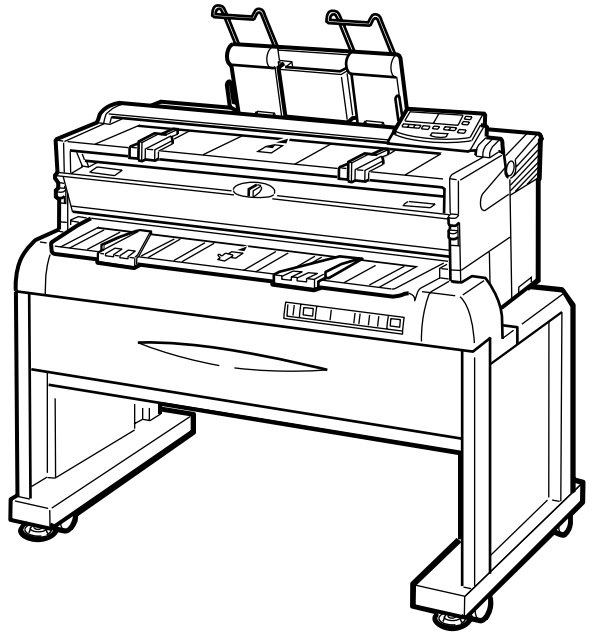




# Operating Instructions



ZFBH010E

Read this manual carefully before you use this product and keep it handy for future reference.

For safety, please follow the instructions in this manual.

Where symbols are used on or near switches, they mean as under in accordance with IEC 60417:

**I** means **POWER ON.**

**⏻** means **STAND BY.**

# Safety Information

When using your equipment, the following safety precautions should always be followed.


---

## Safety During Operation

---

In this manual, the following important symbols are used:

 **WARNING:**  
*Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.*

 **CAUTION:**  
*Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.*

---

**⚠ WARNING:**

---

- Connect the power cord directly into a wall outlet and never use an extension cord.
- Only connect the machine to the power source described on the inside front cover of this manual.
- Avoid multi-wiring.
- Do not damage, break or make any modifications to the power cord. Do not place heavy objects on it, pull it hard or bend it more than necessary. These actions could cause an electric shock or fire.
- Do not plug or unplug the power cord with your hands wet. Otherwise, an electric shock might occur.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- Make sure the wall outlet is near the machine and freely accessible so that in event of an emergency it can be unplugged easily.
- Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following conditions exists:
  - You spill something into the equipment.
  - You suspect that your equipment needs service or repair.
  - Your equipment's cover has been damaged.
- Do not take apart or attempt any modifications to this machine. There is a risk of fire, electric shock, explosion or loss of sight. If the machine has laser systems, there is a risk of serious eye damage.
- To avoid hazardous electric shock or laser radiation exposure, do not remove any covers or screws other than those specified in this manual.
- Some parts of the machine are at a high voltage and could give you an electric shock. Also, if the machine has laser systems, direct (or indirect) reflected eye contact with the laser beam may cause serious eye damage. When the machine needs to be checked, adjusted, or repaired, contact your service representative.
- Do not keep using the machine with a fault or defect. Contact your service representative.
- If the machine looks damaged or breaks down, smoke is coming out, there is a strange smell or anything looks unusual, immediately turn off the operation and main power switches then unplug the power cord from the wall. Do not continue using the machine in this condition. Contact your service representative.
- Do not put any metal objects or containers holding water (e.g. vases, flowerpots, glasses) on the machine. If the contents fall inside the machine, a fire or electric shock could occur.
- Do not incinerate spilled toner or used toner. Toner dust might ignite when exposed to an open flame.
- Disposal can take place at our authorized dealer or at appropriate collection sites.
- Dispose of the used toner cartridge in accordance with the local regulation.


---

**⚠ CAUTION:**

---

- When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing fire or electric shock.
- Unplug the power cord from the wall outlet before you move the equipment. While moving the equipment, you should take care that the power cord will not be damaged under the equipment.
- When the machine will not be used for a long time, unplug the power cord.
- If you use the machine in a confined space, make sure there is a continuous air turnover.
- Keep the machine away from humidity and dust. A fire or an electric shock might occur.
- Do not place the machine on an unstable or tilted surface. If it topples over, it could cause injury.
- After you move the machine, fix it with the caster fixture. Otherwise, the machine might move or come down to cause a personal injury.
- Protect the equipment from dampness or wet weather, such as rain, snow, and so on.
- Do not allow paper clips, staples, or other small metallic objects to fall inside the equipment.
- Do not reuse stapled paper. Do not use aluminum foil, carbon-containing paper or other conductive paper. Otherwise, a fire might occur.
- Do not eat or swallow toner.
- Keep toner (used or unused) and toner bottle out of the reach of children.
- For environmental reasons, do not dispose of the equipment or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer or at appropriate collection sites.
- When removing misfed paper, do not touch the fusing section because it could be very hot.
- Do not touch the anti-humidity switch from inside the machine because it could be very hot.
- The inside of the machine could be very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise it could cause a personal burn.
- Rolls of paper can be heavy, so you should be careful when loading one.
- This machine has been tested for safety using this supplier's parts and consumables. We recommend you only use these specified supplies.
- Our products are engineered to meet high standards of quality and functionality, and we recommend that you only use the expendable supplies available at an authorized dealer.
- This equipment is only to be installed by a qualified service personnel.

# ENERGY STAR Program

 <p>ENERGY STAR®</p>	<p>As an ENERGY STAR Partner, we have determined that this machine model meets the ENERGY STAR Guidelines for energy efficiency.</p>
---	--

The ENERGY STAR Guidelines intend to establish an international energy-saving system for developing and introducing energy-efficient office equipment to deal with environmental issues, such as global warming.

When a product meets the ENERGY STAR Guidelines for energy efficiency, the Partner shall place the ENERGY STAR logo onto the machine model.

This product was designed to reduce the environmental impact associated with office equipment by means of energy-saving features, such as Low-power mode.

- **Auto Off Mode**

To conserve energy, this product automatically turns off 1 minutes after the last copying or printing job has been completed. Printing is available in this mode, but if you use the copier, press the main switch.

For how to change the default interval before entering Auto Off mode, see “Auto Off Time” ⇒ P.38 “User Tools”

## ❖ Specification

		FW770
Auto Off mode	Power consumption	1.0 W
	Default interval	30 minute



## Recycled Paper

Please contact your sales or service representative for recommended recycled paper types that may be used in this machine.

# How to Read this Manual

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## Symbols

---

In this manual, the following symbols are used:

### **WARNING:**

This symbol indicates a potentially hazardous situation that might result in death or serious injury when you misuse the machine without following the instructions under this symbol. Be sure to read the instructions, all of which are described in the Safety Information section.

### **CAUTION:**

This symbol indicates a potentially hazardous situation that might result in minor or moderate injury or property damage that does not involve personal injury when you misuse the machine without following the instructions under this symbol. Be sure to read the instructions, all of which are described in the Safety Information section.

\* The statements above are notes for your safety.

### **Important**

If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

### **Preparation**

This symbol indicates the prior knowledge or preparations required before operating.

### **Note**

This symbol indicates precautions for operation, or actions to take after misoperation.

### **Limitation**

This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

### **Reference**

This symbol indicates a reference.

[    ]

Keys that appear on the machine's panel display.

[    ]

Keys built into the machine's operation panel.

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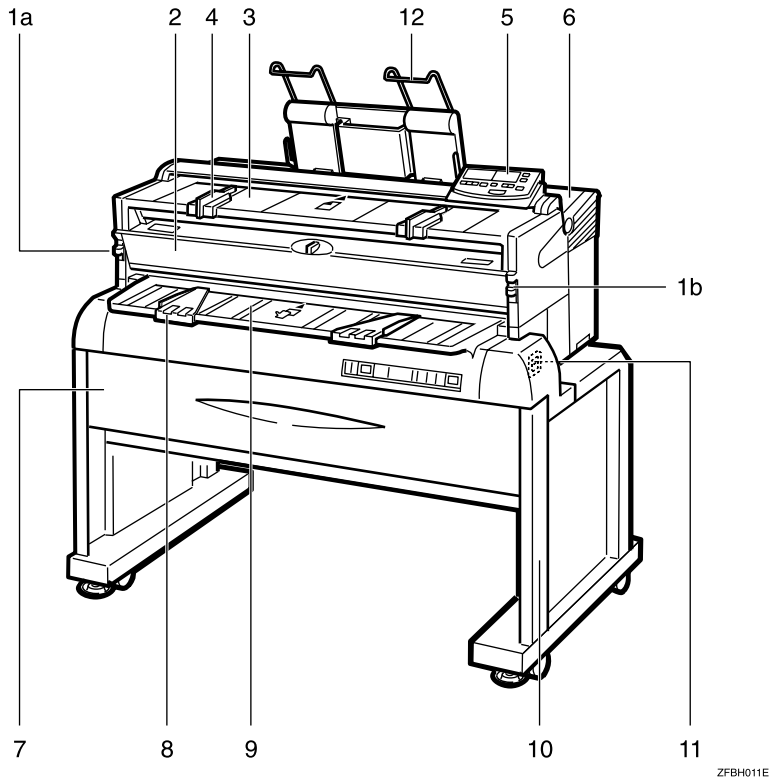
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# Guide to Components

## Copier Exterior



### **1. Locks**

Squeeze both locks(1a&1b) to open the unit. Open the unit to empty the used toner bottle and to remove jammed paper.

### **2. Front Cover**

Open the cover (and the unit) to access the toner cartridge.

### **3. Original Table**

Place your original face up here. If you want to copy a stiff original that can't be bent, use the rear table (see 6).

### **4. Original Guides**

Use the guide to keep the original straight as you feed the original into the copier.

### **5. Operation Panel**

⇒ P.3 "Operation Panel".

### **6. Rear Table**

Place stiff originals face down here.

### **7. Roll Feeder (option)**

Feeds paper from a roll to the copier.

### **8. Paper Guides**

Use the guides to keep the copy paper straight as you feed it into the copier.

### **9. Bypass Table**

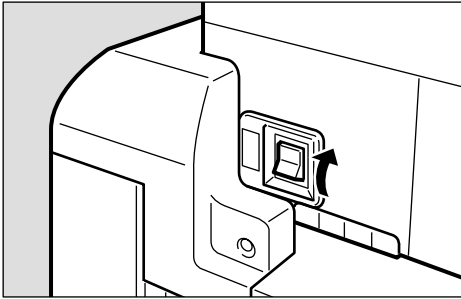
Use this table when you want to make copy one by one.

### **10. Table (option)**

Holds your copier and the Roll Feeder.

## 11. Main switch

Use this switch to turn the copier on and off. The copier will need about 3 minutes to warm up, if it's been turned off for a long time.

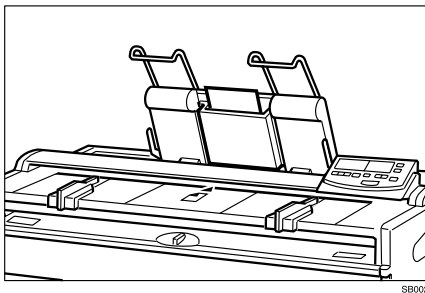


## 12. Copy Exit Guide

Makes sure the copies don't fall off as they come out.

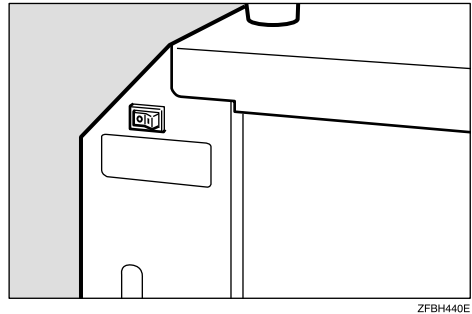
### Note

- Set the manual pocket as shown in the figure.

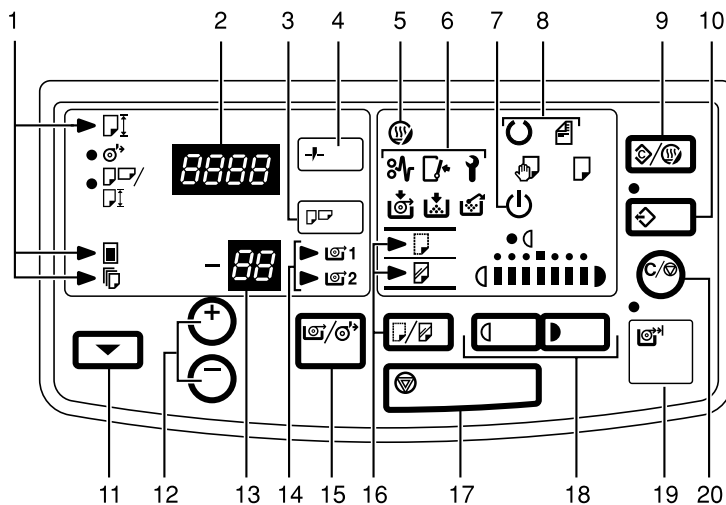


## 13. Anti-humidity Heater Switch

When humidity is high, the paper in the paper roll tray may absorb moisture, which can effect the image quality of your copies. The anti-humidity heater prevents this. Turn on this switch, which is located rear left corner of the machine, when humidity is high. ⇒ P.9 “Anti-humidity Heater”



# Operation Panel



ZFBS010E

## 1. Function indicators

These indicators show which setting you are currently editing. Press the Function key to cycle through them.

- The top indicator (Paper Length indicator) lights when the paper length is being set.
- The middle indicator (Leading Edge indicator) lights when the leading margin is being set.
- The bottom indicator (Copy Counter indicator) lights when the number of copies is being set.

## 2. Paper Length display

Shows the length of paper the Roll Feeder will send.

## 3. [Preset Cut] key

Press to scrolls through the preset paper lengths for the Roll Feeder.

## 4. [Cut Select] key

Turns Semi synchro Cut or Preset/Variable Cut on and off.

## 5. Energy Saver indicator

Shows that the machine is in a state of wait (Energy Saver). Press key 9.

## 6. Troubleshooting indicators

⇒ P.61 "Troubleshooting" for details.

## 7. Wait indicator

Shows that the copier is not yet ready to copy.

## 8. Ready (○), Set Original (☑), Set Paper (☑), Bypass Select (☑) indicator.

When **Ready** indicator lights up, you can set paper. The **Set Paper** indicator on the left lights, and then **Bypass Select** indicator goes on.

## 9. [Clear Modes/Energy Saver] key

Cancels all of current settings. When you hold down this key for three seconds or more, the copier enters the Energy Saver mode allowing you to conserve power.

To exit Energy Saver mode, press this key again.

## 10. [Program] key

Allows you to recall or set a program.

The program indicator(LED) lights after you store the setting.

### **11. [Function Select] key**

Press to change which setting you are editing. The current selection is shown by the indicators above the key:

- Paper Length
- Leading Edge
- Copy Counter

Also used for copying a selected portion of the original.

### **12. [+] and [-] key**

Press to increase the value being edited.

Press to decrease the value being edited.

### **13. Leading Edge/Copy Counter indicator**

Displays the margin settings and the number of copies made.

### **14. Roll Feeder indicator**

Light up when you select Roll Feeder 1 or 2.

### **15. [RF Select/Cut] key**

Use to select the paper feed type (when the Roll Feeder option is installed). Also press to stop a copy job.

### **16. [Copy Media] key**

Press to select the type of copy paper you are using.

The copier will apply more or less heat accordingly.

- The top indicator-Translucent paper indicator
- The bottom indicator-Film indicator

### **17. [Emergency Stop] key**

Press to stop the copying process immediately.

Use if your original is getting stuck in the copier.

If you stop operation by pressing this key, remove both the original and paper.

### **18. Density indicator and [D ], { D }keys**

Shows the density level the copies will have.

Press the left key to make copies lighter.

Press the right key to make copies darker.

### **19. [Paper Feed]key**

Press to feed the paper.

Paper Feed indicator(LED) lights up when the machine is ready to feed roll paper.

### **20. [Clear/Stop] key**

When entering numbers, press to cancel.

While copying, press to stop copying.

## Turning on the Power

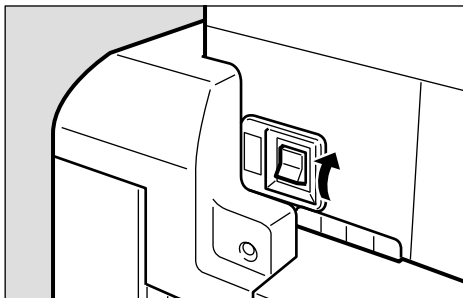
To turn the machine on, press the main switch.

---

### Turn On the Main Power

---

- 1** Make sure that the power cord is firmly plugged into the wall outlet.
- 2** Turn on the main switch.



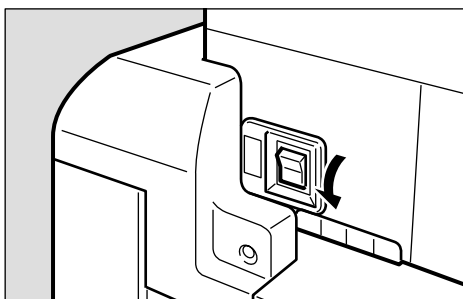
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### Turn Off the Main Power

---

- 1** Turn off the main switch.



ZFBH260E

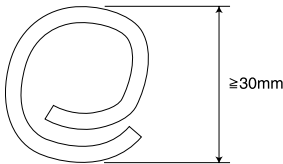
# Recommended Originals

1

- You can set originals with weight in the range 21g/m<sup>2</sup> (6 lb) to 157 g/m<sup>2</sup> (41 lb).
- You can set original with sizes between 914×3,000mm (W×L), 36"×118" and 210×297mm (W×L), 8.5"×11". (The maximum width that can be fed: 960mm, 38.4")
- Fix the curl of originals to within the following range.
  - For the curl of the leading edge and the trailing edge: R50mm (2.0") or more, H20mm (0.8") or less



- For the curl of the whole paper:  $\phi$ 30mm (1.2") or more



- When you copy the following originals, set them in the rear table:
  - ⇒ P.17 "Using the Rear Table"
  - Thick originals (0.19mm~3mm)
  - Originals which cannot be folded.
  - Originals less than 297mm (11") in width and more than 1,200mm (48") in length.
- When you copy the following originals, use the Carrier Sheet (option) to set them:
  - Piled originals
  - Folded originals
  - Taped or pasted originals
  - Originals which have a hole near the leading edge 40mm (1.6") to the right or left of the center
  - Dog-eared originals
  - Creased, torn, or clipped-out originals
  - Wavy originals
  - Pasted originals
  - Originals whose leading edge is not straight
  - Curled originals



## Non-recommended Originals

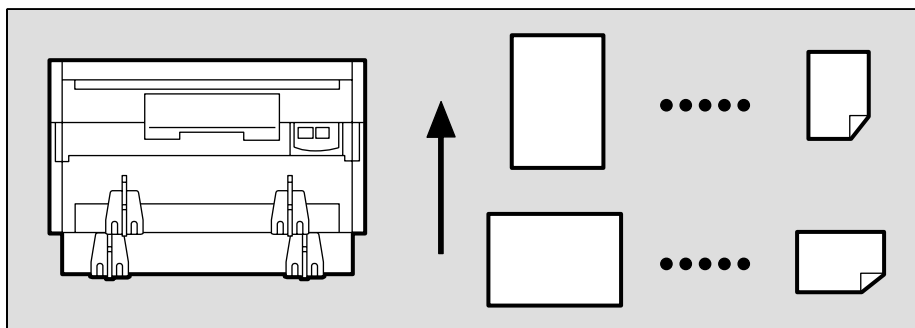
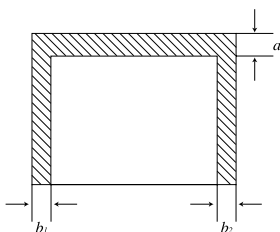
- The following types of originals are not recommended.
  - Wet originals
  - Originals with cardboard stuck on the leading edge
  - Originals with clips or staples
  - Originals with wet ink or white-out
  - Carbon paper
  - Originals made of materials other than paper or film (thermosensitive paper, aluminum foil, etc.)

1

## Notes for Leading and Side Edge of the Originals

Margins on the leading and side edges of originals are not copied as shown in the illustration.

- $a=0\pm 3\text{mm}$  (0.12")
- $b_1+b_2<0\pm 2\text{mm}$  (0.08") (A1☐)



SB042

# Recommended Paper

1

- Standard paper sizes that can be used in this copier are shown below.

Metric version	Inch version	Bypass	Roll Feeder
A0	E (36"×48")	☐	☐
A1	D (24"×36")	☐☐	☐☐
A2	C (18"×24")	☐☐	☐☐
A3	B (12"×18")	☐☐	☐☐
A4	A (9"×12")	☐	☐

- When you make a copy on a non-standard size of paper, set the paper on the Copy Paper Table.
- Weight of paper suitable for this copier: 51g/m<sup>2</sup>, 14lb to 134g/m<sup>2</sup>, 36lb.
- Do not use the following kinds of paper or a paper jam might occur.
  - Bent, folded, or creased paper
  - Torn paper
  - Perforated paper
  - Non-smooth paper
  - Slippery paper
  - Thin paper that has low stiffness
- Do not make a copy on paper with any kind of coating, such as thermosensitive paper, art paper, aluminum foil, and carbon paper. A fault might occur.
- Do not use paper with strong curls at the edges or corners. (Curls rising more than 5mm (1/4") or falling more than 20mm (3/4") over a 40mm (1.5") radius.)
- When you make copies on film, take out the copies delivered to the copy guide one sheet at a time and place them on a flat surface.
- If copying to natural tracing paper (all pulp, translucent paper) at a relative humidity of 35% or less
  - If the paper was left out of its package for 5 minutes or more, remove the first 1000mm (39.3") before copying.
  - If copies come out wavy or with white spots, use translucent paper instead of natural tracing paper.
  - Always keep the paper in a bag when not using it.
- Store the paper in a sealed polyvinyl bag if not used for a long period. If it gets humid, paper will curl or wave which can cause a paper jam or part of the image not to be copied.

- When you use paper in high humidity under hot conditions, take out only the necessary amount of paper from the bag. Do not take all the paper out of the bag.

---

## Anti-humidity Heater

---

- When humidity is high, the paper in the paper roll tray may absorb moisture, which can effect the image quality of your copies. The anti-humidity heater prevents this. Set this switch to "On" when the humidity reaches more than 45%.

# Toner

1

---

## Handling Toner

---

**⚠ WARNING:**



- *Do not incinerate used toner, toner bottle or toner cartridge.*
- *Toner dust might ignite when exposed to an open flame.*
- *Dispose of the used toner and the used toner cartridge according to local regulations.*

**⚠ CAUTION:**



- *Do not eat or swallow toner.*
- *Keep toner (used or unused), toner bottle, and toner cartridge out of reach of children.*

**⚠ CAUTION:**



- *This machine has been tested for safety using this supplier's parts and consumables. We recommend you only use these specified supplies.*

- If you use toner other than that recommended, a fault might occur.
- If you want to add toner, ⇒ P.48 “Adding Toner”

---

## Toner Storage

---

- Store toner cartridges horizontally in a cool, dark place.
- Do not leave toner cartridges in your car on a hot day for a long period of time, or anywhere that they could be subjected to temperatures of over 95°F (35°C).
- Never store toner where it will be exposed to heat.
- Do not lay heavy objects on toner bottles.

---

## Used Toner

---

- Toner cannot be re-used.
- Put the used toner in the plastic bag and dispose of it according to local regulations.

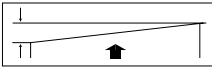
# 2. Copying

## Basic Copying (Copying to sheets)

Use bypass table or roll feeder to copy onto paper.

### Note

- For acceptable types of original and paper, ⇒ P.6 “*Recommended Originals*” and ⇒ P.8 “*Recommended Paper*”.
- If you use bypass table, place one sheet of paper at a time on the bypass table and never insert more than one sheet of paper.
- If the copy paper is curled, place it with the curl facing downwards.
- When you set A0 size (36"×48") paper, to make sure the ends do not touch the floor and get dirty, lay a wide piece of paper or some other covering on the floor.
- Do not use paper which is cut obliquely, when the difference between the right side and the left side of the paper is more than 5mm (1/5"), creasing or a paper jam might occur.



- You cannot copy to both sides of the paper at the same time.
- The machine needs about 3 minutes to warm up after being turned on before copies can be made. The machine is warming up when the **Wait** indicator is lit, but you can still edit settings, insert copy paper or insert your original.
- Set paper, and then set original (from bypass tray or roll feeder). When you have set both of them, the copier starts copying automatically.
- Do not lean on the copy table or lay heavy objects on it.
- After finish copying, you can store up to 25 copies.

### CAUTION:

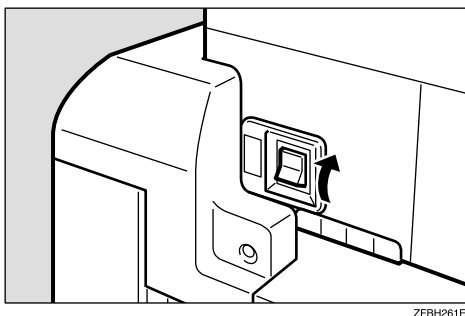
- If during copying your original gets stuck in the copier, press the [Emergency Stop] key.



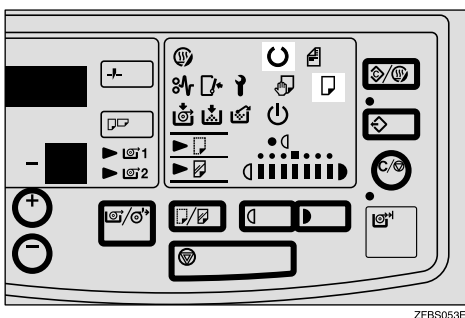
- If you stop operation by pressing this key, remove both the original and paper.

2

**1** Turn on the main switch.



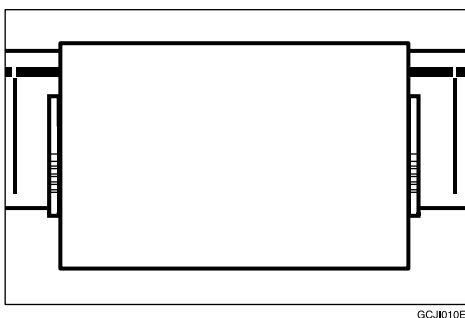
**2** Make sure that the Wait indicator goes off, and then Ready and the Set Paper indicator go on.



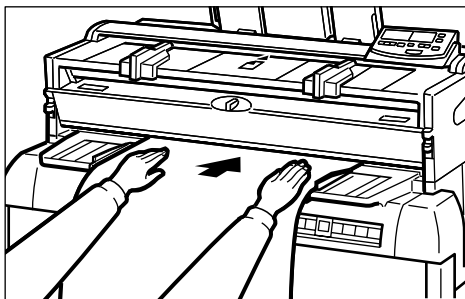
Make sure that the Bypass Tray is selected.

**3** Select any copy settings you require, such as the media type or copy density.

**4** Set the paper guide to match the width of the paper.



- 5** Slide the paper straight into the copier until it stops. The copier will soon pull it in.

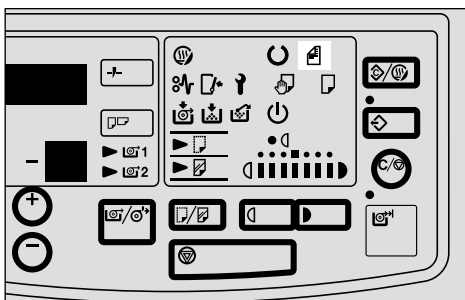


ZFBH050E

**Note**

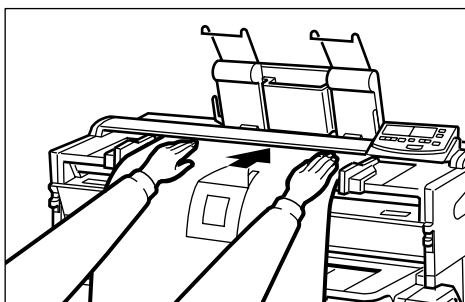
- Center the paper **face up** on the bypass table and slide the paper straight into the copier. These illustrations show the copier with the Original Guides, the Paper Guides, and other optional equipment.

- 6** Make sure that the Set Original indicator goes on.



ZFB8054E

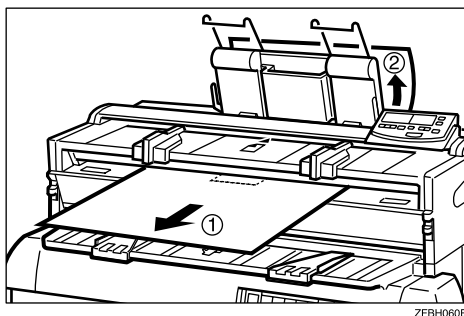
- 7** Set the Original Guides to match the original size mark. Set the original face up and slide it straight into the copier along the Original Guides.



ZFBH230E

- 8** The original comes out from the opening just under the original table (①).

The copy is delivered from the slot on top of the copier (②).

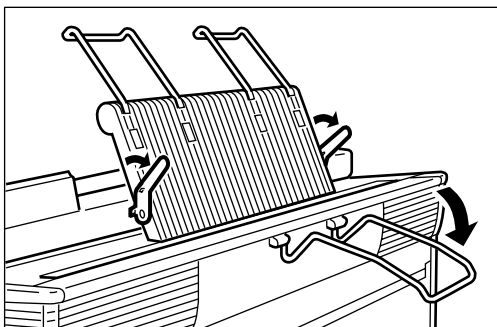


ZFBH060E

If you make several copies of the same original, when the copy comes out, remove it and repeat from step 9

 **Note**

- If you want to catch copies at the back of the machine, change the copy delivery direction as shown in the figure.



SB011

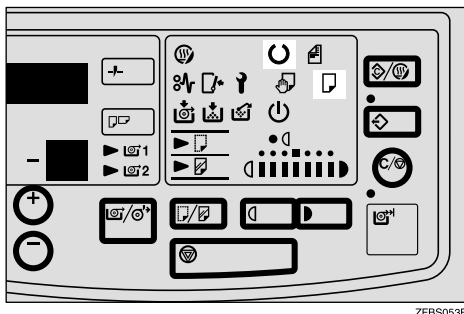
 **Note**

- 9** Do not hold down or pull out the original during copying. Do not put heavy object on the original table.
- If you do not insert the original in a certain interval after inserting the paper, the paper will be ejected automatically.
- If the copier is idle at a certain time after you have used it, the machine resets itself to the initial settings (Auto Reset). If the copier is not used for a long time, it will turn itself off (Auto Off).
- You can preset the initial settings of the copier ⇒ P.36 “B) Changing the Default Setting”



## Using the Roll Feeder (Option)

- 1 When the Wait indicator goes off and the Ready and the Set Paper indicator go on, the copier enters the ready condition.



ZFBS053E

Make sure that the paper feed indicator lights up.

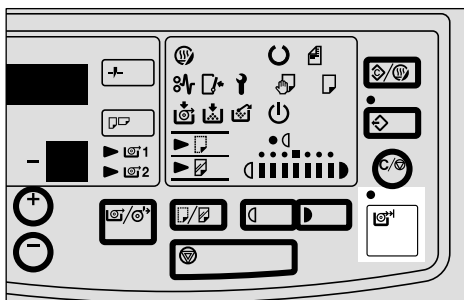
- 2 Select any copy settings you require, such as the media type or copy density.

Press the [RF Select/Cut] key to select the Roll Feeder.

### Note

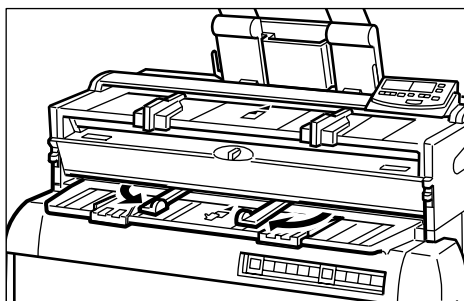
- If you select two roll feeder (option), select one of the roll.

- 3 Press the [Paper Feed] key.



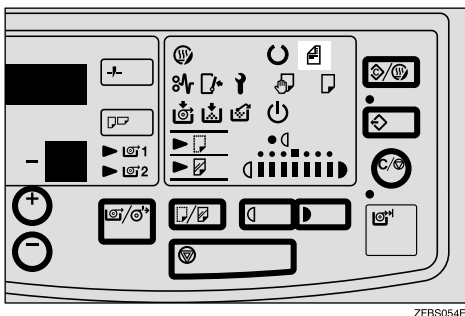
ZFBS050E

- 4 Open the guides to keep the edge of the original from slipping into the paper entrance.



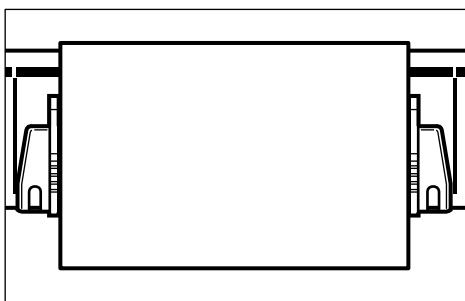
ZFBH040E

**5** Make sure that the Set Original indicator goes on.

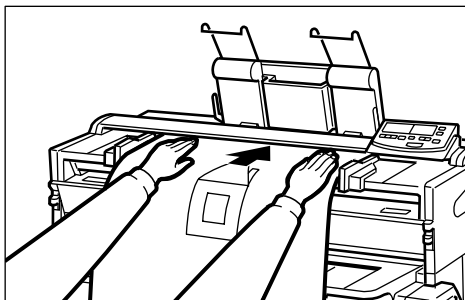


ZFBS054E

**6** Set the original guides to match the width of the original.

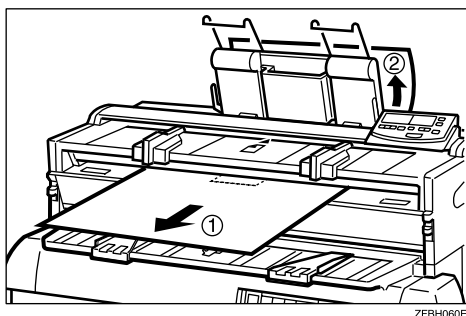


**7** Center your original face up on the original Table. Slide the original straight into the copier until the copier pulls it in.



ZFBH230E

- 8** The original comes from the opening just under the Original Table (①). The copy is delivered from the slot on top of the copier (②).



2

## Using the Rear Table

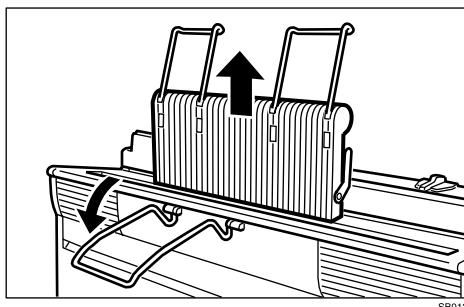
When you copy the following originals, set them in the Rear Table.

- Thick originals (0.19mm ~ 3mm).
- Originals which cannot be folded.
- Originals less than 297mm (11") in width and more than 1,200mm (48") in length.

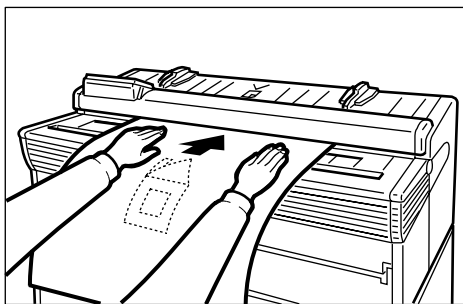
### Note

- You cannot use the following functions when using the Rear Table.
  - Semi Synchro Cut with roll paper
  - Partial Copying

- 1** Choose any copy setting you require.
- 2** For manual copying, set paper.
- 3** Pull up the holder and turn in the copy exit guide.



- 4** Insert the original face down from the rear table.



- 5** Hold and take the original which has been read and delivered in the front of the copier.

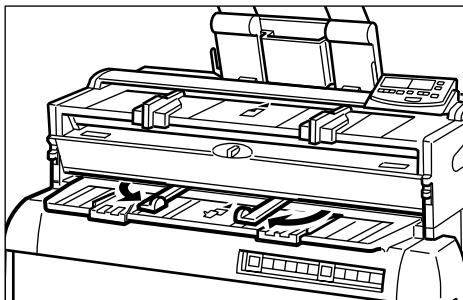
# Copying onto Roll Paper (Option)

The paper will be fed to the copier from the Roll Feeder. You can copy onto roll paper using the following functions:

- Semi Synchro cutting
- Preset cutting
- Variable cutting

## Note

- If unused roll paper is left in the copier, cut 1000mm (39.4") from the edge of the paper before you start copying.
- When you want to copy a long original, curled original, or the thin original (less than 0.1mm) which can be easily bent down, open the guides to keep the original away from the paper entrance.



ZFBH040E

## CAUTION:

- If during copying your original gets stuck in the copier, press the [Emergency Stop] key.



- If you stop operation by pressing this key, remove both the original and paper.

## Semi Synchro cutting

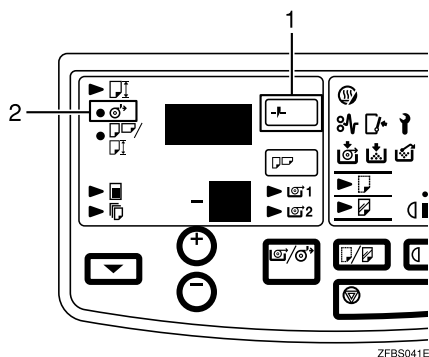
This feature lets you cut the roll paper manually to a length that approximates to that of the original. This saves you having to measure and enter the length of every original.

## Note

- Semi Synchro Cut can handle the cut length in the range 440 ~ 3000mm, 17.3" ~ 118.0".

- ❑ If you set the number of copies, Semi Synchro Cut can handle automatically by the length at your setting for first copy.
- ❑ Do not use carrier sheet and rear table when you use Semi synchro cutting. A fault might occur.

**1** Press the **[Cut Select]** key(1).

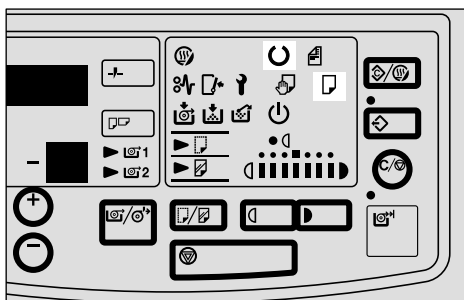


ZFBS041E

The **Semi Synchro** indicator lights up(2).

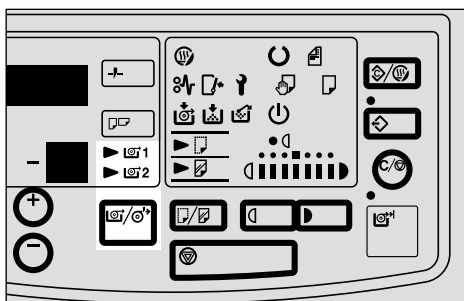
**2** Choose any copy settings you require.

**3** Make sure that the **Wait** indicator goes off and **Ready** and the **Set Paper** indicator go on.



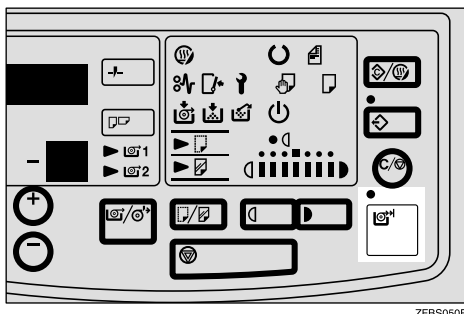
ZFBS053E

**4** Press the **[RF Select/Cut]** key to turn on the **RF Select** indicator.



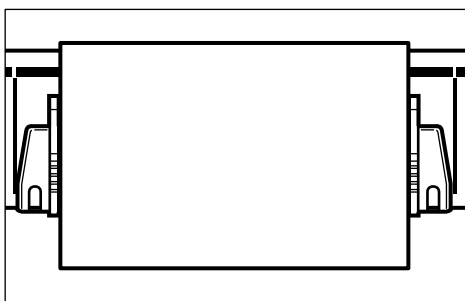
ZFBS024E

**5** Press the **[Paper Feed]** key.

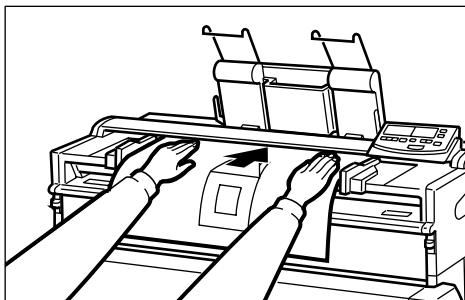


ZFBS050E

**6** Set the original guides to match the width of the original.

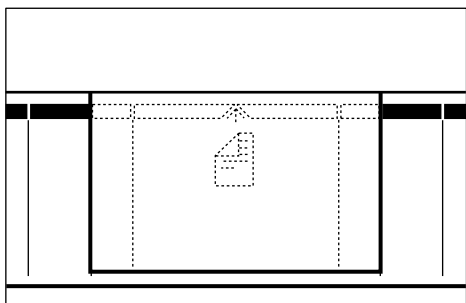


**7** Center your original face up on the original table. Slide the original straight into the copier until the copier pulls it in.



ZFBH240E

- 8** Just as the trailing edge of the original passes the table edge, press the **[RF Select/Cut]** key.



### **Important**

- To cancel copying, press the **[Clear/Stop]** key. The copier finishes the operation in progress, and delivers the copy and the original.
- To cancel on-going copying, for example, when you have inserted a wrong blueprint, press the **[RF Select/Cut]** key. The machine interrupts the operation in progress, and delivers the copy and the original.
- If you make copy without pressing the **[RF Select/Cut]** key, copied paper might come out with original size + 310mm.
- When you repeat the copy job with this function even if you select different sizes of the originals, this function helps you to make same size copy.
- Once you set the cut length and press the **[RF Select/Cut]** key to enter the repeat copy cycle, do not press the key. Otherwise, the copy job will be interrupted. If you want to repeat the copy job again, press the **[Paper Feed]** key. For details about job settings, see [4](#).

## Preset Cutting

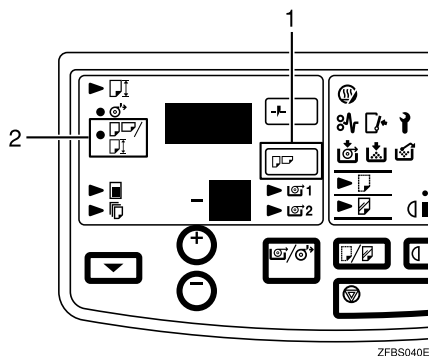
This function cuts roll paper to a selected length. The paper is cut to this length regardless of the original size.

### **Note**

- The default Preset Cut length is as follows. Metric Version: 1189mm, 841mm, 594mm, 420mm, 297mm Inch Version: 48.0", 42.0", 36.0", 24.0", 18.0", 11.0". To change of the Preset Cut length pattern, please contact your service representative.



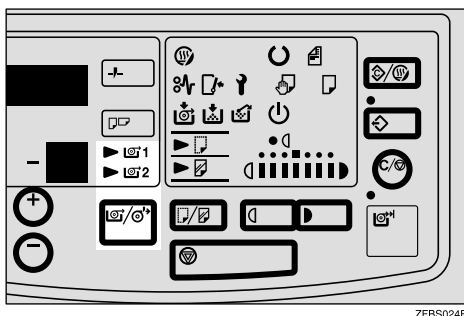
- 1 Press the **[Preset Cut]** key (1).



ZFBS040E

The **Preset/Variable** indicator lights up (2) and the Paper Length display shows the default preset cut length. (1189mm or 48.0").

- 2 Press the **[Preset Cut]** key several times until the indicator shows the value you want.
- 3 Choose any copy settings you require.
- 4 Press the **[RF select/Cut]** key to turn on the RF Select indicator.



ZFBS024E

Continue from step **3,6** ⇒ P.21

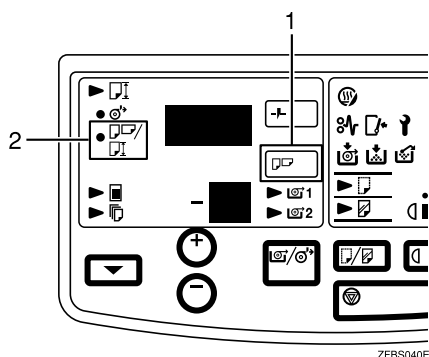
## Variable Cutting

This function cuts roll paper in a length you specify.

### Note

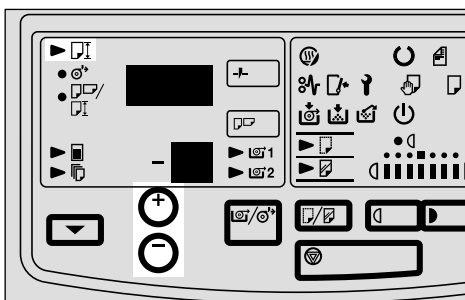
- Length can be cut length from 280mm to 3,000mm, 11" to 118".

- 1 Press the **[Preset Cut]** key(1). The **Preset/Variable indicator**(2) lights up and the "Paper Length" display shows the default Preset Cut length. (1189mm or 48").



ZFBS040E

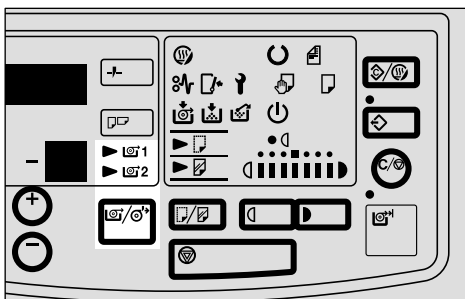
- 2 Press the **[Preset Cut]** key to display the nearest value to the one you want.
- 3 Press **[+]** key or **[-]** key to specify the most appropriate length.



ZFBS033E

You can change the settings by 1mm (0.1") steps.

- 4 Choose any copy settings you require.
- 5 Press the **[RF Select/Cut]** key to turn on the RF Select indicator.



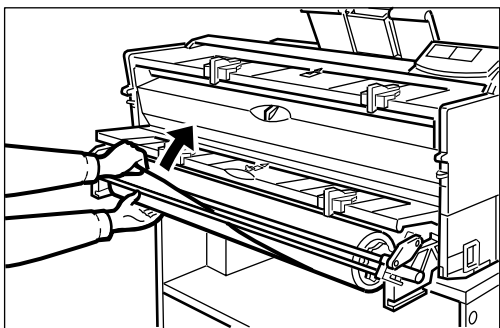
ZFBS024E

Continue from step 5 ⇒ P.21

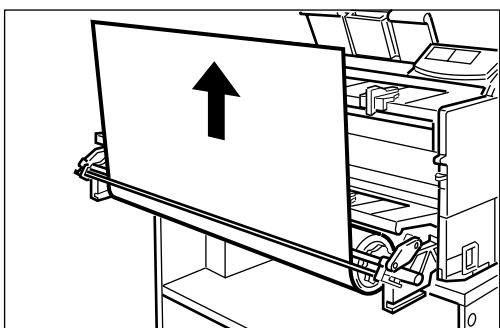
## Using The Roll Cutting Rail (Option)

The Roll Cutting Rail allows you to use roll paper and cut your own sheets. For how to set the roll cutting rail, ⇒ P.59 “Loading A New Roll Onto Paper Cutting Rail (Option)”

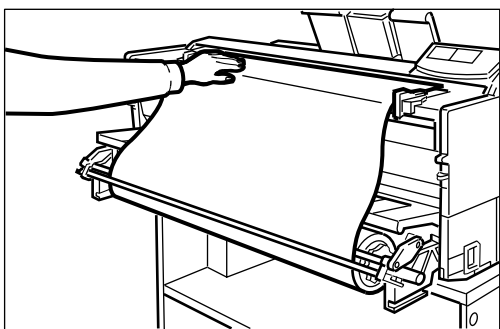
- 1** Pull a bit of paper out and insert it between the rail and the double rod.



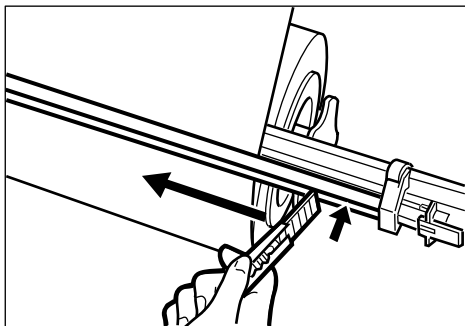
- 2** Pull the length of paper you want.



- 3** With one hand, hold the paper firmly against the Original Table.

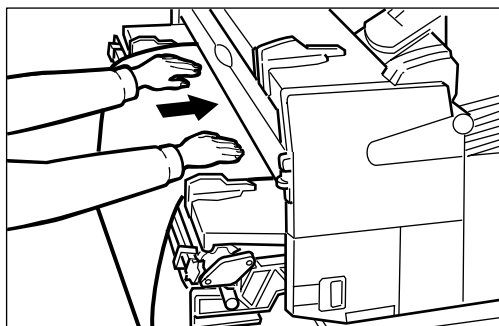


- 4** With your other hand, insert the blade of a paper knife between the two rods and slide across the length of the rail.



SB020

- 5** Make your copy as shown on ⇒ P.27. Make sure the curl of the paper faces down.



SB021

# 3. Copy Settings

## Copying Onto Other Media

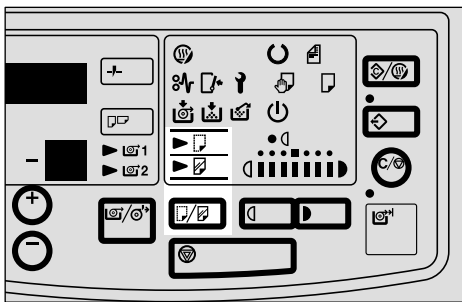
To copy onto translucent or tracing paper or film, use the **[Copy Media]** key to match the paper type refer to the following table.

Type of paper	Media setting
Plain paper	Both indicators off
Film	Film indicator on
Translucent paper	Translucent indicator on
Heavy paper	Translucent indicator on
Thin paper	No indicator or the film indicator if necessary.

If you are not sure of what type of paper you have, check the label on the paper package to confirm it.

**1** Press the **[Copy Media]** key to turn on the **Translucent** or **Film** indicator.

The **Wait** indicator goes on and either the **Translucent** or **Film** indicator lights.



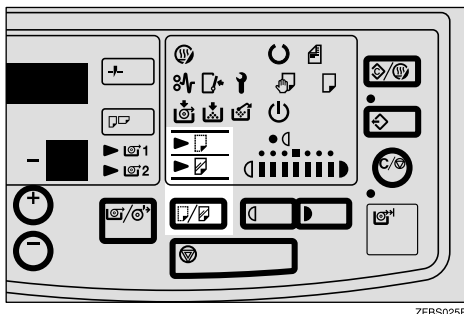
**2** When the wait indicator goes off and the **Ready** and the **Set Paper** indicator go on, the copier enters the ready condition.

### Note

- Even if you have set the Copy Media function correctly, creasing might occur depending on the temperature or humidity. If this happens, adjust the fusing temperature manually. See the next page.

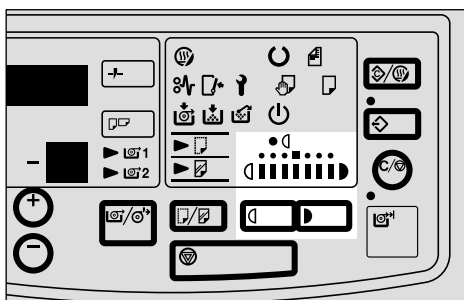
## Adjusting the Fusing Temperature Manually

- 1 Press the **[Copy Media]** key to turn on the Translucent or Film indicator that you want.



ZFBS025E

- 2 Hold down the **[Copy Media]** key for 3 seconds until beep. The indicator show the current fusing temperature. The unlit indicator shows the current temperature settings.
- 3 Press the **[D]** key to decrease the temperature, and press the **[D]** key to increase the temperature. The number of temperature levels (7 levels) available depends on the paper type:



ZFBS023E

- Plain paper : 1234567
- Translucent paper: 1234
- Film : 1234

- 4 After you have finished setting the temperature, press the **[Copy Media]** key.
- 5 Choose any copy settings you require, and then start copying.

### Note

- The new fusing temperature for the selected paper type is cleared when you press the **[Clear Modes/Energy Saver]** key or turn off the main switch.

# Adjusting Copy Image Density

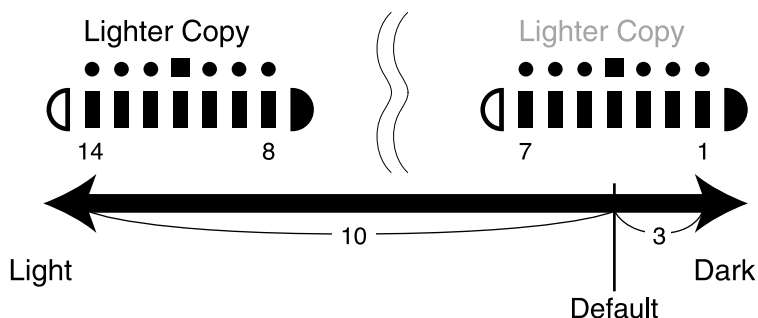
To make copies darker or lighter, change the density setting. There are 14 density levels (=7 notches × 2).

- Standard density level (Default)
- 3 darker levels
- 10 lighter levels

Set the density with the [◀] and [▶] keys under the **density** indicator.

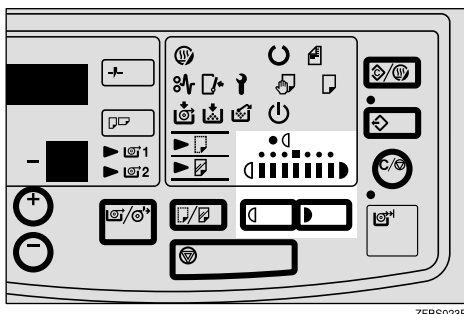
## Note

- The indicator shows seven levels at a time. When you start from the standard image density, the middle notch corresponds to the standard image density, the three right notches correspond to darker densities, and the three left notches to lighter densities.
- The brighter notch shows which level is now set. If you go lower than the left-most notch, the Lighter Copy indicator light up. The notches on the indicator correspond to the seven lightest levels.



- If you change the copy image density while repeat copying, the next copy job will come out with new setting.

**1** Press the [◀] or [▶] key to adjust copy density.



**2** Each time you press the [◀] key, the indicator moves one step to the left. When the indicator reaches the left edge, it returns to the right edge and the Lighter Copy indicator lights.

## Making Several Copies of the Same Original

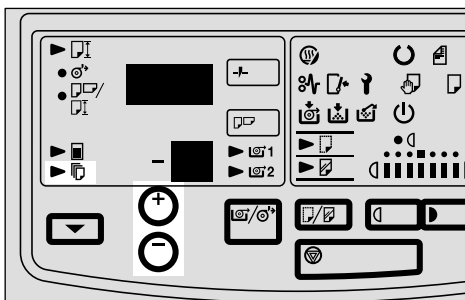
You can preset the number of copies (1 to 99) you want to make. Repeated copying means making two or more copies of an original. To make more than one copy of the original, you have to reload the original after each copy. If you do not have the optional Roll Feeder, you have to set the copy paper for each copy.

### Note

- You can preset up to 99.
- Do not press the **[RF Select/Cut]** key twice once you start preset cut with this function. If you press the key twice, the copy job will be interrupted.

### **1** Press the **[+]** and **[-]** keys to specify the number of copies.

When you press the **[Clear/Stop]** key, the number of copies returns to "1".

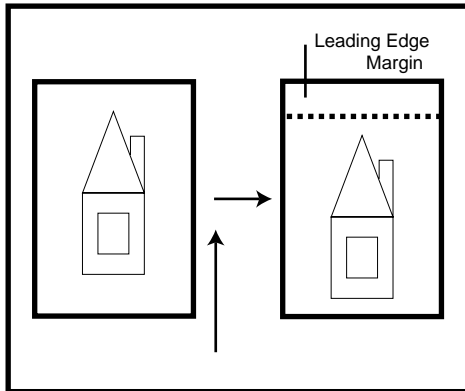


- 2** Proceed as usual for a copy, with sheet paper (⇒ P.11), or with the Roll Feeder (⇒ P.19).
- 3** When the copy comes out, remove it and repeat step **2**. Wait for the Set Paper indicator to light up before loading a new sheet of paper, and wait for the Set Original indicator to light up before reloading the original.

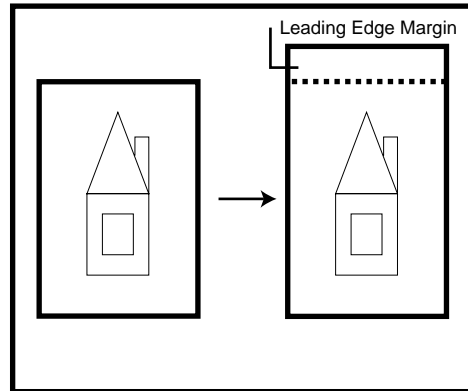


# Setting a Leading Edge Margin

You can set a margin at the leading edge of the copy.



Using the Copy Paper Table, or in the Preset Cut mode,  
Variable cut mode

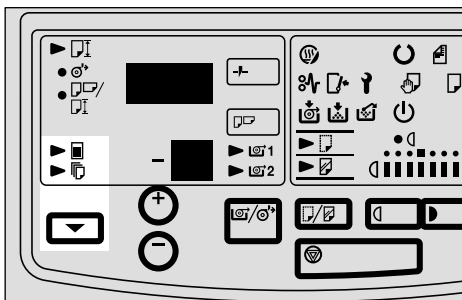


In the Semi Synchro Cut mode

## Note

- You can set up to a  $\pm 99\text{mm}$ ,  $\pm 4.0\text{''}$  margin in 1mm, 0.1" steps at the leading edge.
- The copy image is shifted to the trailing edge, when you make a copy using the bypass table, or in the Preset Cut mode or Variable Cut mode.
- In the Semi Synchro Cut mode, the paper length is increased by the leading margin width.

**1** Press the **[Function Select]** key until the **Leading Edge** indicator is lit.



ZFBS031E

**2** Press the **[+]** key and **[-]** key to specify an edge margin.

To zero the value, press the **[Clear/Stop]** key.

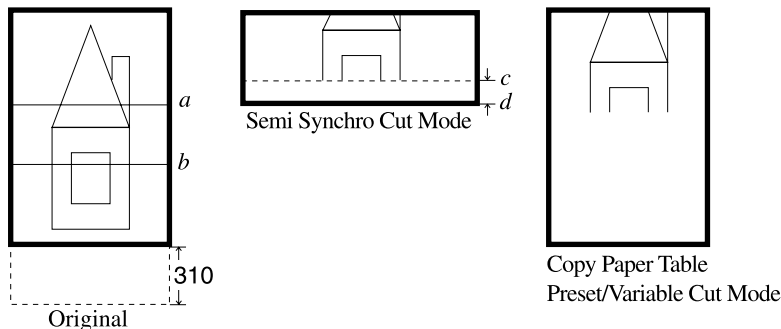
**3** Insert the original from the leading edge.

You can get same results using the Rear Table.

## Partial Copying

The Partial Copy function copies only a part of an original.

You need to enter start and end points in the feed direction of the original .

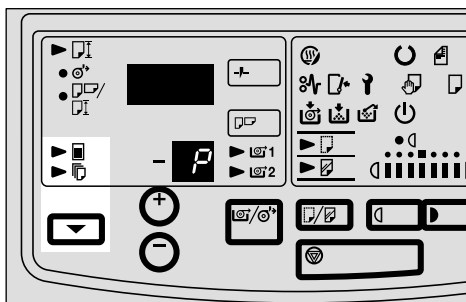


### Note

- You cannot use the Partial Copying function when using the Rear Table.
- You cannot use the Partial Copying function for originals shorter than 150mm.
- You can use the Partial Copying function for originals longer than 1270mm.
- If you set the start point within 130 mm of the leading edge of the original, the copier will regard the leading edge as the start point.
- The minimum available space between the start point and the end point is 30 mm.
- If you do not set the end point after setting the start point (a), the copier will regard the trailing edge of the original as the end point (b).
- If you do not set the end point in the Semi Synchro Cutting function, the paper extend by 200mm from the end point (from c to d). The paper extend by 310mm from the trailing edge.

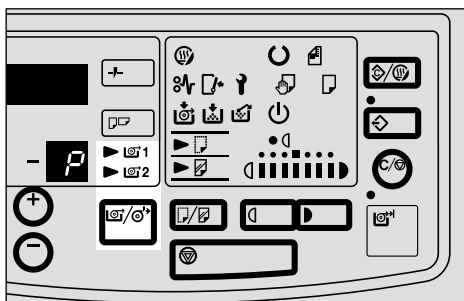
### 1 Hold down the **[Function Select]** key for three seconds or more.

A "P" will blink in the copy counter display.



ZFBS032E

- 2** Slide the paper straight into the copier until it stops, or press the **[RF Select/Cut]** key to turn on the RF Select indicator.



ZFBS051E

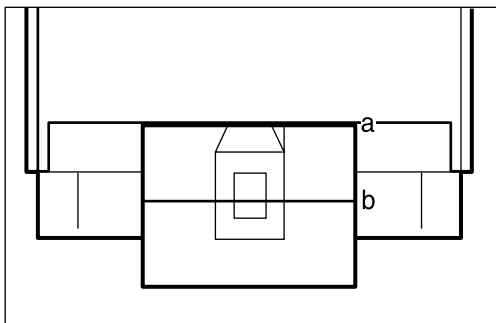
3

- 3** Place the original.

- 4** Press the **[Function Select]** key when the leading edge of the area to be copied reaches the edge of the original table cover.

The "P" will stay on, not blinking.

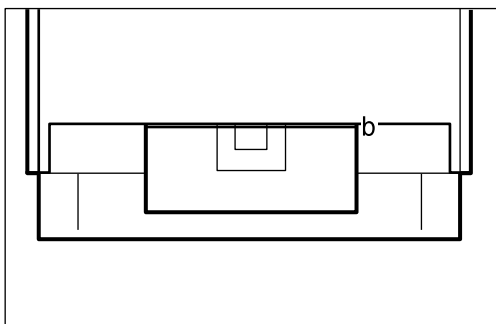
The copier starts copying.



SB043

- 5** Press the **[Function Select]** key when the trailing edge of the area to be copied reached the edge of the original table cover.

The "P" will start blinking again.



SB044

- 6** After the paper has been delivered, hold down the **[Function Select]** key for three seconds to turn the function off.

The "P" will disappear.

3

# Programming Settings You Often Use

There are two ways of programming settings you often use.

A) Store the settings in the **[Program]** key. When you press this key, the settings will be recalled instantly.

B) Change the default settings to those you use most frequently. Whenever you turn on the machine or press the **[Clear Modes/Energy Saver]** key, these settings will be ready to use.

---

## A) Program key

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3

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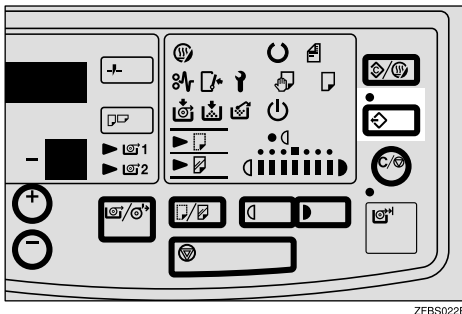
### Storing Setting in the Program Key

---

#### Note

You can store one setting for frequently use.

**1** Press the **[Program]** key.



ZFBS022E

**2** Input the settings you want to store.

**3** Make a copy.

The machine memorizes the types of job setting.

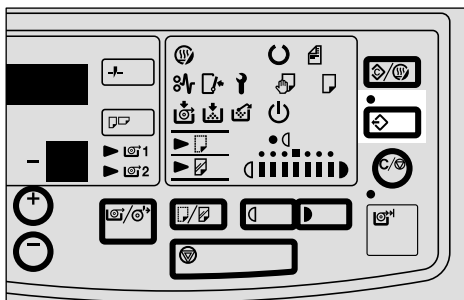
**4** Press the **[Program]** key.

---

## Recalling Settings Stored in the Program key

---

**1** Press the [Program] key before copying.



3

**2** Enter the number of copies required with the [+] and [-] key.

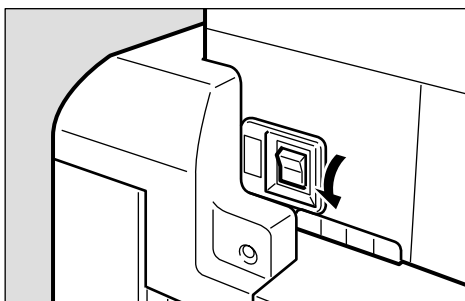
**3** Make a copy.

---

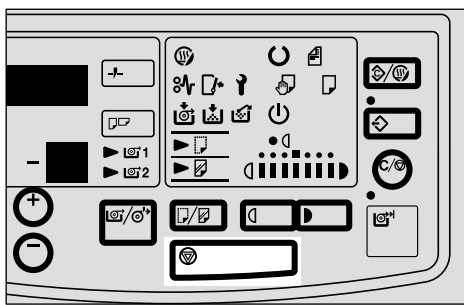
## B) Changing the Default Setting

---

**1** Turn off the main switch.



**2** While holding down the [Emergency Stop] key, turn the copier back on. The jam and service indicators will blink.



**3** Input the settings you want.

**4 Turn off the main switch.**

 **Note**

- The next time you turn the copier on, the settings you programmed in step **3** will take effect.

## User Tools

Access the User Tools to make the following adjustments:

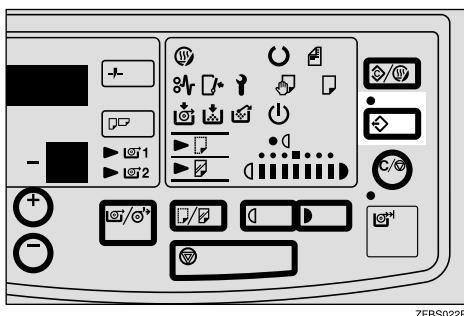
A1) Not in use

A2) Semi Synchro Cut Adjustment; Allows you to adjust the cut length.

-25mm ~ +25mm (-1.0" ~ +1.0") (by 1mm or 0.1")

Without the Roll Feeder, A2) is not in use.

**1** Hold down the **[Program]** key for 3 seconds or more.

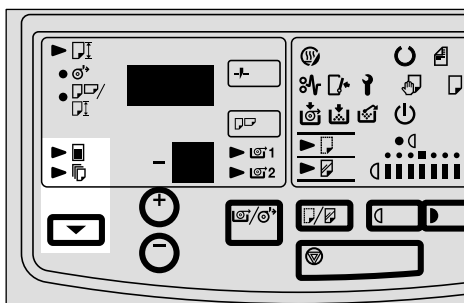


ZFBS022E

"A1" blinks on the "Copy Counter" display.

**2** Press the **[+]** key, "A2" blinks on the display

**3** Press the **[Function Select]** key.

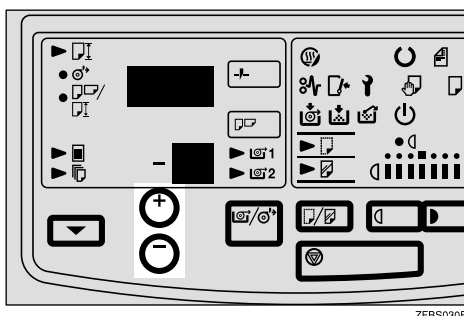


ZFBS031E

The Paper Length display shows the current value.

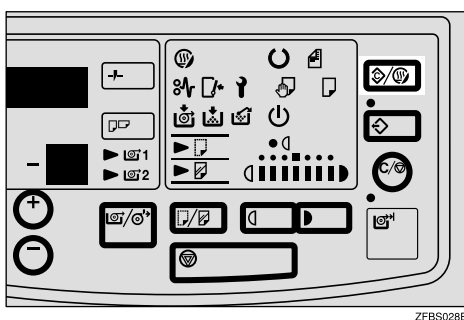


- 4** Use the **[+]** and **[-]** key to change the value.



- 5** Press the **[Program]** key to return to step 2.

- 6** Press the **[Clear Modes/Energy Saver]** key to exit this mode.

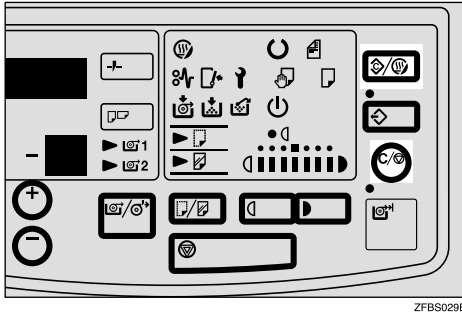


## Settings You Can Change with User Tools

This section is for the key operators in charge of this machine. You can change or set the machine's default settings.

### Note

- For how to enter the User Tools program, press the **[Clear Modes/Energy Saver]** key, and then press the **[Clear/Stop]** key for more than 3 seconds.



- **Fusing Temperature 1–Normal(+01):** Selects the fusing temperature for plain paper.

### Note

- 0: Mode 1, 1: Mode 2, 2: Mode 3, 3: Mode 4, 4: Mode 5, 5: Mode 6, 6: Mode 7
- Default: 2
- For details about each mode, contact your service representative.
- **Fusing Temperature 2–High (+02):** Selects the fusing temperature for translucent paper.

### Note

- 0: Mode 5, 1: Mode 6, 2: Mode 7, 3: Mode 8
- Default: 0
- For details about each mode, contact your service representative.
- **Fusing Temperature 3–Low(+03):** Selects the fusing temperature for translucent film.

### Note

- 0: Mode 2, 1: Mode 3, 2: Mode 4, 3: Mode 5
- Default: 1
- For details about each mode, contact your service representative.
- **Count Up/Down(+04):** The copy counter can be made to count up or count down.

### Note

- 0: Count up, 1: Count down

Default: 0

- **Beeper On/Off(+05):** The beeper can be turned off completely; turned off for setting the margin, multiple copies, and paper length; or left on to emit a tone whenever a key is pressed.

 **Note**

0: On, 1: All Off, 2: Partially Off

Default: 2(The beeper does not work if you use leading edge margin.)

- **Paper Feed Out Waiting Time Setting(+06):** When the copier is ready to receive the original, it will wait for a preset length of time. If no original is set within this time, the copier will process the copy paper without copying. The time can be set to 1, 2, 3, 4, or 5 minutes.

 **Note**

0: 2min, 1: 1min, 2: 3min, 3: 4min, 4: 5 min

Default: 0

- **Manual Feed Start Time Setting(+07):** After the copy paper is set, the copier waits for a preset number of seconds before starting the rollers that will pull the paper in. This pause gives you a chance to align the paper. The time can be set to 0.7, 1, 2, 3, 4, or 5 seconds.

 **Note**

0: 2.0sec, 1: 0.7sec, 2: 1.0sec, 3: 3.0sec, 4: 4.0sec, 5: 5.0sec

Default: 0

- **Lead Edge Increase/Decrease Speed Setting(+08):** The speed at which the lead edge setting scrolls up or down can be changed. The time for one increment (or decrement) can be set to 0.02, 0.05, 0.10, 0.25, or 0.5 seconds.

 **Note**

0: 0.10 sec, 1: 0.50 sec, 2: 0.25 sec, 3: 0.05 sec, 4: 0.02 sec

Default: 0

- **Auto Reset Time Setting(+09):** If the copier is idle for a while, it will clear itself. The time needed can be set to 1, 2, 3, 4, or 5 minutes. This function can also be turned off.

 **Note**

0: 2 min, 1: 1min, 2: 3 min, 3: 4 min, 4: 5 min, 5: None

Default: 0

The machine cannot enter the Auto reset mode if the roll end indicator lights while copying repeatedly.

The machine cannot enter the Auto clear if the toner end indicator lights.

- **Auto Energy Saver Mode(+10):** The fusing unit needs to be hot for copying. When the copier is idle, the fusing unit can be kept hot to save time or it can be allowed to cool to save energy. This feature can be set to start automatically, but you can also turn it on yourself by pressing and holding the **[Clear Modes/Energy Saver]** key for three seconds.

 **Note**

- 0: None, 1: Yes
- Default: 0
- The machine can not enter the energy saving mode if toner end indicator lights.

- **Screen Message Setting(+11):** When the copier is idle, the copy counter can be made to display a message. There are five possible messages: "Pre\_heat", "Sleeping", "0123456789", "Have a good day", and "Hello I love you". This feature can also be turned off.

 **Note**

- 0: None, 1: "Pre\_heat", 2: "Hello I love you", 3: "0123456789", 4: "Sleeping", 5: Have a good day".

- **Leading Edge Increase/Decrease Adjustment Preliminary Interval(+12):** When changing a function setting (margin, multiple copies, or paper length) by holding down the **[+]** or **[-]** key, the setting will change by a preset value. This value can be changed to 1, 2, 3, or 10 intervals.

 **Note**

- 0: 3 intervals, 1: 1 interval, 2: 2 intervals, 3: 10 intervals
- Default: 0

- **Auto Off Time(+15):** You can set the time the machine waits after the last operation before switching itself off automatically. The time can be set by minute from 1 to 240 minutes.

 **Note**

- Default: 30min
- Auto Off cannot be used in the following cases.
  - When the Wait indicator goes on
  - When the toner end indicator goes on
  - When the front door is open
  - While copying
  - When a paper misfeed occurs or SC call appears
  - The machine cannot enter the Auto Off mode if the roll end indicator lights while copying repeatedly.

- **Semi-synchro Cut Original Scanning Mode(+18):** Selects whether the roll paper cut key must be pressed at the appropriate time when the trailing edge of the original passes the Semi-synchro cut mark, or whether the original must be inserted again after the original is scanned and the length is measured.

 **Note**

- 0: Pressing the roll paper cut key, 1: Inserting the original again
- Default: 0

- **Semi-synchro Cut Length Adjustment(+19):** Adjust the cut length in the semi-synchro cut mode. The setting can be changed from —25 to 25 by 1mm steps.

 **Note**

- Default: 0

- **Paper Length Up/Down Setting(+20):** Select if the paper length is count down or up when the preset cut key is pressed.

 **Note**

- 0: Down count, 1: Up count
- Default: 0

- **Paper Length Up/Down Speed Setting(+21) :** The copier can scroll through the preset lengths forward or backward, and at different speeds. There are many sets of sizes from which to choose.

 **Note**

- 0: 0.10 seconds, 1: 0.5 seconds, 2: 0.25 seconds, 3: 0.05 seconds, 4: 0.02 seconds, 5: 0.01 seconds
- Default: 0

- **Fixed Paper Size Pattern Setting(+22):** Select the fixed paper size pattern chosen when the “Preset Cut” key is press. For details about this setting, contact your service representative.

- **Optional Paper Size Setting(+23 ~ +32):** Up to 10 different paper size can be stored from 23 to 32. For details about this setting, contact your service representative.

- **Auto Off Function setting(+33):** This setting allows you to enable or disable the Auto Off function.

 **Note**

- 0: Disable, 1: Enable
- Default: 1

- **Darker Image Density(+37):** Sets the range of the ID density control to give finer control over darker images.
  - ID level 1 to 7-Darker image density and low contrast settings
  - ID level 8 to 14-cannot be shifted

 **Note**

- 0: Standard Density 1: Darker Image Density
- Default: 0

# 4. Maintaining Your Copier

## Changing The Used Toner Bottle

When  is displayed, it is time to change the toner bottle.

### **WARNING:**



- *Do not incinerate used toner, toner bottle or toner cartridge.*
- *Toner dust might ignite when exposed to an open flame.*
- *Dispose of the used toner and the used toner cartridge according to local regulations.*

### **CAUTION:**



- *Do not eat or swallow toner.*
- *Keep toner (used or unused), toner bottle, and toner cartridge out of reach of children.*

### **CAUTION:**

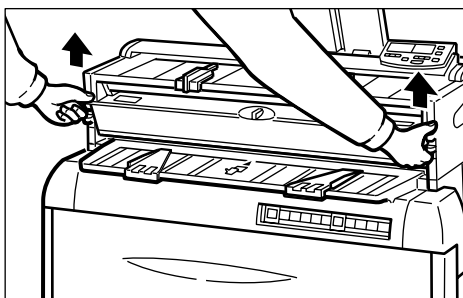


- *This machine has been tested for safety using this supplier's parts and consumables. We recommend you only use these specified supplies.*

### **Note**

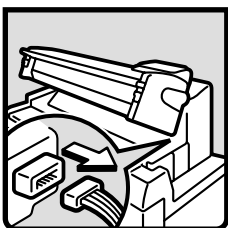
- If the toner bottle overflows, toner particles could get inside the copier and cause damage. When you install a new bottle, make sure it is perfectly set in its holder.
- Do not use used toner. This will damage the machine.

### **1 Open the upper unit of the copier.**



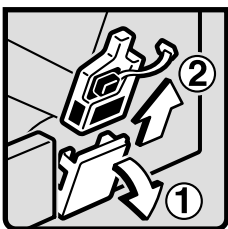
ZFBH140E

**2** Unplug the code from the machine.



ZFBH270E

**3** Open the door on the right side of the copier, and then carefully remove the plastic bottle.

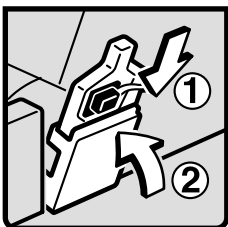


ZFBH280E

 **Note**

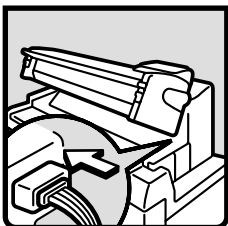
- Put the used toner to the plastic bag and dispose of it according to local regulations. Do not throw away the bottle.

**4** Place the bottle in the the copier again, and then close the door.



ZFBH281E

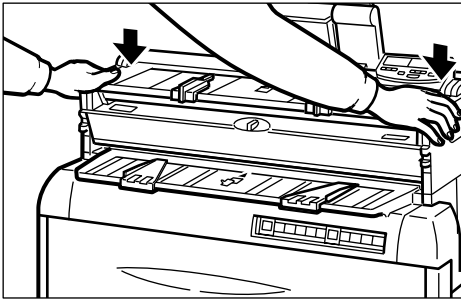
**5** Plug in the code to the mainframe.



ZFBH271E




**6** Close the upper unit.



ZFBH070E

# Adding Toner

When  is displayed, it is time to add toner.

When the indicator starts blinking, you can still copy about 53 feet of paper (16 m, 27 8<sup>1</sup>/<sub>2</sub>"×11" size copies). When the indicator stays on, you can't copy until a new cartridge is installed.

**⚠ WARNING:**



- *Do not incinerate used toner, toner bottle or toner cartridge.*
- *Toner dust might ignite when exposed to an open flame.*
- *Dispose of the used toner and the used toner cartridge according to local regulations.*

4

**⚠ CAUTION:**



- *Do not eat or swallow toner.*
- *Keep toner (used or unused), toner bottle, and toner cartridge out of reach of children.*

**⚠ CAUTION:**

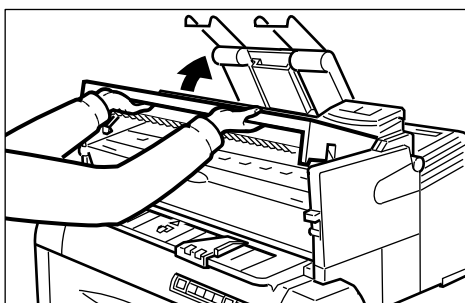


- *This machine has been tested for safety using this supplier's parts and consumables. We recommend you only use these specified supplies.*

** Note**

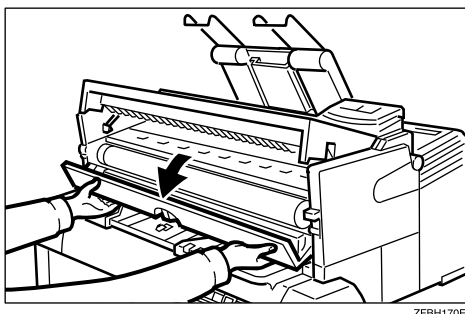
- If you use toner other than that recommended, a fault might occur.
- When adding toner, do not turn off the main switch. If you do, your settings will be cleared.
- Always add toner after the machine instructs you to add toner.
- Do not use used toner. This will damage the machine.

**1** Lift the original table until it locks in place.

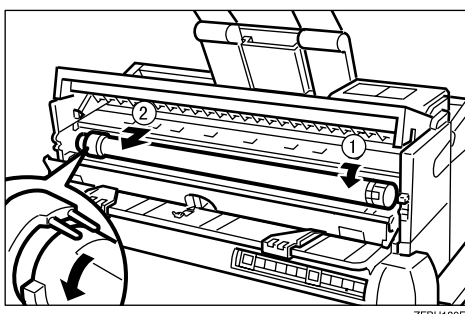
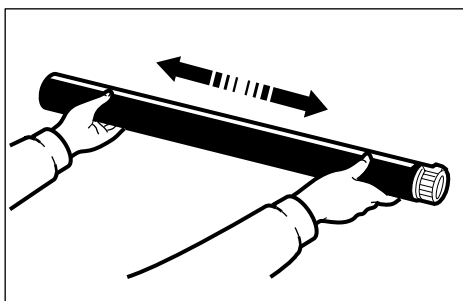


** Note**

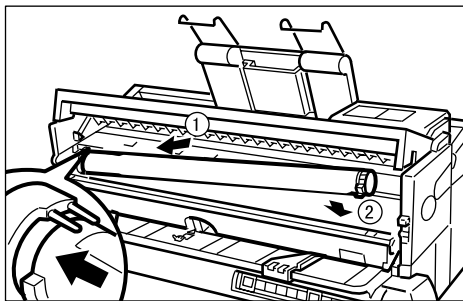
- If your machine does not have roll feeder, pull down the Bypass Table first.

**2** Open the toner cartridge cover.**3** Turn the old cartridge towards you.

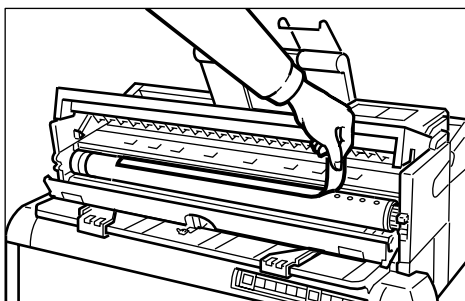
Then, while pressing the cartridge to the right (①), lift the left end and remove the cartridge (②).

**4** Put the old toner cartridge in a plastic bag and dispose of it according to local regulations.**5** Shake the new toner cartridge lightly 5 to 6 times to remove lumps.**6** Install the new cartridge. Make sure that the white circle labeled 1 on the cartridge faces up.

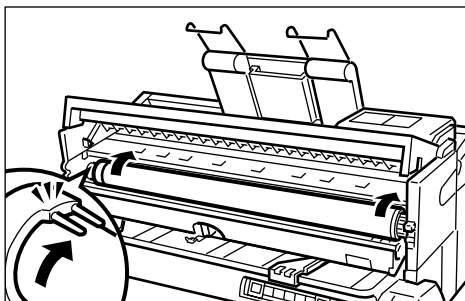
Make sure the cartridge is set well but don't push it in yet.



**7** Take the right edge of the seal and slowly remove it.



**8** Push the toner cartridge all the way to the left. Then turn the toner cartridge all the way in, as shown.

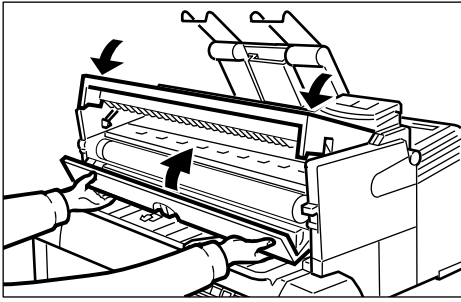


**Note**

- If you can't close the toner cartridge cover, there might be problem setting the toner cartridge. In this case, set the toner cartridge again.

**9** Close the toner cartridge cover and the original table.

The copier will need a few moments to warm up before it is ready to copy.



ZFBH220E

# Changing The Roll Paper Size

Change the size guides on the left and right of the roll paper holder when you load different sized paper rolls.

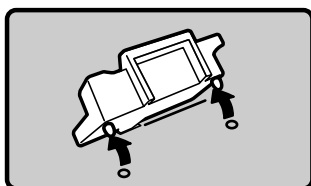
## Important

- ❑ Always follow the instructions below when adjusting the roll paper holder. Do not force the roll paper holder by pulling or sliding it strongly. This could damage the holder.

4

## Removing the Roll Paper Holder

- 1 Push the paper holder inwards, and then pull it upwards to remove it.



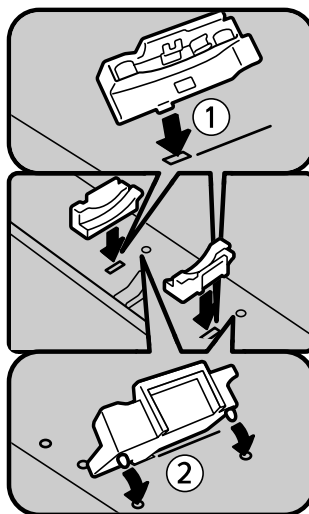
ZEDX200E

### Note

- ❑ The paper holder is attached with magnet and a hook.
- ❑ The paper holder is on the right in this illustration.

## Setting the Roll Paper Holder

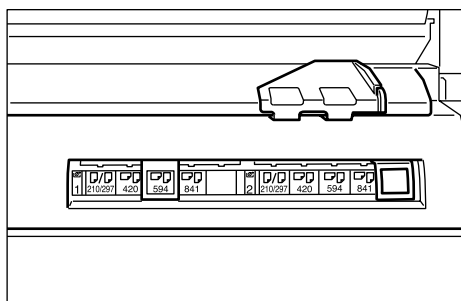
- 1 Insert the hook on the paper holder into (1), and then insert the protrusion into (2).



### Note









- ❑ Make sure the protrusions are firmly in the hole.
- ❑ Lock the left side of the paper holder until it clicks.

- 2 Match the paper size in the windows.



ZFBH490E

Standard paper sizes that can be used in this copier are shown below.

Metric version	Roll Feeder
A0	
A1	 
A2	 
A3	 
A4	

# Loading A Roll Of Paper

When  is displayed, it is time to install a new roll of paper.

**⚠ CAUTION:**

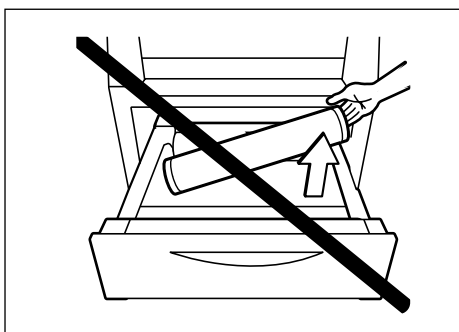


- *Rolls of paper can be heavy, so you should be careful when loading one.*
- *Be careful when replacing the roll paper or removing misfed paper by following the operating instructions properly. Otherwise, an injury may result from the paper cutter inside.*
- *Do not touch the anti-humidity switch from inside the machine. It could be very hot.*

4

**🔊 Important**

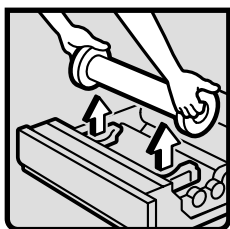
- ❑ When removing paper rolls, lift the roll holders on both sides of the paper roll before removing it. Do not lift one side only. This could damage the machine.



ZEDH390E

**1** Pull out the Roll Feeder.

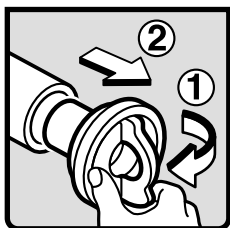
**2** Hold both sides of the empty paper roll and remove it from the unit.



ZFBH290E

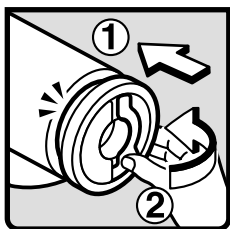


- 3** Raise the lever on the paper holder (①), and then pull out the roll holder from the empty core (②).



ZFBH300E

- 4** Set the paper holder (①) to the roll core, and then lower the lever (②).

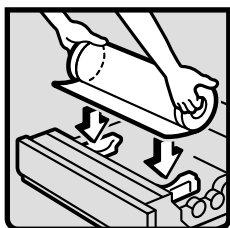


ZFBH390E

 **Note**

- Insert the paper roll as far as it will go.

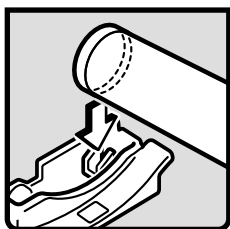
- 5** Hold both sides of paper roll in the paper roll and install it securely in the paper holder.



ZFBH340E

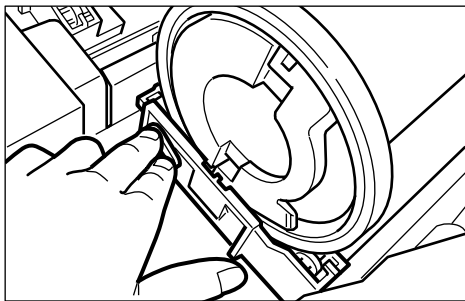
 **Note**

- The flap of the paper roll should be on the bottom. See below.



ZFBH310E

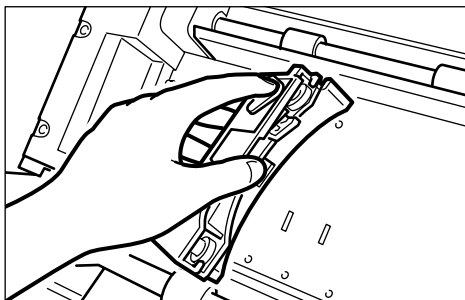
- ❑ If applicable, adjust the roll paper position and lock the lever.



ZFBH500E

- ❑ You may hardly to adjust the roll paper position when you set 914mm (“36”). In this case, take out the paper holder, and then release the lock lever. After you adjust it, put it back to the roll feeder.

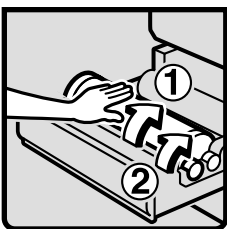
4



ZFBH510E

- ❑ Do not force to remove the paper holder when you need to change the paper size. For how to remove and set the paper holder, see⇒ P.52 “Changing The Roll Paper Size”

- 6** Rotate the paper roll slowly until the flap is almost fed into the rubber part of the roller (①). While feeding the flap of the paper roll into the rubber part of the roller, turn the paper knob clockwise (②).



ZFBH330E

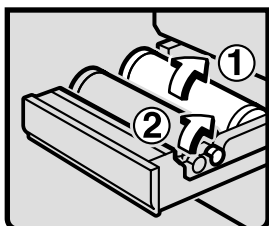
**Note**

- Do not hold the paper knob from side. It may cause you touching a sticky oil. For how to turn the knob without any harm, see the illustration below:

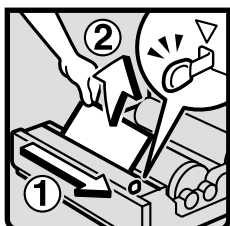


ZFBH410E

- Make sure that the paper is not loose. Insert it straight into the roller.
- Watch carefully to make sure that the flap of the paper is inserted between feeder and the roller.
- For how to change the Roll 2, refer to the following illustration:



ZFBH400E

**7** Hold the paper (②), and then slide the cutter (①).

ZFBH351E

**Note**

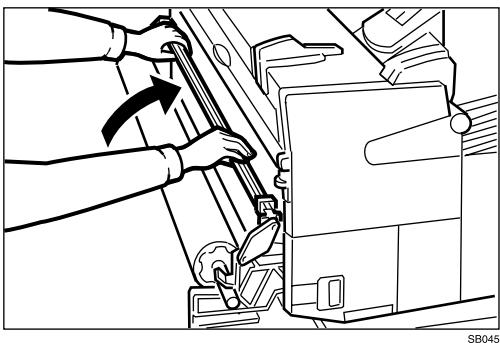
- Slide the cutter one way only, otherwise paper waste may pile up inside the machine.

**8** Turn the knob anticlockwise about 1/4 to adjust the paper position.

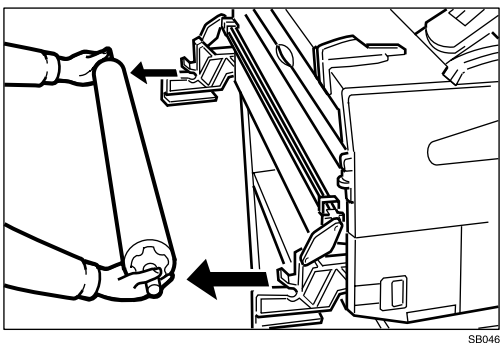
**9 Close the Roll Feeder.**

# Loading A New Roll Onto Paper Cutting Rail (Option)

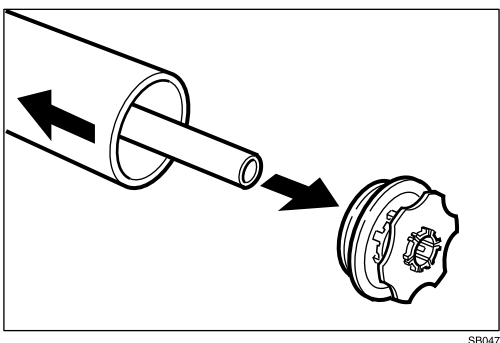
**1** Lift the rail.



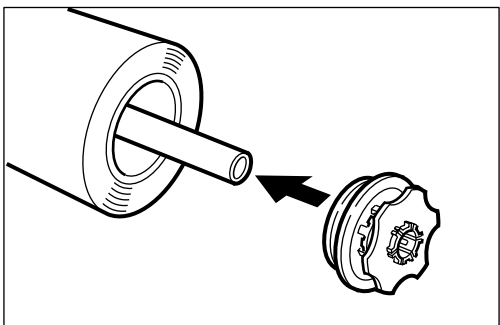
**2** Remove the spool from its support.



**3** Remove one of the end caps and slide the old roll off the spool.

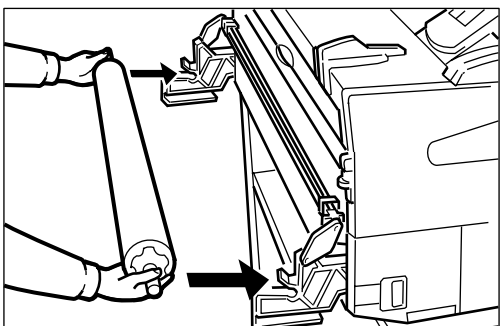


**4** Slide the new roll on the spool and put the cap over the end of the roll.



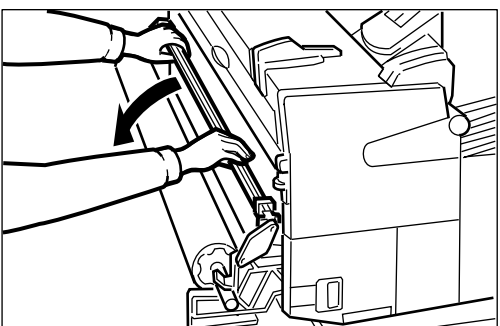
SB048

**5** Place the spool on the holder so that the paper rolls off the front. Push it all the way in.



SB046

**6** Lower the rail.



SB050

# 5. Troubleshooting

## If Something Goes Wrong








If you have problems with your copier, consult the following pages. If a service indicator lights up, read the following section. If the original or copy is stuck in the copier; ⇒ P.62; if the copier won't start, or if copies don't look right, ⇒ P.70.

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### If Indicator Lights Up

---

If one of the indicators shown appears on the operation panel, turn to the appropriate page and follow the instructions described there.

What appears	What it means	What to do
	The original or copy paper is jammed somewhere.	See the following section.
	The copier needs a technician.	Call your service representative.
	A cover, unit, or the fusing unit cover was left open.	Close it. Press firmly.
	The paper roll is finished.	Put in a new roll of paper. ⇒ P.54.
	The toner cartridge is empty, or almost empty.	Replace the toner cartridge. ⇒ P.48.
	Wait until the ready indicator lights.	Wait. If it stays on for an unusually long time, call your service representative.
	The used toner bottle is full.	Empty the used toner bottle. ⇒ P.45.

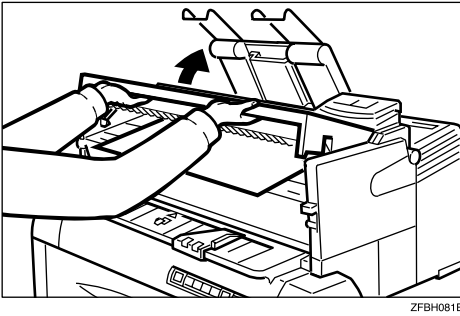
# If Jams Occur

## If the Original is Jammed at the Exit

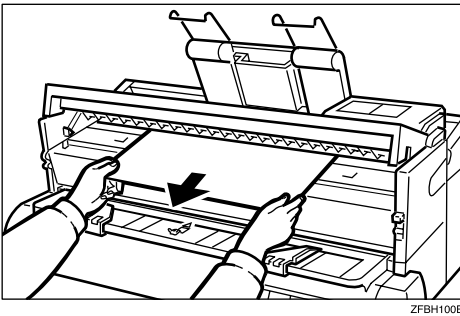
 **Note**

- If the paper or original gets stuck in the copier, remove both original and paper.

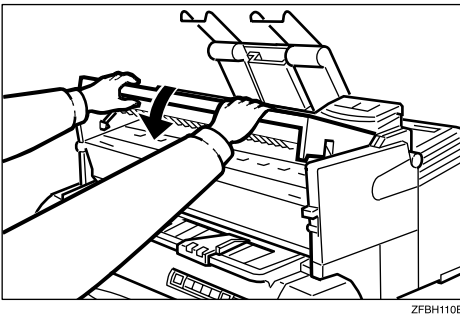
**1** Lift the original table.



**2** Very gently pull the original out of the feed-out slot. Be careful not to tear it.



**3** Close the original table. Press firmly on both sides until it clicks into place.





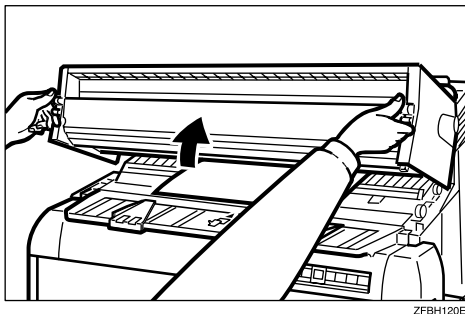
## If Sheet Paper is Jammed in the Feed-in Slot

### ⚠ CAUTION:



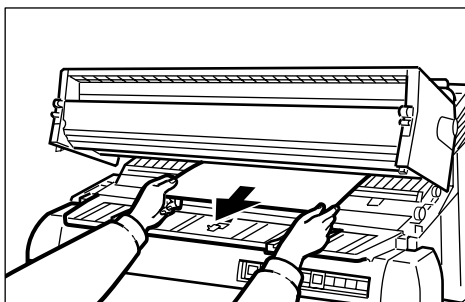
- *The fusing unit can be very hot. Do not touch any parts under the fusing cover. If necessary, wait until the fusing unit has cooled down.*

**1** Squeeze the locks on each side of the copier and lift the unit.



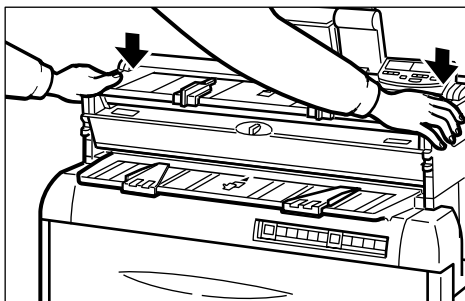
ZFBH120E

**2** Pull out the copy paper. Do not leave any scraps of paper in the copier.



ZFBH130E

**3** Close the unit. Press firmly on both sides until it clicks into place.



ZFBH070E

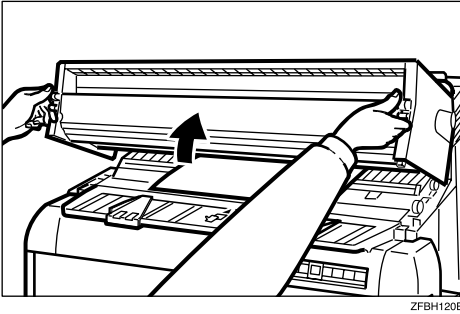
## If Sheet Paper is Jammed at the Paper Exit

**⚠ CAUTION:**



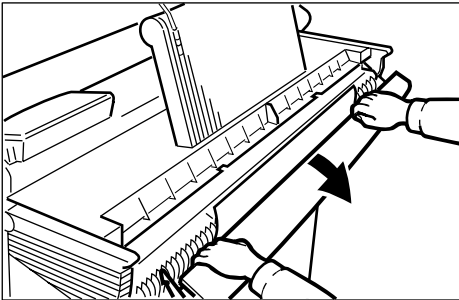
- *The fusing unit can be very hot. Do not touch any parts under the fusing cover. If necessary, wait until the fusing unit has cooled down.*

- 1** Squeeze the locks on each side of the copier and lift the middle unit between the original table and the bypass table.



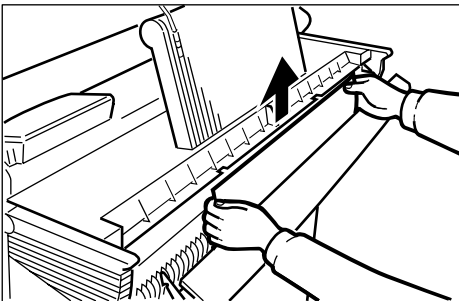
ZFBH120E

- 2** Open the fusing unit cover.



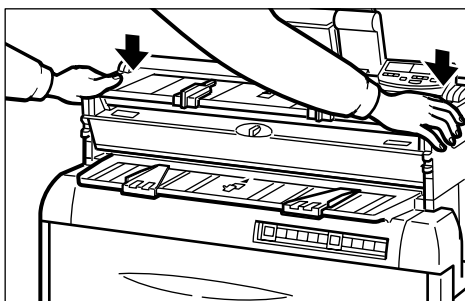
SB038

- 3** Slowly pull the paper out. If there are scraps left inside, open the inner cover, wait for the copier to cool, and remove the scraps.



SB039

- 4** Close the unit and all covers. Press firmly on both sides until it clicks into place.



ZFBH070E

## If Roll Paper Jams

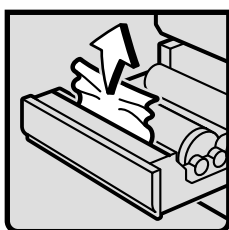
If roll paper jams anywhere in the machine, you still might need to check everywhere to remove the entire length of paper.

### ⚠ CAUTION:



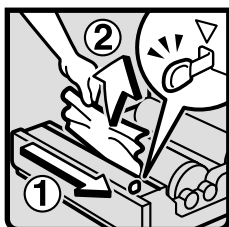
- Be careful when replacing the roll paper or removing misfed paper by following the operating instructions properly. Otherwise, an injury may result from the paper cutter inside.
- Do not touch the anti-humidity switch from inside the machine because it could be very hot.

- 1** Open the Roll feeder.
- 2** Slowly pull up the edge of the paper.



ZFBH380E

- 3** Slide the cutter knob (①) to cut the edge of the roll paper, and then remove the jammed paper (②)

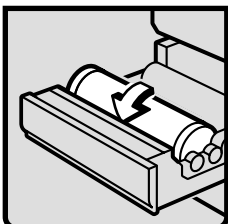


ZFBH390E

**Note**

- Slide the cutter one way only, otherwise paper waste may pile up inside the machine.

**4** Rotate the paper roll in the direction of the arrow until you can see the edge of the paper.



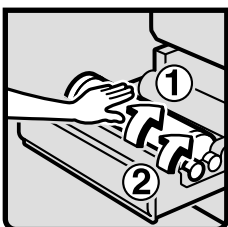
ZFBH370E

**5** Turn the knob anticlockwise about 1/4 to adjust the paper position.



5

**6** Slowly rotate the paper roll until the edge of the paper is fed into the rubber part of the roller (1). While feeding the flap of the paper roll into the rubber part of the roller, turn the paper knob clockwise (2).



ZFBH330E

**Note**

- Do not hold the paper knob from side. It may cause you touching a sticky oil. For how to turn the knob without any harm, see the illustration below:



ZFBH410E

- Make sure that the paper is not loose. Insert it straight into the roller.
- Watch carefully to make sure that the flap of the paper is inserted between feeder and the roller.

## **7** Close the Roll Feeder.

## If You Cannot See the Roll Paper Jam

If roll paper jams inside the roll feeder, you still might need to check everywhere to remove the entire length of paper.

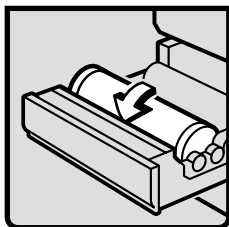
### **⚠ CAUTION:**



- *The fusing unit can be very hot. Do not touch any parts under the fusing cover. If necessary, wait until the fusing unit has cooled down.*
- *Be careful when replacing the roll paper or removing misfed paper by following the operating instructions properly. Otherwise, an injury may result from the paper cutter inside.*
- *Do not touch the anti-humidity switch from inside the machine because it could be very hot.*

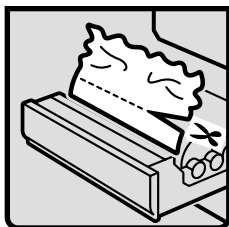
## **1** Open the Roll Feeder.

## **2** Rotate the paper roll in the direction of the arrow until you can see the edge of the paper.



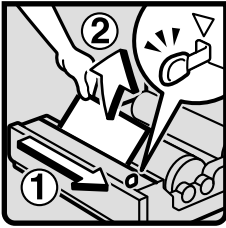
ZFBH370E

## **3** Cut the edge of the paper with the cutter or scissors.



ZFBH320E

**4** Hold the paper (②), and then slide the cutter (①).

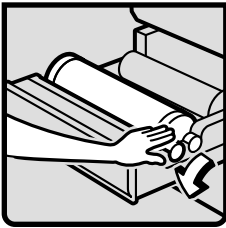


ZFBH351E

**Note**

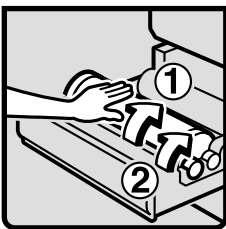
- Slide the cutter one way only, otherwise paper waste may pile up inside the machine.

**5** Turn the knob anticlockwise about 1/4 to adjust the paper position.



5

**6** Slowly rotate the paper roll until the edge of the paper is fed into the rubber part of the roller (①). While feeding the flap of the paper roll into the rubber part of the roller, turn the paper knob clockwise (②).



ZFBH330E

**Note**

- Do not hold the paper knob from side. It may cause you touching a sticky oil. For how to turn the knob without any harm, see the illustration below:



ZFBH410E

- Make sure that the paper is not loose. Insert it straight into the roller.

- Watch carefully to make sure that the flap of the paper is inserted between feeder and the roller.

**7** Close the Roll Feeder.

## Others

If a puzzling or recurring problem occurs, check the following before calling a service representative. It's also a good idea to check the ⇒ P.73 “Do's & Don'ts” to make sure the paper and originals match what the copier can handle.

---

### Absolutely nothing happens

---

- Is the main switch on?
- Is the power cord plugged in?
- Did a breaker or a fuse blow out?

---

### Something happens, but Set Paper or RF Select never appear

---

- Check the indicators on the control panel. If any of them are lit, turn to ⇒ P.61. Check that all covers and units are closed.

---

### If Jams Occur Frequently

---

- Is your paper creased, damp, or otherwise damaged? ⇒ P.8.
- Are there visible bits of paper or other objects stuck in the machine? If there are, remove them.
- Are you inserting the paper and original in straight? Always feed paper in straight.

---

### If Copies Look Wrong

---

- Are copies too dark or too light? Adjust the density (⇒ P.29).
- Is the background dirty no matter what kind of original you are copying? Make sure the exposure glass and platen are clean (⇒ P.72).
- Is the image skewed? Make sure to insert the paper and the original straight into the machine. If you have the Original and Copy Guides (option), use them.

---

### White Spots Appear

---

- On the copy: try setting your copy paper with the other side facing up.
- At the leading edge: try setting your copy paper sideways.
- At the trailing edge: try giving a rising curl to the trailing edge. The curl should go up, not down.



---

## Creases

---

- Try setting your copy paper sideways.
- If long creases appear on copies, try setting your copy paper sideways, or try changing the copy media setting.
- If creases appear on copies made to transparent film, try setting your film sheets sideways.

---

## Copies Come Out Dog Eared

---

- Try setting your copy paper with the other side facing up.
- Make sure your copy paper is undamaged.

---

## Black streaks appear on copies

---

- Check that the exposure glass is clean.

# Daily Maintenance

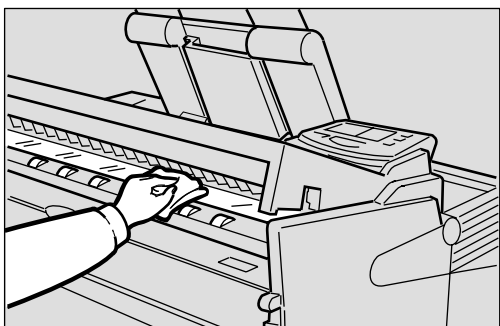
---

## Clean the Exposure Glass & the Platen Plate

---

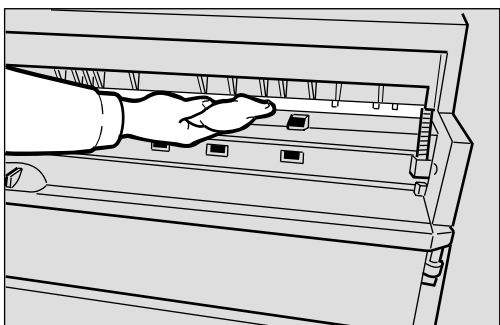
you should clean the copy and original tables with a damp cloth, then wipe them with a dry cloth.

Clean the exposure glass and the Original Drive Roller with a damp cloth, then wipe it with a dry cloth.



SB040

Clean the platen plate with a damp cloth, then wipe it with a dry cloth.



SB041

5

## Do's & Don'ts

### ⚠ CAUTION:



- When you move the machine, unplug the power cord from the wall outlet to avoid fire or electric shock.
- When the machine will not be used for a long time, unplug the power cord.

- Do not touch areas on or around the fusing unit. These areas get hot.
- After copies are made continuously, the exposure glass may feel warm. This is not a malfunction.
- The area around the ventilation hole may feel warm. This is caused by exhaust air and is not a malfunction.
- Do not turn off the main switch while copying. Before turning off the main switch, make sure that copying is completed.
- The machine might fail to produce good copy images if there is condensation inside caused by a temperature change.
- Do not open the covers of the machine while copying. If you do, misfeeds might occur.
- Do not move the machine while copying.
- The supplier shall not be liable for any loss or damage resulting from a failure of the machine, a loss of machine settings, or use of the machine.
- Do not place more than one sheet of paper at a time on the bypass table.
- Center your paper on the copy table using the size marks. Then slide the paper straight into the copier until it stops.
- When copying to a long sheet of paper, lightly hold the sheet as the copier pulls it in so that it goes in well.
- Do not make two sided copies.
- If you open the unit, make sure you close it within 5 minutes to keep light from damaging the copy drum.
- When copying to sheets 35" ×45" (90 cm ×115 cm) or larger, make sure the paper does not drag directly on the floor as the copier pulls it in. (You can spread paper on the floor for this.)
- If your paper has an uneven or slanted edge, do not insert this edge in first.
- Do not make copies longer than 80 inches (2 m).
- Do not insert originals made of paper less the 52.3 g/m<sup>2</sup> (13.9 lb or 0.07 mm thick). For such originals, please use the optional Carrier Sheet.

# Where to Put Your Copier

Your copier should be installed by a qualified technician. If you need to transport your copier to a distant location, call your service center before the move.

You can of course move your copier around your office without calling the service center. If you do, remember that the temperature, humidity, and cleanliness of the area around the copier may affect its performance. Choose the new location with care and follow the guidelines below.

---

## Machine Environment

---

Your machine's location should be carefully chosen because environmental conditions greatly affect its performance.

---

### Optimal Environmental Conditions

---

**⚠ CAUTION:**



- *Keep the machine away from humidity and dust. A fire or an electric shock might occur.*
- *Do not place the machine on an unstable or tilted surface. If it topples over, it could cause injury.*

**⚠ CAUTION:**



- *If you use the machine in a confined space, make sure there is a continuous air turnover.*

- Temperature: 50° to 86°F (15° to 30°C)
- Humidity: 20 to 80% RH
- To avoid possible ozone build-up make sure to install this copier in a large, well ventilated room ensuring an air turnover of at least 1000 ft<sup>3</sup>/hour/person (30 m<sup>3</sup>). When you use this machine for a long time in a confined space without good ventilation, you may notice an odd smell. To keep the workspace comfortable, we recommend that you keep it well ventilated.
- Set your copier on a strong and level base. The copier must be level within a quarter of an inch (5 mm) left to right and half an inch (10 mm) front to rear.

---

### Environments to Avoid

---

- Locations exposed to direct sunlight or strong light (more than 1500 lux)
- Dusty areas
- Areas with corrosive gasses
- Altitudes of over 6500 feet (2000 m)

- Areas prone to strong vibrations
- Locations directly exposed to cool air from an air conditioner or heat from a nearby heater (Sudden temperature changes may lead to condensation within the copier.)
- Locations near a diazo copy machine.

## Power Connection

### **WARNING:**



- **Only connect the machine to the power source described on the inside front cover of this manual.**

### **WARNING:**



- **Avoid multi-wiring.**
- **Do not damage, break or make any modifications to the power cord. Do not place heavy objects on it, pull it hard or bend it more than necessary. These actions could cause an electric shock or fire.**
- **Do not plug or unplug the power cord with your hands wet. Otherwise, an electric shock might occur.**

### **WARNING:**



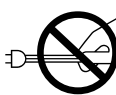
- **Make sure the wall outlet is near the machine and freely accessible so that in event of an emergency it can be unplugged easily.**

### **CAUTION:**



- **When you move the machine, unplug the power cord from the wall outlet to avoid fire or electric shock.**
- **When the machine will not be used for a long time, unplug the power cord.**

### **CAUTION:**



- **When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing fire or electric shock.**

- Connect the copier to a power source meeting the specifications on the inside front cover of this manual.
- Do not set anything on the power cord.
- Voltage must not fluctuate more than 10%.
- Make sure the copier is grounded.
- Make sure the plug is firmly inserted into the power outlet.

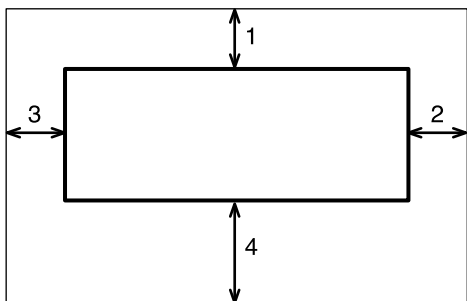
- Make sure the power outlet is close to the copier and easily accessible at all times.

---

## Access To Machine

---

Place the copier near a power source and provide clearance as shown.



GCJ030E

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1. Rear: more than 60cm, 23.7"
2. Right: more than 60cm, 23.7"
3. Left: more than 60cm, 23.7"
4. Front: more than 100cm, 40.0"



# 6. Specifications

## Copier

Configuration	Desktop
Process	Dry electrostatic transfer system
Scanning	Original moving over a fixed fiber optics array
Originals	Sheet
Original Reference Position	Center
Original Size	Maximum: 914mm (W) × 3,000mm (L) (36" × 118.0") Minimum: A4 □ (210 (W) × 297mm (L)) (8.5" × 11")
Copy Size	Maximum: 914mm (W) × 3,000mm (L) (36" × 118.0") Minimum: A4 □ (210 (W) × 297mm (L)) (8.5" × 11")
Warm-up Time	Within 3 minutes at a room temperature of 74°F (23°C)
First Copy	Within 21 seconds (A1 □ , 23" × 35",)
Copying Speed	3600mm (141.7") per minute
Auto Reset Time	2 minutes (can also be turned off or set to 1,3,4 or 5 minutes)
Reproduction Ratio	Fixed: 1 to 1
Paper Feed	manual feed/optional roll feeder
Toner replenishment	Cartridge system
Self-diagnostic codes	LED indicators
Power Source	North America: 120V, 60Hz, 12A Europe: 220-240V, 50/60Hz, 7A
Power consumption	Maximum 1.4kW
Noise emission	Stand by: less than 57dB Copy cycle: less than 75dB (copier only)
Measurements made following ISO7779	
Dimension (W × D × H)	1,080mm × 570mm × 490mm (42.5" × 22.4" × 19.3")
Weight	79kg (174lb)

# Options

- Roll feeder

Number of loaded paper rolls	1 roll (Type 780A)	2 roll (Type 780B)
Acceptable Roll Size	Width: 210, 257, 297, 364, 420, 515, 594, 660, 728, 800, 841, 880, 914mm Roll length: less than 150mm  <b>Note</b> <input type="checkbox"/> Maximum: 914mm (36") <input type="checkbox"/> Minimum: 210mm (8.5")	Width: 210, 257, 297, 364, 420, 515, 594, 660, 728, 800, 841, 880, 914mm Roll length: less than 150mm  <b>Note</b> <input type="checkbox"/> Maximum: 914mm (36") <input type="checkbox"/> Minimum: 210mm (8.5")
Roll Diameter	Within 170mm (6.7")	Within 170mm (6.7")
Roll Core	75.7mm – 77mm(2.98" - 3.03")	75.7mm – 77mm(2.98" - 3.03")
Dimension (W × D × H)	1,200mm × 720mm × 775mm (48" × 28.3" × 30.5")	1,200mm × 720mm × 775mm (48" × 28.3" × 30.5")
Weight	78kg (172lb)	86kg(189lb)

- Side Guide Type 770
- Table Type 770
- Roll Cutting Rail Type 770



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