is detected (two sheets were fed at once).

Solution: • Remove jammed paper.

2 Press the STOP/C key.

→ Refer to page 32

FOLDER JAM 1

FOLDER JAM 1

Status: Paper is jammed in the folding tray 1.

Possible cause:

• Are the fold type and fold position correct?

• Is the folding tray installed properly?

Solution: • Remove jammed paper.

2 Make sure there is no paper left inside.

3 Press the STOP/C key.

→ Refer to page 9, 10, 34

FOLDER JAM 2

FOLDER JAM 2

Status: Paper is jammed in the folding tray 2.

Possible cause:

• Are the fold type and fold position correct?

• Is the folding tray installed properly?

Solution: • Remove jammed paper.

2 Make sure there is no paper left inside.

3 Press the STOP/C key.

→ Refer to page 9, 10, 34

NO FOLD PLATE

NO FOLD PLATE

Status: There is no folding tray installed.

Solution: • Make sure the folding tray 1 or folding tray 2 is installed.

2 Press the STOP/C key.

→ Refer to page 10

F. MOTOR LOCK



RESET BREAKER

Display will alternate "F MOTOR LOCK" and "RESET BREAKER".

F. MOTOR LOCK

Status: The drive motor in the folding section does not run.

Solution A: 1 Remove jammed paper.

2 Make sure there is no paper left inside.

3 Press the STOP/C key.

→ Refer to page 34

Solution B: • Press the breaker in the back of the folding tray 2.

→ Refer to page 34

If the problem cannot be solved by above solutions A and B:

Solution: • Press the "o" of the power switch to turn off the power.

2 Contact service personnel.

CONVEYER JAM

CONVEYER JAM

Status A: Paper is jammed in the conveyer section.

Solution: • Remove jammed paper.

2 Make sure there is no paper left inside.

3 Press the STOP/C key.

⇒ Refer to page 35

Status B: The conveyer stopper is not properly adjusted.

Solution: 1 Remove jammed paper.

2 Make sure there is no paper left inside.

3 Readjust the conveyer stopper.

4 Press the STOP/C key.

Refer to page 35, 19

SEALER JAM

SEALER JAM

Status: Paper is jammed in the sealer section.

Solution: • Remove jammed paper.

2 Make sure there is no paper left inside.

3 Press the STOP/C key.

→ Refer to page 36

S. MOTOR LOCK



RESET BREAKER

Display will alternate "S MOTOR LOCK" and "RESET BREAKER".

S. MOTOR LOCK

Status: The drive motor in the sealer section does not run.

Solution A: • Remove jammed paper.

2 Make sure there is no paper left inside.

3 Press the STOP/C key.

→ Refer to page 34

Solution B: • Press the breaker above the power switch.

→ Refer to page 34

If the problem cannot be solved by above solutions A and B:

Solution: • Press the "o" of the power switch to turn off the power.

2 Contact service personnel.



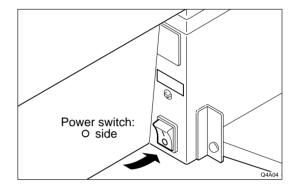
Breaker trips & power shutdown

If the machine stops due to a breaker trip

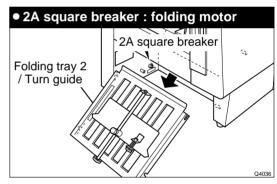
• When paper is jammed or the machine is overloaded during operation, the breaker trips and the machine stops for safety. Follow the solution below to restore operation.

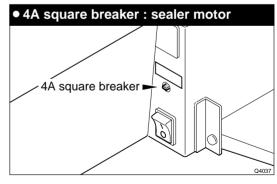
▶ Procedures

Press the "o" of the **power switch** to turn off the power.

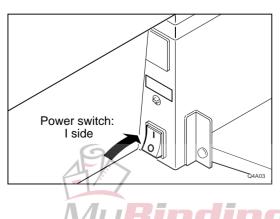


- 2 Make sure there is no paper left, and press a breaker switch.
 - 2A square breaker : folding motor
 - **1** Remove the **folding tray 2** or **turn guide**.
 - 2 Press the breaker switch.
 - **3** Install the **folding tray 2** or **turn guide**.
 - 4A square breaker : sealer motor





Press the "I" of the power switch to turn on the power (power is restored).
Resume operation.

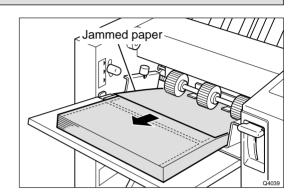


▶ Double feed in the feed section

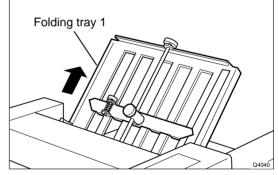
When double feed occurs in the feed section, "MISS FEED" appears.
 Remove jammed paper by following the procedures below.

► Removing jammed paper

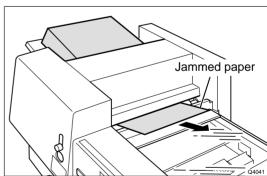
- 1 Remove paper in the feed section.
- Press the STOP/C key.



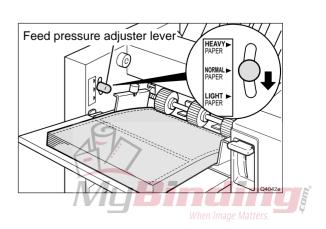
- If paper cannot be removed
 - **1** Remove the **folding tray 1**.



- **2** Remove paper in the fold section.
- **3** Install the folding tray 1.
- **4** Press the **STOP/C** key.



- If the problem still exists after removing paper
 - Reduce the feed pressure by one level with the feed pressure adjuster lever.

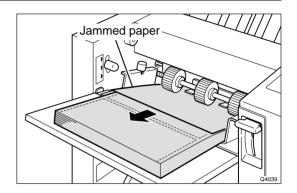


▶ Empty feed in the feed section

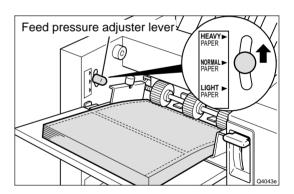
When empty feed occurs in the feed section, "MISS FEED" appears.
 Remove jammed paper by following the procedures below.

► Removing jammed paper

- **1** Remove paper in the feed section.
- Press the STOP/C key.



- If the problem still exists after removing paper
 - Increase the feed pressure by one level with the feed pressure adjuster lever.



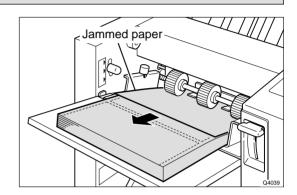


▶ Paper jam in the folding section

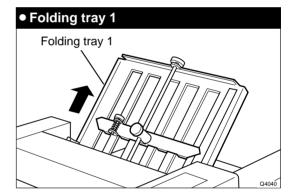
• When paper jam occurs in the folding section, "FOLDER JAM 1" or "FOLDER JAM 2" appears. Remove jammed paper by following the procedures below.

Removing jammed paper

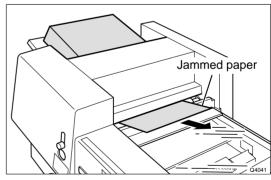
- 1 Remove paper in the feed section.
- Press the STOP/C key.



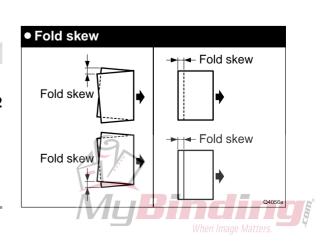
- If paper cannot be removed
 - **1** Remove the folding tray 1.



- **2** Remove paper in the fold section.
- **3** Install the **folding tray 1**.
- **4** Press the STOP/C key.



- If the problem still exists after removing paper
 - $\textbf{0} \ \text{Make sure fold skew is properly adjusted}.$
 - → Refer to page 22

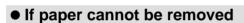


▶ Paper jam in the conveyer section

When paper jam occurs in the conveyer section, "CONVEYER JAM" appears.
 Remove jammed paper by following the procedures below.

► Removing jammed paper

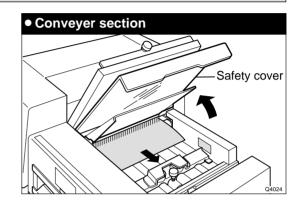
- 1 Open the safety cover.
- 2 Remove paper in the conveyer section.
- 3 Close the safety cover.
- 4 Press the STOP/C key.

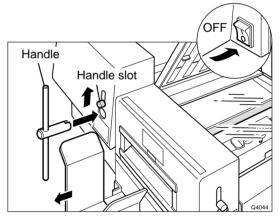


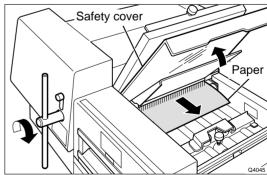
- Press the "o" of the power switch to turn off the power.
- **2** Open the handle slot.
- **3** Insert the supplied **handle** into the slot.
- **4** Turn the handle <u>clockwise</u>, open the safety cover and remove paper in the conveyer section.

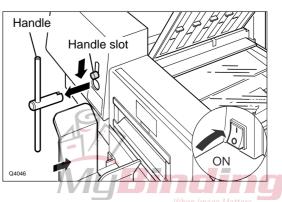
IMPORTANT:

- •Do not turn the handle counterclockwise.
- **5** Close the **safety cover**.
- **6** Remove the **handle** and close the **handle slot**.
- **7** Make sure there is no paper left inside.
- **8** Press the "I" of the **power switch** to turn on the power.
- **9** Press the **STOP/C** key.







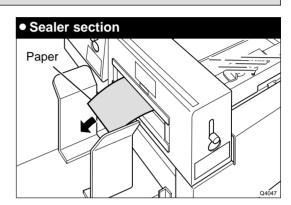


▶ Paper jam in the sealer section

• When paper jam occurs in the sealer section, "SEALER JAM" or "S MOTOR LOCK" appears. Remove jammed paper by following the procedures below.

► Removing jammed paper ("SEALER JAM")

- **1** Remove paper in the sealer section.
- 2 Make sure there is no paper left inside.
- **3** Press the **STOP/C** key.

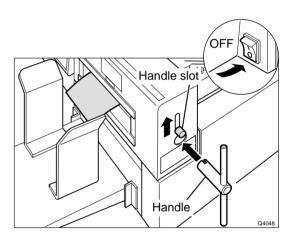


If paper cannot be removed

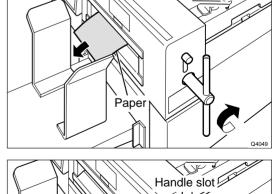
- Press the "o" of the power switch to turn off the power.
- **2** Open the handle slot.
- **3** Insert the supplied **handle** into the slot.
- **4** Turn the **handle** <u>clockwise</u>, and remove paper in the sealer section.

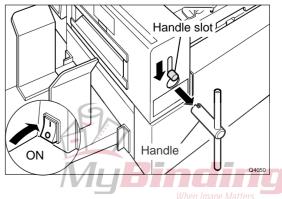
IMPORTANT:

•Do not turn the handle counterclockwise.



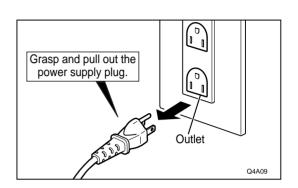
- **5** Remove the **handle** and close the **handle** slot.
- **6** Make sure there is no paper left inside.
- Press the "I" of the power switch to turn on the power.
- **3** Press the **STOP/C** key.





⚠ WARNING

- Before cleaning, be sure to turn the power off, wait until the machine cools off and unplug the power cord. Otherwise, fire or electric shock may occur.
- Never remove covers on the machine or modify them.
- Do not spill water or any liquid inside of the machine. It may cause fire or electric shock.
 If it happens, contact our service personnel.



- Clean the exterior in the following procedure.
- Use soft cloth with water or mild detergent.
- 2 Wipe the exterior.
- 3 Wipe off the liquid with dry, soft cloth.
- When the operation panel display is dirty, wipe it gently with a cloth dampened with water and mild detergent.

↑ WARNING

- Never use alcohol or solvent cleaner. It may tarnish or damage the exterior finish.
- Do not put diluted petroleum or insecticide. It may cause fire.



• Dust accumulation may cause the machine to malfunction, clean it once a week.



Cleaning parts

- Clean the rubber roller and pressure roller periodically to prevent malfunction.
- The paper feed roller, paper separator unit, rubber roller, etc. are consumable items. Wher worn out, contact service personnel.

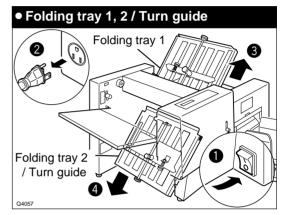
▶ Cleaning rubber roller

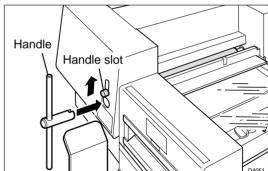
- Press the "o" of the **power switch** to turn off the power, wait until the machine cools off.
- 2 Unplug the **power supply cord** from the outlet.
- Remove the folding tray 1.
- 4 Remove the folding tray 2 or turn guide.
- 5 Open the handle slot.
- 6 Insert the supplied handle into the slot.
- Turning the handle <u>clockwise</u>, wipe off dirt on the rubber rollers. Use a soft cloth dampened with water and mild detergent.

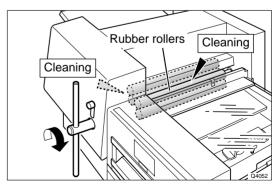
Also, remove the **folding tray 2** to wipe the **rubber roller** from this side.

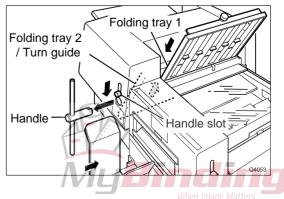
IMPORTANT:

- •Do not turn the handle counterclockwise.
- Remove the **handle** and close the **handle slot**.
- Install the folding tray 1.
- 10 Install the folding tray 2 or turn guide.



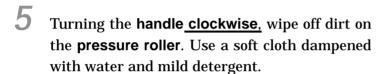






▶ Cleaning pressure roller

- Press the "o" of the power switch to turn off the power, wait until the machine cools off.
- Unplug the power supply cord from the outlet.
- Open the handle slot.
- Insert the supplied handle into the slot.



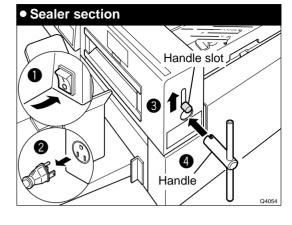


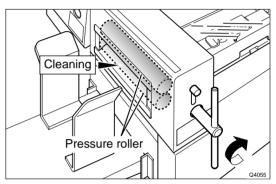
- Do not turn the handle counterclockwise.
- If dirt on pressure roller cannot be removed Use a cloth dampened with alcohol.

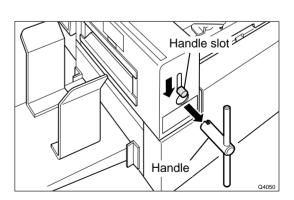
A CAUTION

•Use alcohol only for the metallic pressure roller. Never apply to the rubber roller.

Remove the handle and close the handle slot.









♦ Specifications

Product name	EX-2000 EXPRESS SEALER		
Туре	Desktop		
Paper size	Length: 279.4 mm (11") - 355.6 mm (14") Width: 210 mm - 215.9 mm (8.5")		
Finished size	Length: 93.1 mm - 148.5 mm Width: 210 mm - 215.9 mm (8.5")		
Paper type	Paper weight: 24 lb - 32 lb (pressure sensitive paper) Envelope paper with pressure sensitive adhesive along the edges of the from *Do not use envelope paper with pressure sensitive adhesive applied overall.		
Processing speed	8.5" x 11" Z-fold envelope: 7000 sheets/hour (FAST) 5000 sheets/hour (SLOW)		
Feed system	Friction feed system based on rubber roller and paper separation plate		
Feed capacity	200 Z-fold (accordion fold) envelopes (thickness: 28 lb)		
Fold types	V-fold, C-fold, Z-fold, EZ-fold		
Fold size	1st Panel: 60mm – 266.7mm 2nd Panel: 60mm – 118.5mm		
Stacker type	Gravity stacker		
Stacker capacity	200 Z-fold (accordion fold) envelopes (thickness: 28 lb)		
Functions & safety system	Test operation Paper detection JAM detection for all paper paths Cover interlock Emergency stop switch Overload detection		
	Speed selection Manual feed Batch count		
Dimensions	In use: 1450 mm x 1110 mm x 900 mm (W x H x D) Folded: 1450 mm x 1110 mm x 900 mm (W x H x D)		
Weight	54 kg (folder: 22.5 kg, sealer: 31.5 kg)		
Power source	AC115V (±10%) 60 Hz, 3A		
Operating temperature	10 − 30 ℃		
Operating humidity	40 – 70% No (condensation)		

Specifications are subject to change for improvement without notice.



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