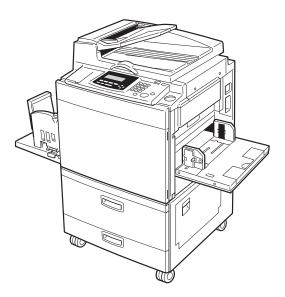
RIGOH

Priport JP5800

OPERATING INSTRUCTIONS



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.



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Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual. Please keep this manual in a handy place near the machine.

Please read the Safety Information before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Notes:

Some illustrations might be slightly different from your machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

Two kinds of size notation are employed in this manual. With this machine refer to the metric version.

For good print quality, Ricoh recommends that you use genuine Ricoh master and ink.

Ricoh shall not be responsible for any damage or expense that might result from the use of parts other than genuine Ricoh parts in your Ricoh office product.

Power Source

220 - 240V, 50/60Hz, 1.6A or more

Please be sure to connect the power cord to a power source as above. For details about power source, see \Rightarrow P.216 *"Power Connection"*.

CE

Declaration of Conformity

"The Product complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC."

In accordance with IEC 60417, this machine uses the following symbols for the main power switch:

I means POWER ON. O means POWER OFF.

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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:

A 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.

A WARNING:

- Connect the power cord directly into a wall outlet and never use an extension cord.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- To avoid hazardous electric shock, do not remove any covers or screws other than those specified in this manual.
- 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.

▲ CAUTION:

ii

- Protect the equipment from dampness or wet weather, such as rain, snow, and so on.
- 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 you disconnect the power plug from the wall outlet, always pull the plug (not the cable).
- Do not allow paper clips, staples, or other small metallic objects to fall inside the equipment.
- 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.
- Be careful not to cut yourself on any sharp edges when you reach inside the machine to remove misfed sheets of paper or masters.
- 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.

How to Read this Manual

Symbols

In this manual, the following symbols are used:

A 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 the machine.

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.

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1

This symbol indicates a reference.

[

Keys that appear on the machine's display panel.

Keys built into the machine's operation panel.

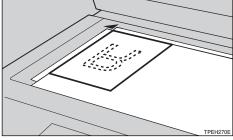
Making Prints

Before making prints using this machine, you have to make a master by pressing the **[Start]** key. When you press the **[Start]** key, the machine scans the original image and makes a master. This procedure describes how to make basic prints.

Set your originals in one of the following two ways:

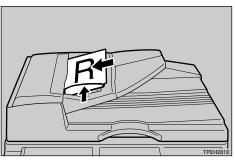
Placing originals on the exposure glass (contact glass)

Place a single page <u>face down</u>.

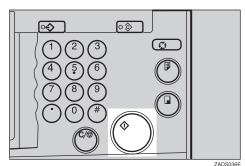


Inserting originals in the optional document feeder

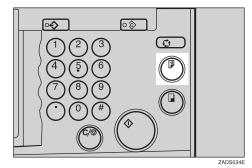
Insert a stack of originals <u>face</u> <u>up</u>.



2 Press the **[Start]** key.



Press the [Proof] key.

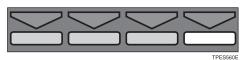


Check the print image.

Reference

For how to change the image position, see \Rightarrow P.34 "Adjusting the Position of Printed Images".



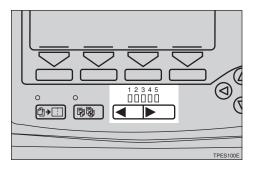


iv

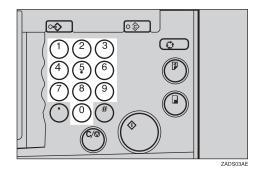
V

To increase the image density, press the [\triangleleft] key. See \Rightarrow P.35 "Adjusting the Image Density of Prints".

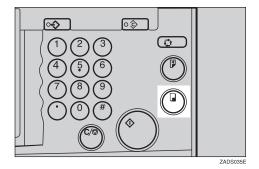
To decrease the image density, press the $[\blacktriangleright]$ key. See \Rightarrow P.35 "Adjusting the Image Density of Prints".



Enter the desired number of prints with the Number keys.



5 Press the **[Print]** key.



When the print job has finished, press the **[Clear Modes/Energy Saver]** key. Previously entered job settings will be cleared.

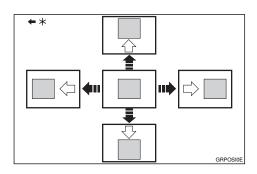
What You Can do with this Machine

Below is a quick summary of this machine's features and where to look in this manual for more information.

- Standard Printing See ⇒ P.20 "Standard Printing".
- ◆ Energy Saver Mode See ⇒ P.23 "Energy Saver Mode — Saving Energy"
- ◆ Printing from the External Tray See ⇒ P.24 "Printing from the External Tray".
- Adjusting the Paper Delivery Tray Position
 Soc = R 28 "Paper Delivery Tray Po-

See \Rightarrow P.28 "Paper Delivery Tray Position".

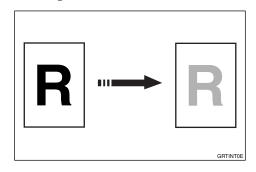
- Selecting the Print Paper See ⇒ P.32 "Selecting Print Paper".
- ★ Adjusting the Print Image Position See ⇒ P.34 "Adjusting the Position of Printed Images".



*: Paper feed direction

★ Adjusting the Print Image Density See ⇒ P.35 "Adjusting the Image Density of Prints". Halftone Printing

See \Rightarrow P.36 "Tint Mode—Halftone Printing".

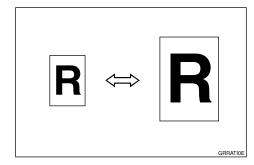


Changing the Printing Speed

See \Rightarrow P.37 "Changing the Printing Speed".

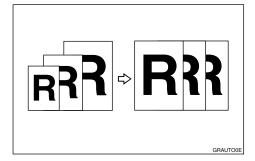
 Reducing and Enlarging Using Preset Ratios

See \Rightarrow P.39 "Preset Reduce/Enlarge—Reducing and Enlarging Using Preset Ratios".

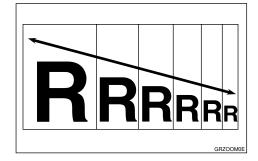


Having the Machine Choose the Reproduction Ratios

See \Rightarrow P.41 "Auto Magnification— Having the Machine Choose Reproduction Ratios".

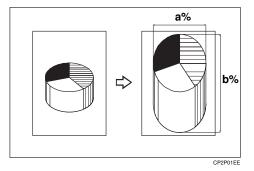


★ Reducing and Enlarging in 1% Steps See ⇒ P.44 "Zoom—Reducing and Enlarging in 1% Steps".



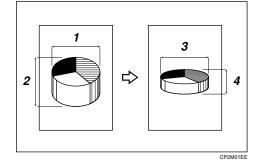
Stretching and Squeezing the Image in 1% Steps

See \Rightarrow P.46 "Directional Magnification (%)—Stretching and Squeezing the Image in 1% Steps".



Stretching and Squeezing the Image into the Copy Area

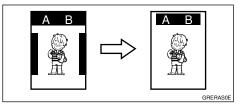
See \Rightarrow P.48 "Directional Magnification (Size)—Stretching and Squeezing the Image into the Copy Area"



◆ Erasing Center and Edge Margins See ⇒ P.50 "Erasing Center and Edge Margins".

Erasing Edge Margins

See \Rightarrow P.51 "Edge Erase—Erasing Edge Margins".



◆ Printing on Various Kinds of Paper See ⇒ P.52 "Printing onto Various Kinds of Paper".

Selecting a Mode to Match Your Original

See \Rightarrow P.55 "Selecting a Mode to Match Your Original".

Saving Ink

See \Rightarrow P.58 "Economy Mode—Saving Ink".

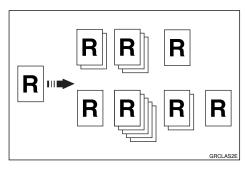
Making Master and Prints at one Stroke

See \Rightarrow P.59 "Auto Cycle—Making Master and Prints in one Operation".

Vİİ

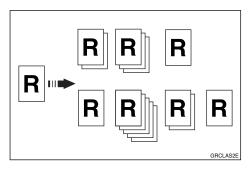
Making Variable Numbers of Prints from the Same Original Using All Stored Data

See \Rightarrow P.60 "All Class Mode—Making Variable Numbers of Prints from the Same Original Using All Stored Data".



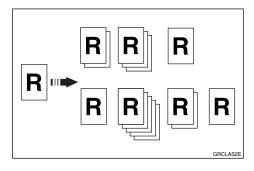
Making Variable Numbers of Prints from the Same Original Using Stored Data

See \Rightarrow P.62 "Auto Class Mode— Making Variable Numbers of Prints from the Same Original Using Stored Data".



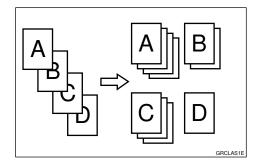
Making Variable Numbers of Prints from the Same Original

See \Rightarrow P.65 "Manual Class Mode with one Original—Making Variable Numbers of Prints from the Same Original".



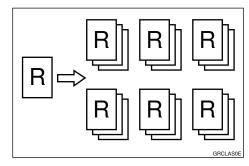
Making Variable Numbers of Prints from Different Originals

See \Rightarrow P.67 "Manual Class Mode with 2 or More Originals—Making Variable Numbers of Prints from Different Originals".



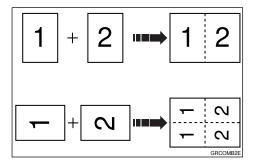
Making Fixed Numbers of Prints from the Same Original

See \Rightarrow P.69 "Class Mode—Making Fixed Numbers of Prints from the Same Original".

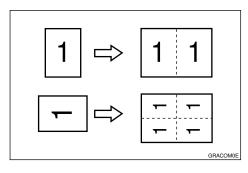


viii • ♦ Combining Originals into one Print See ⇒ P.71 "Combine Originals—

Combining Originals into one Print".



◆ Having Images Repeated on one Print See ⇒ P.76 "Auto Combine Mode— Having Images Repeated on one Print".

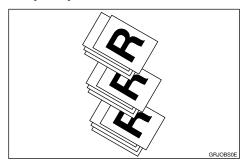


- Skip Feed Printing See ⇒ P.78 "Skip Feed Printing".
- Storing Your Print Settings in Memory See ⇒ P.80 "Programs—Storing Your Print Settings in Memory".
- ♦ Printing Confidential Documents See ⇒ P.83 "Security Mode—Printing Confidential Documents".
- Regaining the Image Density When the Ink on the Drum Dries

See \Rightarrow P.84 "Quality Start Mode— Regaining Image Density When Drum Ink Dries".

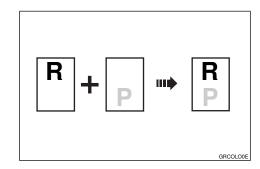
Separating Printing Sets on the Paper Delivery Tray

See \Rightarrow P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray".



- ♦ Conserving the Master See ⇒ P.87 "Conserving the Master".
- ♦ On Line Printing See \Rightarrow P.88 "On Line Printing".
- ♦ Making Color Prints See ⇒ P.95 "Making Color Prints".
- Printing in Two Colors

See \Rightarrow P.97 "Printing in Two Colors".



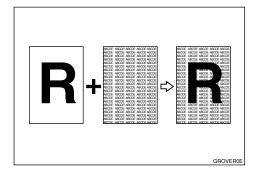
♦ Rotating Original Images See ⇒ P.100 "Image Rotation—Rotating Original Images".

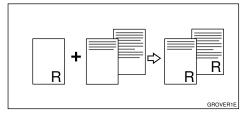
♦ Make-up Printing See ⇒ P.112 "Make-up Printing".

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Merging Images

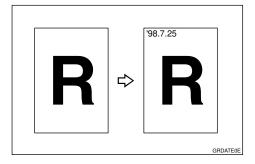
See \Rightarrow P.120 "Image Overlay— Merging Images".





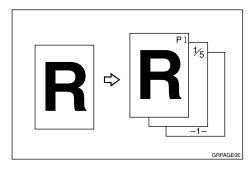
Having the Date Stamped on Prints

See \Rightarrow P.122 "Date Stamp—Having the Date Stamped on Prints".



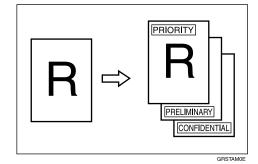
Having Page Numbers Stamped on Prints

See \Rightarrow P.124 "Page Stamp—Having Page Numbers Stamped on Prints".



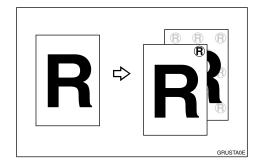
Having Preset Messages Stamped on Prints

See \Rightarrow P.127 "Stamp—Having Preset Messages Stamped on Prints".



Having Custom Messages Stamped on Prints

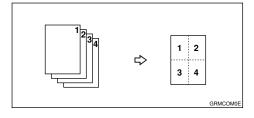
See \Rightarrow P.129 "User Stamp—Having Custom Messages Stamped on Prints".

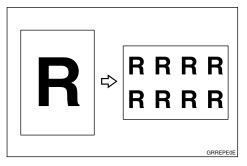


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Combining Originals into one Print with the Memory Board

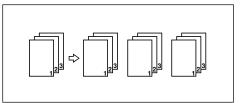
See \Rightarrow P.131 "Memory Combine— Combining Originals into one Print with the Memory Board".

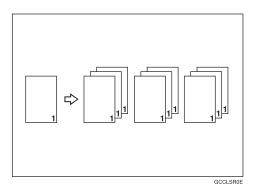




Sorting Prints into Sets

See \Rightarrow P.139 "Sort/Class Sort".





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"% + A1" Paper Misfeed in the Paper Feed Section	
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" ³ √ + C" Paper Misfeed in the Paper Exit Section	
" ⁸ / _r + D" Master Misfeed in the Master Feed Section	
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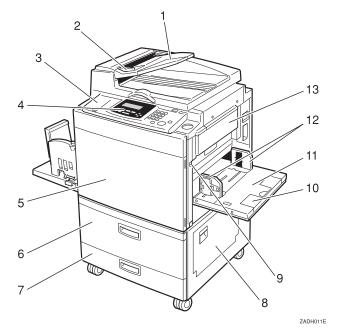
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Machine Exterior



1. Platen cover or document feeder (option)

Lower the platen cover over a single original placed on the exposure glass for copying.

If you have the optional document feeder, insert a stack of originals here. They will be fed automatically.

(The illustration shows the document feeder.)

2. Guide

Prevents originals being fed skewed.

3. Flip up cover

Flip up to access the keys underneath.

4. Operation panel

See \Rightarrow P.6 "Operation Panel".

5. Front door

Open to access the inside of the machine.

6. Tray 1 Set paper here.

7. Tray 2

Set paper here.

8. Right cover

Open to remove jammed paper.

9. External Tray Down key

Press to lower the external tray.

10. Extender

Pull out this extender when setting paper larger than A4 \Box , $8^{1}/_{2}$ " × 11" \Box .

11. External tray

Set paper here.

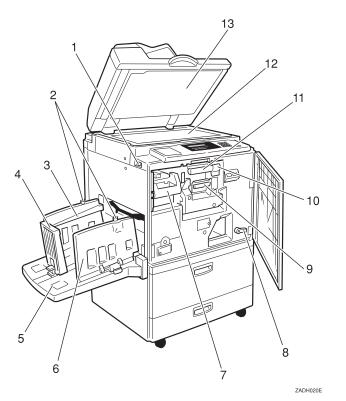
12. Paper feed side plates

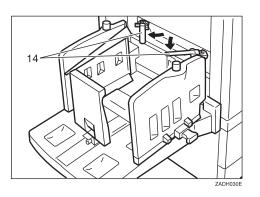
Prevent paper being fed skewed.

13. Master tray

Open this unit when installing the master.

Machine Interior





1. Main switch

Use to turn the power on or off.

2. Paper alignment wing knobs

Use to lift or lower the paper alignment wings.

3. Paper alignment wings

Lift or lower the wings depending on the type of paper being used.

4. Paper delivery end plate

This plate aligns the leading edge of prints.

5. Paper delivery tray

Completed prints are delivered here.

6. Paper delivery side plates

These plates align the prints on the paper delivery tray.

7. Handle E1

Use to pull out the master eject unit.

8. Guide plate lever

Turn to remove misfed paper.

9. Ink holder

Set the ink cartridge in this holder.

10. Drum unit lock lever B1

Lower to unlock and pull out the drum unit.

11. Drum unit

The master is wrapped around this unit.

12. Exposure glass (Contact glass)

Position originals here face down for printing.

13. Platen cover or document feeder (option)

Lower this cover over an original on the exposure glass (contact glass).

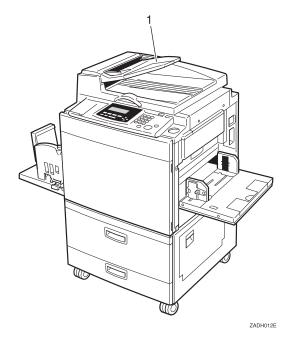
14. Trailing edge guides

Swing out these guides when you use A4, $8^{1}/{_{2}}$ " × 11" \square or B5 \square paper.

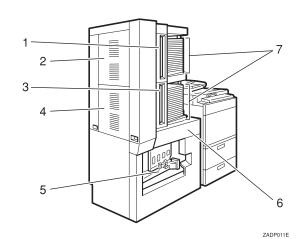
Ruby-gb3_FM.book Page 4 Tuesday, January 25, 2000 3:03 PM

Options

Document feeder



- **1.** Document Feeder
- Sorter



- **1.** Upper tray cover
- **2.** Upper side cover
- **3.** Lower tray cover
- **4.** Lower side cover

- **5.** Paper delivery tray
- **6.** Front cover
- 7. Trays

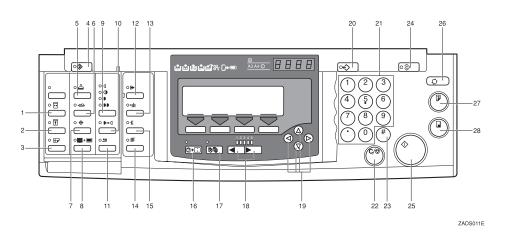
Note

- □ Other options:
 - Color Drums: A3, 11" × 17" drum
 - Color Drums: A4, $8^1/_2$ " × 11" drum

- Key Counter
- Memory Board
- PC Controller

Operation Panel

Keys



1. [Quality Start] key

See \Rightarrow P.84 "Quality Start Mode— Regaining Image Density When Drum Ink Dries".

2. [Security] key

See \Rightarrow P.83 "Security Mode—Printing Confidential Documents".

3. [Skip Feed] key

Press to select skip feed printing. See \Rightarrow P.78 "Skip Feed Printing".

4. [User Tools] key

Press to change the default settings to meet your requirements.

5. [Stamp] key

Press to select the optional Stamp function. See \Rightarrow P.122 "Date Stamp—Having the Date Stamped on Prints", \Rightarrow P.124 "Page Stamp—Having Page Numbers Stamped on Prints", \Rightarrow P.127 "Stamp—Having Preset Messages Stamped on Prints", \Rightarrow P.129 "User Stamp—Having Custom Messages Stamped on Prints".

6. [Make-Up] key

Press to select the optional Make-up function. See \Rightarrow P.112 "*Make-up Printing*".

7. [Overlay] key

Press to select the optional Image Overlay mode. See \Rightarrow P.120 "Image Overlay— Merging Images".

8. [Edge Erase] key

Press to select Edge Erase mode. See ⇒ P.51 *"Edge Erase—Erasing Edge Margins"*.

9. [Image Density] key

Press to make prints darker or lighter. See \Rightarrow P.35 "Adjusting the Image Density of Prints".

10. [Tint] key

Press to reproduce tinted images. See \Rightarrow P.36 "Tint Mode—Halftone Printing".

11. [Economy Mode] key

Press to save ink. See \Rightarrow P.58 "Economy Mode—Saving Ink".

12. [On Line] key

See \Rightarrow P.88 "On Line Printing"

13. [Auto Delivery Adjust] key

Press to adjust the position of the paper delivery end plate and paper delivery side plates.

14. [Job Separator] key

See \Rightarrow P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray".

15. [Sorter] key

Press to select the optional Sort or Class Sort function.

16. [Combine] key

Press to combine originals onto 1 print. See \Rightarrow P.71 "Combine Originals—Combining Originals into one Print", \Rightarrow P.131 "Memory Combine—Combining Originals into one Print with the Memory Board", \Rightarrow P.76 "Auto Combine Mode—Having Images Repeated on one Print".

17. [Class] key

Press to select All Class, Auto Class, Manual Class, or Class mode. See \Rightarrow P.60 "All Class Mode—Making Variable Numbers of Prints from the Same Original Using All Stored Data", \Rightarrow P.62 "Auto Class Mode— Making Variable Numbers of Prints from the Same Original Using Stored Data", \Rightarrow P.65 "Manual Class Mode with one Original—Making Variable Numbers of Prints from the Same Original", \Rightarrow P.67 "Manual Class Mode with 2 or More Originals—Making Variable Numbers of Prints from Different Originals", \Rightarrow P.69 "Class Mode— Making Fixed Numbers of Prints from the Same Original".

18. **[◄] [▶]** keys (Speed keys)

Press to adjust the printing speed. See \Rightarrow P.35 "Adjusting the Image Density of Prints", \Rightarrow P.37 "Changing the Printing Speed".

19. [⊲][▷][△][▽] keys

Press to shift the image forward, backward, right, or left. See \Rightarrow P.34 "*Adjusting the Position of Printed Images*".

Also use to highlight items you wish to select on the panel display.

20. [Program] key

Press to input or recall programs. See \Rightarrow P.80 "Programs—Storing Your Print Settings in Memory".

21. Number keys

Press to enter the desired number of prints and data for selected modes.

22. [Clear/Stop] key

Press to stop printing.

23. **[#]** key

Use to enter data in selected modes.

24. [Clear Modes/Energy Saver] key

Press to clear any previously entered job settings.

25. [Start] key

Press to make a master.

26. [Auto Cycle] key

Use to process the master and make prints in one operation. See \Rightarrow P.59 "*Auto Cycle—Making Master and Prints in one Operation*".

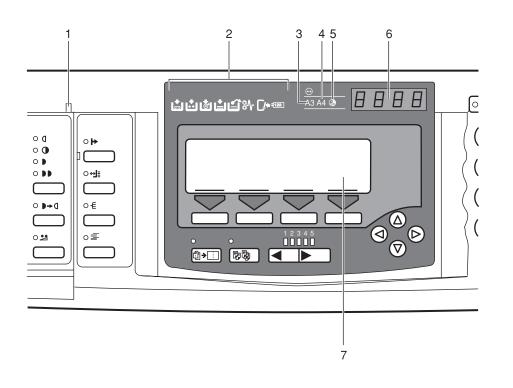
27. [Proof] key

Press to make proof prints.

28. [Print] key

Press to start printing.

Indicators



1. Special feature indicator

Lights to indicate that special features have been selected. To access the special features, lift up the cover on the left side of the operation panel.

2. Monitor indicators

These indicators light to inform you of the status of the machine. See \Rightarrow P.179 "*If Your Machine does not Operate as You Want*".

3. A3/11" × 17" drum indicator

Lights when the A3, $11" \times 17"$ drum unit is installed. See \Rightarrow P.99 "Changing the Drum Size".

4. A4/8¹/₂" × 11" drum indicator

Lights when the A4, $8^{1}/{_{2}}$ " × 11" drum unit is installed. See \Rightarrow P.99 "Changing the Drum Size".

5. Color drum indicator

Lights when the color drum unit is installed. See \Rightarrow P.95 "Color Printing Using the Optional Color Drum".

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6. Counter

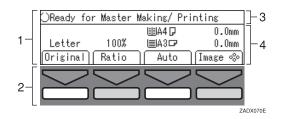
Displays the number of prints entered. While printing, it shows the number of prints remaining.

7. Panel display

See \Rightarrow P.9 "Panel Display".

Panel Display

The panel display shows the machine status, error messages, and function menus.



1. Items for the selected function.

2. These keys correspond to the selectable items shown above them on the panel display. To select an item shown on the panel display, press the key directly below it.

3. Machine status or messages.

4. Items which can be selected.

∰Important

□ Do not apply a strong shock or force of about 30N (about 3kgf) or more to the panel display or it could be damaged.

Note

- □ When you select an item on the panel display, it is highlighted (e.g. Auto). Items shown grayed-out (e.g. ○K) cannot be selected.
- □ Common panel display items:

[OK]	Confirms selection of a function or enters a value.			
[Cancel]	Cancels selection of a function or input of a value an returns to the previous display.			
[Prev.][Next]	When there are too many items to fit on the panel diplay, use these keys to move between pages.			
[⊲][⊳][△][⊽][←][→]	Press to highlight items you wish to select on the panel display.			
[Select]	Selects a value.			
[Exit]	Returns to the previous display.			

Panel Display Layout

The basic elements used on the panel display are shown below. Understanding their meaning helps you exploit this machine's features quickly and easily.

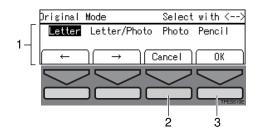
Sample display when selecting the [Original] key

1-BReady for	Master	Making/ Pr	rinting
	100%		0.0mm
2- Original	100% Ratio	Auto	0.0mm Image %
	$\overline{}$		
3			
			ZADX080E

- **1**. Machine status or message.
- **2.** Available functions.

3. Illustrations of displays in this manual show the next key to be pressed whitened out.

E.g. **↓** means "Press the **[Original]** key".



1. Available functions.

2. Cancels the settings and returns to the previous display.

3. Confirms the settings.

1. Operation

Print Paper

The following limitations apply to each tray:

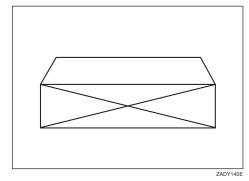
	Paper Size		Paper
	Metric	Inch Weight	Weight
Tray 1	A3 🖸, B4 🖸, A4 🗗 🔽, B5 🗗	$\begin{array}{c} 11" \times 17" \ \square, 8^{1}/{_{2}}" \times 14" \ \square, \\ 8^{1}/{_{2}}" \times 11" \ \square \ \square, 5^{1}/{_{2}}" \times 8^{1}/{_{2}}" \\ \square \ \square \end{array}$	52.3 - 104.7g/m ² , 13.9 - 27.8 lb
Tray 2	A3 🗗, B4 🖵, A4 🖵 💭, B5 🖵	$\begin{array}{c} 11" \times 17" \ \square, 8^{1}/{_{2}}" \times 14" \ \square, \\ 8^{1}/{_{2}}" \times 11" \ \square \ \square, 5^{1}/{_{2}}" \times 8^{1}/{_{2}}" \\ \square \ \square \end{array}$	52.3 - 104.7g/m ² , 13.9 - 27.8 lb
Exter- nal tray	A3 , B4 , A4 , A4 , B5 , B5 , A5 , A5 , B6 , A6 , Others (Vertical: 70 - 297mm, Horizontal: 148 - 432mm)	11" × 17" \square , 8 ¹ / ₂ " × 14" \square , 8 ¹ / ₂ " × 11" \square \square , 5 ¹ / ₂ " × 8 ¹ / ₂ " \square \square , Others (Vertical: 2.76" - 11.7", Horizontal: 5.83" - 17")	47.1 - 209.3g/m², 12.5 - 55.6 lb

Non-recommended paper:

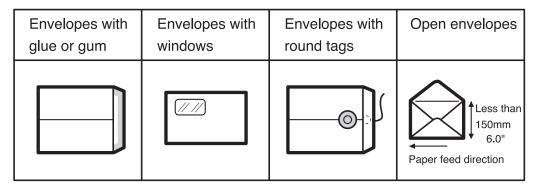
- Roughly cut paper
- Paper of different thickness in the same stack
- Envelopes heavier than 85g/m², 22 lb.
- Folded, curled, creased, or damaged paper
- Torn paper
- Slippery paper
- Rough paper
- Paper with any kind of coating (such as carbon)
- Short grain paper
- Thin paper that has low stiffness
- Paper that is prone to generate a lot of paper dust
- Grained paper loaded with the direction of the grain perpendicular to the feed direction

Operation

• Certain types of long thin envelopes e.g. international mail envelopes



• The following types of envelopes:



If you make a print on rough grain paper, the copy image might be blurred.

You can use A3 (297 × 420mm) or 11" × 17" originals or printing paper. When you want to print the entire image of an A3, 11" × 17" original, select Reduce mode because the maximum print areas are as follows:

- Metric version: 290 × 409mm, 11.4" × 16.1"
- Inch version: 290 × 419mm, 11.4" × 16.4"

When you use A3, $11" \times 17"$ and $209.3g/m^2$, 55.6 lb paper, slow the printing speed down to setting 1, 2, or 3.

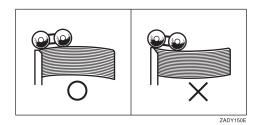
∰Important

12

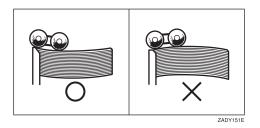
Correct curls in the paper before setting it in the machine. When you cannot correct the paper curl, stack the paper with the curl face down or face up as shown in the illustration. If paper is curled, it might wrap around the drum or stains might appear.

f

♦ When setting paper in tray 1/2, or setting thin paper in the external tray



When setting thick paper in the external tray



Do not store paper where it will be exposed to heat or direct sunlight. Store on a flat surface.

Store paper where it will not curl or absorb moisture. Use paper soon after it is unpacked.

Only use paper where the leading edge has two right angle corners.

Operation

Originals

The machine can detect the following sizes of original set on the exposure glass (contact glass):

Metric version	A3, B4, A4, A4, B5, C
Inch version	$11" \times 17"$, $8^{1}/_{2}" \times 14"$, $8^{1}/_{2}" \times 11"$

If the machine cannot detect the original size properly, select the area to copy with the **[Edge Erase]** key. See \Rightarrow P.51 *"Edge Erase—Erasing Edge Margins"*. The machine may not detect the original size properly when:

- Originals contain index tabs.
- Originals are OHP transparencies or are translucent.
- Originals are dark.
- Originals contain solid images.
- Originals are of sizes other those listed above.

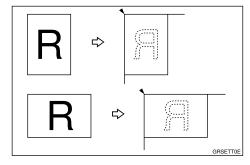
If you do not lift the platen cover more than 30cm, 12" when you set another original, the machine might not detect the next original size correctly.

The maximum original size you can set on the exposure glass (contact glass) is 304.8×432 mm, $12" \times 17"$.

If you use originals that have bold letters or solid images at the leading edges, you might get prints with dirty edges. In this case, set the original face down with the widest margin toward the paper delivery tray or raise the printing speed.

Set originals after correction fluid and ink have completely dried. Not taking this precaution could mark the exposure glass (contact glass) and cause marks to be printed.

In most situations, set originals as shown below.



When you have an optional memory board and the original is set in a different direction from the print paper, the machine automatically rotates the original image by 90° to match the print paper direction.

The first 10mm, 0.4", of the leading edge and the last 2mm, 0.08", of the trailing edge cannot be printed. Make sure the leading edge margin is at least 10mm, 0.4", and the trailing edge margin is at least 2mm, 0.08".

Original	Print
	a

a = 10mm, 0.4"

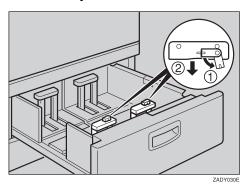
Operation

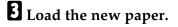
Changing the Paper Size

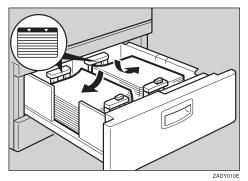
See \Rightarrow P.11 "*Print Paper*" for sizes of paper you can load.

Changing the Paper Size in Tray 1

- Slide out tray 1 and remove any remaining paper.
- **2** Turn the side fence lock levers counterclockwise then slide both fences fully out.

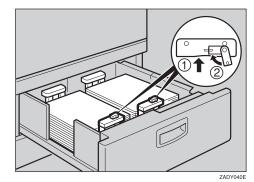






🖉 Note

- □ Make sure the right paper stack fits snugly against the right side of the tray, and that the left stack fits snugly against the left side of the tray as shown in the illustration.
- □ Make sure that the top of the stack does not exceed the limit mark on the side fence.
- □ Load paper with the side to be printed on facing down.
- 4 Slide in both side fences to match the paper size, then turn both side fence lock levers clockwise.



5 Slide the tray back in.

🖉 Note

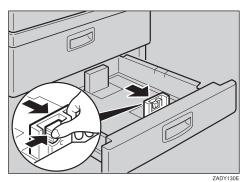
Make sure that the size and direction of paper you have loaded match that shown on the panel display.

1

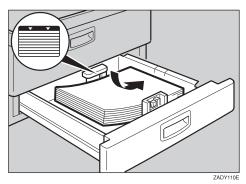
Changing the Paper Size

Changing the Paper Size in Tray 2

- Slide out tray 2 and remove any remaining paper.
- **2** While squeezing in the side fence release lever, slide the fence fully out.



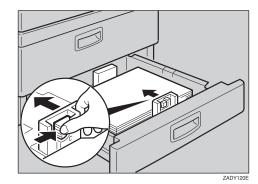
1 Load the new paper.



🖉 Note

- Make sure the paper stack fits snugly against the right side of the tray.
- □ Make sure that the top of the stack does not exceed the limit mark on the side fence.
- □ Load paper with the side to be printed on facing down.

While squeezing in the side fence release lever, slide in the fence to match the paper size.



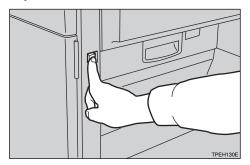
5 Slide the tray back in.

🖉 Note

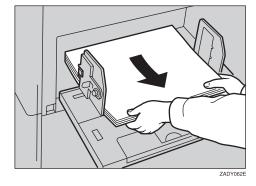
Make sure that the size and direction of paper you have loaded match that shown on the panel display.

Changing the Paper Size in the External Tray

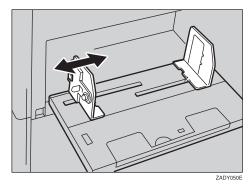
Press the External Tray Down key.



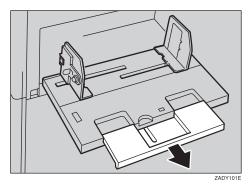
2 Remove any remaining paper.



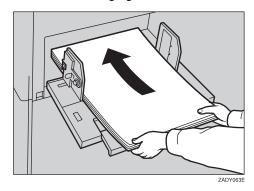
3 Slide the paper feed side plates to the appropriate position on the scale.



When loading paper larger than A4□, 8¹/₂"×11"□, slide out the extender.

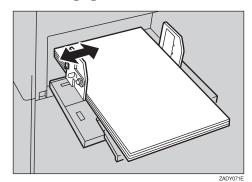


5 Load the new paper.



Note

- □ Load paper with the side to be printed on facing up.
- **6** Make sure that the paper feed side plates make light contact with the paper.



Note

Make sure that the size and direction of paper you have loaded match that shown on the panel display.



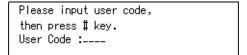
Entering a User Code to Use the Machine

If user codes are turned on, operators must input their user code before they can use the machine. The machine keeps count of the number of copies made under each user code.

Note 🖉

- □ If you want to use this feature, you must turn it on and register the user codes with the user tools. You can register up to 20 user codes. See "Set User Code" and "Reg. User Code" ⇒ P.160 "6. Set User Code(s)".
- When user codes are turned on, the machine will prompt you for your user code when you turn on the main switch or after the machine has been reset.

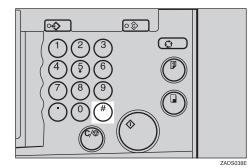
Input your 4–digit user code with the Number keys.



Solution Note

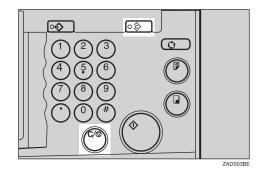
- User codes are not displayed on the panel display.
- □ To change the number entered, press the **[Clear/Stop]** key and enter the new number.

2 Press the **[#]** key.



B Make your prints.

To prevent others from making prints with your user code, hold down the [Clear Modes/Energy Saver] key, then press the [Clear/Stop] key.



F

Standard Printing

1 Make sure that the machine is ready for printing.

OReady for	r Master	Making/ Pri	inting
		🖽 A 4 🖓	0.0mm
Letter	100%	I≣IA3⊄	0.0mm
Original	Ratio	Auto	Image 👳

If user codes are turned on, enter your user code with the Number keys then press the [#] key.

PReference

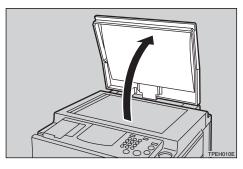
See \Rightarrow P.19 "Entering a User Code to Use the Machine"

3 Make sure that there are no previous settings remaining.

🖉 Note

□ To clear any previous settings, press the **[Clear Modes/Energy Saver]** key.

4 Lift the platen cover.

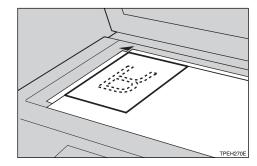


🖉 Note

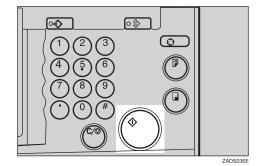
20

□ Be sure to lift the platen cover more than 30cm, 12".

5 Set the original face down on the exposure glass (contact glass). The original should be aligned to the rear left corner.

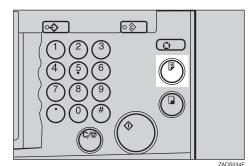


- **6** Lower the platen cover.
- **2** Set your desired settings.
- 8 Press the [Start] key.



A trial print is delivered to the paper delivery tray.

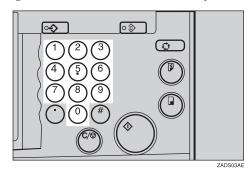
Press the [Proof] key and check the image density and the image position of the proof print.



Standard Printing

🖉 Note

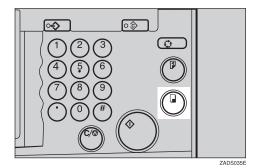
- □ If the image position is not correct, adjust it using the [Image %] key. See ⇒ P.34 "Adjusting the Position of Printed Images".
- □ If the image density is slightly dark or light, adjust the image density using the [◄][►] keys. See ⇒ P.35 "Adjusting the Image Density of Prints".
- Enter the number of prints required with the Number keys.



🔗 Note

□ To change the number entered, press the **[Clear/Stop]** key and enter the new number.

Press the [Print] key.

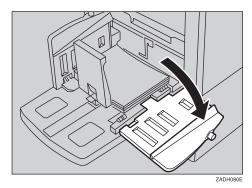


🖉 Note

- □ To stop the machine during a multi-print run, press the 【Clear/Stop】 key.
- □ To return the machine to the initial condition after printing, press the **[Clear Modes/Energy Saver]** key.

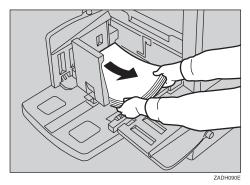
Removing Prints

1 Pull the front paper delivery side plate down towards you to open it.



🖉 Note

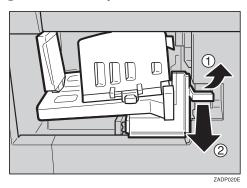
- □ You cannot open the rear paper delivery side plate.
- **2** Remove the prints from the paper delivery tray and close the paper delivery side plate.



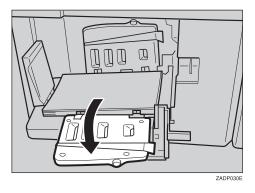
When your machine is equipped with the optional sorter

1

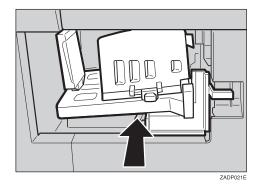
1 Lift the lever and slide out the paper deliver tray.



2 Pull the front paper delivery side plate down towards you to open it, then remove the prints.



3 Slide in the paper delivery tray.



Energy Saver Mode — Saving Energy

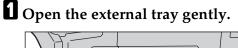
Energy Saver Mode — Saving Energy

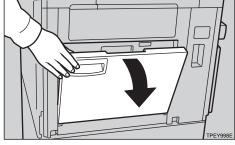
If you do not operate the machine for a certain period after printing, or when you press and hold the **[Clear Modes/Energy Saver]** key for more than one second, the panel display turns off and the machine enters Energy Saver mode. When you press the **[Clear Modes/Energy Saver]** key again, the machine returns to the ready condition. In Energy Saver mode, the machine uses less electricity.

See "Energy Saving" \Rightarrow P.147 "1. System".

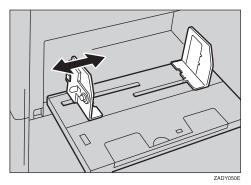
Printing from the External Tray

Use the external tray to make prints on custom size paper, thick paper, envelopes, and paper that does not fit in tray 1 or tray 2.



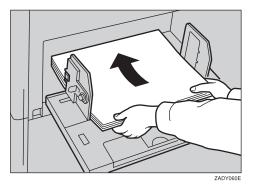


2 Move the paper feed side plates to the appropriate position on the scale.



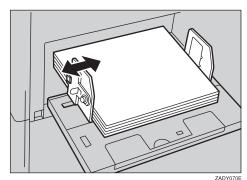
🔗 Note

□ Adjust the paper feed side plates in the same way when changing the paper size. See ⇒ P.16 "Changing the Paper Size". **3** Load paper in the external tray.



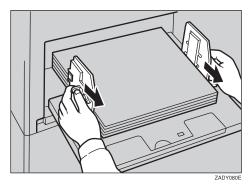
🖉 Note

- □ Correct any paper curl before loading it.
- Make sure that the paper feed side plates make light contact with the paper.



Printing onto thin paper

● When you make prints on thin (47.1g/m², 12.5 lb or lighter) paper, move the side pad levers so that the side pads make light contact with the paper.

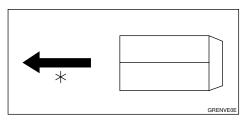


✓ Reference

See \Rightarrow P.52 "Printing onto Various Kinds of Paper".

Printing onto envelopes

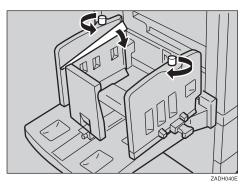
• Set envelopes open and with the opening as the trailing edge relative to the feed direction.



*: Paper feed direction

Printing onto thick paper

Turn the left and right knobs to lower the paper alignment wings.



🔗 Note

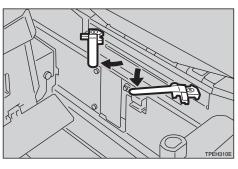
- □ The left and right paper alignment wings are used to align prints when printing onto thin paper. Before printing onto paper heavier than 81.4g/m², 21.6 lb, lower the wings.
- □ Lift the paper alignment wings when B5□ prints are curled.

		Paper	size
		B5 or small- er	A4, $8^{1}/2^{\prime\prime}$ $\times 11^{\prime\prime}$ or larger
nt	81.4g/m ² , 21.6 lb or lighter	wings low- ered	wings lifted
Paper weight	heavier than 81.4g/m ² , 21.6 lb	wings l ered	low-

- When the wings are up, depending on the paper you are using you might not be able to load the tray to full capacity (1,000 sheets).
- □ When you make prints on thin paper at high speed, delivery misfeeds (%r+C indicator) might occur. If this happens, do the following:
 - Reduce the print speed. See ⇒ P.37 "Changing the Printing Speed".
 - Lower the paper alignment wings.
 - Adjust the paper delivery end plate.

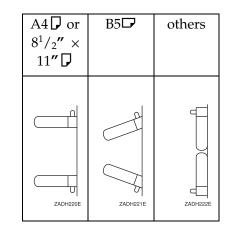
Printing onto A4 \Box , $8^{1/2}$ × 11" \Box , B5 \Box paper

● Before printing onto A4 , 8¹/₂" × 11" , or B5 with a thinness of 81.4g/m², 21.6 lb or less, swing out the trailing edge guides.



🖉 Note

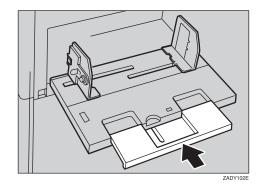
□ The direction to swing out the trailing edge guides for each paper is shown in the illustration.



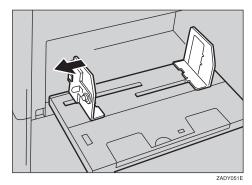
Closing the External Tray

Close the external tray after using it.

1 Slide in the extender if it is out.



2 Move the paper feed side plates to their maximum width.

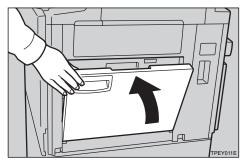


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Printing from the External Tray

1

3 Close the external tray.





Paper Delivery Tray Position

For standard paper sizes, the machine automatically adjusts the paper delivery tray position to suit the size of prints.

However, before printing onto custom size paper you need to select the position manually using the procedure below.

If you frequently use certain custom paper sizes, you can register up to 5 sizes beforehand and recall them whenever you wish. See \Rightarrow P.29 "*Registering a Custom Position*" and \Rightarrow P.30 "*Recalling a Custom Position*".

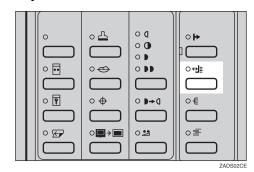
Note 🖉

28

- Registered paper sizes are not deleted even if the main switch is turned off or the [Clear Modes/Energy Saver] key is pressed.
- You cannot modify registered custom paper sizes. To modify a registered size, register it again.
- By default the Auto Delivery Adjust function is turned on (the Auto Delivery Adjust indicator is lit).
- □ If you specify a paper size smaller than the actual size of the paper, a paper misfeed will occur.

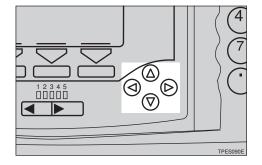
Selecting the Paper Delivery Tray Position

Press the [Auto Delivery Adjust] key.



🖉 Note

- □ Make sure the **Auto Delivery Adjust** indicator turns off.
- 2 Select the paper length with [△]
 [▽], and the width with [⊲] [▷].



Delivery	Tray	Adjust	ment.	Select	with	n %
				1	297	mm
				<i>←</i>	420	mm
Recall) [St	tore			End	\square

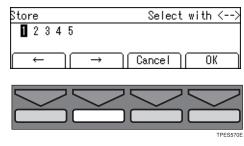
Paper Delivery Tray Position

29

Press the [OK] key. **2** Select the paper length with $[^{\triangle}]$ $[\nabla]$, and width with $[\triangleleft] [\triangleright]$. Delivery Tray Adjustment Select with 🍣 ↑ 297 mm ← 428 mm Cancel OK \bigcirc $\overline{\texttt{A}}$ \bigcirc $\begin{array}{c}1&2&3&4&5\\0&0&0&0\\0&0&0&0\end{array}$ ๎๗ TPES560E Press the [End] key. TPES090E Delivery Tray Adjustment Select with 🍣 Delivery Tray Adjustment Select with 👒 297 mm î ↑ 297 mm 428 mm ← 420 mm) Store Recall End Recall Store End **B** Press the [OK] key. Delivery Tray Adjustment Select with 棇 ↑ 297 mm ← 428 mm Cancel OK **Registering a Custom Position** Press the [Auto Delivery Adjust] key. TPESS Press the [Store] key. 0 **0** ∘⊭ 0 🛈 C Г Delivery Tray Adjustment Select with 棇 0 🕽 0 💀 00 0 ... 0⇔∎ 297 mm î. \square \square ← 428 mm o 🖣 0 ⊕ o ∎→0 Recall Store o€ End С 03 ₀≣ 0 🖅 ○■→■ Г ZADS02CE

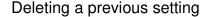
- 🖉 Note
- □ Make sure the **Auto Delivery Adjust** indicator turns off.

Select the custom position number (1-5) with the [→] or [▷] key then press the [OK] key.



🖉 Note

You can also enter the number by with the Number keys.

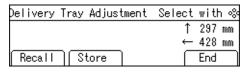


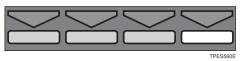
● If you wish to delete the paper size that has been already registered, press [Yes]. If not, press [No].

Are you sure you want to overwrite the stored program? No Yes

6 Press the [End] key.

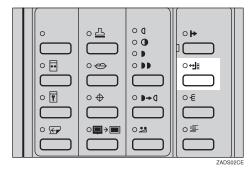
30





Recalling a Custom Position

Press the [Auto Delivery Adjust] key.



Note

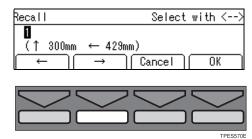
□ Make sure the **Auto Delivery Adjust** indicator turns off.

Press the [Recall] key.





Select the custom position number (1-5) you want to recall with the [→] or [▷] key.



🔗 Note

- □ You can also enter the number with the Number keys.
- Press the [OK] key.

۲

5 Press the [End] key.

Delivery Tray Adjustment	Select with 💖
	1 297 mm
	← 428 mm
Recall Store	End End
	\leq

TPES560E



Selecting Print Paper

Two methods are available:

Auto Paper Select

The machine chooses a paper tray loaded with paper of the suitable size based upon the detected size of the original set, and the selected magnification.

Manual Paper Select

The operator chooses the tray or external tray loaded with the paper they wish to print onto.

P Reference

See \Rightarrow P.24 "Printing from the External Tray"

🖉 Note

When you use Auto Paper Select, refer to the following table for possible copy paper sizes and directions. (if the ratio is 100%)

Metric version

Where origi- nal is set	Paper size and di- rection
Exposure glass	A3, B4, B4, A4, B5, B5, C
Document feeder	A3, B4, B4, A4, B5, B5, C

Inch version

Where origi- nal is set	Paper size and di- rection
Exposure glass	$\begin{array}{c} 11"\times 17" \square, 8^{1}/_{2}"\times \\ 14" \square, , 8^{1}/_{2}"\times \\ 11" \square \square \end{array}$
Document feeder	A4 \Box \Box , 11" × 17" \Box , 8 ¹ / ₂ " × 14" \Box , 8 ¹ / ₂ " × 11" \Box \Box , 5 ¹ / ₂ " × 8 ¹ / ₂ " \Box \Box

- □ An unsuitable paper size and direction might be selected for some kinds of original. See ⇒ P.14 "Originals".
- □ When the same size paper is loaded in the trays and external tray and paper runs out during a print run, the machine automatically continues printing using paper from another tray. This is referred to as "Limitless Feeding". Printing will not be interrupted when replenishing paper during a long print run. See \Rightarrow P.152 "4. Mode Setting".
- When printing on paper from the external tray with the "Tray Display" function set to "Two Trays", Limitless Feeding is deactivated.

Auto Paper Select

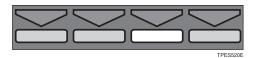
Make sure [Auto] is displayed.

OReady fo	r Master	Making/ Pri	nting
		🖽 A 4 🕞	0.Omm
Letter	100%	≣A3⊄	0.Omm
Original	Ratio	Auto	Image 📀

If [Auto] is not displayed

Press the [Ppr.Size] key.

OReady for	[.] Master	Making/ Prim	nting
		🖽 🗛 🖓	0.Omm
Letter	100%	I≣IA3⊄	0.0mm
Original	Ratio	Ppr.Size	Image ᅇ



Selecting Print Paper

Select [Auto] using the [←] [→] or [<] [▷] keys, then press the [OK] key.

Solution Note

- □ The message on the panel display differs according to the "Tray Display" setting. See ⇒ P.152 "4. Mode Setting".
 - When "2 Trays" is selected

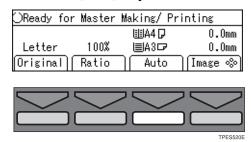
Paper Si	ize	Select with 🍕
Auto	Tray1	Tray2
	🕮 A 4 🕞	I≣IA3⊡
←		Cancel OK

• When "2 Trays + External Tray" is selected

Paper S	ize		Select with 💖
Auto	Tray1	Tray2	External Tray
	🖽 A 4 🖓	I≣IA3⊄	I≣A4⊡7
(←	→	Can	cel OK

Manual Paper Select

Press the [Auto] key.



Select tray 1, tray 2 or the external tray using the [←] [→] or [<] [▷] keys, then press the [OK] key.</p>

🖉 Note

□ The message on the panel display differs according to the "Tray Display" setting. See ⇒ P.152 "4. Mode Setting".

• When "2 Trays" is selected

^p aper Si	ize		Select	: with	%
Auto	Tray1 ⊞A4₽	Tray2 ≣A3⊡			
←		Cai	ncel	OK	

• When "2 Trays + External Tray" is selected

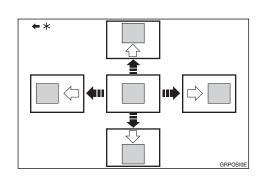
Paper S	ize		Select with 🍣
Auto	Trayl	Tray2	External Tray
	🖽 A 4 🖓	≣A3⊄	I≡A4⊡
←	$\neg \neg$	Cani	cel OK

F

Adjusting the Position of Printed Images

1

Use the following procedure to adjust the position of print image as required.



*: Paper feed direction

Note 🖉

□ When the main switch is turned off, the position returns to the default.

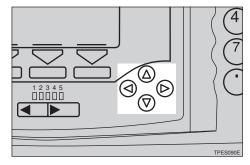
Press the [lmage %] key.

OReady for	^r Master	Making/ Pri	nting
		🏥 A 4 🖓	0.0mm
Letter	100%	≣A3⊄	0.0mm
Original	Ratio	Auto	Image ᅇ



🖉 Note

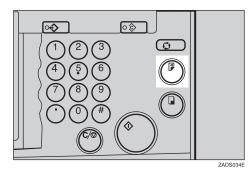
□ You can skip step **1** and adjust the image position directly by pressing the [<], [▷], [△], and [Adjust image position using the $[\triangleleft], [\triangleright], [\triangle], and [\nabla]$ keys.



🖉 Note

- When you shift the image forwards, leave a 10mm, 0.4" margin at the leading edge. If there is no margin, paper might wrap around the drum and cause a misfeed.
- □ The [<] and [▷] keys shift the image up to 15mm, 0.6" each way in 0.5mm, 0.02" steps.
- □ The [△] and [▽] keys shift the image up to 10mm, 0.4" each way in 0.5mm, 0.02" steps.
- Press the [OK] key.

Press the **[Proof]** key to check the image position.



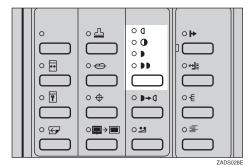
Adjusting the Image Density of Prints

There are two ways to adjust the image density of prints:

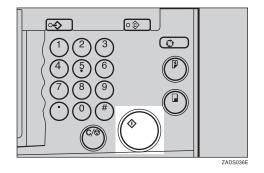
- Before making a master Use the [Image Density] key.
- ♦ After making a master Use the [◄][►] (Speed) keys.

Before Making a Master

Press the [Image Density] key to adjust the image density.

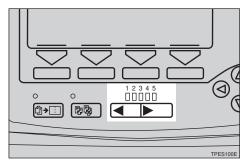


2 Press the **[Start]** key.



After Making a Master

1 To increase the image density, press the [◄] key. To reduce the image density, press the [▶] key.

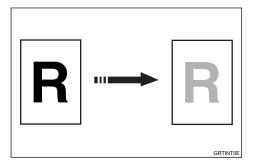


Solution Note

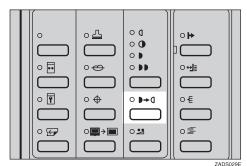
The faster the printing speed becomes, the lighter the printing density is. If you want darker prints, decrease the printing speed.



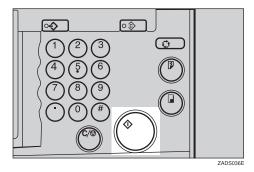
Use this function to make halftone prints.



Press the [Tint] key.



2 Press the [Start] key.

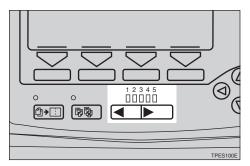


1

Changing the Printing Speed

Use the **[**] or **[**] key to adjust the printing speed. The relationship between printing speed and print quality depends on the type of paper you use.

Press the [▶] key to increase the speed and press the [▲] key to reduce the speed.



Solution Note

The following speeds are available:

- Setting 1: 60 sheets/minute
- Setting 2: 75 sheets/minute
- Setting 3 (default): 90 sheets/minute
- Setting 4: 105 sheets/minute
- Setting 5: 120 sheets/minute
- □ The faster the printing speed becomes, the lighter the printing density is, and vice versa.
- When the machine is used in low temperature conditions, the image density might decrease. In this case, slow the printing speed down to setting 1 or 2.

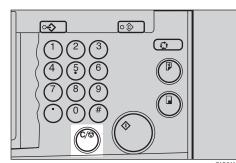
Stopping a Multi-print Run

1

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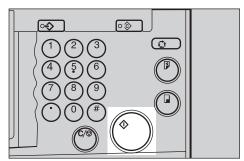
Stopping a Multi-print Run to Print Another Original

Press the [Clear/Stop] key.



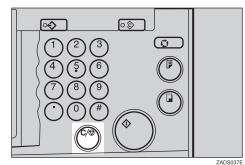
2 Set the original.

Enter the number of prints and press the [Start] key.



Changing the Number of Prints Entered and Checking Completed Prints

Press the [Clear/Stop] key.

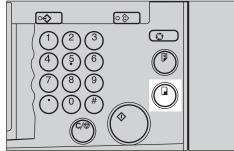


2 Change the number of prints or check the completed prints.

🖉 Note

□ To change the number of prints, press the **[Clear/Stop]** key then re-enter the number of prints with the Number keys.

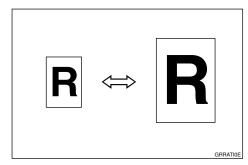
Press the [Print] key.



ZADS035E

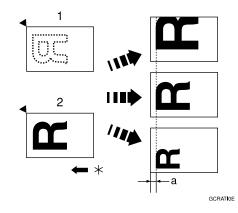
Preset Reduce/Enlarge—Reducing and Enlarging Using Preset Ratios

Use this function to have originals reduced or enlarged by a preset ratio. A total of 7 ratios are available (3 enlargement ratios, 4 reduction ratios).



🖉 Note

The leading edge of the print image does not shift when a print image is made with this function.



- 1: Set on the exposure glass (contact glass)
- 2: Set in the optional document feeder
- *: Paper feed direction
- a = 10mm, 0.4"
- You can select a ratio regardless of the size of an original or printing paper. With some ratios, parts of the image might not be printed or margins will appear on prints.

- □ You can change the preset reproduction ratios with the user tools.
 See "Reproduction Ratio" ⇒ P.162
 "3-4 Reproduction Ratio".
- Prints can be reduced or enlarged as follows:

Metric version

Ratio (%)	Original \rightarrow Print paper size
141	$\begin{array}{c} A4 \rightarrow A3, A5 \rightarrow A4, B5 \rightarrow \\ B4, B6 \rightarrow B5 \end{array}$
122	$A4 \rightarrow B4, A5 \rightarrow B5$
115	$B4 \rightarrow A3, B5 \rightarrow A4, B6 \rightarrow A5$
93	—
87	$A3 \rightarrow B4, A4 \rightarrow B5$
82	$B4 \rightarrow A4, B5 \rightarrow A5$
71	$A3 \rightarrow A4, A4 \rightarrow A5, B4 \rightarrow B5$

Inch version

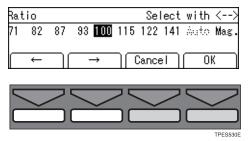
Ratio (%)	Original \rightarrow Print paper size
155	$5^{1}/_{2}$ " × $8^{1}/_{2}$ " → $8^{1}/_{2}$ " × 14"
129	$8^{1}/_{2}" \times 11" \to 11" \times 17",$ $5^{1}/_{2}" \times 8^{1}/_{2}" \to 8^{1}/_{2}" \times 11"$
121	$8^{1}/_{2}"\times14"\rightarrow11"\times17"$
93	_
77	$8^{1}/_{2}$ " × 14" → $8^{1}/_{2}$ " × 11"
74	$11"\times15"\rightarrow8~^{1}/_{2}"\times11"$
65	$\begin{array}{c} 11" \times 17" \rightarrow 8 \ ^{1}/_{2}" \times 11", \\ 8 \ ^{1}/_{2}" \times 11" \rightarrow 5 \ ^{1}/_{2}" \times 8 \ ^{1}/_{2}" \end{array}$

Press the [Ratio] key.

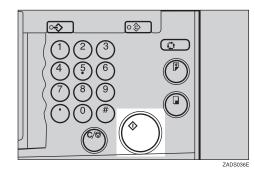
OReady for	Master	Making/ Pri	inting
		🖽 A 4 🖓	0.Omm
Letter	100%	I≣IA3⊡	0.Omm
Original	Ratio	Auto	Image %







- Press the [OK] key.
- A Make sure that the original and the print paper are the correct size.
- **5** Set your original on the exposure glass (contact glass) or in the optional document feeder.
- **6** Press the **[Start]** key.



2 Check the image position of the trial or proof print.

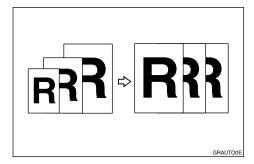
🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

8 Make your prints.

Auto Magnification—Having the Machine Choose Reproduction Ratios

Use this function to have the machine can choose an appropriate enlargement or reduction ratio based on the size of your original and the paper size you select.



Note 🖉

- □ The range of ratios from which the machine can select depends on where you set the original:
 - On the exposure glass (contact glass): 50 200%
 - In the optional document feeder: 50 155%
- □ The table below shows the reproduction ratios that can be selected for various combinations of original and paper size.

Original	A3D	Β4₽	A4D	A4 🖵	B5 □	B5 🖵	A5🖵 *2	A5 🖓 *2
Paper								
A3D	100%	115%	141%		163%			
Β4□	87%	100%	122%		141%			
A4D	71%	82%	100%	100% *1	115%	115% *1	141%	141% *1
A4	71% ^{*1}	82% *1	100% *1	100%	115% *1	115%	141% ^{*1}	141%
B5 □	61%	71%	87%	87% *1	100%	100% *1	122%	122% *1
B5 🖵	61% ^{*1}	71% *1	87% *1	87%	100% *1	100%	122% *1	122%
A5 D	50%	50%	71%	71% *1	82%	82% *1	100%	100% *1
B6 □		50%	61%	61% *1	71%	71% *1	87%	87% *1

Metric version

^{*1} When your machine is equipped with the optional memory board, the machine automatically rotates the original image by 90° to match the paper direction and selects an appropriate reproduction ratio. See ⇒ P.100 *"Image Rotation—Rotating Original Images"*.

^{*2} Set these originals in the optional document feeder.



Inch version

Original Paper	11"× 17" □	$8^{1}/_{2}"\times 14"\Box$	$8^{1}/_{2}"\times 11"\Box$	$8^{1}/_{2}"\times 11" \square$	$8^{1/2''} \times 5^{1/2''}$	$8^{1/_{2}} \times 5^{1/_{2}}$ "
11"× 17" □	100%	121%	129%		200%	
$8^{1}/_{2}"\times 14"\Box$	77%	100%			155%	
$8^{1}/_{2}"\times 11"\Box$	65%	77%	100%	100% *1	129%	129% *1
$8^{1}/_{2}"\times 11"\square$	65% *1	77% *1	100% *1	100%	129% *1	129%
$\frac{8^{1}/_{2}}{5^{1}/_{2}} \Sigma$	50%	61%	65%	65% ^{*1}	100%	100% *1

*1 When your machine is equipped with the optional memory board, the machine automatically rotates the original image by 90° to match the paper direction and selects an appropriate reproduction ratio. See ⇒ P.100 "Image Rotation—Rotating Original Images".

^{*2} Set these originals in the optional document feeder.

□ Depending on the original type, a suitable reproduction ratio might not be able to be selected. See \Rightarrow P.14 "Originals" and \Rightarrow P.89 "Originals".

Press the [Auto] key.



2 Select the paper tray by pressing the $[\rightarrow]$ or $[\triangleright]$ key.

Paper S	ize	S	elect	with	%
Auto	Tray1	Tray2			
		I≣A3⊡ Cance		OK	_
<u> </u>			'	UN	
\geq	$\leq \sum$	$\leq \sum$	$\leq >$	\searrow	\leq
ſ		11	- III		

Press the [OK] key.

42

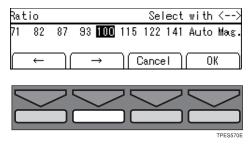
I.

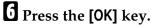
Auto Magnification—Having the Machine Choose Reproduction Ratios

4 Press the [Ratio] key.

OReady for Master Making/ Printing □A4 □ 0.0mm Letter 100% ■A3 □ 0.0mm Original Ratio Ppr.Size Image ∞

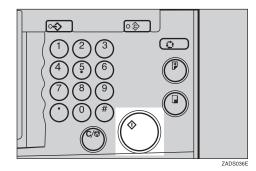
5 Select [Auto] with the $[\rightarrow]$ or $[\triangleright]$ key.





2 Set your original on the exposure glass (contact glass) or in the optional document feeder.

8 Press the [Start] key.



Check the image position of the trial or proof print.

🖉 Note

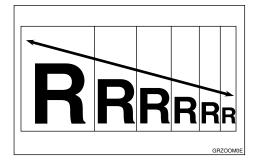
□ If the image position is not correct, adjust it using the **[Image ☆]** keys (See ⇒ P.34 "Adjusting the Position of Printed Images").

1 Make your prints.

Zoom—Reducing and Enlarging in 1% Steps



Use this function to fine-tune the reproduction ratio in 1% steps.

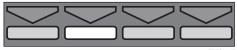


Note 🖉

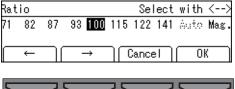
- □ The range in which you can select a ratio depends on where you set the original:
 - On the exposure glass (contact glass): 50–200%
 - In the optional document feeder: 50–155%

Press the [Ratio] key.





2 Select [Mag.] with the $[\rightarrow]$ or $[\triangleright]$ key.



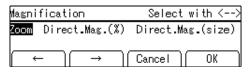


🖉 Note

□ To select a custom ratio, select the closest ratio with the [←]
 [→] or [⊲] [▷] keys. Then press the [△] or [▽] key and go to step **G**.

Press the [OK] key.

4 Make sure that [Zoom] is selected.



5 Press the [OK] key.

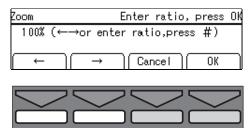
6 Select the desired reproduction ratio in one of the following ways:

Note 🖉

□ To change the value entered, press the **[Clear/Stop]** key and enter the new value.

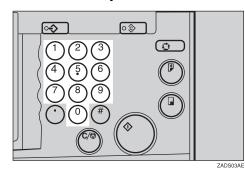
Using the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys

● Adjust the ratio with the [←] [→] or [\triangleleft] [\triangleright] keys.

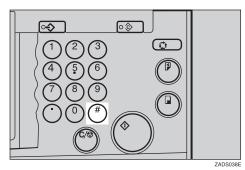


Using the Number keys

• Enter the ratio with the Number keys.



2 Press the **[#]** key.

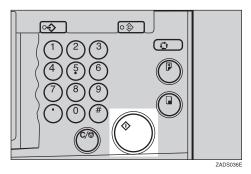


Press the [OK] key.

B Make sure that the original and the print paper are the correct size.

Set your original on the exposure glass (contact glass) or in the optional document feeder.

Press the [Start] key.



Check the image position of the trial or proof print.

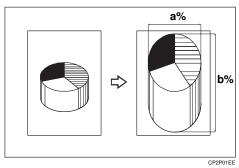
🖉 Note

1 Make your prints.

Directional Magnification (%)—Stretching and Squeezing the Image in 1% Steps

1

Use this function to choose different reproduction ratios for the horizontal and vertical directions. The result is a squeezing or stretching effect.



Solution Note

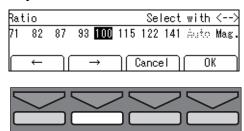
- □ The range in which you can select ratios depends on where you set the original:
 - On the exposure glass (contact glass): 50 200%
 - In the optional document feeder: 50 – 155%

Press the [Ratio] key.



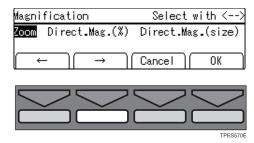


2 Select [Mag.] with the $[\rightarrow]$ or $[\triangleright]$ key.



Press the [OK] key.

Select [Direct.Mag.(%)] with the $[\rightarrow]$ or $[\triangleright]$ key.



- **5** Press the [OK] key.
- **6** Enter the vertical and horizontal ratio.

Direct. Mag	ζ.	Enter	ratio,	press	OK
\$V.100%	(←→or e	enter i	ratio,p	ress #	;)
↔H.100%					
(→)	\rightarrow) Car	ncel][OK	

Note 🖉

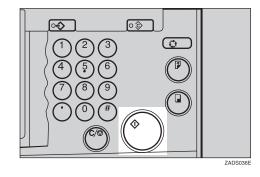
□ To change the value entered, press the **[Clear/Stop]** key and enter the new value.

Adjusting ratios with the [\leftarrow] [\rightarrow] or [\triangleleft] [\triangleright] keys

- Adjust the vertical ratio with the [←] [→] or [<] [▷] keys.</p>
- **2** Press the ∇ key.
- ③ Adjust the horizontal ratio with the [←] [→] or [⊲] [▷] keys.

Entering ratios with the Number keys

- Enter the vertical ratio with the Number keys.
- **2** Press the **[#]** key.
- **3** Enter the horizontal ratio with the Number keys.
- **4** Press the **[#]** key.
- **2** Press the [OK] key.
- Make sure that the original and the print paper are the correct size.
- Set your original on the exposure glass (contact glass) or in the optional document feeder.
- Press the [Start] key.



Check the image position of the trial or proof print.

🖉 Note

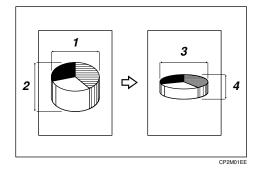
□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

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1 Make your prints.

Directional Magnification (Size)— Stretching and Squeezing the Image into the Copy Area

Use this function to have the machine select suitable reproduction ratios based upon the dimensions of the print you require, and the size of the original you specify.



- 1: Horizontal original size
- 2: Vertical original size
- 3: Horizontal print size
- 4: Vertical print size

Note 🖉

You can enter the sizes within the following ranges:

Metric ver-	1 - 999mm (in 1mm
sion	steps)
Inch ver-	0.1" - 99.9" (in 0.1"
sion	steps)

- The range of ratios from which the machine can select depends on where you set the original:
 - On the exposure glass (contact glass): 50-200%
 - In the optional document feeder: 50–155%

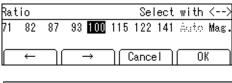
If the calculated ratio is over the maximum or under the minimum ratio, it is corrected within the range of the ratio automatically.

Press the [Ratio] key.

OReady for	Master	Making/ Pri	inting
		🏥 A 4 🖓	0.Omm
Letter	100%	I≣IA3⊄	0.Omm
Original	Ratio	Auto	Image %

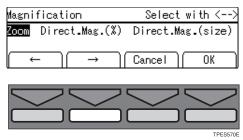


2 Select [Mag.] with the $[\rightarrow]$ or $[\triangleright]$ key.





- Press the [OK] key.
- Select [Direct.Mag.(Size)] with the $[\rightarrow]$ or $[\triangleright]$ key.



5 Press the [OK] key.

6 Enter the vertical original size with the Number keys and press the **[#]** key.

Direct. Size Mag.	Enter size, press OK
Orig.‡mm Pri	nt\$mm
Orig.↔mm Pri	nt⇔mm
$\leftarrow \rightarrow$) Cancel 🏻 ି

🖉 Note

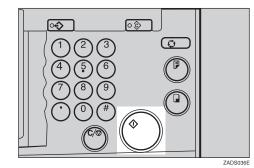
- □ To change the value entered, press the **[Clear/Stop]** key and enter the new value.
- □ Up to 999mm, 99.9" can be entered.
- 2 Enter the vertical print size with the Number keys and press the [#] key.
- Enter the horizontal original size with the Number keys and press the [#] key.
- Enter the horizontal print size with the Number keys.
- Press the [OK] key.

The machine will select appropriate reproduction ratios for the vertical and horizontal directions.

Make sure that the original and the print paper are the correct size.

D Set your original on the exposure glass (contact glass) or in the optional document feeder.

B Press the [Start] key.



Check the image position of the trial or proof print.

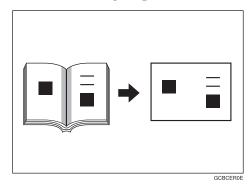
Note

□ If the image position is not correct, adjust it using the [Image [®]] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

D Make your prints.

Erasing Center and Edge Margins

When printing from thick books, or similar originals, the binding margin at the center and the edges might appear on prints. To prevent this, perform the following steps.



∰Important

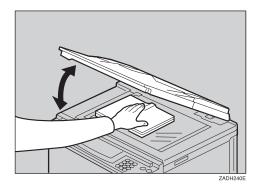
- Be sure to keep the platen cover at an angle of at least 25 degrees with the exposure glass.
- If you do not press hard on the book while it is scanned, the margin at the center might no be erased completely.

Note 🖉

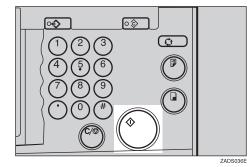
50

- □ If your originals have solid images at the edges, the machine might recognize the solid images as shadows and not copy them. In this case, use Edge Erase mode so that only the shadows are not copied. See ⇒ P.51 "Edge Erase—Erasing Edge Margins"
- Set the book on the exposure glass.

2 Keep the platen cover at an angle of at least 25 degrees with the exposure glass.







🖉 Note

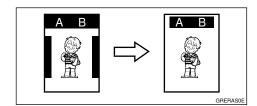
- □ Press hard on the book with your hand while it is scanned.
- 4 Check the image position of the trial or proof print.

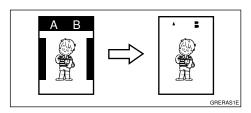
🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

5 Make your prints.

Edge Erase—Erasing Edge Margins

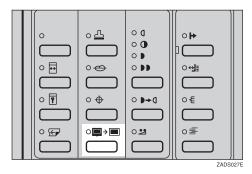




Note 🖉

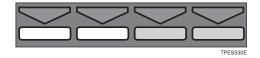
□ You can adjust the size of the margins with the user tools. The default is 2mm, 0.1". See ⇒ P.164 "3-9 Margin Erase Area".

Press the [Edge Erase] key.



2 Select the size and direction of the original with the [←] [→] or [<]
 [▷] keys.

Margin	Erase		Select with <	Ņ
A3⊡7	B4 ☞	A4 🖙	A4, D 85 D 85 D	
A5⊡7	A5 🖓	A6⊡7	A6D ≭(70x165)	
←		\rightarrow	Cancel OK	٦



B Press the [OK] key.

Set your original on the exposure glass (contact glass) or in the optional document feeder.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

2 Make your prints.

Printing onto Various Kinds of Paper

Before printing onto thick paper, thin paper, envelopes or special kinds of paper loaded in the external tray, you must select the paper type.

Printing onto Thick Paper

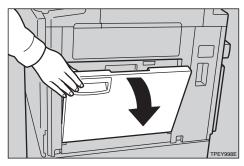
If you wish to print onto thick (157 to $209.3g/m^2$, 42 to 55.6 lb or heavier) paper, perform the following steps.

Note 🖉

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□ If necessary, lower the paper alignment wings of the paper delivery tray. See ⇒ P.24 "Printing from the External Tray".

Carefully open the external tray.

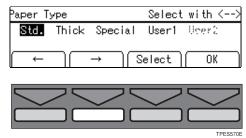


2 Press the [Ppr.Type] key.

⊖Ready f	or Master	Making/ Pri	nting
		⊫A3⊡	0.Omm
Letter	100%	Std.	0.0mm
Original	Ratio	Ppr.Type	[Image 🍩]



Select [Thick] with the $[\rightarrow]$ or $[\triangleright]$ key.



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

Printing onto Thin Paper

If you wish to print onto thin $(47.1g/m^2, 12.5 lb or lighter)$ paper, perform the following steps.

🖉 Note

□ If necessary, lower or lift the paper alignment wings of the paper delivery tray. See ⇒ P.24 "Printing from the External Tray".

Carefully open the external tray.

Press the [Ppr.Type] key.



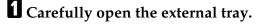


3 Make sure that [Std.] is selected.

Paper T	уре		Select	.with <>
Std.	Thick	Special	User1	Ucer:
←		→(S	Select	OK

Press the [OK] key.

Printing onto Envelopes

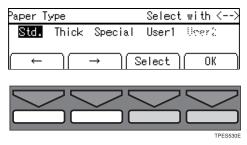


2 Press the [Ppr.Type] key.

OReady for	Master	Making/ Pri	nting
		⊫A3₽	0.Omm
Letter	100%	Std.	0.Omm
Original	Ratio	Ppr.Type	Image %
		••	

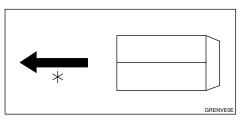


Select [Special] with the $[\rightarrow]$ or $[\triangleright]$ key.



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

• Place the envelopes in the external tray as shown in the illustration.

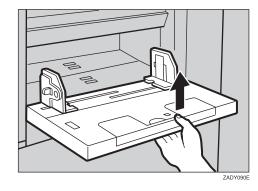


*: Paper feed direction

🖉 Note

□ When you use envelopes, the external tray capacity is about 150 sheets (85g/m², 22 lb) or enough to load a stack up to 105mm, 4.1" high.

1 If your envelopes do not feed in well, lift the paper feed tray a little then lower it so that it slants up slightly.



Printing onto Special Kinds of Paper

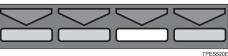
Preparation

To use this function, you have to register the special paper type in **[User1]** or **[User2]** with the user tools. See \Rightarrow P.168 "4-19 Type of Paper".

1 Carefully open the external tray.

2 Press the [Ppr.Type] key.

OReady for	r Master	Making/ Pri	nting
		⊫A3₽	0.Omm
Letter	100%	Std.	0.Omm
Original	Ratio	Ppr.Type	[Image ᅇ



Select [User1] or [User2] with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



Paper Type Select with <-->
Std. Thick Special User1 User2
← → Select OK

PES530F

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

🍄 To prevent paper misfeeds:

If paper misfeeds occur frequently even if you select a suitable paper type, follow the steps below.

① Press the **[Select]** key.



② Select the type of paper misfeed and frequency with the [◁], [▷], [△], or [∇] key.

Standerd			With	∞ Ente	er
		Frequent			
Double Feed:	Std. R	Frequent	Very	frequer	۱t
		Cance	er][!	OK	

③ Press the **[OK]** key.

If paper misfeeds occur frequently in the paper exit section even if you use standard or thin paper and select the **[Std.]**, do the following:

① Set the wing guide to the "Down" position with the user tools. See "Deflector Angle" ⇒ P.152 "4. *Mode Setting*".

If A4 – B5, $8^1/2'' \times 11''$ thick paper is not delivered properly to the paper delivery tray, do the following:

① Set the wing guide to the "Up" position with the user tools. See "Deflector Angle" ⇒ P.152 "4. Mode Setting".

Selecting a Mode to Match Your Original

Select one of the following four modes to match your originals:

Letter mode

Select when originals contain only letters (no pictures).

Letter/Photo mode

Select when originals contain photographs or pictures with letters.

Photo mode

Select when originals contain photographs or pictures with delicate tones.

Pencil mode

Select when originals are written in pencil.

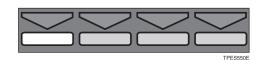
Note 🖉

- □ You can adjust the sharpness of text in Letter mode with the user tools (see "Adjusting sharpness of letters" ⇒ P.152 "4. Mode Setting").
- When using Photo mode to print originals with both text and photographs, the text will appear lighter. To avoid this, select Letter/Photo mode. Alternatively, use the optional Make-up function to specify Letter mode for text areas and Photo mode for photograph areas.

Letter/Photo Mode Printing

Press the [Original] key.

OReady fo	r Master	Making/ Pri	nting
		🏥 A 4 🖓	0.Omm
Letter	100%	I≣IA3⊄	0.Omm
Original	Ratio	Auto	[Image %



2 Select [Letter/Photo] with the $[\rightarrow]$ or $[\triangleright]$ key.





Press the [OK] key.

Adjust the lightness with the [←] [→] or [⊲] [▷] keys.

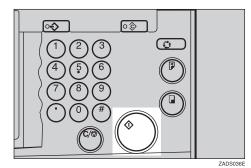




5 Press the [OK] key.

5 Set your original on the exposure glass (contact glass) or in the optional document feeder.

2 Press the **[Start]** key.



Check the image position of the trial or proof print.

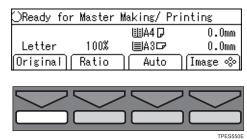
🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

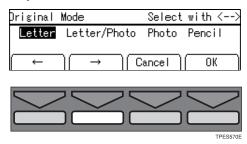
D Make your prints.

Photo Mode Printing

Press the [Original] key.



2 Select [Photo] with the $[\rightarrow]$ or $[\triangleright]$ key.



Press the [OK] key.

Select the screen coarseness with the [←] [→] or [⊲] [▷] keys.



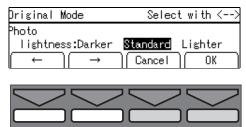


Solution Note

- □ Four coarseness settings are available:
 - Setting 4: coarsest
 - Setting 3: coarser than setting 2
 - Setting 2: coarser than setting 1
 - Setting 1: coarser than the standard setting

5 Press the [OK] key.

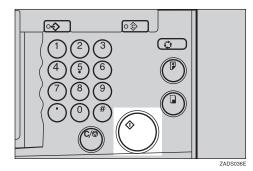
() Adjust the lightness with the [←] $[\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



TPES530E

- **2** Press the [OK] key.
- Set your original on the exposure glass (contact glass) or in the optional document feeder.

9 Press the **[Start]** key.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

Make your prints.

Pencil Mode Printing

Note

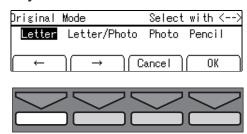
Originals written in pencil should be set on the exposure glass (contact glass).

Press the [Original] key.

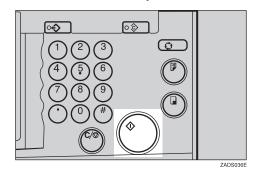
OReady for	Master	Making/ Pri	nting
		🏥 A 4 🕞	0.0mm
Letter	100%	≣A3⊄	0.Omm
Original	Ratio	Auto	Image ᅇ



2 Select [Pencil] with the $[\leftarrow]$ or $[\triangleleft]$ key.



- Press the [OK] key.
- **4** Set your original on the exposure glass (contact glass).
- **5** Press the **[Start]** key.



Check the image position of the trial or proof print.

Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

2 Make your prints.

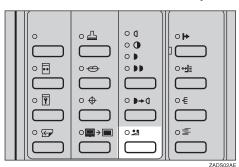
Economy Mode—Saving Ink

When you want to save ink, select Economy mode.

Note 🖉

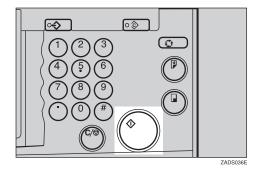
□ Prints will be lighter in this mode.

Press the [Economy Mode] key.



2 Set your original on the exposure glass (contact glass) or in the optional document feeder.

Press the [Start] key.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

5 Make your prints.

Auto Cycle—Making Master and Prints in one Operation

Use the **[Auto Cycle]** key to process masters and make prints in a single operation.

🖉 Note

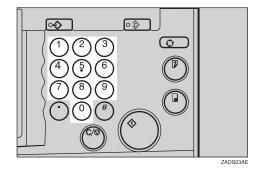
□ When you use the optional document feeder, it is not necessary to place originals one by one. All originals are fed and prints are completed after you press the [Start] key.

Set your original on the exposure glass (contact glass) or in the optional document feeder.

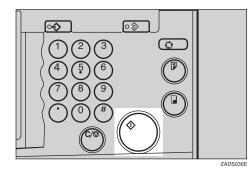
🖉 Note

□ You can set up to 30 originals into the optional document feeder.

2 Enter the number of prints required with the Number keys.



Press the [Start] key.

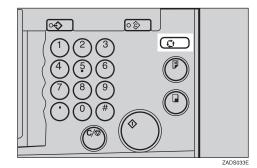


4 Check the image position of the trial or proof print.

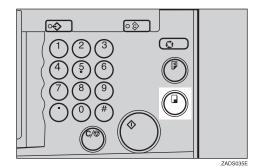
🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

5 Press the [Auto Cycle] key.



6 Press the **[Print]** key.



Note 🖉

- □ Repeat steps **1** through **3** until all originals are printed when you are setting originals on the exposure glass (contact glass).
- If you set the original in the optional document feeder, originals are fed and prints are completed automatically.

ſ

All Class Mode—Making Variable Numbers of Prints from the Same Original Using All Stored Data

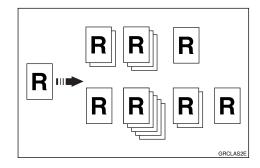
Preparation

You have to store the number of students in each class with the user tools. See \Rightarrow P.163 "3-5 Class Enter No."

Use the **[Class]** key to make sets of prints from the same original. All the stored numbers of prints are made for each set.

This feature is useful for teachers who frequently make multiple print sets for all the classes e.g. notes, handouts, test etc.

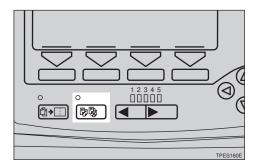
Using a standard print function, the teacher would have to stand by the machine entering the number of prints and pressing the **[Print]** key for each class. However, All Class mode allows you to store the number of students in each class into the machine memory beforehand with the user tools. Whenever you need to make print sets for all the classes, set your original, select **[ALL]** and press the **[Start]** key. Print sets will be made containing the correct number of prints for each class.



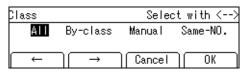
🔗 Note

- □ When you choose All Class mode, Job Separation mode is automatically turned on. The job separator pulls the top sheet of the each set delivered to the paper delivery tray to mark the end of each printed set. The next cycle begins automatically. See ⇒ P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray"
- □ You can cancel Job Separation mode in All Class mode with the user tools (see "Auto Separate" ⇒ P.152 "4. Mode Setting").

Press the **Class** key.



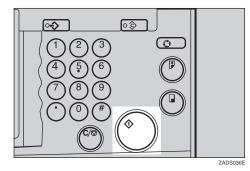
2 Make sure that the [ALL] is selected.



- Press the [OK] key.
- Set one original on the exposure glass (contact glass) or in the optional document feeder.

1

5 Press the **[Start]** key.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

2 Make your prints.

Auto Class Mode— Making Variable Numbers of Prints from the Same Original Using Stored Data

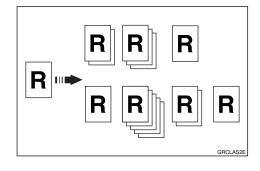
Preparation

You have to store the number of students in each class with the user tools. See \Rightarrow P.163 "3-5 Class Enter No.".

Use the **[Class]** key to make sets of prints from the same original. The stored numbers of prints are made for each set.

This feature is useful for teachers who frequently make multiple print sets for their classes, ex. notes, handouts, tests etc.

Using a standard print function, the teacher would have to stand by the machine entering the number of prints and pressing the **[Print]** key for each class. However, Auto Class mode allows you to store the number of students in each class into the machine memory beforehand with the user tools. Then, whenever you need to make print sets for several classes, set your original, select the classes who need prints and press the **[Start]** key. Print sets will be made containing the correct number of prints for each class.

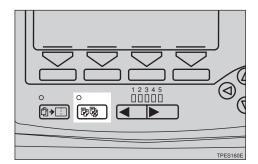


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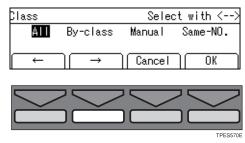
🖉 Note

- □ When you set Auto Class mode, Job Separation mode is automatically turned on. The job separator pulls the top sheet of the each set delivered to the paper delivery tray to mark the end of each printed set. The next cycle begins automatically. See ⇒ P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray".
- □ You can cancel Job Separation mode in Auto Class mode with the user tools (see "Auto Separate" ⇒ P.152 "4. Mode Setting").

Press the **Class** key.



2 Select [By-class] with the $[\rightarrow]$ or $[\triangleright]$ key.



Press the [OK] key.

4 Select the desired classes for each grade.

Select Class	with	‰,	Enter		
1 : ALL 1 2	34				
2 : ALL 1 2	34				
Prev.)	Next	٦ſ	Select)(OK

Selecting classes with the [\triangleleft], [\triangleright], [\triangle], or [\bigtriangledown] key

● Select the desired class for the 1st grade with the [▷] key.

The number of students is displayed on the counter.

🔗 Note

- □ When you want to select all the classes, select **[ALL]**.
- **2** Press the [Select] key.

🖉 Note

- □ Repeat steps **①** and **②** until you have finished designating classes for the 1st grade.
- □ To cancel selection of a class, select that class with the [<],
 [▷], [△], or [▽] key then press the [Cancel] key.
- □ When you want to select many classes for one grade, first select **[ALL]** and press the **[Select]** key then deselect the unnecessary classes with the **[Cancel]** key.

3 Press the **[**♥**]** key.

Now you can select classes for the 2^{nd} grade.

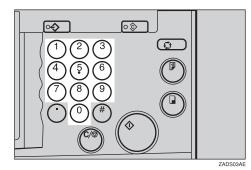
4 Select the desired class for the 2nd grade with the [◁], [▷], [△], or [♥] key.

6 Press the [Select] key.

🖉 Note

Repeat steps 3 to 4 until you have finished designating all the desired classes. Selecting classes with the Number keys

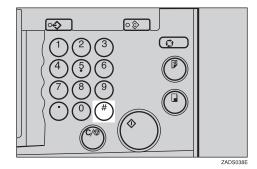
• Enter the desired grade and class with the Number keys.



🖉 Note

- □ For example, to select grade 2 class 4, enter 24.
- When you want to select all the classes for one grade, enter the grade number followed by 0.

2 Press the **[#]** key.



🖉 Note

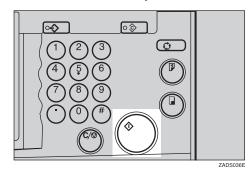
- □ To cancel a class, select that class with the [◁], [▷], [△], or [▽] key then press the [Cancel] key.
- □ Repeat steps **1** and **2** until you have finished selecting all the desired classes.

5 Press the [OK] key.

6 Set one original on the exposure glass (contact glass) or in the optional document feeder.

1

7 Press the **[Start]** key.



Check the image position of the trial or proof print.

🖉 Note

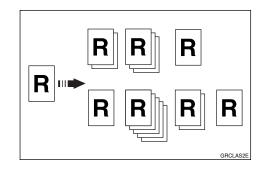
□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

9 Make your prints.

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Manual Class Mode with one Original— Making Variable Numbers of Prints from the Same Original

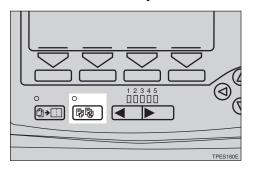
Use the **[Class]** key to make sets of prints from the same original. Various numbers of prints are made for each set.



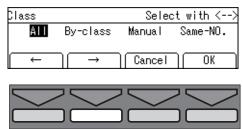
🖉 Note

- □ When you set Manual Class mode, Job Separation mode is automatically turned on. The job separator pulls the top sheet of the each set delivered to the paper delivery tray to mark the end of each printed set. The next cycle begins automatically. See ⇒ P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray".
- ☐ You can cancel Job Separation mode in Manual Class mode with the user tools (see "Auto Separate" ⇒ P.152 "4. Mode Setting").

Press the [Class] key.



2 Select [Manual] with the $[\rightarrow]$ or $[\triangleright]$ key.

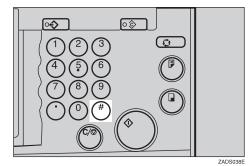


Press the [OK] key.

Enter the desired number of prints for the first set with the Number keys.

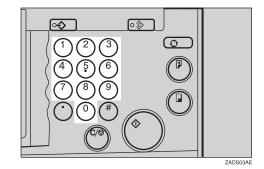
Manual:		Input	No.	wit	h ter	n keys
1:	2:	3:		4:		5:
6:	7:	8:		9:	1	0:
←	∣ →		Canc	el)X

5 Press the **[#]** key.



6 Enter the desired number of prints for the second set with the Number keys.

Make your prints.



Press the **[#]** key.

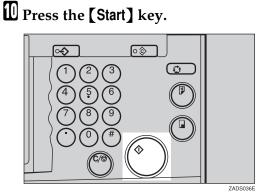
8 Press the [OK] key.

🖉 Note

- □ Repeat steps **③** and **③** for each set.
- □ The maximum number of sets that can be made is 20.

Set one original on the exposure glass (contact glass) or in the op-

tional document feeder.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

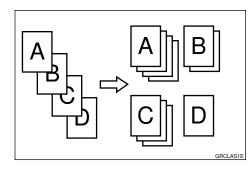
1

Manual Class Mode with 2 or More Originals—Making Variable Numbers of Prints from Different Originals

Preparation

To use this function, you have to select "by each original" with the "Class Manual Set" setting in the user tools. See "Class Manual Set" \Rightarrow P.152 "4. Mode Setting".

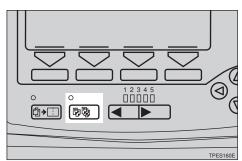
Use the **[Class]** key to make sets of prints from different originals. Various numbers of prints are made for each set.



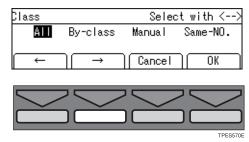
🖉 Note

- □ When you set Manual Class mode, Job Separation mode is automatically turned on. The job separator pulls the top sheet of the each set delivered to the paper delivery tray to mark the end of each printed set. The next cycle begins automatically. See ⇒ P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray".
- □ You can cancel Job Separation mode in Manual Class mode with the user tools (see "Auto Separate" ⇒ P.152 "4. Mode Setting").
- □ With the optional document feeder, you can set several originals and make prints of all of them at once. See ⇒ P.92 "Manual Class Mode with Two or More Originals Using the Document Feeder".

Press the [Class] key.



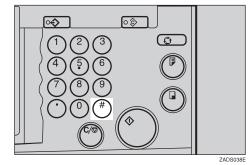
2 Select [Manual] with the $[\rightarrow]$ or $[\triangleright]$ key.



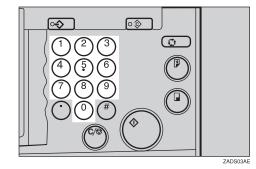
- Press the [OK] key.
- Enter the desired number of prints for the first original with the Number keys.

Manual:		Input	No.	with	ten	keys
1:	2:	3:	'	4:	- 5:	
6:	7:	8:	!	9:	. 10 :	
←)	חר	Cance	∍∏∣ï	08	

5 Press the **[#]** key.



6 Enter the desired number of prints for the second original with the Number keys.



2 Press the **[#]** key.

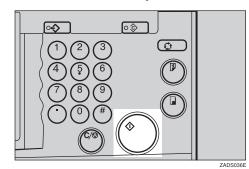
🖉 Note

- □ Repeat steps **G** and **D** for each original.
- □ The number of prints for up to 20 originals can be stored.

Press the [OK] key.

9 Set the first original face down on the exposure glass (contact glass).

Press the [Start] key.



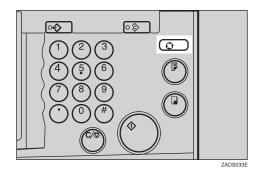
Check the image position of the trial or proof print.

🖉 Note

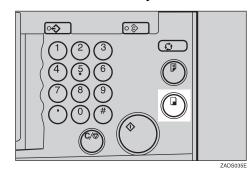
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□ If the image position is not correct, adjust it using the [Image [®]] keys (⇒ P.34 "Adjusting the Position of Printed Images").

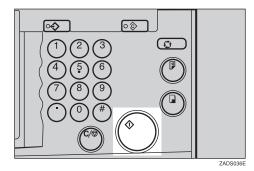
Press the [Auto Cycle] key.



B Press the [Print] key.



After the first set is completed, set the second original on the exposure glass (contact glass) and press the [Start] key.

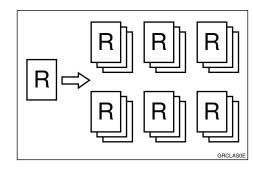


Note 🖉

□ Repeat step **①** until you have finished printing.

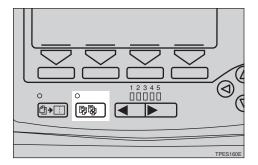
Class Mode—Making Fixed Numbers of Prints from the Same Original

Use the **[Class]** key to make sets of prints from the same original. The same numbers of prints are made for each set.

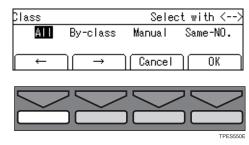


🖉 Note

- □ When you choose Class mode, Job Separation mode is automatically turned on. The job separator pulls the top sheet of the each set delivered to the paper delivery tray to mark the end of each printed set. The next cycle begins automatically. See ⇒ P.85 "Job Separation—Separating Printing Sets in the Paper Delivery Tray".
- □ You can cancel Job Separation mode in Class mode with the user tools. See "Auto Separate" ⇒ P.152 "4. Mode Setting".
- Press the [Class] key.



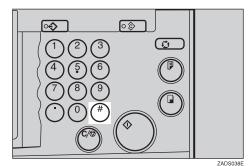
2 Select [Same-NO.] with the $[\leftarrow]$ or $[\triangleleft]$ key.



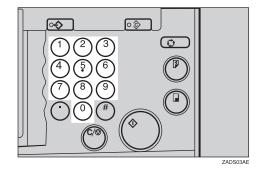
- Press the [OK] key.
- **4** With the Number keys, enter the desired number of prints for each set.

Same Number	Select	with 10Key
Q'ty : 1 No. of class : 1		
	Cancel	ОК

5 Press the **[#]** key.



1 With the Number keys, enter the number of sets you wish to make.



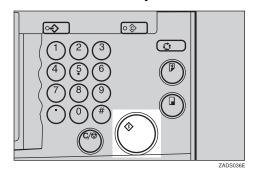
🖉 Note

□ Up to 99 sets can be selected for an original.

Press the [OK] key.

Set one original on the exposure glass (contact glass) or in the optional document feeder.

Press the [Start] key.



Check the image position is the trial or proof print.

Note 🖉

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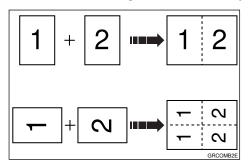
□ If the image position is not correct, adjust it using the [Image %] key. See ⇒ P.34 "Adjusting the Position of Printed Images".

Make your prints.

Combine Originals—Combining Originals into one Print

You can combine originals in two ways:

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Combine two single-sided originals onto one single-sided print with the two images placed side-by-side.

♦ 2 single-sided originals → 1 single-sided print with 4 Images

Combine two single-sided originals onto one single-sided print with each image duplicated (total of four images).

Note

- □ If your machine has the optional memory board, you can also use Memory Combine mode. See ⇒ P.131 "*Memory Combine*—*Combining Originals into one Print with the Memory Board*".
- □ You can set the machine to cancel Combine Originals mode after finishing your print job with the user tools. See "Cancel Comb." \Rightarrow P.152 "4. *Mode Setting*".
- □ Any image closer than 10mm, 0.4" to the leading edge of the first original will not be printed. Any image closer than 4mm, 0.16" to the leading edge of the second original will also not be printed. When the image is too close to the leading edge, use copies of the originals with the image shifted at least 10mm, 0.4" for the first original (4mm, 0.16" for the second original) from the leading edge.
- □ You can select different image settings for the first and second original.
- Make sure that the paper feed side plates touch the paper lightly, and that the paper size and direction shown on the panel display match the size and direction of paper actually set in the external tray. Either case can cause the two original images not to appear at the proper position on prints.
- □ The following tables list the combinations that can be used with the Combine feature (2 single-sided originals \rightarrow 1 single-sided print with 2 images).

Metric version

		Original Size				
		A4 🖓	B5 🖵	A5 🗗	B6 🖵	A6 🖵
Paper Size	A3 ₽	100%	115%	141%	163%	200%
	B4 □	87%	100%	122%	141%	173%
	A4D	71%	82%	100%	115%	141%
	B5 □	61%	71%	87%	100%	122%
	A5 ₽	50%	58%	71%	82%	100%

Inch version

		Original Size			
		$8^{1}/_{2}$ " × 11" \square	$5^{1}/_{2}$ " × $8^{1}/_{2}$ " \square		
Paper Size	11"×17"□	100%	129%		
	$8^1/_2$ " × 14"	77%	100%		
	$8^{1}/_{2}$ " × 11"	65%	100%		
	$5^{1}/_{2}$ " × $8^{1}/_{2}$ " D	50%	65%		

□ The following tables list the combinations that can be used with the Combine feature (2 single-sided originals \rightarrow 1 single-sided print with 4 images).

Metric version

		Original Size						
		A3₽	Β4□	A4D	B5 ⊡	A5 D	Β6₽	A6 □
Paper	A3D	50%	58%	71%	82%	100%	115%	141%
Size	Β4□	-	50%	61%	71%	87%	100%	122%
	A4D	-	-	50%	58%	71%	82%	100%
	B5 □	-	-	-	50%	61%	71%	87%
	A5 D	-	-	-	-	50%	58%	71%

F

•

Inch version

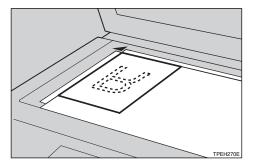
		Original Size			
		11"×17"₽	$8^{1}/_{2}$ " × 14"	$8^{1}/_{2}$ " × 11"	$5^{1}/_{2}" \times 8^{1}/_{2}"$
Paper Size	11"×17" □	50%	65%	65%	100%
	$8^{1}/_{2}$ " × 14" \square	-	50%	50%	77%
	$8^{1}/_{2}$ " × 11"	-	-	50%	77%
	$5^1/_2$ " × $8^1/_2$ " D	-	-	-	50%

□ If a suitable reproduction ratio is not selected, images might not completely appear on prints.

₽ Reference

When you use the optional document feeder with this function, see \Rightarrow P.91 "Combine Printing with the Document Feeder".

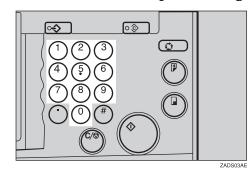
1 Set the first original face down.



🖉 Note

 \Box When you set original sideways (\Box), the top should be toward the operation panel as shown above.

2 Enter the number of prints using the Number keys.



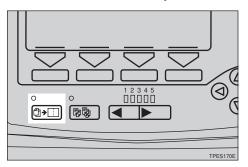
F

3 Check the print paper size and the reproduction ratio.

Note

□ To have the machine choose a suitable ratio automatically, use Auto Magnification Selection mode. See ⇒ P.41 "Auto Magnification—Having the Machine Choose Reproduction Ratios".

Press the [Combine] key.

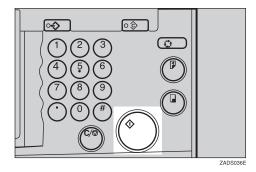


5 Select [Combine 2] or [Quadruple] with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



6 Press the [OK] key.

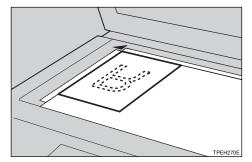
2 Press the **[Start]** key.



1

75

The beeper sounds after the first original has been stored. Set the second original face down.



9 Press the **[Start]** key.

Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the **[Image %]** key (see \Rightarrow P.34 "Adjusting the Position of Printed Images").

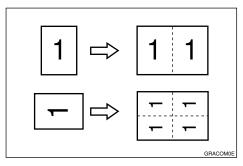
Make your prints.

Auto Combine Mode—Having Images Repeated on one Print

Preparation

To use this function, you have to select Auto Combine mode with the user tools. See "Combine" \Rightarrow P.152 "4. Mode Setting".

You can have images repeated in two ways:



I single-sided original → 1 single-sided print of 2 images

The original image is duplicated twice on one print.

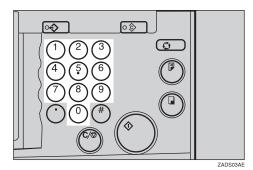
I single-sided original → 1 single-sided print of 4 images

The original image is duplicated four times on one print.

See \Rightarrow P.71 "Combine Originals— Combining Originals into one Print" for details.

1 Set your original on the exposure glass (contact glass) or in the optional document feeder.

2 Enter the number of prints using the Number keys.

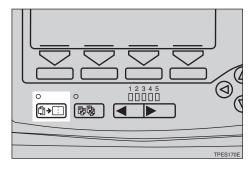


E Check the print paper size and the reproduction ratio.

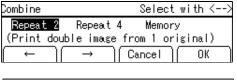
🖉 Note

□ To have the machine choose a suitable ratio automatically, use Auto Magnification Selection mode. See ⇒ P.41 "Auto Magnification—Having the Machine Choose Reproduction Ratios".

Press the [Combine] key.



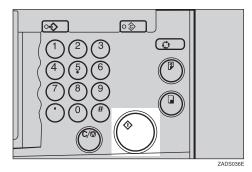
5 Select [Repeat 2] or [Repeat 4] with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.







2 Press the **[Start]** key.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

9 Make your prints.

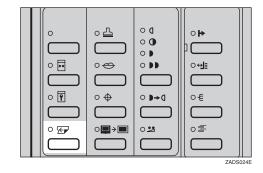
Skip Feed Printing

If the backs of prints are dirty, you can increase the time between prints using the **[Skip Feed]** key. By default, when one sheet of paper is fed the drum rotates once. However, you can select the number of rotations of the drum. This gives you the chance to remove prints one by one from the paper delivery tray or insert one sheet of paper between two prints. If you use this function, you can also use paper longer than 432mm, 17.0" in spite of the maximum length limitations of paper.

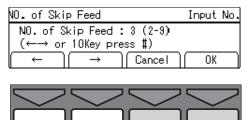
Note 🖉

- □ Two rotations while one sheet of paper is fed is selected as a default. You can change this default setting with the user tools. See "No. of Skip Feed" ⇒ P.152 "4. Mode Setting".
- □ The maximum length of paper in Skip Feed mode is 460mm, 18.1".
- □ When you use paper longer than 432mm, 17.0", completed prints will not be delivered to the paper delivery tray properly, so lower the paper delivery end plate and receive completed prints by hand.
- Set your original on the exposure glass (contact glass) or in the optional document feeder.

Press the **[Skip Feed]** key.



If necessary, select the number of rotations of the drum while one sheet of paper is fed with the [←]
 [→] or [<] [▷] keys.

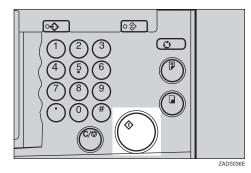


Note

- You can also select the number of rotations with the Number keys.
- □ You can select from 2 to 9 rotations.
- □ By default, the machine asks you to confirm the number of rotations. You can have this step omitted by adjusting the user tool settings. See "No. of Skip Feed" ⇒ P.152 "4. Mode Setting".

Press the [OK] key.

5 Press the **[Start]** key.



Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

2 Make your prints.

🖉 Note

After printing is completed, the Skip Feed setting returns to the default.

Programs—Storing Your Print Settings in Memory

You can store up to 9 frequently used print job settings in machine memory and recall them for future use.

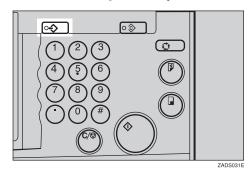
🖉 Note

- □ The stored programs are not cleared when you turn off the main switch.
- □ The stored programs cannot be deleted. If you want to change a stored program, overwrite it.

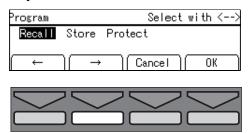
Storing a Program

Set the print settings you want to put into memory.

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



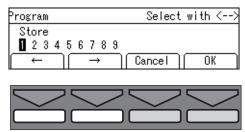
Select [Store] with the $[\rightarrow]$ or $[\triangleright]$ key.



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

🔗 Note

- □ The program numbers (1 to 9) will be displayed in the panel display panel.
- □ If a user program has been protected, that program number will not appear in the panel display. To change a protected user program, see ⇒ P.81 "Protecting a Program".
- □ If all the user programs have been protected, you cannot store any settings. Press the [Cancel] key.
- **5** Select the program number you want to store the settings in with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



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🖉 Note

□ You can also select the program number with the Number keys.

Press the [OK] key.

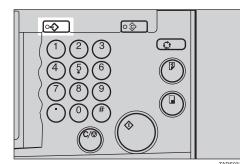
🔗 Note

□ If this program number is already used, the machine asks whether you wish to overwrite it or not. Press the **[Yes]** or **[No]** key.

Programs—Storing Your Print Settings in Memory

Recalling a Program

Press the [Program] key.



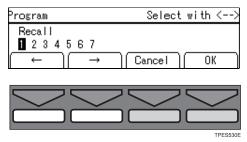


Program			Selec	t wi	th -	<>
Recall	Store	Prot	.ect			
(←) [Cancel	າຕ	ОК	\neg

Press the [OK] key.

🖉 Note

- Programs that have been stored beforehand are represented by a number.
- Select the program number you want to recall with the [←] [→] or [<] [▷] keys.</p>

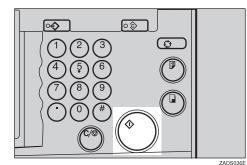


🖉 Note

- □ You can also select the program number with the Number keys.
- **5** Press the [OK] key.

6 Set your original on the exposure glass (contact glass) or in the optional document feeder.

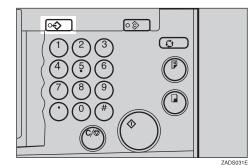
2 Press the **[Start]** key.



Protecting a Program

If you want to prevent someone from writing over your program, do the following.

Press the [Program] key.



2 Select [Protect] with the $[\leftarrow]$ or $[\triangleleft]$ key.



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Press the [OK] key.

Select the program number you want to protect with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



Program Select with $\langle --\rangle$ Protect **1** 2 3 4 5 6 7 \leftarrow \rightarrow Select OK

🖉 Note

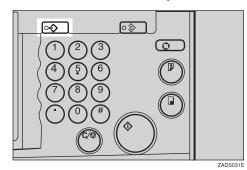
- □ Already protected program numbers are shown with a black background (e.g. **1**).
- □ You can also select the program number with the Number keys.

5 Press the [Select] key.

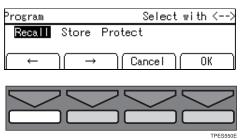
6 Press the [OK] key.

Removing Program Protection

Press the [Program] key.

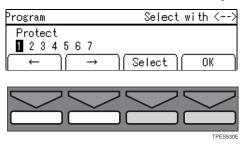


2 Select [Protect] with the $[\leftarrow]$ or $[\triangleleft]$ key.



B Press the [OK] key.

Select the program number you want to remove protection from with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



Note 🖉

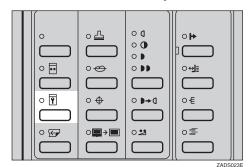
- □ Already protected program numbers are shown with a black background (e.g. **1**).
- □ You can also select the program number with the Number keys.
- **5** Press the **[Cancel]** key.
- **6** Press the [OK] key.

Security Mode—Printing Confidential Documents

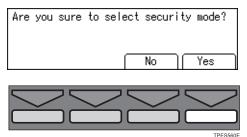
This function prevents others from making prints of confidential documents from the master. For example, if you want to print some documents with sensitive information, use this function after making your prints so that nobody can access that master again.

Make your prints.

2 Press the **[Security]** key.



Press the [Yes] key.



🖉 Note

- □ If you press the **[Proof]** key or the **[Print]** key after finishing one print job, the machine lets you know that you cannot make prints. Press the **[Exit]** key.
- □ You cannot cancel Security mode even if you turn off the main switch.

- □ If you make the next master, Security mode is canceled.
- □ You cannot pull out the drum unit before making the next master.



Quality Start Mode— Regaining Image Density When Drum Ink Dries

If the machine is not used for a long period of time or you change the color drum unit, the ink on the drum might dry causing print quality to deteriorate. To solve this problem, you can have the machine carry out a few idle spins of the drum before a print run. This will restore image quality and save you having to make a repeat print run.

You can use this feature in two ways:

Manual Quality Start

Choose Quality Start for the next print run manually using the **[Quality Start]** key.

Auto Quality Start

Have the machine check automatically how long ago the machine was used before each print run. If the machine has not been used for a long time, Quality Start will be used for the print job. By default, Auto Quality Start mode is on. You can turn it off with the user tools. See "Setting Q.start" \Rightarrow P.152 "4. Mode Setting".

Note 🖉

- □ You can change the number of spins in Manual Quality Start mode with the user tools. See "Idling for Q.start" ⇒ P.152 "4. *Mode Setting*".
- □ You can change the number of spins after the fixed time period has passed in Auto Quality Start mode with the user tools. See "No. of Q.start"⇒ P.152 "4. Mode Setting".

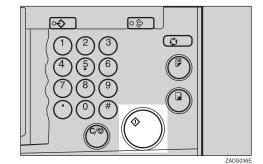
Using Quality Start Manually

Press the [Quality Start] key.

- 00 0 스 0 00 0 🕨 • 🖬 00 ODD 0⇔∎ Г Γ 0 🖣 0 ⊕ ○ ▶→ 0 o€ \square Г 0 🗲 o∎≯∎ 02 ₀≣ C
- 2 Set your original on the exposure glass (contact glass) or in the optional document feeder.

U Press the **[Start]** key.

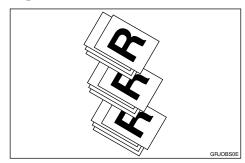
The drum unit idles.



A Make your prints.

Job Separation—Separating Printing Sets in the Paper Delivery Tray

The print on the top of each print set on the paper delivery tray is pulled by the job separator. This function is useful when you make 2 or more print sets.



A CAUTION:



While printing, do not touch the belt at the end of the paper delivery tray or the job separator. You might be injured.

Limitation

□ In Job Separation mode, the following limitations apply:

Metric version

Minimum paper size	Maximum paper weight	Paper delivery tray capacity	
Length: 210mm	$127.9g/m^2$	600 sheets (64g/m ²)	
Width: 128mm			

Inch version

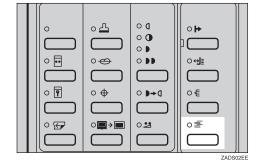
Minimum paper size	Maximum paper weight	Paper delivery tray capacity
Length: 8.3"	34 lb	600 sheets (17 lb)
Width: 5.1"		

Note 🖉

- When you use thin paper, it is not recommended to use Job Separation mode. The job separator might tear the paper.
- □ If the job separator touches the print image, completed prints might be marked. In this case, it is not recommended to use Job Separation mode.
- □ When you do not use Job Separation mode, you can select the machine condition after each print set is fed out to the paper delivery tray with the user tools. See "Auto Class" ⇒ P.152 "4. Mode Setting".

•

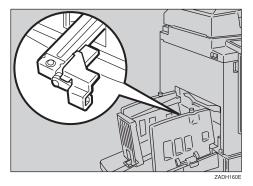
Press the [Job Separator] key.



2 Make your prints.

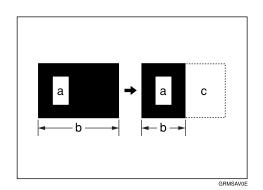
🖉 Note

After the last page of each print set is fed out to the paper delivery tray, the job separator pulls the last sheet of each group in Job Separation mode. The next cycle begins.



Conserving the Master

The machine automatically changes the master length depending on the paper size you use. This saves both master and ink.



- a = Images on the master
- b = Masters

c = Area that you can save master and ink

Limitation

□ The optional document feeder is required.

Note 🖉

- □ This function is turned on when you use A4 □, 8¹/₂" × 11" □ or B5 □ paper and you set 2 or more originals in the optional document feeder.
- □ This function does not apply to the last page.
- □ You can cancel Master Saving mode with the user tools. See "Master length" ⇒ P.152 "4. Mode Setting". You can also save master using the optional A4, 8¹/₂" × 11" drum. See ⇒ P.99 "Changing the Drum Size".

1

On Line Printing

On Line printing allows you to use this machine as a PC printer.

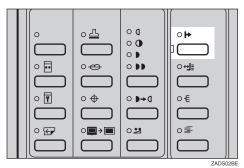
Limitation

□ The PC controller is required. For details, refer to the PC controller manual.

Note

- Before printing onto A5 , 5¹/₂" × 8¹/₂" , or non-standard size paper, you need to select the paper size with the [Pnt.Size] key.
- □ When printing onto thick paper, thin paper or special kinds of paper from the external tray, select the paper type before pressing the [On Line] key. See ⇒ P.52 "Printing onto Various Kinds of Paper".

Press the [On Line] key.



When printing onto A5 \Box , 5¹/₂" × 8¹/₂" \Box , or non-standard paper sizes

Press the [Pnt.Size] key.

Ready			[Online]
		UIA4 🖓	0.Omm
Letter	Auto	I≣IA3⊄	0.Omm
Original	(Pnt.Size)	Auto][Image 🌼]



2 Select A5 □, 5¹/₂" × 8¹/₂" □, or Custom (non-standard) with the [←] or [→] key.

Select	Paper	Size	Select with <>
			A4D 8507 85D
A5⊡?	A5 🖓	A607	Custom <mark>Auto</mark>
←		\rightarrow	Cancel OK



3 Press the [OK] key.

When printing onto standard paper sizes or sizes other than $A5 \Box$, $5^{1}/_{2}" \times 8^{1}/_{2}" \Box$

Refer to the PC controller manual.

1

Optional Document Feeder

Insert a stack of originals in the document feeder. It will be fed automatically.

Originals

Setting the following originals in the document feeder might cause original misfeeds or damage to the originals.

Set the following kinds of originals on the exposure glass (contact glass):

- Originals heavier than 105g/m², 27 lb
- Originals lighter than 52g/m², 14 lb
- Originals smaller than 105mm × 128mm, 4.2" × 5.1"
- Originals larger than 297mm × 864mm, 11.6" × 34.0"
- Stapled or clipped originals
- Perforated or torn originals
- Curled, folded, or creased originals
- Originals with any kind of coating, such as thermal fax paper, art paper, aluminum foil, carbon paper, or conductive paper
- Bound originals such as books
- Damaged originals
- Originals with glue on them
- Pasted originals
- Originals written in pencil
- Thin originals that have low stiffness
- Originals with index tabs
- Transparent originals such as OHP transparencies or translucent paper

The following original sizes set in the document feeder can be detected.

	A3 🗗, B4 🗗, A4 🖵 🗗, B5 🖵 🗗, A5 🖵 🗗
Inch version	$\begin{array}{c} 11" \times 17" \square, 8^{1}/_{2}" \times 14" \\ \square, 8^{1}/_{2}" \times 11" \square \square, \\ 5^{1}/_{2}" \times 8^{1}/_{2}" \square \square \end{array}$

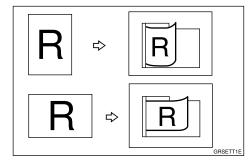
Under the following conditions, the machine might not detect the original. In this case, select the original image area with the **[Edge Erase]** key. See \Rightarrow P.51 *"Edge Erase—Erasing Edge Margins"*.

- When you use originals with index tabs.
- When you use OHP transparencies or translucent paper.
- When you use dark originals.
- When you use originals with solid images.
- When you use originals other than the sizes described above.

🖉 Note

Set originals after correction fluid and ink have completely dried. Not taking this precaution could mark the exposure glass (contact glass) and cause marks to be printed.

For standard printing functions, set originals as shown below.



If you have the optional memory board and the original is set in a different direction from the print paper, the machine automatically rotates the original image by 90° to match the print paper direction.

You cannot set originals of different sizes at the same time.

When you use thin originals, set one original at a time in the document feeder or set them on the exposure glass (contact glass).

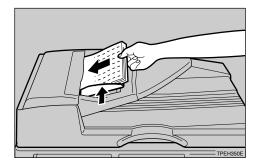
The first 10mm, 0.4", of the leading edge and the last 2mm, 0.08" of the trailing edge cannot be printed. Make sure the leading edge margin is at least 10mm, 0.4", and the trailing edge margin is at least 2mm, 0.08".

Do not stack originals above the limit mark.

Setting Originals in the Document Feeder

Adjust the guide to the original size.

2 Insert the aligned originals face up into the document feeder.

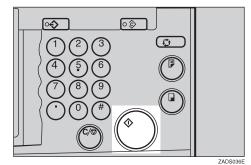


Limitation

Approximately 30 originals (80g/m², 21 lb) can be inserted at one time in the document feeder. The first (top) original will be fed first.

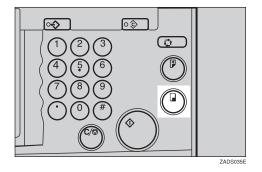
🔗 Note

- □ To avoid a multi-sheet feed, shuffle the originals before setting them in the document feeder.
- □ The guides must fit snugly against both sides of the stack.
- Adjust any print settings as necessary, then press the [Start] key.



2

4 Make your prints.



🖉 Note

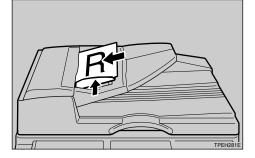
□ If the next original has been set in the document feeder before the machine stops, that original is fed automatically and a trial print is delivered to the paper delivery tray after the print of the first original is completed. Check the image position of the trial print of the next original. If necessary, make proof prints using the **[Proof]** key to check the image position again.

Combine Printing with the Document Feeder

^PReference

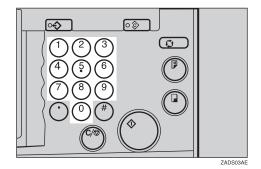
See \Rightarrow P.71 "Combine Originals— Combining Originals into one Print" for details.

1 Insert the 2 originals face up.



🖉 Note

- □ The first original will be printed on the left side of the paper.
- **2** Enter the number of prints with the Number keys.

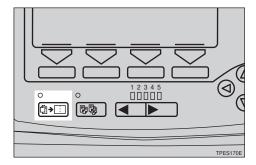


E Check the print paper size and the reproduction ratio.

Note

□ To have the machine choose a suitable ratio automatically, use Auto Magnification Selection mode. See ⇒ P.41 "Auto Magnification—Having the Machine Choose Reproduction Ratios".

Press the [Combine] key.

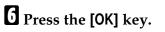




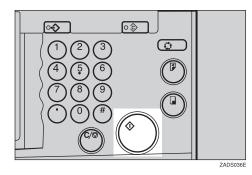
5 Select [Combine 2] or [Quadruple] with the $[\leftarrow][\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.

Combine		Select w	ith <>
	2 Quadrupl		combine
(Print 2	o <u>riginals</u> i <u>n</u>	1 page) _	
[←]	$ \longrightarrow $	Cancel]	OK)





2 Press the **[Start]** key.



Check the image position of the trial or proof print.

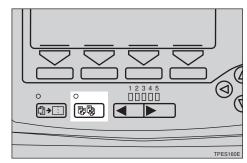
🖉 Note

- □ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").
- □ After the first original has been stored, the second original is fed.
- □ If you set only one original, the beeper sounds after the first original has been scanned in. Set the second original and the any print settings you require. Then press the **[Start]** key.

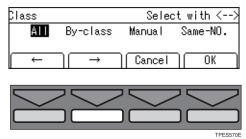
Manual Class Mode with Two or More Originals Using the Document Feeder

See \Rightarrow P.67 "Manual Class Mode with 2 or More Originals—Making Variable Numbers of Prints from Different Originals".

Press the [Class] key.



2 Select [Manual] with the $[\rightarrow]$ or $[\triangleright]$ key.

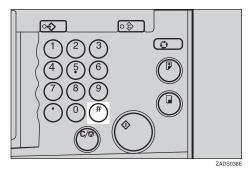


Press the [OK] key.

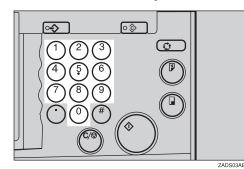
Enter the desired number of prints for the first original with the Number keys.

Manual:		Input	No. w	ith	ten	keys
1:	2:	3:	4:		. 5:	
6:	7:	8:	9:		. 10:	
←) [→	חר	Cancel	ור	0	$\langle \rangle$

5 Press the **[#]** key.



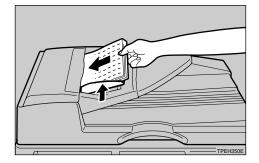
6 Enter the desired number of prints for the second original with the Number keys.



Press the [#] key.

🖉 Note

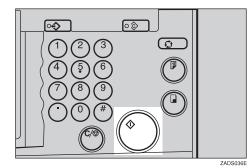
- □ Repeat steps **1** and **1** for each original.
- □ The number of prints for up to 20 originals can be stored.
- Press the [OK] key.
- Set your originals face up in the document feeder.



🖉 Note

The originals are fed from the top of the stack. Make sure that the originals are set in the correct sequence with the first original on the top.

Press the [Start] key.

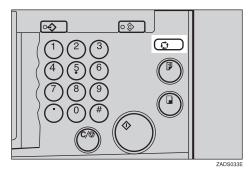


Check the image position of the trial or proof print.

🖉 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

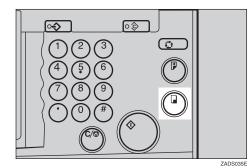
Press the [Auto Cycle] key.

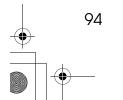


Solution Note

□ In Auto Cycle mode, printing starts automatically after a trial print is delivered.

Press the [Print] key.





Color Printing Using the Optional Color Drum

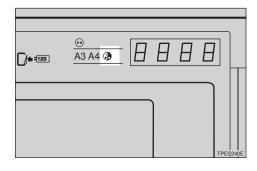
Color drum units are available as options in addition to the standard black unit. For making color prints, a separate drum unit is necessary for each color.

🖉 Note

□ If the ink on the color drum dries, use the Quality Start function. See
 ⇒ P.84 "Quality Start Mode— Regaining Image Density When Drum Ink Dries".

Making Color Prints

Make sure that the Color Drum indicator is lit.



2 Press the **[Start]** key.

3 Check the image position of the trial or proof print.

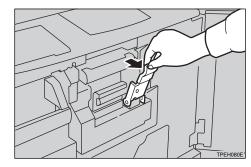
🔗 Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

4 Make your prints.

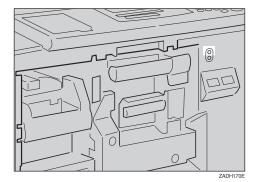
Changing the Color Drum Unit

- **1** Open the front door.
- 2 Lower the drum unit lock lever B1.



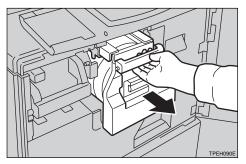
🖉 Note

Make sure the green light beside the drum unit lock lever is on before sliding out the drum. If the light is off, close the front door, wait for five seconds and then open the front door.

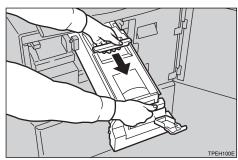


2

E Pull out drum unit handle B2 slowly.



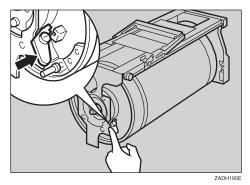
Lift upper drum stay B3 a little to unlock the drum unit, then pull out the drum unit while holding drum unit handle B2 and upper drum stay B3.



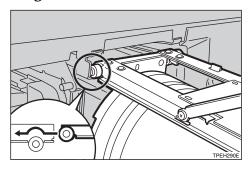
∰Important

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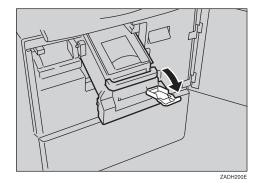
- Be careful not to let the drum unit fall.
- Make sure the optional color drum lock is securely set.



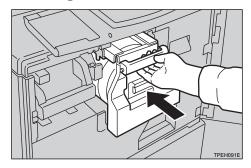
6 Insert the color drum unit along the guide rail.



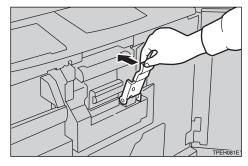
2 Lower drum unit lock lever B1 of the inserted drum.



E Slide in the drum unit until it locks in position.



D Lift drum unit lock lever B1.

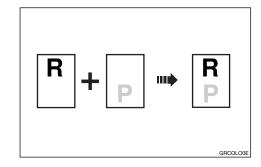


Close the front door.

- Solution Note
- Make sure that the Open Cover/ Unit indicator turns off, and the Color Drum indicator lights.

Printing in Two Colors

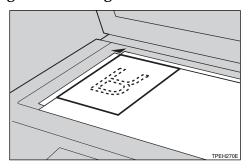
After printing in one color, you can print in another color on the same side of the print.



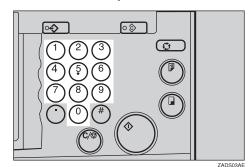
🖉 Note

- Leave the prints for a while before printing on them again to let the ink dry.
- □ If the prints are not dry, the paper feed roller might become dirty. In this case, wipe the roller with a cloth.
- □ You cannot print in two colors at one time.
- You cannot place paper that has already been printed on in tray 1 or tray 2. Place it in the external tray instead.

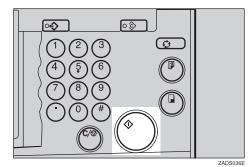
1 Prepare the two originals. Set the first original on the exposure glass (contact glass).



- 2
- **2** Enter the number of prints with the Number keys.



Press the [Start] key.

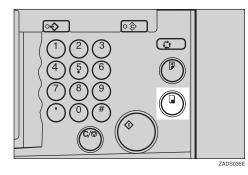


Check the image position of the trial or proof print.

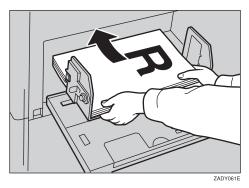
Solution Note

□ If the image position is not correct, adjust it using the [Image %] key (see ⇒ P.34 "Adjusting the Position of Printed Images").

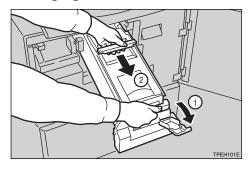
5 Press the **[Print]** key.



6 Remove the prints from the paper delivery tray and set them on the external tray again as shown in the illustration.



2 Change the drum unit. See \Rightarrow P.95 "Changing the Color Drum Unit".



Set the second original and press the [Start] key.

- **9** Check the image position.
- **D** Press the **[Print]** key.



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Changing the Drum Size

To save costs on master rolls and ink, you can shorten the length of each master by changing to an optional smaller drum.

Printing Area (At 23°C/73°F, 65% RH)

Metric version

A3 drum	More than 290 × 419mm, 11.4" × 16.4"
A4 drum	More than 290×200 mm

Inch version

	More than 290 × 409mm, 11.4" × 16.1"
$\frac{8^1/_2"\times11"}{\text{drum}}$	More than 11.4" × 7.8"

Master Cut Length

A3 drum...320mm × 530mm, 12.5" × 20.9", 200 masters/roll

11" × 17" drum...320 × 540mm, 12.5" × 21.3", 200 masters/roll

Optional A4 8¹/₂"×11" drum...320mm× 325mm, 12.5"×12.8", 330 masters/roll

Note 🖉

□ For how to change the drum unit, see⇒ P.95 *"Changing the Color Drum Unit"*.

Image Rotation—Rotating Original Images

When the direction in which your original is set is different from that of the paper, and your machine is equipped with the optional memory board, the machine automatically rotates the original image by 90° to match the paper direction.

Note 🖉

The following tables list the combinations that can be used in Image Rotation mode.

	Original	A3₽	Β4₽	A4D	A4 🖓	B5 □	B5 🖵	A5₽	A5 🖵
Paper								☆	☆
A4₽					*		*		*
A4 🖓		*	*	*		*		*	
B5 □					*		*		*
B5 🖵		*	*	*		*		*	
A5 D					*		*		*
B6 □					*		*		*

Metric version

 \star : The machine automatically rotates the original image by 90° to match the paper direction.

 \Rightarrow : Set these originals in the optional document feeder.

Inch version

Original Paper	11"× 17" □	8 ¹ / ₂ "× 14" □		$\begin{array}{c} 8^{1}/_{2}"\times\\ 11" \end{array}$	$5^{1}/_{2}"\times 8^{1}/_{2}"$	$ \begin{array}{c} 5^1/_2" \times 8^1/_2" \\ \square \swarrow \end{array} $
8 ¹ / ₂ "×11"□				*		*
$8^{1/2} \times 11^{"}$	*	*	*		*	
$5^{1}/_{2}$ "× $8^{1}/_{2}$ "□				*		*

 \star : The machine automatically rotates the original image by 90° to match the paper direction.

 \Rightarrow : Set these originals in the optional document feeder.

Note 🖉

- □ If you select Zoom mode, non-standard size originals or paper, the image will not be rotated.
- □ It takes longer than usual to make masters in Image Rotation mode.
- □ You can cancel Image Rotation mode with the user tools. See "Auto Rotation"
- \Rightarrow P.152 "4. Mode Setting".

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Make-up Printing Features

Make-up mode enables you to do more than just make an exact copy of the original. A variety of editing and image processing functions allow you to quickly and easily customize your prints.

Limitation

The memory board option is required for this feature.

Main Features

Command sheets allow you to create special effects without cutting and pasting—up to 4 commands can be given for an original. By combining Make-up functions and printing with different color drums, you can create a variety of printing effects.

Make-up Modes for Designated Areas

Mod	e	Sample	
Desi	gnated Area	Command sheet/Original (Closed area method)	Print
1.	Letter mode	WORLD World compare and World compare and are equipped with	WORLD With the second s
2.	Photo mode	HAWAII	HAWAII
3.	Delete Area mode	Hello! Bow at you?	Hello! How are you?
4.	Outline mode	NAME NAME	North Will

Mode	2	Sample		
Desig	nated Area	Command sheet/Original (Closed area method)	Print	
5.	P./N. mode (Positive Negative mode)	BALLET	BALLET	
6.	Solid mode (Image Pat- tern mode)	BALLET	BALLET	
7.	All Page Pattern mode (Area Pattern mode)			
8.	All + Outline (Image Outline and Area Pat- tern mode)	CAT	CAT	

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Make-up Modes for Outside Designated Areas

Mode	2	Sample	
Unde	esignated Area	Command sheet/Original	Print
1.	Letter mode: The area outside designated are- as is printed in Letter mode.	HAWAII	HAWAII Plaste erjey vor Summer vasator.
2.	Photo mode: The area outside designated are- as is printed in Photo mode.	WORLD Wield comparer and periodential devices or suppopulation	WORLD Works and the second sec
3.	Save Area mode: The area outside the desig- nated areas is deleted.	HAWAII	
4.	Outline mode: The area outside the designated area is printed in Out- line mode.	HAWAII	HAWAII

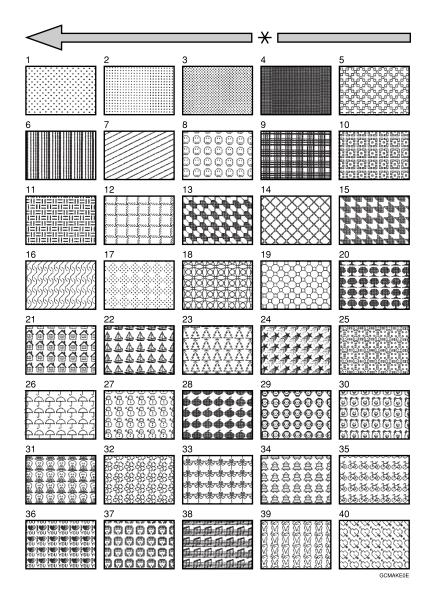
Note

□ In Make-up mode, commands must be given for both designated areas and areas outside the designated areas.

Background Patterns

A total of 164 background patterns is available in Make-up mode:

- 40 basic patterns
- 40 patterns similar to the basic patterns but with patterns elements at 4 times the size.
- 90° rotations of all the basic and enlarged patterns.
- 4 registered user patterns.



*: Paper Feed Direction

Note 🖉

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- □ The basic patterns are numbered 1 to 40.
- □ You can make your own make-up background patterns with the user tools.
 - See \Rightarrow P.175 "5-15 Make/Chg. Pattern".

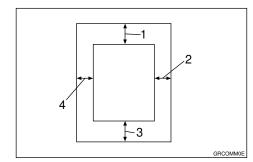
Command Sheets for Make-Up Printing

Command sheets are fed first so that the machine can recognize the areas of the original which are to be edited as designated areas.

Command Sheets

The command sheet is a sheet of paper for designating areas to be edited. Command sheets must be made on white or translucent paper, and should be the same size as the original.

You can designate areas within the following limits:



1. 5mm, 0.2"

- 2. 0mm, 0"
- Solution 🖉
- Poor quality paper (such as newsprint, recycled paper, etc.) should not be used for command sheets because any dark spots or streaks will be read as designated areas.
- Do not use blotting paper or other absorbent paper for command sheets because ink might leak through the paper and get the exposure glass (contact glass) dirty.

Making a Command Sheet

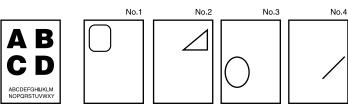
There are two ways of designating areas: the diagonal line method and the closed area method.

- 3. 0mm, 0"
- 4. 0mm, 0"

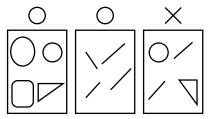
🖗 Features

• You can combine up to 4 command sheets when making a master.





• You cannot use both the closed and diagonal line method on the same command sheet.



• There is no limit to the number of areas you can designate on a single command sheet.



• If designated areas on two or more command sheets overlap, the last command sheet will apply for the overlapping portion.







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• If you use Outline mode for letter images with a thickness of less than 3mm, 0.12", the print image might come out as expected.



Command Sheets for Make-Up Printing

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Notes

The image might differ depending on how the designated area is drawn, so remember the following when making the command sheet:

Designated area	Area recognized	Preferred designated area
Part of the designated area is surrounded by 3 sides of the entire area.		Make a space of at least 2mm, 0.08", in front of the area sur- rounded by 3 sides (relative to the feed direction). 1
Double line pattern.	Only the outer line is recognized.	Make a gap of at least 2mm, 0.08" in width.
The designated area is surrounded by 3 sides of another designated area.		Make a space of at least 2mm, 0.08" in front of the area sur- rounded by 3 sides (relative to the feeding direction). 2 1 1 1 1, 2 = 2mm, 0.08"
Non-closed line		Designate the area with a closed line.

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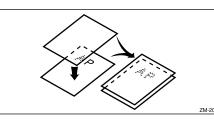
....

Diagonal line method

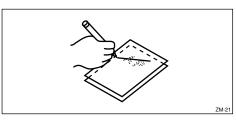
Note

□ A diagonal line must be drawn through the area that you wish to edit.

1 Put the command sheet on top of the original.



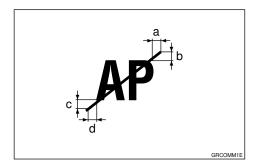
2 Draw a line using a felt tip pen (black, red or blue) with a thickness of at least 1mm.

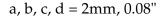


Solution Note

□ Make sure there is no break in the line.

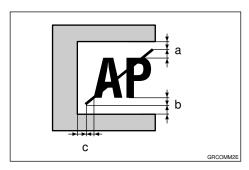
- **D** The diagonal line can be drawn from left to right or vice versa.
- □ Draw the line at least 2mm, 0.08", away from the image so that the complete image can be recognized.







□ The line marking the designated area should be more than 2mm, 0.08", from any neighboring image.



a, b, c = 2mm, 0.08"

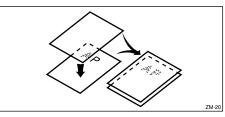
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Closed area method

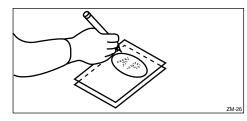
Solution Note

□ The line designating the area must be a closed loop.

1 Put the command sheet on top of the original.



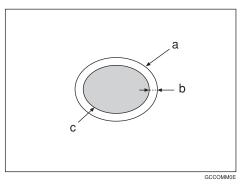
2 Using a black, red, or blue felt tip pen, draw a line around the area to designate. The line should have a thickness of at least 1mm.



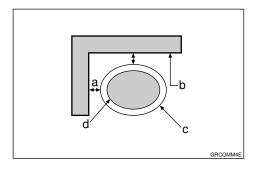
🖉 Note

□ Make sure there is no break in the line.

□ Draw the line at least 2mm, 0.08", away from the image so that the complete image can be recognized.



- a = Line marking the designated area
- b = 2mm, 0.08''
- c = Image within the designated area
- □ The line marking the designated area should be more than 2mm, 0.08", from any neighboring image.



a = 2mm, 0.08''

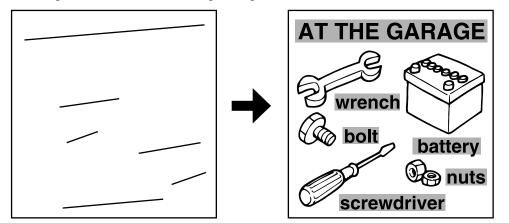
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- b = Neighboring image
- c = Line marking the designated area
- d = image within the designated area

Command Sheets and Finished Prints

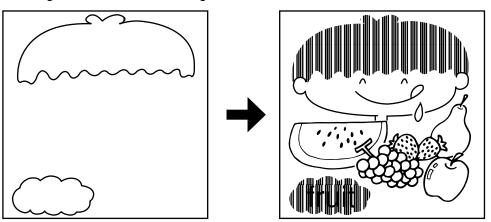
The following illustrations will help you understand how to draw a command sheet.

Drawing a command sheet using a diagonal line



The diagonal line method is easy to use for designating rectangular areas. It is also more precise, but it is difficult to use for designating complex areas.

Drawing a command sheet using a closed line



The closed line method is easier to use for complex areas, but it is less precise. It also takes longer to draw a command sheet with the closed line method.

[2

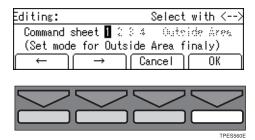
Make-up Printing

Press the [Make-Up] key.

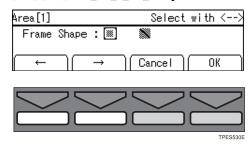


	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		ZADS0)2F

2 Make sure that [1] is selected. Then press the [OK] key.



Select the frame shape with the $[\leftarrow] [\rightarrow] \text{ or } [\triangleleft] [\triangleright]$ keys.



Press the [OK] key.

Select the mode for the first command sheet with the [←] [→] or [<] [▷] [△] [▽] keys.

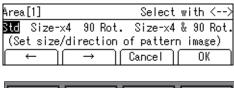
Area[1]	Select with <>
<u>etter</u> Photo	Del.area Outline P./N.
Solid Fulla	rea pattern All + Outline → Cancel OK
II	



- **6** Press the [OK] key.
- If necessary, select the pattern for the first command sheet with the [⊲], [▷], [△], or [∇] key. Then press the [OK] key.

Select Pattern	Select with 棇
Prev. Next	Cancel OK

If necessary, select the size and direction of the pattern you selected in step **2** with the [←] [→] or [<] [▷] keys.





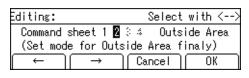
Press the [OK] key.

🔗 Note

- □ Follow steps **2 9** for the other command sheets.
- □ You can select a pattern registered with the user tools for only one command sheet.

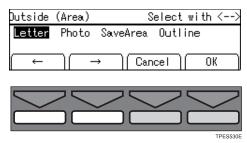
Make-up Printing

- □ To change the value entered, press the [Clear/Stop] key and enter the new value.
- After you have finished designating modes for all the command sheets, select [Outside Area] with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.





Select the mode for the outside area with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



Press the [OK] key.

Note Note

- □ When you select Photo mode for both inside and outside areas, you cannot select different coarseness and image density.
- □ When you want to confirm your settings, press the [Make-Up] key twice. Then press the [OK] key repeatedly until the panel display reaches the setting you want to confirm.

E If you have selected Photo mode, select the coarseness and the image density with the $[\leftarrow] [\rightarrow]$ or **[⊲][▷]** keys.

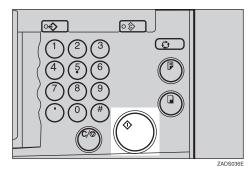


Solution Note

- □ Four coarseness settings are available:
 - Setting 4: coarsest
 - Setting 3: coarser than setting 2
 - Setting 2: coarser than setting 1
 - Setting 1: coarser than the standard setting

Press the [OK] key.

E Set the first command sheet face down on the exposure glass (contact glass) and press the [Start] key.



The beeper sounds after the command sheet is scanned.

Note Note

□ Repeat step **E** for the other command sheets.

U Set the original face down on the exposure glass (contact glass) and press the [Start] key.

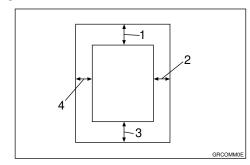


Make-up Printing with the Optional Document Feeder

Under the following conditions, you should set command sheets and the original on the exposure glass (contact glass):

- When using paste-up originals.
- When the command sheets and original are of different size.

With the optional document feeder, you can designate areas to be edited in Make-up mode within the following limits:

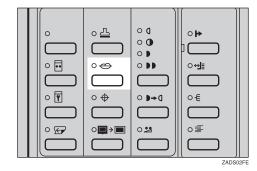


- 1 = 3mm, 0.12"
- 2 = 3mm, 0.12"
- 3 = 3mm, 0.12"
- 4 = 3mm, 0.12"

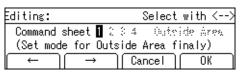
Note 🖉

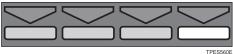
When using coated paper or transparent paper as a command sheet, set the command sheet and original separately into the document feeder.

Press the [Make-Up] key.

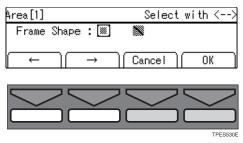


2 Make sure that [1] is selected. Then press the [OK] key.





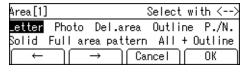
Select the frame shape with the $[\leftarrow] [\rightarrow] \text{ or } [\triangleleft] [\triangleright]$ keys.

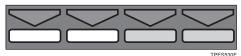


Press the [OK] key.

2

Select the mode for the first command sheet with the [←] [→] or [<][▷][△][♥] [△][♥] keys.

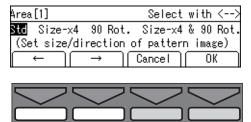




- **6** Press the **[OK]** key.
- If necessary, select the pattern for the first command sheet with the [⊲], [▷], [△], or [∇] key. Then press the [OK] key.

Select Pati	tern	S	Select	with	%
		nd.			
Prev.	Next	Chang	;e][OK	

If necessary, select the size and direction of the pattern you selected in step **1** with the [←] [→] or [<] [▷] keys.

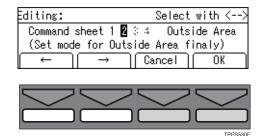


Press the [OK] key.

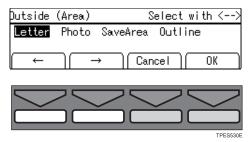
Note 🖉

- □ Follow steps **2 9** for the other command sheets.
- □ You can select a pattern registered with the user tools for only one command sheet.
- □ To change the value entered, press the **[Clear/Stop]** key and enter the new value.

After you have finished designating modes for all the command sheets, select [Outside Area] with [←] [→] or [<] [▷] keys. Then press the [OK] key.



Select the mode for the outside area with the [←] [→] or 【<] 【
 keys.



Press the [OK] key.

🔗 Note

- When you select Photo mode for both inside and outside areas, you cannot select different coarseness and image density.
- □ When you want to confirm your settings, press the **[Make-Up]** key twice. Then press the **[OK]** key repeatedly until the panel display reaches the setting you want to confirm.

B When you select Photo mode, select the coarseness and image density with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft]$ [▷] keys.

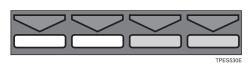
Select with <-->

OK

2 3 4



Editing: Photo Screen : Std. Coarse 1 ←



Cancel

Note 🖉

- □ Four coarseness settings are available:
 - Setting 4: coarsest
 - Setting 3: coarser than setting • 2
 - Setting 2: coarser than setting 1
 - Setting 1: coarser than the standard setting

Press the [OK] key.

E Set the command sheets and original face up into the document feeder.

Note Note

□ Make sure that the command sheets are set on the original.

Press the [Start] key.

Note 🖉

□ If a command sheet or an original misfeeds, remove the misfed sheets or original and reset it into the document feeder. It is not necessary to reset the previous command sheets or original.

Make-up Samples

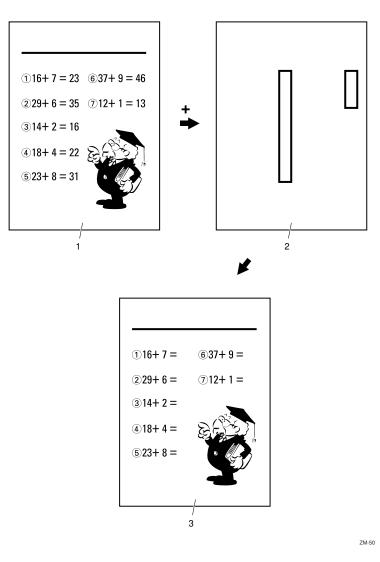
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Make-up Samples

Sample 1

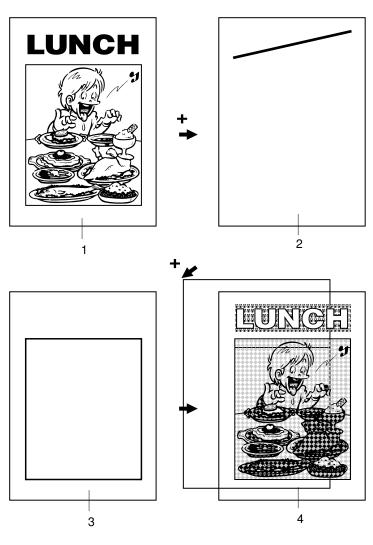
- \bigcirc Command Sheet No. 1, Frame shape \Box , Designated area: Delete Area mode
- Outside area: Letter mode
- ③ Print



- 1. Original
- 2. Command sheet No.1
- 3. Print

Sample 2

- ① Command Sheet No. 1, Frame shape/, Designated area: All + Outline No. 30
- ② Command Sheet No. 2 Frame shape , Designated area: All page pattern No. 17
- ③ Outside area: Fn1
- ④ Print



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- 1. Original
- 2. Command sheet No.1
- 3. Command sheet No.2
- 4. Print

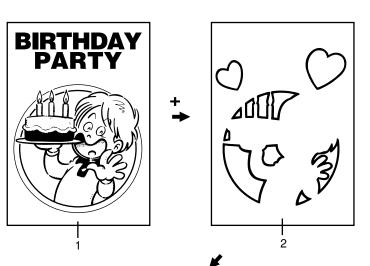
•

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Make-up Samples

Sample 3

- ① Print the original as it is
- Change the drum unit for color printing
- ③ Command Sheet No. 1, Frame shape □, Designated area: All page pattern No. 39
- ④ Outside area: Letter mode
- ⑤ Print





- 1. Original
- 2. Command sheet No.1
- 3. Print

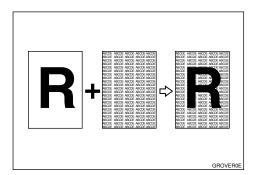
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Image Overlay—Merging Images

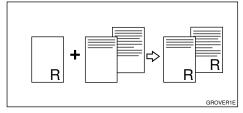
The machine can merge two different originals onto the same print paper. Two types of merging are available:

Overlay



Two different originals are merged onto the same print paper.

Form



The image of the original which is copied first will become the background image for all copies. The following originals will be copied with this background.

On Line overlay

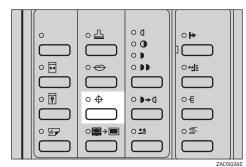
An image sent from a PC and the original image can be merged onto the same print paper.

Limitation

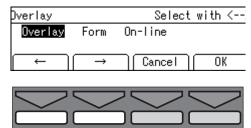
The optional memory board is required to use Overlay or Form mode.

- The optional PC controller is required to use On Line Overlay mode.
- □ In order to get a correct print image, the sizes of the original and the PC image should be identical.

Press the [Overlay] key.



2 Select one of Image Overlay modes with the [←] [→] or [<] [
 ↓] keys.

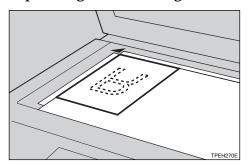


Press the [OK] key.

Set your originals and press the [Start] key.

Setting originals on the exposure glass (contact glass)

• Set the first original on the exposure glass (contact glass).



2 Press the **[Start]** key.

Solution Note

- □ When you select **[Form]** in step **2**, the original for the template should be set first.
- □ To change the background image in Form mode, press the [#] key. Then set the next original for the template and press the [Start] key.

3 Set the next original on the exposure glass (contact glass).

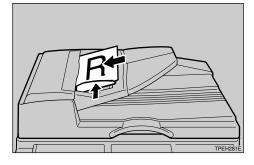
4 Press the **[Start]** key.

Note

□ When you select [Form] in step 2, repeat steps 3 and 4.

Setting originals in the optional document feeder

• Set originals in the document feeder.



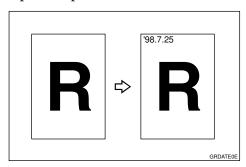
2 Press the **[Start]** key.

Note 🖉

- □ When you select [Form] in step 2, the original for the template should be on the top.
- □ To change the background image in Form mode, press the **[#]** key. Then set the next original for the template and press the **[Start]** key.

Date Stamp—Having the Date Stamped on Prints

Use this function to have the date stamped on prints.



Preparation

Before you use this function, you have to set the machine's internal clock with the user tools. See \Rightarrow P.162 "1-8 Time Setting".

Limitation

- The optional memory board is required.
- □ The font size of the date cannot be changed.
- If you select Page Stamp and Date Stamp together, the last stamp direction selected takes priority.

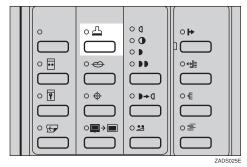
Note 🖉

- □ The default format of Date Stamp is "Month Day Year". You can change this setting with the user tools. See "Date Style Set" ⇒ P.158 "5. Stamp".
- □ You can edit the Date Stamp position. See \Rightarrow P.173 "5-11 Position (Date)".
- The Date Stamp directions on the panel display and actual print images are as follows:

Date Stamp di- rection on the dis- play	Print image	
98.7.25 	98.7.25 GRDPOS4E	98.7.25 GRDPOS8E
98.7.25 GRDPOS13	98.7.25 GRDPOSSE	98.7.25 GRDPOS9E
ST ST ST ST ST ST ST ST ST ST ST ST ST S	S C C C C C C C C C C C C C C C C C C C	90
GRDPOS15	97 L 86 GRDPOS7E	977 2788 86 GRDPOS11

Date Stamp—Having the Date Stamped on Prints

Press the [Stamp] key.



2 Make sure that [Date] is selected.

Stamp	Select with <>
<mark>Date</mark> Page User Stamping	Stamp
\leftarrow) \rightarrow	Cancel OK

Press the [OK] key.

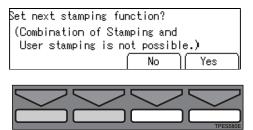
Select the desired position and direction with the [←] [→] or [<]
 [▷] keys.

Date Stamping	Select	with <>
Direction: ••••	16.0.1	16.6.1
$(\leftarrow) (\rightarrow)$	Cancel	(OK)



5 Press the **[OK]** key.

6 Select the [Yes] or [No] key.



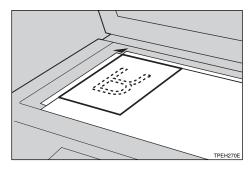
🖉 Note

□ Press the **[Yes]** key if you wish to set the other Stamp functions.

2 Set your original and press the [Start] key.

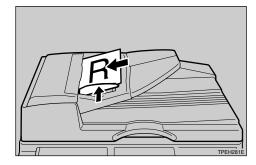
Setting your original (\Box) on the exposure glass (contact glass)

• Set your original as shown in the illustration.



Setting your originals (\Box) in the optional document feeder

• Set your originals as shown in the illustration.

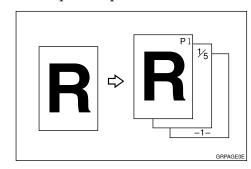




Page Stamp—Having Page Numbers Stamped on Prints

Use this function to have page numbers stamped on prints.





Three numbering formats are available:

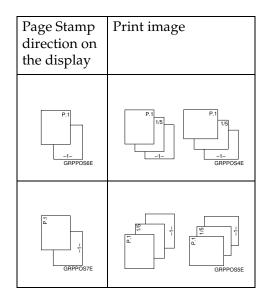
- P1, P2,...., P5
- 1/5, 2/5,...., 5/5
- -1-, -2-,...., -3-

Limitation

- The optional memory board is required.
- □ The size and font of Page Stamp cannot be changed.
- If you select Page Stamp and Date Stamp together, the last stamp direction selected takes priority.

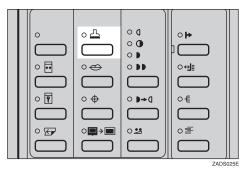
Note

Check the following table for the relationship between the Page Stamp direction on the panel display and the actual print image:

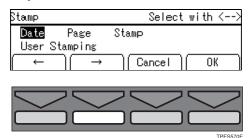


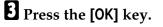
- □ You can edit the preset page numbering position with the user tools.
 See ⇒ P.174 "5-14 Position (Page)".
- □ [P1, P2,..., P5] is the default format. You can change this default setting with the user tools. See "Type(Page)" ⇒ P.158 "5. Stamp".

Press the [Stamp] key.

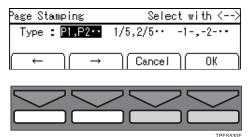


2 Select [Page] with the $[\rightarrow]$ or $[\triangleright]$ key.





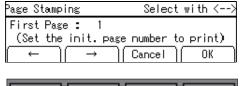
 4 Select the desired format with the [←] [→] or [<] [▷] keys.



5 Press the [OK] key.

If you selected [P1,P2] or [-1-,-2-]

● Enter the first page number with the [←] [→] or 【△】 【▷】 keys.





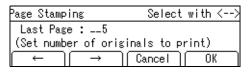
Note 🖉

- □ You can also enter the page number with the Number keys.
- □ To change the value entered, press the **[Clear/Stop]** key and enter the new value.

2 Press the **[OK]** key.

If you selected [1/5,2/5]

● Enter the last page number with the $[\leftarrow]$ $[\rightarrow]$ or $[\triangleleft]$ [▷] keys.



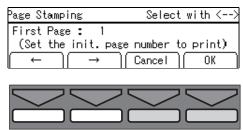


🖉 Note

- □ You can also enter the page number with the Number keys.
- □ To change the value entered, press the **[Clear/Stop]** key and enter the new value.

2 Press the **[OK]** key.

Senter the first page number with the [←] [→] or 【⊲】 【▷】 keys.

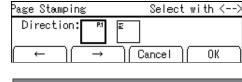


Note

- □ You can also enter the page number with the Number keys.
- □ To change the value entered, press the **[Clear/Stop]** key and enter the new value.
- **4** Press the **[OK]** key.

Optional Functions

Select the desired orientation with the [←] [→] or [<] [▷] keys.</p>

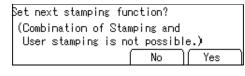




$\leftarrow) (\rightarrow) (Cancel) (OK)$

2 Press the [OK] key.

Belect the [Yes] or [No] key.



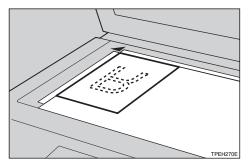


🖉 Note

- Press the [Yes] key if you wish to set the other Stamp functions.
- Set your original and press the [Start] key.

Setting your originals (\Box) on the exposure glass (contact glass)

• Set the first original as shown in the illustration.

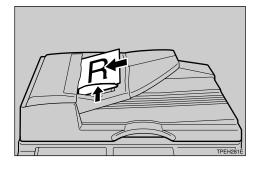


Solution Note

□ Repeat step **9** for the other originals.

Setting your originals (D) in the optional document feeder

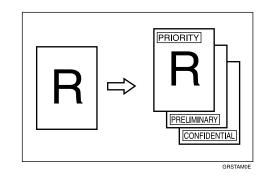
• Set your originals as shown in the illustration.



Note

□ The first original should be on the top.

Stamp—Having Preset Messages **Stamped on Prints**



One of the following 3 messages can be stamped on prints.

CONFIDENTIAL

PRIORITY

PRELIMINARY

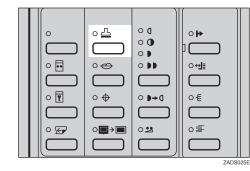
Limitation

- □ The optional memory board is required.
- □ This function cannot be used with User Stamp.
- □ Only one message can be stamped at a time.

Note Note

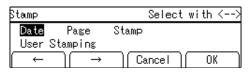
- □ You can change some Stamp settings (size, density, or position) with the user tools. See "Size", "Stamp Density", "Stamp Position" \Rightarrow P.158 "5. Stamp".
- □ The message "CONFIDENTIAL" is selected as a default. You can change this setting with the user tools. See "Type" \Rightarrow P.158 "5. Stamp".

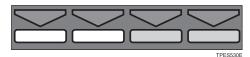
Press the [Stamp] key.





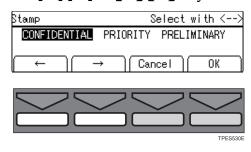
2 Select [Stamp] with the $[\leftarrow] [\rightarrow]$ or **[⊲][▷]** keys.







Select the desired message with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



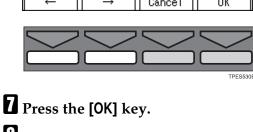
Press the [OK] key.



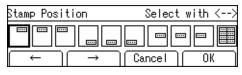
Select the page to be stamped with the $[\leftarrow]$ $[\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.

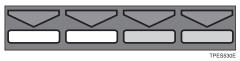
Select with <--> Stamp Page : All Front page only Cancel OK





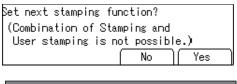
8 Select the stamp position with the $[\leftarrow] [\rightarrow] \text{ or } [\triangleleft] [\triangleright] \text{ keys.}$





Press the [OK] key.

D Select the [Yes] or [No] key.



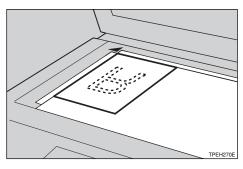


Note

- \square Press the **[Yes]** key if you wish to set the other Stamp functions.
- Set your original and press the [Start] key.

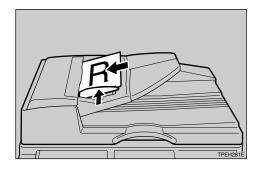
Setting your original (\Box) on the exposure glass (contact glass)

• Set your original as shown in the illustration.



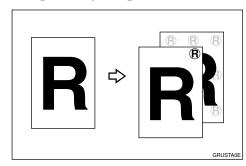
Setting your originals (\mathbf{D}) in the optional document feeder

• Set your originals as shown in the illustration.



User Stamp—Having Custom Messages Stamped on Prints

Up to 4 messages which you use frequently can be stored in the machine memory. You can have these messages stamped on your prints.



Preparation

You have to store your message with the user tools. See \Rightarrow P.172 "5-8 *Regist.* (User)".

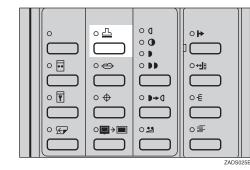
Limitation

- The optional memory board is required.
- □ This function cannot be used with the Stamp function.
- Only one message can be stamped at a time.
- Registered stamps cannot be deleted. If you want to change a registered stamp, overwrite it.

Note

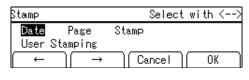
□ You can change some User Stamp settings (size, density, or position) with the user tools. See "Size(User Stamp)", "Density (User)", "Position(User)" ⇒ P.158 "5. Stamp".

Press the [Stamp] key.

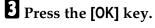




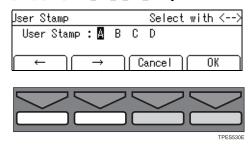
2 Select [User Stamping] with the $[\leftarrow]$ $[\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



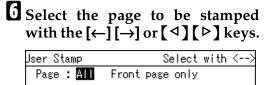




Select the desired stamp with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



Press the [OK] key.

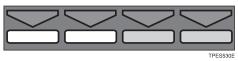




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						\geq	\leq
							TPES530E
7 I	Press	the [() ()	cey.			

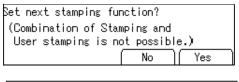
 Select the stamp position with the [←] [→] or [<] [▷] keys.





Press the [OK] key.

D Select the [Yes] or [No] key.



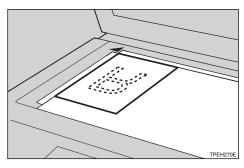


Solution Note

- □ Press the **[Yes]** key if you wish to set the other Stamp functions.
- Set your original and press the [Start] key.

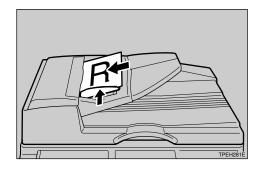
Setting your original (\Box) on the exposure glass (contact glass)

• Set your original as shown in the illustration.



Setting your originals (\Box) in the optional document feeder

• Set your originals as shown in the illustration.



Memory Combine—Combining Originals into one Print with the Memory Board

You can combine originals in four ways:

- ◆ 4 single-sided originals → 1 single-sided print of 4 images 4 one-sided pages are printed onto 1 one-sided sheet, 4 original images on one side.
- ♦ 8 single-sided originals → 1 single-sided print of 8 images
 8 one-sided pages are printed onto 1 one-sided sheet, 8 original images on one side.
- ◆ 16 single-sided originals → 1 single-sided print of 16 images 16 one-sided pages are printed onto 1 one-sided sheet, 16 original images on one side.
- Repeating an image over the entire print 1 original image is printed repeatedly.

Limitation

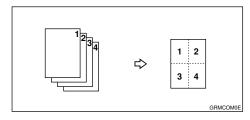
□ The optional memory board is required.

Note 🖉

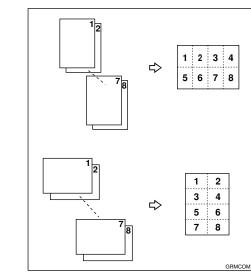
□ A separation line between images can be printed with the user tools. See "Comb. Sep. Line" \Rightarrow P.152 "4. *Mode Setting*".

Combining Several Single-sided Originals onto one Single-sided Print

♦ 4 single-sided originals → 1 single-sided print of 4 images

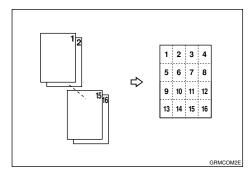


Optional Functions



♦ 8 single-sided originals \rightarrow 1 single-sided print of 8 images

♦ 16 single-sided originals \rightarrow 1 single-sided print of 16 images



Limitation

- □ To use "16 one-sided originals \rightarrow 1 one-sided print of 16 images" mode, the optional document feeder is required.
- □ If the calculated ratio is under the minimum ratio, it is corrected within the range of the ratio automatically. However, with some ratios, parts of the image might not be copied.
- □ The machine cannot copy originals different in size and direction.

Note 🖉

- □ The number of originals printed (combined) can be 4, 8, or 16.
- □ In this mode, the machine selects the reproduction ratio automatically. This reproduction ratio depends on the print paper sizes and the number of originals.
- □ When the original is set at a different direction from the print paper, the machine automatically rotates the original image by 90° to match the print paper direction.



- □ You can set the machine to cancel Memory Combine mode after finishing your print job with the user tools. See "Cancel Comb." \Rightarrow P.152 "4. *Mode Setting*".
- □ Refer to the following table when you select the original and paper sizes.

Setting originals in the optional document feeder (metric version)

Original	A3D	B4 □	A4 🖓 🕞	B5 🖵 🖵	A5 🖓 🕞
Paper					
A3D	*3	*3	*2	*2	*1
B4 🖵		*3	*3	*2	*2
A4 🖓 🖙			*3	*3	*2
B5 🖵 🖵				*3	*3

^{*1} You can use these original and paper sizes in Combine 4, 8, 16 Originals mode.

^{*2} You can use these original and paper sizes in Combine 4, 8 Originals mode.

^{*3} You can use these original and paper sizes in Combine 4 Originals mode.

Setting originals in the optional document feeder (inch version)

Original	11"×17"₽	$8^{1}/_{2}$ "×14"	$8^{1}/_{2}$ " × 11" \square \square	$8^{1}/_{2}$ " × $5^{1}/_{2}$ " \square \square
Paper				
11"×17"□	*3	*3	*2	*1
$8^{1}/_{2}$ " × 14" \square		*3	*3	*2
$8^1/_2$ " × 11" \Box \Box			*3	*2
$5^1/_2$ " × $8^1/_2$ " \square				*3

^{*1} You can use these original and paper sizes in Combine 4, 8, 16 Originals mode.

^{*2} You can use these original and paper sizes in Combine 4, 8 Originals mode.

^{*3} You can use these original and paper sizes in Combine 4 Originals mode.

Setting originals on the exposure glass (metric version)

Original	A3D	Β4□	A4 🖵 🖵	B5 🖵 🖵
Paper				
A3D	*2	*2	*1	*1
B4 D		*2	*2	*1
A4 🖓 🖙			*2	*2
B5 🖵 🖵				*2

^{*1} You can use these original and paper sizes in Combine 4, 8 Originals mode.

^{*2} You can use these original and paper sizes in Combine 4 Originals mode.

Optional Functions

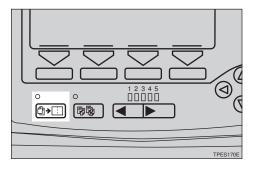
Setting originals on the exposure glass (inch version)

Original	11"×17"₽	$8^{1}/_{2}$ " × 14"	$8^{1}/_{2}$ " × 11" \square \square
Paper			
11"×17"□	*2	*2	*1
$8^{1}/_{2}$ " × 14"		*2	*2
$8^{1}/_{2}$ " × 11" \square \square			*2
$5^1/_2$ " × $8^1/_2$ " D			

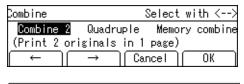
^{*1} You can use these original and paper sizes in Combine 4, 8 Originals mode.

^{*2} You can use these original and paper sizes in Combine 4 Originals mode.

Press the [Combine] key.



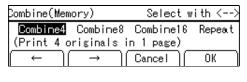
2 Select [Memory Combine] with the $[\leftarrow]$ or $[\triangleleft]$ key.





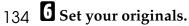
Press the [OK] key.

Select your desired mode.



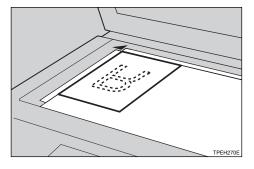






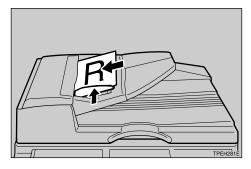
Setting your original (\Box) on the exposure glass (contact glass)

1 Set your original as shown in the illustration.



Setting your originals (\Box) in the optional document feeder

1 Set your originals as shown in the illustration.



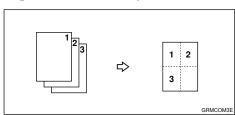
Note 🖉

 \square The first original should be on the top.

2 Press the **[Start]** key.

Note

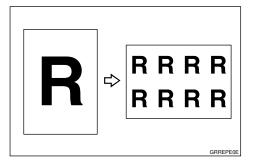
Even if the number of originals is less than the number required in the selected mode, prints can be made as shown in the illustration. In this case, press the [#] key after all the originals have been scanned.



□ When setting an original on the exposure glass (contact glass) or one sheet at a time in the optional document feeder, repeat steps □ and □. After setting the last original, press the [#] key then the [Start] key.

Optional Functions

Repeat—Repeating an Image over the Entire Print



Limitation

Part of the repeated image might not be printed depending on the paper size, direction and reproduction ratio.

Solution Note

- □ The number of repeated images depends on the original and paper size, and reproduction ratio.
- □ Check the following table for the relationship between the direction of the original and paper, and the number of repeated images:

The number of repeated images	Reproduction ratio	Print image
4	71%	GRREPE3E

\bullet E.g. copying A4 \square originals onto A3 \square paper.

♦ E.g. copying A5[□] originals set in the optional document feeder onto A3[□] paper.

Number of repeated im- ages	Reproduction ratio	Print image
16	50%	GRREPE4E

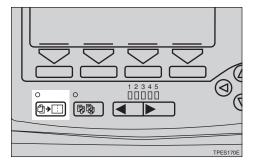
♦ E.g. copying $8^{1/2}$ " × 11" \square originals onto 11" × 17" \square paper.

Number of repeated im- ages	Reproduction ratio	Print image
2	100%	GRREPESE

♦ E.g. copying A5D originals set in the optional document feeder onto A4 paper.

Number of repeated im- ages	Reproduction ratio	Print image
8	50%	GRREPEGE

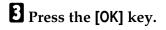
Press the [Combine] key.



2 Select [Memory Combine] with the $[\leftarrow]$ or $[\triangleleft]$ key.

Combine		S	Select w	ith <>
	2 Quadru			combine
(Print 2	originals	in 1	page)	
(←) [→]	Саг	ncel][OK)

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Optional Functions

4 Select [Repeat] with the $[\leftarrow]$ or $[\triangleleft]$ key.

Combine(Memory)	Select with <>		
Combine4 Combine8	Combine16	Repeat	
(Print 4 originals	i <u>n 1 page</u>) _		
$(\leftarrow)(\rightarrow)$	Cancel)	OK)	
	• • • •		
\sim	\sim	\checkmark	



5 Press the [OK] key.

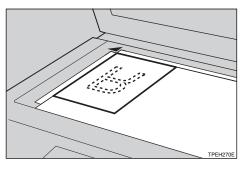
6 Select the reproduction ratio.

See \Rightarrow P.39 "Preset Reduce/Enlarge—Reducing and Enlarging Using Preset Ratios".

2 Set your original.

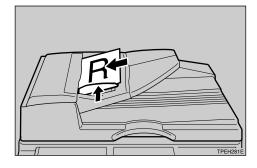
Setting your original (\Box) on the exposure glass (contact glass)

1 Set your original as shown in the illustration.



Setting your originals (\mathbf{D}) in the optional document feeder

1 Set your originals as shown in the illustration.



8 Press the [Start] key.

Sort/Class Sort

Use this function to have the machine scan your originals and automatically sort the prints.

Note 🖉

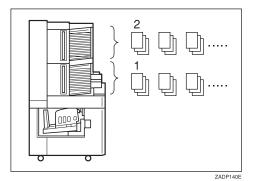
- □ The optional sorter is required.
- □ The paper sizes that can be used with the Sort and Class Sort functions are as follows:

Metric version	A3D, B4D, A4DD, B5D
Inch version	$11" \times 17" \square, 8^{1}/{_{2}}" \times 14" \square, 8^{1}/{_{2}}" \times 11" \square \square$

- The maximum bin capacity is as follows:
 - 50 sheets (52 80g/m², 13.9 21.2 lb)
 - 40 sheets (81 105g/m², 21.5 27.8 lb)
- □ If the prints have many images, the bin capacity might be reduced.
- When the number of prints exceeds the bin capacity, the machine does the following:

Number of Sets	Operation
1 - 20 sets	Prints continue to be delivered to the 21st bin.
21 - 40 sets	Printing stops. Printing restarts when you remove all prints from the bins and press the [Print] key.

□ When you make prints of less than 20 sets (first job) with the Sort/ Class Sort function, the prints are delivered to the lower tray bin. If you make prints (less than 20 sets) of another original with the Sort/ Class Sort function (second job) without removing the previously made prints from the bin, the prints of the second job will be delivered to the upper tray bin of the sorter.

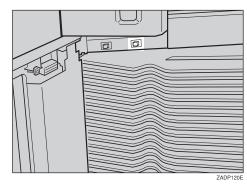


- 1: First Job
- 2: Second Job
- When you remove prints from the bins, be careful not to rub the printed side against the bin. Otherwise, the printed side might be marked with ink. This is likely to occur especially when printing documents with many images or solid areas. As an easy solution, place a blank sheet of paper on top of the stack of originals before you make the master and prints.

Optional Functions

If you cannot remove prints from the sorter bins, you can widen the gap between bins by pressing the green button. If you hold down the button, the bins ripple open.

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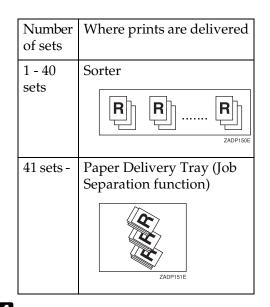
□ When the optional document feeder is installed and the Sort function or Class Sort function is activated with the Auto Cycle function, the machine can make the master and prints in one operation. See ⇒ P.59 "Auto Cycle—Making Master and Prints in one Operation".

Sort—Sorting into Sets (123, 123, 123)

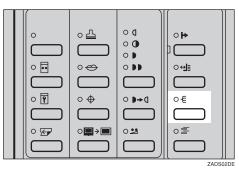
Use this function to have print sets sorted in sequential order.

🖉 Note

□ When the number of prints exceeds 40 sets, the prints are delivered to the paper delivery tray with the Job Separation function.



Press the **[Sorter]** key.



2 Make sure that [Sort] is selected.

Sorter		Select	with <>
Sort	Class-Sort		
		Cancel	OK

- Enter the number of prints using the Number keys.
- **4** Set the originals.
- **5** Press the **[Start]** key.
- **6** Press the **[Print]** key.

🖉 Note

□ A trial print is delivered to the paper delivery tray.

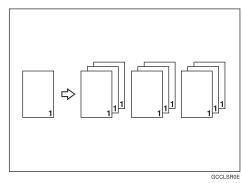
Sort/Class Sort

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- □ The prints are delivered to the bin at the bottom of the sorter.
- □ When you place the originals in the optional document feeder, the machine automatically keeps making their masters without you having to press the **[Start]** key after page 2. Repeat step **G** for the all originals.

Class Sort

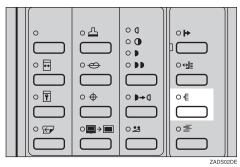
Use this function when copying a single-page original to have the same number of prints stacked in each bin.



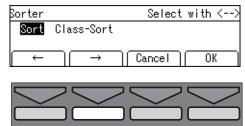
Note

- □ The maximum number of sets that you can enter for the Class Sort function is 38.
- □ If prints remain in the sorter, the maximum number of sets that you can enter is 18.

Press the [Sorter] key.



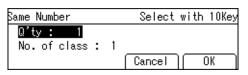
2 Select [Class Sort] with the $[\rightarrow]$ or [▷] key.





Press the [OK] key.

With the Number keys, enter the desired number of prints for each set. Then press the **[#]**key.



5 With the Number keys, enter the desired number of sets. Then press the **[#]** key.

Same Number	Select v	with 10Key
Q'ty : 10 No.of class : 1		
	Cancel	OK

- **6** Press the [OK] key.
- **2** Set your originals.
- B Press the [Start] key. Then press the **[Print]** key.

Note Note

- □ If you wish to make prints of another original with the Class Sort function, repeat the procedure after step **2**.
- **The prints are delivered to the** bin at the bottom of the sorter.

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Optional Functions

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3. Combination Chart

Combination Chart

This combination chart shows which modes can be used together.

$\hat{\mathbf{x}}$	means that these modes can be used together.
Х	means that these modes cannot be used together.
*1	means that these modes cannot be used together (the function cho- sen second takes priority)
*2	means that these modes cannot be used together (the function cho- sen first takes priority)

L												y)																						
		Fu	nct	ion	ch	ose	en s	eco	nd																									
		Auto Paper Select	Letter, Photo, Letter/Photo, Pencil mode	Economy mode	Tint mode	Auto Cycle	Preset Reduce/Enlarge	Zoom	Auto Magnification Selection		Directional Magnification (size)	Combine Originals (2 Images on one sheet)	Combine Originals (4 Images on one sheet)			Memory Combine mode (16 Originals)	Edge Erase	All Class mode		Manual Class mode	Class mode		Overlay		Date Stamp	Page Stamp		User Stamp	Repeat		Skip Feed	Sort	Class Sort	On Line
	Auto Paper Select		Å	Å	☆	☆	☆	*1	*2	*1	*1	\$≾	☆	☆	☆	\$≾	☆	Å	\$	纹	纹	Ř	X	纹	☆	₹Ż	Å	Å	*1	☆	纹	☆	Ř	Х
	Letter, Photo, Letter/ Photo, Pencil mode	☆	-	\$2	*1	☆	☆	☆	☆	\$2	☆	☆	☆	작	☆	☆	☆	\$2	\$2	☆	☆	것	\$2	☆	☆	\$2	\$2	☆	24	*1	☆	\$2	☆	*1
	Economy mode	47	☆	1	☆	☆	☆	43	纹	☆	纹	纹	☆	☆	☆	纹	43	43	42	47	43	☆	☆	☆	Å	纹	☆	43	☆	☆	☆	42	☆	☆
	Tint mode	47	*1	☆		☆	☆	43	纹	☆	纹	纹	☆	☆	☆	纹	☆	43	42	47	43	☆	☆	☆	☆	43	☆	43	☆	*1	☆	☆	☆	*1
	Auto Cycle	☆	☆	☆	☆		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	43	☆	☆	43	\$2	☆	☆	☆	43	☆	☆	☆	☆	☆	☆	☆	☆
	Preset Reduce/Enlarge	☆	☆	☆	☆	☆		☆	*1	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	Å	☆	☆	☆	☆	☆	☆	☆	☆	*1
	Zoom	*2	☆	☆	☆	☆	☆		*1	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1
Ŧ	Auto Magnification Selection	*1	Σ\$	2	전	Σ	*1	*1	1	*1	*1	\$X	\$2	작	첫	\$X	\$2	47	24	\$X	\$2	25	Σζ>	\$2	것	\$2	2	47	*1	Σζ>	\$2	2	전	*1
sen firs	Directional Magnification (%)	*2	Σ	Σ	\$2	☆	*1	*1	*1		*1	☆	☆	☆	☆	☆	Σ	Σ¢	Σ	Σ	Σ	Σ	Σ	Σ	☆	☆	Σ	Σ¢	☆	Σ	Σ	\$	\$2	*1
Function chosen first	Directional Magnification (size)	*2	☆	☆	☆	☆	*1	*1	*1	*1		☆	☆	☆	☆	☆	☆	☆	\$2	☆	☆	\$¢	\$¢	☆	☆	☆	☆	☆	☆	\$¢	☆	☆	☆	*1
Functio	Combine Originals (2 Images on one sheet)	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆		*1	*1	*1	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	☆	☆	☆	☆	*1
	Combine Originals (4 Images on one sheet)	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1		*1	*1	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	☆	☆	☆	☆	*1
	Memory Combine mode (4 Originals)	☆	\$2	\$2	☆	☆	☆	☆	₹	☆	☆	*1	*1		*1	*1	☆	☆	\$2	☆	☆	₹¢	*2	*2	*2	*2	*2	*2	*1	*2	☆	\$2	☆	*1
	Memory Combine mode (8 Originals)	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	*1		*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	*2	☆	☆	☆	*1
	Memory Combine mode (16 Originals)	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	*1	*1		☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	*2	☆	☆	☆	*1
1	Edge Erase	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆		☆	Å	☆	☆	Å	젔	☆	☆	☆	☆	☆	☆	젔	☆	☆	☆	*1
	All Class mode	*2	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	ঐ	☆	☆		*1	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*1

Combination Chart

		Fu	nct	ion	ch	ose	n s	eco	nd																									٦
		Auto Paper Select	Letter, Photo, Letter/Photo, Pencil mode	Economy mode	Tint mode	Auto Cycle	Preset Reduce/Enlarge	Zoom	Auto Magnification Selection	Directional Magnification (%)	Directional Magnification (size)					Memory Combine mode (16 Originals)		All Class mode	Auto Class mode	Manual Class mode		Job Separation	Overlay	Form		Page Stamp	Stamp	User Stamp	Repeat	Make-up	Skip Feed			On Line
1	Auto Class mode	*2	₹	₹	☆	₹	Ř	☆	Σţ	Σ	Å	☆	文	☆	Σ	₹\$	Σ	*1	-	*1	*1	☆	Σ	☆	☆	Ř	☆	Å	Σ	Σ	Σ	*2		*1
	Manual Class mode	*2	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1		*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2		*1
	Class mode	*2	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆		*1	*1	*1		☆	☆	☆		☆	☆	☆	☆	☆	☆	*2		*1
	Job Separation	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆		☆	☆	☆	☆		☆	☆		☆	☆	☆	☆	☆	☆	Х		☆
	Overlay	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆		*1	*2	*2	*2	*2	*2	*2	☆	☆		*1
	Form	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*1		*2	*2	*2	*2	*2	*2	☆	☆		*1
irst	Date Stamp	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2		*2		☆	☆	☆	☆	☆	*2	*2		☆	☆	☆	*2	☆	☆	☆		*1
en f	Page Stamp	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*2	*2	☆		Å	☆	*2	☆	☆	☆		*1
hose	Stamp	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*2	*2	☆	☆		*2	*2	☆	☆	☆		*1
Function chosen first	User Stamp	\$	☆	☆	Å	☆	☆	43	\$≾	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	Å	☆	Å	*2	*2	☆	☆	*2		*2	Ř	☆	☆		*1
ncti	Repeat	*2	☆	☆	Å	☆	☆	43	*2	자	자	*1	*1	*1	*1	*1	자	자	지	자	文	었	*2	*2	*2	*2	*2	*2		*2	자	☆	☆	*1
Fui	Make-up	Ř	*2	☆	*2	☆	☆	☆	Å	X	Ř	☆	X	*2	*2	*2	Ř	Ř	☆	Å	☆	☆	*1	*1	*2	*2	*2	*2	*2		Ř	☆	☆	*1
	Skip Feed	☆	☆	☆	☆	☆	☆	☆	☆	Å	Ř	☆	Å	☆	X	Ř	Å	Ř	☆	☆	☆	☆	☆	☆	☆	☆	☆	Ř	☆	것	1	☆	☆	☆
	Sort	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	Х	☆	☆	☆	☆	☆	☆	☆	☆	☆		*1	$\overrightarrow{\Delta}$
	Class Sort	Ŕ	☆	☆	☆	☆	☆	☆	☆	☆	Ř	☆	☆	☆	25	\$	☆	*2	*2	*2	*2	Х	☆	☆	☆	☆	☆	☆	☆	Ř	☆	*1		Х
	On Line	☆	*2	☆	*2	☆	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	☆	*2	*2	*2	*2	*2	*2	*2	*2	☆	☆	Х	
	Image Rotation	☆	☆	☆	☆	☆	☆	☆	☆	Х	Х	Х	Х	☆	X	Å	Å	Å	☆	☆	☆	☆	Х	Х	Х	Х	Х	Х	Х	Х	Å	☆	公	Х
	Master Saving	Å	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	$\overset{\wedge}{\bowtie}$	Å	☆	☆	☆	☆	☆	$\stackrel{\wedge}{\boxtimes}$	☆	$\stackrel{\wedge}{\bowtie}$	☆	$\overrightarrow{\Delta}$	$\stackrel{\wedge}{\bowtie}$	$\overset{\wedge}{\bowtie}$	☆	☆	Å	☆	☆	☆	Х

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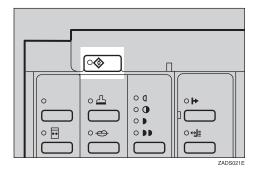
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Accessing the User Tools

The user tools allow you to customize various default settings. This section is intended for the machine administrator.

Press the [User Tools] key.

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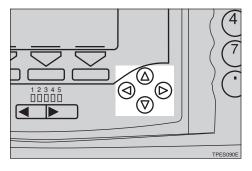


2 Select the desired user tools menu. See \Rightarrow P.147 "User Tools Menu".

Jser Tools 1/2	Select with 🍣
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Using the [\triangleleft], [\triangleright], [\triangle], or [∇] key

Search for the desired user tool number (1 to 6) with the [<],
 [▷], [△], or [▽] key.

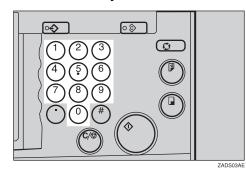


🖉 Note

- □ **[Next]**: Press to go to the next page.
- □ **[Prev.]**: Press to go back to the previous page.
- **2** Press the **[OK]** key.
- Search for the desired user tool number of each function with the [<], [▷], [△], or [♥] key.</p>
- **4** Press the **[OK]** key.

Using the Number keys

Enter the desired user tool number (1 to 6) with the Number keys.



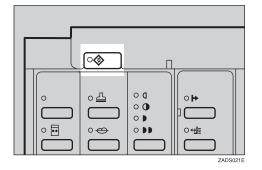
- **2** Press the [OK] or **[#]** key.
- 3 Enter the desired user tool number of each function with the Number keys.
- **4** Press the [OK] or **[#]** key.

Change the settings by following the instructions on the panel display. Then press the [OK] key.

Note

- □ To change the value entered, press the **[Clear/Stop]** key before pressing the **[OK]** key. Then enter the new value.
- □ **[Cancel]**: Press to return to the previous menu without changing any data.

Press the [User Tools] key to return to the standby display.



🖉 Note

- □ The settings are not canceled even if the main switch is turned off or the **[Clear Modes**/ **Energy Saver]** key is pressed.
- You can also return to the standby display by pressing the [Cancel] key.

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User Tools Menu

For how to access the user tools, see \Rightarrow P.145 "Accessing the User Tools".

1. System

No.	Mode	Description
1	Auto Reset	The machine returns to its initial condition automatically after your job is finished. The automatic reset time can be set from 1 to 5 minutes or off (0 minute).
		NoteDefault: Off
2	R. Counter Dis- play	Use to display the total number of masters and prints. Note
		 A trial print delivered to the paper delivery tray after pressing the [Start] key will not be counted.
3	Reset R. Coun- ter	Choose whether the total number of masters and prints is reset.
		SP Note
		□ Default: <i>Not clear</i>
4	Set User Code	Selects User Code mode. For details about User Code mode, see \Rightarrow P.160 "6. Set User Code(s)" Use Code(s).
		SP Note
		Default: Not to use
6	mm/inch	Choose the units of measurement shown on the panel display.
		✓ Note□ Default:
		• Metric version: <i>mm</i>
		• Inch version: <i>inch</i>
7	Language on LCD	The language used for panel display messages can be se- lected.
		NoteDefault: English

No.	Mode	Description
8	Time Setting	Use to set the machine's internal clock.
		 Note The clock must be adjusted if you change the clock to daylight saving time/summer time, or return to stand-
		ard time.
		₽ Reference
		For how to set the clock, see \Rightarrow P.162 "1-8 Time Setting".
9	Auto Online	Specifies whether On Line mode is automatically selected when the machine detects the data from the personal com- puter.
		\Box Default: <i>ON</i>
10	Data Print	Use to print out the following data.
		□ Available settings:
		• Log Data (Number of prints made, how many times paper misfeeds occur and so on.)
		• Reset Counters (Number of prints and master made under each user code.)
		• Store Class (Registered number of students in each class.)
11	Energy Saving	You can set the time until the Energy Saver mode starts.
		Default: 3 Min. (minutes)

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2. Se	t Op	erati	on I	Mode
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No.	Mode	Description
1	Min. Quantity	The minimum print quantity can be set between 0 and 9999.
		Example: If you specify 20 as minimum number of prints, runs of 20 or more prints will be accepted, runs of less than 20 prints will not be accepted.
		S Note
		\Box Default: 0
2	Max. Quantity	The maximum print quantity can be set between 0 and 9999.
		Service Note
		□ Default: 9999
3	CopyCount Display	The counter can be set to show the number of prints made (Up), or the number of prints remaining to be made (Down).
		□ Default: <i>Down</i>
5	Panel Beeper	Turns the beeper on or off.
		□ Default: <i>STD</i> . (standard)
		□ Available settings:
		• ALL OFF (The beeper does not sound when you press keys or when warning messages appear on the panel display.)
		• STD. (When you press a key, the beeper does not sound. When warning messages appear on the panel display, the beeper sounds.)
		 ALL ON (The beeper sounds when you press a key or when warning messages appear on the panel dis- play.)
6	LCD Contrast	You can adjust the brightness of the panel display.
7	Delivery Ca-	You can set the maximum number to make prints.
	pacity	 Note Default: Yes (1000 sheets)

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3. Initial Setting

No.	Mode	Description
1	Paper Type	Specifies the paper type at power on.
		P Note
		\Box Default: <i>Std.</i> (Standard)
2	MSTR Makg. Density	Specifies the image density at power on.
	Density	Note
		Default: <i>Std.</i> (Standard)
3	Original Priori- ty	Specifies the original mode at power on.
		Note
		Default: Letter
4	Reproduction Ratio	Adjust a fixed reproduction ratio between 50 and 200%.
		Note
		 Default: Metric version: 71%, 82%, 87%, 93%, 100%, 115%,
		• Metric Version: 71 %, 82 %, 87 %, 93 %, 100 %, 113 %, 122%, 141%
		 Inch version: 65%, 74%, 77%, 93%, 100%, 121%, 129%, 155%
		₽ Reference
		For how to set the ratios, see \Rightarrow P.162 "3-4 Reproduction Ratio" 3–4 Reproduction ratio.
5	Class Enter No.	Before using All Class or Auto Class mode, register the number of students in each class with this function.
		Note
		 You can store student numbers for up to 9 grades with 12 classes in each, giving a maximum of 108 classes. Each class can have up to 9999 students.
		For how to register the number of students, see \Rightarrow P.163 "3-5 Class Enter No." 3–5 Class NO.
6	Photo(Light- ness)	Specifies the lightness in Photo or Letter/Photo mode when you press the [Original] key.
		 ✓ Note □ Default: Std. (Standard)

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User Tools Menu

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No.	Mode	Description
7	Photo(Screen)	Specifies the screen image in Photo mode when you press the [Original] key.
		D Default: <i>Std.</i> (Standard)
8	Tint Mode	Specifies whether Tint mode is selected at power on.
	ON/OFF	
		Default: OFF
9	Margin	Adjust the erase edges margin.
	Eras.Area	
		□ Default: 2 <i>mm</i> , 0.1″
		For how to adjust the erase edges area, see \Rightarrow P.164 "3-9 <i>Margin Erase Area</i> ".
10	Ppr. Size[On- line]	Specifies the paper size when you press the [On Line] key.
		Default: Auto
11	Ratio Priority	You can set the ratio primarily displayed when you press the [Ratio] key.
12	Del Tray Posi- tion	When the paper misfeed occurs or the prints does not align well, adjust the delivery tray position.
		Note
		□ Perform the fine adjustment for each paper size.
		₽ Reference
		For how to change the position, see \Rightarrow P.165 "3-12 Del. <i>Tray Position</i> "

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4. Mode Setting

No	Mada	Description
No.	Mode	Description
1	Auto Cycle ON/OFF	Specifies whether Auto Cycle mode is selected at power on.
		NoteDefault: ON
2	Class Manual Set	You can use one original or multiple originals in Manual Class mode.
		NoteDefault: <i>Std.</i> (One original)
3	Ignore Paper Size	If you are making prints on non-standard paper and the original image does not entirely appear on the print, set paper size detection to "Ignore". The machine will not detect the length of paper.
		NoteDefault: Not to ignore
4	No Orig. Size(ADF)	When you set long originals in the optional document feeder, set original detection to "Ignore". The machine will not detect the original size.
		NoteDefault: Not to ignore
5	No Orig. Size	When you set originals of non standard sizes on the expo- sure glass (contact glass), set original detection to "Ignore". The machine will not detect the original size.
		NoteDefault: Not to ignore
6	Background ON/OFF	When you make prints in Photo, Letter/Photo, or Tint mode, the background of the prints might become dirty. Turn Background On to improve the clarity of your prints.
		 Note Default: W/O back. correction (off)
7	Longer Paper	You can select whether you can use paper longer than 432mm, 17.0" or not.
		NoteDefault: Not to use

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User Tools Menu

No.	Mode	Description
8	Combine	If you select "Automatic (Auto Combine mode)", you can make two or four identical images on the one sheet by pressing the [Combine] key and [Start] key.
		NoteDefault: Normal (Combine Originals mode)
		\checkmark ReferenceFor how to use Auto Combine mode, see \Rightarrow P.76 "Auto Combine Mode—Having Images Repeated on one Print".
9	Comb. Sep.	You can select a separation line in Memory Combine mode.
	Line	 Limitation You can use this function only when you have an optional memory board.
		Note Default: None
		□ Available settings:
		• a = None
		• b = Solid
		• $c = Broken1$
		• d = Broken2
		• e = CropMarks
10	Cancel Comb.	Specifies whether Combine Originals or Memory Combine mode is cleared after finishing your print job.
		NoteDefault: Not to cancel

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No.	Mode	Description
11	No. of Skip Feed	Specifies the number of drum rotations in Skip Feed mode at power on. You can also select whether you can change the number of drum rotations temporarily when you press the [Skip Feed] key. See \Rightarrow P.78 " <i>Skip Feed Printing</i> ".
		✓ Note□ Default:
		Panel display: <i>Display</i>
		• Number of Skip Feed: 2
		\checkmark ReferenceFor how to change number of rotations, see \Rightarrow P.166 "4-11 No. of Skip Feed".
12	Idling for Q.start	When you use the Manual Quality Start function, you can select how many times the drum unit idles.
		 Note Default: 45
13	Setting Q.start	If the machine is not used for a long period of time, the ink on the drum might dry causing image quality to deterio- rate. The Auto Quality Start function automatically recov- ers image density quality after a selected time has passed. If Auto Quality Start is set to "Not to use", you can regain print quality by making a few extra prints or you can use Manual Quality Start mode.
		 Note Default: To use
14	No. of Q.start	You can select how many times the drum unit idles after the following time periods have passed in Auto Quality Start mode.
		To increase the print image density, increase the number of drum rotations, and vice versa.
		P ReferenceFor how to change the number of idle spins, see \Rightarrow P.167"4-14 No. of Q.start".

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User Tools Menu

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No.	Mode	Description
15	Deflector Angle	You can change the angle of the wing guide depending on the paper type you use.
		P Note
		Default: Auto
		□ Available settings:
		• Up (Select this setting when standard thickness or thin paper misfeeds at the paper exit section occur frequently.)
		 Down (Select this setting when A4 – B5, 8¹/₂" × 11" thick paper is not delivered properly to the paper de- livery tray.)
16	Auto Class	When you do not use the Job Separation function, you can select the machine's condition after each printing set is fed out to the paper delivery tray.
		S Note
		□ Default: <i>Stop</i>
		□ Available settings:
		• Start printing automatically (After the last page of each printing set is fed out to the paper delivery tray, the machine stops for a few seconds. Then, the next cycle begins.)
		• Stop (After the last page of each printing set is fed out to the paper delivery tray, the machine stops. If you press the [Print] key, the next cycle begins.)
17	Auto Separate	Specifies whether Job Separation mode is automatically carried out when you make prints in All Class, Auto Class, Manual Class, or Class mode.
		NoteDefault: ON
18	Ink/Master Left	Specifies whether you can check the amount of ink and master.
		NoteDefault: OFF
		□ Available settings:
		• OFF (You cannot check the remaining amount of ink or master.)
		• ON (When the remaining amount of ink or master is less than half, the panel display indicates these amounts when you turn on the main switch.)
		• Check remaining volume (You can see the remaining amounts of ink and master regardless of these amounts.)

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No.	Mode	Description
19	Type of Paper	When one kind of paper misfeeds occur frequently, you can register its paper type in "User1" or "User2".
		P ReferenceFor how to register a special paper type, see \Rightarrow P.168 "4-19 Type of Paper".
20	Auto Rotation	When the direction in which your original is set is different from that of the paper, and your machine is equipped with the optional memory board, the machine automatically ro- tates the original image by 90° to match the paper direc- tion. You can cancel this setting.
		NoteDefault: ON
21	Master length	The machine determines the master length according to the number of originals set in the optional document feeder and the paper sizes. If you wish to use $A3/11" \times 17"$ master regardless of the number of originals set and the paper sizes, select "A3".
		NoteDefault: Auto
22	Tray Priority	When the same size of paper is placed on Tray 1 and Tray 2, you can specify which tray should be used first by the Auto Paper Select.
		NoteDefault: Tray 1
23	Limitless Feed- ing	When the same size of paper is loaded in the tray and ex- ternal tray, the machine automatically takes paper from the other and continues printing if one of them runs out of pa- per.
		NoteDefault: ON

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User Tools Menu

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No.	Mode	Description
24	Tray Display	By default, when you open the external tray it becomes the selected paper tray. This is useful if you only use the external tray for printing onto specific types of paper that cannot be set in the other trays e.g. thick paper, thin paper and envelopes. However, if you wish to use the external tray for standard paper types and have it treated just like trays 1 and 2, choose "2 Trays + External Tray".
		• 2 Trays When you open the external tray it becomes the selected paper tray. To print on paper from tray 1 or 2, you must close the external tray. See ⇒ P.24 "Printing from the Ex- ternal Tray".
		• 2 Trays + External Tray When the external tray is open, you can select any of the three trays. In addition, all three trays become available for the "Limitless Feeding" function. ⇒ P.152 "4. Mode Setting".
		Note
		 Default: 2 Trays When "2 Trays + External Tray" is selected, you cannot select the paper type for the external tray and make prints on thin paper, thick paper or envelopes.
25	Jogger	You can set priority for the image or aligning the prints when using the sorter.
		 Note Default: Every page
26	Auto Paper Se- lect	You can configure the Auto Paper Select function to be ac- tivated or deactivated even when the main switch is turned on or the [Clear Modes/Energy Saver] key is pressed.
		✓ Note□ Default: ON
27	Adjusting sharpness of letters	Adjusts the sharpness of text in Letter mode.
		Note Default: Standard
		When "Thin Lettering" is selected, shadows of pasted originals might appear on prints.

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5. Stamp

🖉 Note

□ You can use these functions only when you have an optional memory board.

No.	Mode	Description
1	Туре	You can change the message selected at power on with the Stamp function.
		Default: CONFIDENTIAL
2	Size	You can edit the preset stamp sizes.
		S Note
		\Box Default: <i>Standard</i> (about 32 × 64mm)
		Adjustment values:
		Double size
		• 4 (4 times)
		• 8 (8 times)
3	Stamp Density	You can select the style of the stamps.
		□ Default: <i>Solid-fill</i>
4	Stamp Position	You can edit the preset stamp position.
		$\Box \text{ Default: See} \Rightarrow P.168 \text{ "5-4 Stamp Position"}.$
		$\Box \text{ Available settings: See} \Rightarrow P.168 \text{ "5-4 Stamp Position"}.$
		\mathcal{P} Reference
		For how to adjust the stamp position, see \Rightarrow P.168 "5-4 <i>Stamp Position</i> ".
5	Size(User	You can edit the user stamp sizes.
	Stamp)	S Note
		□ Default: <i>Standard</i> (about 32×64 mm)
		□ Available settings:
		Double size
		• 4 (4 times)
		• 8 (8 times)

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User Tools Menu

No.	Mode	Description
6	Density(User)	You can select the style of user stamps.
		 Note Default: Solid-fill
7	Position(User)	You can edit the user stamp position.
		 ✓ Note □ Default: See ⇒ P.170 "5-7 Position (User)". □ Available settings: See ⇒ P.170 "5-7 Position (User)". ✓ Reference
		For how to adjust the stamp position, see \Rightarrow P.170 "5-7 <i>Position (User)</i> ".
8	Regist.(User)	You can register user stamps.
		 Note Registered user stamps cannot be deleted. If you want to change a registered stamp, overwrite it.
		P Reference For how to register a user stamp, see ⇒ P.172 "5-8 Regist. (User)".
9	Date Style Set	You can select the style of the date stamp.
		NoteDefault: Month Day Year
10	Date Position Set	You can select the date stamp direction at power on in Date Stamp mode.
		 Note Default: Upper Left
11	Position(Date)	You can edit the date stamp position.
		 ✓ Note □ Default: See ⇒ P.173 "5-11 Position (Date)". □ Available settings: See ⇒ P.173 "5-11 Position (Date)".
		°
		✓ Reference For how to adjust the date stamp position, see ⇒ P.173 "5-11 Position (Date)".
12	Type(Page)	You can select the page numbering style at power on in Page Stamp mode.
		 Note Default: <i>P1,P2</i>

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No.	Mode	Description
13	Direction(Page)	You can select the page numbering direction at power on in Page Stamp mode.
		Note
		□ Default:
		• When you select "P1,P2" or "1/5,2/5" with the "Type(Page)" user tool: <i>Upper Right</i>
		• When you select "-1-,-2-" with the "Type(Page)" user tool: <i>Down Center</i>
14	Position(Page)	You can edit the page numbering position.
		S Note
		$\Box \text{ Default: See} \Rightarrow P.174 \text{ "5-14 Position (Page)"}.$
		\Box Available settings: See \Rightarrow P.174 "5-14 Position (Page)".
		<i>₽</i> Reference
		For how to adjust the page numbering position, see \Rightarrow P.174 "5-14 Position (Page)".
15	Make/Chg.	Make your own background pattern in Make-up mode.
	Pattern	S Note
		\Box You can edit the 40 preset patterns.
		PReference
		For how to change the background pattern, see \Rightarrow P.175 "5-15 Make/Chg. Pattern".

6. Set User Code(s)

User Codes

If user codes are turned on, operators must input their user codes before they can operate the machine. The machine keeps count of the number of copies made under each user code. Turn this function on with the "Set User Code(s)" user tool. You can also turn on Key Operator Code mode so that only the key operator (administrator) can use the functions below.

1	Check Counter	You can check the number of masters and copies made under each user code.
		✓ Reference For how to check the number of masters and copies, see \Rightarrow P.176 "6-1 Check Counter".

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User Tools Menu

	D i C	
2	Reset Counters	You can clear each or all user code counters.
		S Note
		Default: Single
		₽ Reference
		For how to clear the number of masters and copies, see
		\Rightarrow P.176 "6-2 Reset Counters".
3	Reg. User Code	You can register user codes.
		\Box Up to 20 user codes (up to 4 digits) can be registered.
4	Chg. User Code	You can change user codes.
		Note
		The number of copies made under the old code is add- ed to that made under the new user code.
		For how to change the user codes, see \Rightarrow P.177 "6-4 Chg. User Code".
5	Del. User Code	You can delete user codes.
		The number of copies made under the deleted code is also deleted.
		PReference
		For how to delete user codes, see \Rightarrow P.178 "6-5 Del. User Code".
6	Key Operator	Use to turn Key Operator Code mode on or off.
	Code	Note
		Default: Not to use
7	Reg/Chg KeyOp- Code	You can register or change key operator codes. (up to 4 digits)
8	Restricted Access	In Key Counter mode, you have to set the key counter be-
		fore making prints. (To turn on Key Counter mode, con- tact your service representative.) If Key Counter mode is on, Restricted Access is turned on ("To use") automati- cally. If you turn Restricted Access off ("Not to use"), you
		can make prints without inserting the key counter.
		NoteDefault: Not to use

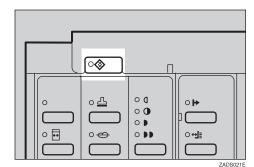
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User Tool Menus in Detail

1-8 Time Setting

Press the [User Tools] key.



2 Make sure that "1" is selected. Then press the [OK] key.

		-	
perat	ion M	ode	
4 Mode Setting			
חר	OK		
		Setting	



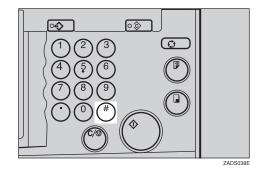
Enter 8 with the Number keys. Then press the [OK] or [#] key.

System 1/3	Select with 💖
1 Auto Reset	2 R. Counter Display
3 Reset R. Counter	4 Set User Code
Prev. Next	Cancel OK

Enter the year with the Number keys.

Time Setting	With	Ten keys	and Enter
Present: y1999m			
Change : y <mark>1999</mark> m	7d23	16:21:24	
) (Cancel	OK

5 Press the **[#]** key.



- **1** Input the month with the Number keys.
- **2** Press the [Enter] key.

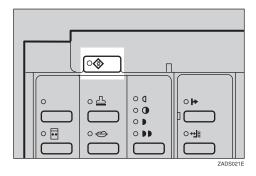
Solution Note

□ Follow steps **①** and **②** for the "date", "hour", "minute", and "second".

8 Press the [OK] key.

3-4 Reproduction Ratio

Press the [User Tools] key.



2 Enter 3 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 🌼			
1 System	2 Set Operation Mode			
3 Initial Setting	4 Mode Setting			
Prev. Next	Cancel OK			

4

Enter 4 with the Number keys. Then press the [OK] or [#] key.

Jser Tools 1/3	Select with 💖
1 Paper Type	2 MSTR Makg. Density
3 Original Priority	4 Reproduction Ratio
Prev. Next	Cancel OK

Select the ratio you want to adjust with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.





5 Press the [Adjust.] key.

6 Enter the desired ratio with the $[\leftarrow] [\rightarrow] \text{ or } [\triangleleft] [\triangleright] \text{ keys.}$

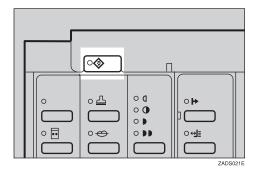
Solution Note

□ You can also enter the ratio with the Number keys.

2 Press the [OK] key twice.

3-5 Class Enter No.

Press the [User Tools] key.



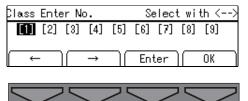
2 Enter 3 with the Number keys. Then press the [OK] or [#] key.

Jser Tools 1/2	Select with 💖			
1 System	2 Set Operation Mode			
3 Initial Setting	4 Mode Setting			
Prev. Next	Cancel OK			

3 Enter 5 with the Number keys. Then press the [OK] or [#] key.

Jser Tools	1/3		Selec	t with ∞
1 Paper Ty			MSTR Makg	
3 Original	Priority	4	Reproduct	ion Ratio
Prev.	Next	Iſ	Cancel	OK

Select the grade with the [←] [→] or [<] [▷] keys.



5 Press the [Enter] key.

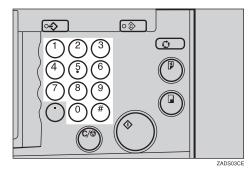
6 Select the class with the $[\leftarrow] [\rightarrow]$

Class En	ter No.		Sele	ct v	vith	10Ke	у #
[1]	1: 30	2:	30	3:	30	4:	30
	5:	6:-		7:-		8:-	
(←] →		Can	cel	חר	OK	\neg





2 Enter the number of students with the Number keys. Then press the **[#]** key.



🖉 Note

□ Repeat steps **□** and **□** until you have finished registering number of students in each class.

B Press the [OK] key.

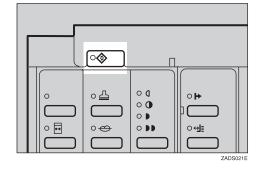
🖉 Note

□ Repeat steps Ⅰ through Ⅰ until you have finished registering number of students in each class for the other grades.

Press the [OK] key.

3-9 Margin Erase Area

Press the [User Tools] key.



2 Enter 3 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 🍣			
1 System	2 Set Operation Mode			
3 Initial Setting	4 Mode Setting			
Prev. Next	Cancel OK			

Enter 9 with the Number keys. Then press the [OK] or [#] key.

Jser Tools	1/3		e e e e e e e e e e e e e e e e e e e	Sele	ct	with	%
1 Paper Typ						Densi	
3 Origi⊓al	Priority	4	Repro	oduc	tic	on Rat	tio
Prev.	Next	ſ	Cance	∍I]	Г	OK	٦

Select the original size you will use with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.

Margin	Erase	Initia	al set	ting w	ith <>
A3⊡7	B4 🖙				
A5⊡	A5 🖓	A6⊡7	A6 🖓	ж(10	0x148)
←		\rightarrow] Se	lect	OK

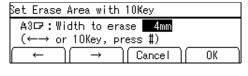


5 Press the [Select] key.

6 Adjust the erase edge margin.

If you selected A3 to A6 or 11" \times 17" to $5^{1}/_{2}$ " $\times 8^{1}/_{2}$ "

● Adjust the erase edge margin with the [←] [→] or [<] [▷] keys.</p>





🖉 Note

□ You can also enter the ratio with the Number keys and the **[#]** key.

If you selected \mathbf{X}

• Enter the erase edge margin with the Number keys.

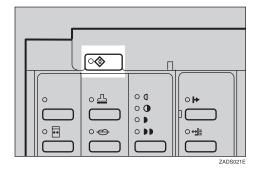
Set Erase <i>i</i>	Set Erase Area with 10Key				
* :Wi	dth to er	ase Omm			
Sia	ze † 50m	m → 58mm			
(→)	(→) Cancel)	(OK		

2 Press the **[#]** key.

- 3 Enter the vertical length of paper you use with the Number keys.
- **4** Press the **[#]** key.
- **S** Enter the horizontal width of paper you use with the Number keys.
- **6** Press the **[#]** key.
- **2** Press the [OK] key twice.

3-12 Del. Tray Position

Press the [User Tools]key.



2 Enter 3 with the Number keys. Then press the [OK] or [#] key.

Jser Tools 1/2	Select with %		
1 System	2 Set Operation Mode		
3 Initial Setting	4 Mode Setting		
Prev. Next	Cancel OK		

Enter 12 with the Number keys. Then press the [OK] or [#] key.

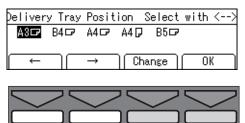
Jser Tools	1/3	Se	elect	with ∞
1 Paper Typ				Density
3 Original	Priority	4 Reproc	ductio	on Ratio
Prev.	(Next)	Cancel	ΠC	OK)

Select paper type with the [←] [→] or [⊲] [▷] keys.



5 Press the [OK] key.

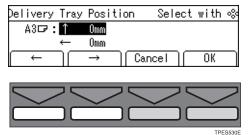
Select paper type with the [←]
[→] or [<] [▷] keys.</p>



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Press the [Change] key.

Adjust the position with the $[\leftarrow][\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.



Note

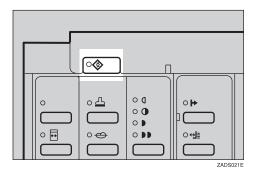
- □ The value increases by pressing the [←] or 【 <] keys. The value decreases by pressing the [→] or [▷] keys.
- □ The value increases or decreases in 1mm, 0.1″ steps.

Press the [OK] key twice.

4-11 No. of Skip Feed

The following procedure explains how to change the number of drum rotations.

Press the [User Tools] key.



2 Enter 4 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 棇
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Enter 11 with the Number keys. Then press the [OK] or [#] key.

Mode Setting 1/7	Select with 💖
1 Auto Cycle ON/OFF	
3 Ignore Paper Size	4 No Orig. Size(ADF)
Prev. Next	Cancel OK

Press the [Change] key.

Skip Feed	Select with <>
Display (Number of Sk	Not display ip Feed: 3)
	→) Change) OK



• Change the number of drum rotations while one sheet of paper is fed with the [←] [→] or [⊲] [▷] keys.

Number of Skip Feed	Select	with <>
Number of Skip Feed: 3		
$(\leftarrow \rightarrow \text{ or } 10 \text{Key, pres})$	ss #)	
$\left(\leftarrow \right) \left(\rightarrow \right)$	Cancel	OK



Solution Note

□ You can also change the number of rotations with the Number keys.

6 Press the [OK] key.

User Tool Menus in Detail

4-14 No. of Q.start

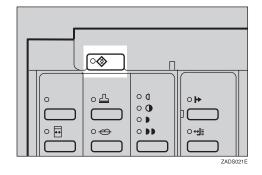
🖉 Note

□ The default settings are as follows:

		Time period			d
		0-4 hours	4 – 24 hours	24 – 72 hours	More than 72 hours
are	Low Tmp. *1	0	15	45	45
eratı	Normal Tmp.*2	0	0	15	15
Temperature	High Tmp.*3	0	0	0	15

- ^{*1} $(10 15^{\circ}C, 50 59^{\circ}F)$
- ^{*2} (15 28°C, 59 82.4°F)
- ^{*3} (28 30°C, 82.4 86°F)

Press the [User Tools] key.



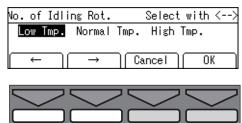
2 Enter 4 with the Number keys. Then press the [OK] or [**#**] key.

Jser Tools 1/2	Select with 🌼		
1 System	2 Set Operation Mode		
3 Initial Setting	4 Mode Setting		
Prev. Next	Cancel OK		

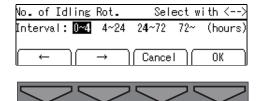
Enter 14 with the Number keys. Then press the [OK] or [#] key.

Mode Settin		Select with 棇	
1 Auto Cycl	e ON/OFF	2 Class Manual Set	
		4 No Orig. Size(ADF)	
Prev.	Next	Cancel OK	

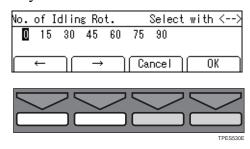
Select the temperature at which you use this machine with the [←]
 [→] or [<] [▷] keys.



- **5** Press the [OK] key.
- G Select the time period you want to change how many times the drum unit idles with the [←] [→] or [<] [▷] keys.



- **2** Press the [OK] key.
- Select the number of drum rotations with the [←] [→] or [<] [▷] keys.</p>

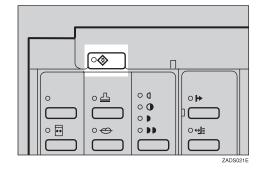


Press the [OK] key.



4-19 Type of Paper

Press the [User Tools] key.



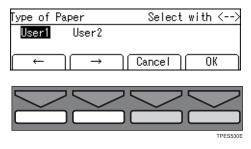
2 Enter 4 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 💖		
1 System	2 Set Operation Mode		
3 Initial Setting	4 Mode Setting		
Prev. Next	Cancel OK		

Enter 19 with the Number keys. Then press the [OK] or [#] key.

Mode Setti	ct with ∞		
1 Auto Cyc	le ON/OFF	2 Class Mar	nual Set
8 Ignore F	aper Size	4 No Orig.	Size(ADF)
Prev.	Next	Cancel	OK

Select [User1] or [User2] with the $[\leftarrow] [\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.





3 Select the paper type and misfeed condition with the $[\leftarrow]$ or $[\rightarrow]$ key.

Jser1	Select with <>
Standard : <mark>No feed</mark> Thick Pap: No feed	Double feed Double feed Medium
\leftarrow) \rightarrow	Cancel OK

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Press the [OK] key.

8 Press the [Cancel] key.

5-4 Stamp Position

🖉 Note

The default position and available settings of each stamp are as follows:

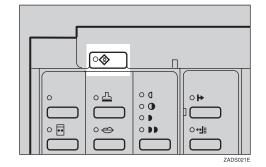
Stamp po- sitions	Default	Available settings
a to b GPSPSSOE	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 -
		144mm, 0.32" – 5.76"
↓a (,) b c	a = 24mm, 0.96" b = 0mm, 0"	a = 8 - 104mm, 0.32" - 4.16" b = -72 -
GRSPOS1E	c = centre line	72mm, – 2.88" – 2.88"

User Tool Menus in Detail

Stamp po- sitions	Default	Available settings
GRSPOS2E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"
GRSPOSse	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"
c b t grspos4e	a = 24mm, 0.96" b = 0mm, 0" c = centre line	a = 8 - 104mm, 0.32" - 4.16" b = - 72 - 72mm, - 2.88" - 2.88"
de la constante de la constant	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"
a c GRSPOS6E	a = 0mm, 0" b = 24mm, 0.96" c = centre line	a = - 52 - 52mm, - 2.08" - 2.08" b = 8 - 144mm, 0.32" - 5.76"

Stamp po- sitions	Default	Available settings
GRSPOS7E	a = 0mm, 0" b = 0mm, 0" c = centre line	a = - 52 - 52mm, - 2.08" - 2.08" b = - 72 - 72mm, - 2.88" - 2.88"
C a GRSPOSSE	a = 0mm, 0" b = 24mm, 0.96" c = centre line	a = - 52 - 52mm, - 2.08" - 2.08" b = 8 - 144mm, 0.32" - 5.76"

Press the [User Tools] key.



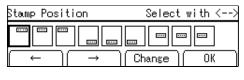
2 Enter 5 with the Number keys. Then press the [OK] or [#] key.

Jser Tools 1/2	Select with 棇
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Enter 4 with the Number keys. Then press the [OK] or [#] key.

Stamp 1/4	Select with 💖
<mark>1 Туре</mark> 3 Stamp Density	2 Size 4 Stamp Position
Prev. Next	Cancel OK

Select the stamp position you want to adjust with the [←] [→] or [<] [▷] keys.





5 Press the [Change] key.

Adjust the horizontal stamp position with the [△] or [▽] key. Then press the [▷] key.

Stamp Position	Select with 🌼
Top Right:↔ 24mm	n 🗘 24mm
(↔: 8~144	↓ ‡ : 8~104)
	Cancel OK

🖉 Note

- □ The value increases or decreases in 4mm, 0.16″ steps.
- Adjust the vertical stamp position with the [△] or [▽] key.
- 8 Press the [OK] key twice.

5-7 Position (User)

🖉 Note

The default position and available settings of each user stamp are as follows:

Stamp po- sitions	Default	Available settings
GPSPOS0E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"

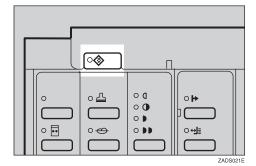
Stamp po- sitions	Default	Available settings
drsposte	a = 24mm, 0.96" b = 0mm, 0" c = centre line	a = 8 - 104mm, 0.32" - 4.16" b = - 72 - 72mm, - 2.88" - 2.88"
GRSPOSZE	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"
GRSPOS3E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"
C , , , b , a GRSPOS4E	a = 24mm, 0.96" b = 0mm, 0" c = centre line	a = 8 - 104mm, 0.32" - 4.16" b = - 72 - 72mm, - 2.88" - 2.88"
b a GRSPOSSE	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 - 104mm, 0.32" - 4.16" b = 8 - 144mm, 0.32" - 5.76"

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User Tool Menus in Detail

Stamp po- sitions	Default	Available settings
a c GRSPOS6E	a = 0mm, 0" b = 24mm, 0.96" c = centre line	a = - 52 - 52mm, - 2.08" - 2.08" b = 8 - 144mm, 0.32" - 5.76"
C C A A A A A A A A A A A A A A A A A A	a = 0mm, 0" b = 0mm, 0" c = centre line	a = - 52 - 52mm, - 2.08" - 2.08" b = - 72 - 72mm, - 2.88" - 2.88"
china GRSPOS8E	a = 0mm, 0" b = 24mm, 0.96"	a = - 52 - 52mm, - 2.08" - 2.08" b = 8 - 144mm, 0.32" - 5.76"

Press the [User Tools] key.



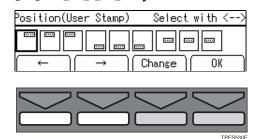
2 Enter 5 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 棇
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Enter 7 with the Number keys. Then press the [OK] or **[#]** key.

Stamp 1/4	Select with 棇
<mark>1 Type</mark> 3 Stamp Density	2 Size 4 Stamp Position
Prev. Next	Cancel OK

Select the user stamp position you want to adjust with the [←]
 [→] or [<] [▷] keys.



- **5** Press the [Change] key.
- Adjust the horizontal user stamp position with the [△] or [▽] key. Then press the [▷] key.

Position(User)	Select with 棇
Top Right: <mark>↔ 24</mark> m	
(↔: 8~14	4 1 : 8~104)
	Cancel OK

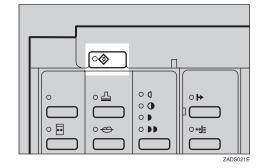
Note

- □ The value increases or decreases in 4mm, 0.16″ steps.
- Adjust the vertical user stamp position with the [△] or [▽] key.
- 8 Press the [OK] key twice.



5-8 Regist. (User)

Press the [User Tools] key.



4

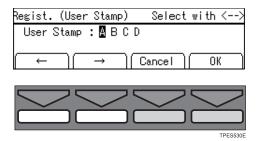
2 Enter 5 with the Number keys. Then press the [OK] or [**#**] key.

Jser Tools 1/2	Select with 棇		
1 System	2 Set Operation Mode		
3 Initial Setting	4 Mode Setting		
Prev. Next	Cancel OK		

Enter 8 with the Number keys. Then press the [OK] or [#] key.

Stamp 1/4	Select with 💖
1 <mark>Type</mark> 3 Stamp Density	2 Size 4 Stamp Position
Prev. Next	. Cancel OK

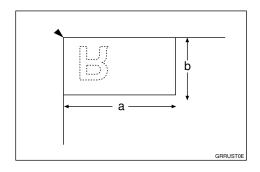
Select one of the four available user stamps with the [←] [→] or [<] [▷] keys.



🖉 Note

□ If the stamp you choose is already being used, the machine asks whether you wish to overwrite it or not. Select the **[Yes]** or **[N0]** key. **5** Press the [OK] key.

5 Set the original you want to register as a user stamp on the exposure glass (contact glass).



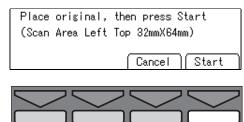
a: 64mm, 2.5"

b: 32mm, 1.2"

Note 🖉

The image area as shown in the illustration will be registered as a user stamp.

Press the [Start] key.



8 Press the [User Tools] key.

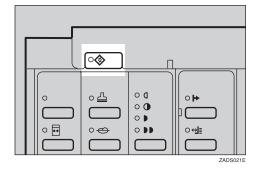
5-11 Position (Date)

🖉 Note

The default position and available settings of each date stamp are as follows:

Stamp po- sitions	Default	Available settings
GRDPOSOE	a = 8mm, 0.32" b = 20mm, 0.80"	a = 8 - 40mm, 0.32" - 1.60" b = 8 - 40mm, 0.32" - 1.60"
	a = 20mm, 0.80''	
B B B B B B B B B B B B B B B B B B B	b = 12mm, 0.48"	
	a = 20mm, 0.80''	
a Xiriumpo;	b = 8mm, 0.32"	
GRDPOS3E		

Press the [User Tools] key.



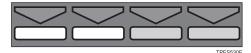
Enter 5 with the Number keys. Then press the [OK] or [#] key.

Jser Tools 1/2	Select with 💖		
1 System	2 Set Operation Mode		
3 Initial Setting	4 Mode Setting		
Prev. Next	Cancel OK		

Enter 11 with the Number keys. Then press the [OK] or [#] key.

Stamp 1/4 Select wit	
1 Type	2 Size
3 Stamp Density	y4
Prev. N	ext Cancel OK

Select the date stamp direction you want to adjust with the [←]
 [→] or [⊲] [▷] keys.



5 Press the [Change] key.

Adjust the horizontal date stamp position with the [△] or [▽] key. Then press the [▷] key.

Position(Date Stampir	ng) – Select with %			
Top Left(H.):↔				
$(\leftrightarrow: 8 \underline{\sim} 40 \ddagger: 8 \underline{\sim} 40)$				
	Cancel OK			

Note

- □ The value increases or decreases in 4mm, 0.16″ steps.
- Adjust the vertical date stamp position with the [△] or [▽] key.
- 8 Press the [OK] key twice.

5-14 Position (Page)

Solution Note

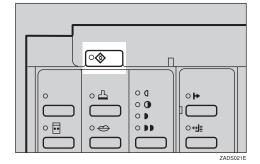
The default position and available settings of each page stamp are as follows:

♦ P1 or ¹/₅

Stamp po- sitions	Default	Available settings
a, t. P.J. b GRPPOSOE	a = 8mm, 0.32" b = 12mm, 0.48"	a = 8 - 40mm, 0.32" - 1.60" b = 8 -
ta ta b grpposie	a = 12mm, 0.48" b = 12mm, 0.48"	40mm, 0.32" – 1.60"

Stamp po- sitions	Default	Available settings
	a = 8mm, 0.32"	a = 8 - 40mm, 0.32" - 1.60"
GRPPOSSE	a = 8mm, 0.32"	a = 8 - 40mm, 0.32" - 1.60"

Press the [User Tools] key.



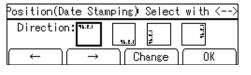
2 Enter 5 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 🌼
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Enter 14 with the Number keys. Then press the [OK] or [#] key.

Stamp 1/4	Stamp 1/4 Select wit		: with	%
1 Type 2 Size				
3 Stamp Density 4		4 Stamp Posi	tion	
Prev.	Next	Cancel]	OK	٦

Select the page numbering direction you want to adjust with the [←] [→] or [<] [▷] keys.





5 Press the [Change] key.

6 Adjust the horizontal page numbering position with the $[\Delta]$ or $[\nabla]$ key. Then press the $[\triangleright]$ key.

Position(Page Stampi	ng) Select with 棇
Top Right(H.):↔	
(↔:	8~40 \$:8~40) [Cancel][K]

Solution Note

- □ The value increases or decreases in 4mm, 0.16" steps.
- Adjust the vertical page numbering position with the $[\Delta]$ or $[\nabla]$ key.

Note 🖉

□ You need not follow step **2** when you select "-1-" as the direction in step **4**.

Press the [OK] key twice.

5-15 Make/Chg. Pattern

Press the [User Tools] key.

r			
	<u>•</u>	Π	
	° <u>⊥</u>	○ () ○ () ○)	••
	∘⇔		

2 Enter 5 with the Number keys. Then press the [OK] or [#] key.

Jser Tools 1/2	Select with 棇
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

B Enter 15 with the Number keys. Then press the [OK] or [#] key.

Stamp 1/4	Select with 🍣
1 Туре	2 Size
3 Stamp Density	4 Stamp Position
Prev. Next	Cancel CAK

Select the background pattern with the $[\triangleleft], [\triangleright], [\triangle], or [\nabla]$ key.

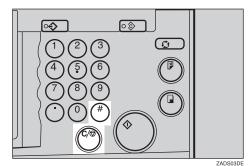
Select Pattern	Select with 🗞
Prev. Next	Change OK

5 Press the [Change] key.

6 Move the cursor to the position you wish to edit with the $[\triangleleft]$, $[\triangleright], [\Delta], or [\nabla] key.$

- -	pattern 01 X:00)Y:00)
	Add dot with Enter.
	Del. dot with Clear.
	Cancel OK

U Press the [**#**] or [Clear/Stop] key to edit the pattern.



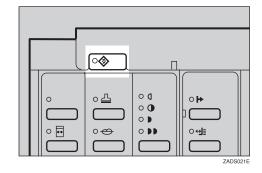
Note

- □ To add a dot, press the [#] key.
- □ To remove a dot, press the [Clear/Stop] key.
- □ Repeat steps **1** and **1** until you have finished editing the pattern.

8 Press the [OK] key twice.

6-1 Check Counter

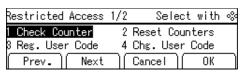
Press the [User Tools] key.

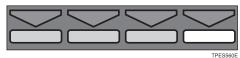


2 Enter 6 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 棇
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

3 Make sure that 1 is selected. Then press the [OK] key.

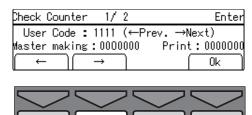




Solution Note

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The number of masters and prints made under the first user code will be displayed in the panel display. ★ Keep pressing the [→] or [▷] key to display the number of masters and prints made under your user code.



5 Press the [OK] key after checking the number of masters and prints made under your user code.

6-2 Reset Counters

Press the [User Tools] key.

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	○ ♦	П,	
○ ○ ○ □	° ₫ 0 ⊕		4 ○ 1 1 1 1 1 1 1 1

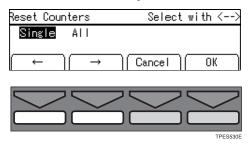
2 Enter 6 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 棇
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Enter 2 with the Number keys. Then press the [OK] or [#] key.

Restricted Access	1/2 Select with	%
1 Check Counter	2 Reset Counters	
3 Reg. User Code	4 Chg. User Code	
Prev. Next	Cancel OK	\neg

Select [Single] or [All] with the $[\leftarrow]$ $[\rightarrow]$ or $[\triangleleft] [\triangleright]$ keys.

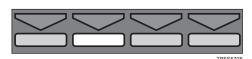


5 Press the [OK] key.

If you selected [Single]

● Keep pressing the [→] or [▷] key to display the number of masters and prints made under your user code.

Reset Coun	ters 1/ 2	Select	with <>
	e:1111		
Master mak	ing:00000	0 <u>0 Prin</u>	t <u>:0000000</u>
(←)	\rightarrow	Cancel	



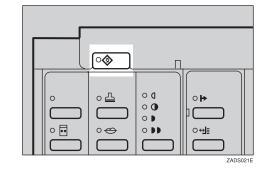
- **2** Press the **[OK]** key.
- **3** Press the **[Yes]** key.
- **4** Press the **[Cancel]** key twice.

If you selected [All]

• Press the [Yes] key.

6-4 Chg. User Code

Press the [User Tools] key.



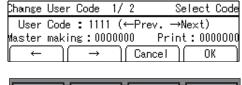
- |4
- **2** Enter 6 with the Number keys. Then press the [OK] or **[#]** key.

Jser Tools 1/2	Select with 💖
1 System	2 Set Operation Mode
3 Initial Setting	4 Mode Setting
Prev. Next	Cancel OK

Enter 4 with the Number keys. Then press the [OK] or [#] key.

Restricted Access	1/2 Select with	%
1 Check Counter	2 Reset Counters	
3 Reg. User Code	4 Chg. User Code	
Prev. Next	Cancel OK	٦

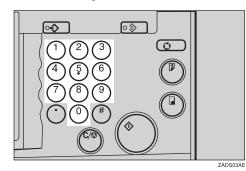
Keep pressing the [→] or [▷] key to display your user code.







6 Enter the new user code with the Number keys.

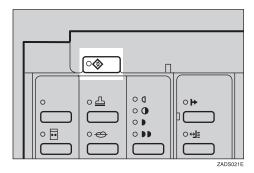




2 Press the [OK] key.

6-5 Del. User Code

Press the [User Tools] key.



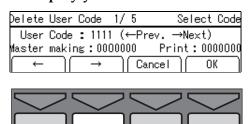
2 Enter 6 with the Number keys. Then press the [OK] or [**#**] key.

Jser Tools 1/2	Select with 🎕		
1 System	2 Set Operation Mode		
<u>3 Initial Setting</u>	4 Mode Setting		
Prev. Next)[Cancel][OK]		

Enter 5 with the Number keys. Then press the [OK] or [#] key.

Restricted	Access	1/2	Sele	ct	with	%
1 Check Co	unter	2	Reset Co	unt	ters	
3 Reg. Use	r Code	- 4	Chg. Use	r (Code	
Prev.	Next	٦ſ	Cancel	Г	OK	٦

Keep pressing the [→] or [▷] key to display your user code.



TPES570E

5 Press the [OK] key.

6 Press the **[Yes]** key.

5. What to do If Something Goes Wrong

If Your Machine does not Operate as You Want

If a malfunction or a misfeed occurs, the following messages will appear on the panel display.

Message	Meaning
Check the original di-	The paper is not placed in the same direction as the original.
rection.	Place the original in the same direction as the paper.
	If you press the [Print] key, the selected paper will be used for printing.
Size of original and paper is not the same.	Set a paper size that matches the reproduction ratio you have selected and your original.
	The reproduction ratio selected by Auto Magnification Selec- tion mode is too big or too small.
	□ You can make prints if you press the [Print] key.
Set original.	Make prints after confirming whether there is an original on the exposure glass (contact glass).
	Make sure that you have changed the original on the exposure glass (contact glass) before pressing the [Start] key.
Max. quantity: ****	The number of prints exceeds the maximum print quantity.
	You can change the maximum number of prints that can be made in one operation with the user tools. See "Max. Quantity" \Rightarrow P.149 "2. Set Operation Mode".
Min. quantity: ****	The number of prints does not exceed the minimum print quantity.
	You can change the minimum number of prints that can be made in one operation with the user tools. See "Min. Quantity" \Rightarrow P.149 "2. Set Operation Mode".
Drum unit is not set.	Slide in the drum until it clicks.
Set Drum unit.	Make sure that the drum is completely set in position.
Communication error	Turn the main switch off and on.
Turn the main switch off then on	If the message appears again, contact your service representa- tive.

Message	Meaning
Papers are left on the delivery tray	Remove the paper from the delivery tray, or make the master and prints using the same paper as the previously used one.
Please remove	 Note You can eliminate this message by pressing the [Exit] key. However, this message will be displayed again when making the master or prints if you do not remove the paper.
Please put up side/ end plates on the de- livery tray	The paper delivery side or end plate is lowered. Lift the paper delivery side or end plate.
	 Note If you press the [Exit] key to dismiss the message and press the [Start] key or [Print] key, the machine starts to make the master or prints. However, the prints might not be aligned.
Over loaded for the delivery tray Please remove the pa- per	Remove the paper from the delivery tray.
Print image is larger than the selected pa- per size. Change the paper	The master image previously printed is larger than the paper, the image overflows the paper size. Make prints again after pressing the [Exit] key and selecting the paper size again.
size.	 Note If you press the [Exit] key to dismiss the message and press the [Print] key, the machine starts to make the prints. However, the image might not fit on the paper.
Cannot sort thick pa- pers	The paper type is set as the "Thick" or "Special". Press the [Exit] key to dismiss the message and select the paper type except Thick and Special. If you cannot change the paper type, press the [Exit] key to dis-
	 miss the message and disable sorter mode. Note If you press the [Exit] the message will be dismissed, but it will be displayed again when making the master or prints.

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If Your Machine does not Operate as You Want

Message	Meaning
Cannot sort irregular	The custom size is selected.
sized papers.	Press the [Exit] key to dismiss the message and use paper other than the custom size.
	If you cannot change the paper type, press the [Exit] key to dis- miss the message and disable sorter mode.
	□ If you press the [Exit] key the message will be dismissed but it will be displayed again when making the master or prints.
Non-sort tray is not set correctly	Slide in the delivery tray of the sorter correctly.
Sorter is full.	The number of prints exceeds the capacity of the bin. Remove
Please remove the pa- per	the paper from the sorter.
Papers are left on the sort tray.	Remove the paper from the sorter tray.
Please remove.	
Switch on the sorter	If the sorter power plug is pulled out, plug it in and turn it on.
Or communication error.	If the message appears again, there was an error connecting to the sorter.
	Contact your local representative.

When a service call message is shown on the panel display panel

Press the **[Exit]** key. Then turn the main switch off and back on again. If a service code appears again, contact your service representative.

Note 🖉

- □ If a service code appears on the panel display after you turn the main switch off and on a few times, do not continue turning it on and off. Leave the machine off.
- □ When you make masters continuously using originals with solid images, "SC-03-03" tends to appear on the panel display. In this case, turn off the main switch and wait for a while. Then turn on the main switch.

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If You Cannot Make Prints as You Want

Problem	Cause	Action
Misfeeds occur frequently.	Improper paper type is se- lected.	Select proper paper type. See \Rightarrow P.52 "Printing onto Various Kinds of Paper".
When you try to set several functions at a time, you cannot set some functions.	Some functions cannot be used together.	See \Rightarrow P.143 "Combination Chart".
Parts of the image are not	Erase margin is too wide.	Set a narrower erase mar-
printed in Edge Erase mode.	Edge margins of original are too narrow.	gin with the user tools. See \Rightarrow P.164 "3-9 Margin Erase Area".
Prints are blank or parts of the image are not printed.	The paper feed side plates are not set correctly.	Make sure that the paper feed side plates touch the paper lightly and the prop- er paper size is displayed in the panel display.

Combine Originals Mode

Problem	Cause	Action
Prints are blank or parts of the image are not printed.	Original size and direction are not correct.	You cannot use originals of different sizes and direc- tions in Combine Originals mode. Use originals of same size and direction.
Print image is not correct.	Original set order is not correct.	Set originals face up into the optional document feeder. The first original should be on the top.
		Set original face down on the exposure glass (contact glass). The first original should be set first.

5

Loading Paper

Loading Paper

The **Load Paper** indicator (**b**) lights when the paper feed tray runs out of paper.

Limitation

- Load paper when the paper feed tray is empty. Do not add paper when some paper is left in the tray. Doing so may cause problems, such as multiple feeds and misfeeds.
- If paper runs out when using the "Limitless Feeding" function, first load paper in the last tray that was used or the Load Paper indicator () will not turn off.

P Reference

For available paper sizes, see \Rightarrow P.11 "Print Paper".

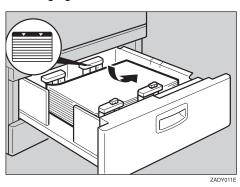
Loading Paper in Tray 1

1 Slide out tray 1.

Load the paper.

Loading A3 \square , B4 \square , 11"×17" \square , 8¹/₂"×14" \square paper

Load the paper in the tray 1. Make sure the right side of the tray makes light contact with the paper.



🖉 Note

- Make sure that the top of the stack is not higher than the limit mark on the side fence.
- Place the paper with the side to be printed on face down.

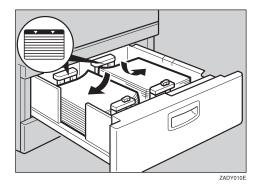
Loading A4, $8^{1/2}$ " × 11" or smaller paper

When tray 1 is empty

The following display appears:

OReady for	r Master	Making/ Pri	nting
		UUA4 🖓	0.0mm
Letter	100%	I≣IA3⊄	0.Omm
Original	Ratio	Auto	Image %

• Load the paper in each side. Make sure the right paper stack fits snugly against the right side of the tray, and that the left stack fits snugly against the left side of the tray as shown in the illustration.



🖉 Note

- In the left side place paper of the same size and feed direction as the paper in the right side.
- Make sure that the top of the stack is not higher than the limit mark on the side fence.

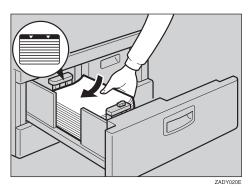
- Place the paper with the side to be printed on face down.
- When the right side of tray 1 is empty

When the paper in the right side of tray 1 runs out, "Papers are moving to from left to right" is shown on the panel display and the paper placed in the left side of tray 1 moves to the right side.

^p apers are	moving	to	from	left	to	rig	ht
			EЩA4	7		0.0	mm
Letter	100%		I≣IA30	3		0.0	mm
Original	Ratio		Aut	to	Ima	ige -	જી

● If the following display appears when you make prints using tray 1, you can slide out the left side of tray 1 and load paper.

Printing			
		UEIA4 🕞	0.Omm
Letter	100%	I≣IA3⊄	0.Omm
Original	Ratio	Auto	Image %



🔗 Note

- Do not slide out tray 1 while the paper is moving from left to right.
- Make sure that the top of the stack is not higher than the limit mark on the side fence.
- □ Load the paper on the left side.
- Place the paper with the side to be printed on face down.

B Slide in tray 1.

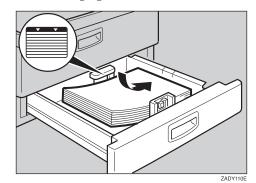
Loading Paper in Tray 2

When tray 2 is empty, the following display appears:

OReady for	[.] Master	Making/ Pri	nting
		🏥 A 4 🕞	0.0mm
Letter	100%	l⊎lA3⊡	0.Omm
Original	Ratio	Auto	Image %

1 Slide out tray 2.

2 Load the paper.



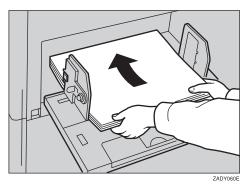
Important

- □ Make sure that the top of the stack is not higher than the limit mark on the side fence.
- Make sure the right side of the tray makes light contact with the paper.
- Make sure that the paper size and direction shown on the panel display match the size and direction actually loaded in the paper feed tray.

Slide in tray 2.

Loading Paper in the External Tray

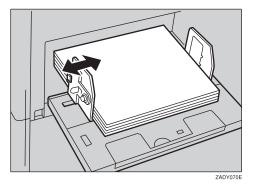
Load the paper in the external tray.



🖉 Note

□ Correct any paper curl before loading the paper.

2 Adjust the paper feed side plate to match the paper size.



🖉 Note

Make sure that the paper size and direction shown on the panel display match the size and direction actually loaded in the external tray.

% Clearing Misfeeds

A CAUTION:

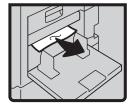
Be careful not to cut yourself on any sharp edges when you reach inside the machine to remove misfed sheets of paper or masters.

🖉 Note

- □ After clearing misfeeds, make sure that all the doors, covers, and units are closed and the ¾ indicator is off.
- To prevent misfeeds, do not leave any torn scraps of paper, originals, or masters in the machine.
- When clearing misfeeds, do not turn off the main switch. If you do, your print settings will be cleared.
- If misfeeds occur repeatedly, please contact your service representative.

"% + A" Paper Misfeed in the Paper Feed Section

1 Remove the misfed paper.



$\mathbf{\hat{V}}$ To prevent paper misfeeds:

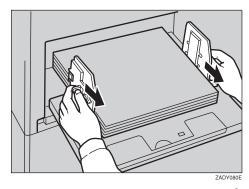
Check the following before restarting the printing run.

• Did you select an appropriate paper type with the **[Ppr.Type]** key?

⊖Ready for Master Making/ Printing			
		⊫A4₽	0.Omm
Letter	100%	Std.	0.0mm
Original	Ratio	Ppr.Type	Image %

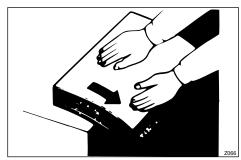


• Are the side pads in the correct positions?



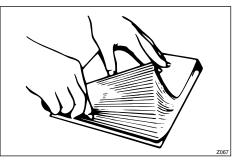
To print on thin paper $(47.1g/m^2, 12.5 \text{ lb})$, slide the levers behind the paper feed side plates in the direction of the arrow (see illustration).

• When paper is curled, correct the curl as shown.

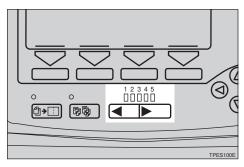


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• When paper edges stick together or paper is not fed in, shuffle the paper as shown.



 When printing onto postcards or thick paper, lower the printing speed to setting 1 or 2. See ⇒ P.37 "Changing the Printing Speed".

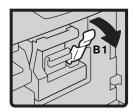


• When a multi-feed occurs or the paper is skewed, make sure that the paper feed side plates are properly adjusted. When you load paper on the external tray, make sure that the paper edge touches the back fence and paper is placed on the proper paper size scale. Only use paper where the leading edge has two right angle corners.

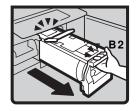
.

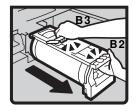
"% + A + B" Paper Misfeed in the Paper Feed Section

- **1** Open the front door.
- **2** Lower drum unit lock lever B1.



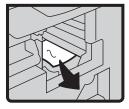
3 Take out the drum.



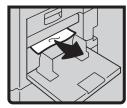


🖉 Note

- □ For how to take out the drum unit, see \Rightarrow P.95 "Changing the Color Drum Unit".
- Pull out the misfed paper gently from the inside.



5 If you cannot remove the misfed paper, remove paper from the external tray.



6 Set the drum unit and close the front door.

$\mathbf{\hat{V}}$ To prevent paper misfeeds:

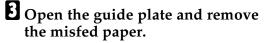
See \Rightarrow P.186 "" **%** + A" Paper Misfeed in the Paper Feed Section".

"% + A1" Paper Misfeed in the **Paper Feed Section**

Open the front door.

2 Turn the guide plate lever counterclockwise.







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Close the guide plate.





5 Turn the guide plate lever clock-



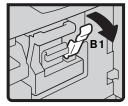
6 Close the front door.

"**%** + B" Paper or Master Wrapped around the Drum

When the master is wrapped around the drum

1 Open the front door.

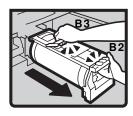
2 Lower drum unit lock lever B1.



S♣ Clearing Misfeeds

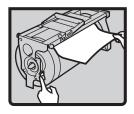
1 Take out the drum.





🔗 Note

- □ For how to take out the drum unit, see \Rightarrow P.95 "Changing the Color Drum Unit".
- While pressing the drum lock, grasp the edge of the master (the white area) and peel it off.

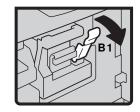


- E Return the drum lock to its original position.
- Set the drum unit and close the front door.

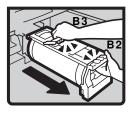
When paper is wrapped around the drum

1 Open the front cover.

2 Lower drum unit lock lever B1.







🔗 Note

□ For how to take out the drum unit, see \Rightarrow P.95 "Changing the Color Drum Unit".

Remove the misfed paper from the drum.

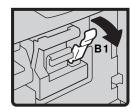


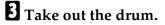
- **5** If you cannot find misfed paper in step **4**, remove misfed paper from the pressure cylinder.
- **5** Set the drum unit and close the front door.

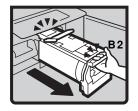
When paper is misfed inside the machine

1 Open the front cover.

2 Lower drum unit lock lever B1.







5



🖉 Note

- □ For how to take out the drum unit, see \Rightarrow P.95 "Changing the Color Drum Unit".
- Remove the misfed paper from the inside as shown in the illustration.



5 If you cannot remove the misfed paper, remove paper from the pressure cylinder.

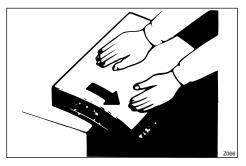
Set the drum unit and close the front door.

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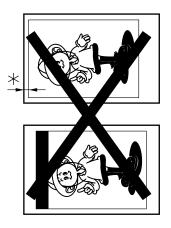
$\mathbf{\hat{V}}$ To prevent paper misfeeds:

If the paper is curled or the original's leading edge margin is too narrow, the following action is necessary.

• When you use curled paper, correct the curl as shown.



• When the leading edge margin of the original is less than 10mm, 0.4" or there is a solid image on the leading edge, insert the original with the widest margin first or make a leading edge margin by making a copy.



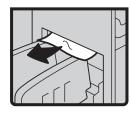
*: Less than 10mm, 0.4"

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℅ Clearing Misfeeds

"* + C" Paper Misfeed in the **Paper Exit Section**

Slowly but firmly pull out the misfed paper.



$\mathbf{\hat{V}}$ To prevent paper misfeeds:

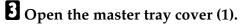
When a thin paper misfeed in the paper exit section occurs, reduce the printing speed with the [] [] (Speed) keys (See \Rightarrow P.37 "Changing the Printing Speed"). If you cannot reduce the printing speed, close the trailing edge guides or move the end plate toward the paper delivery tray edge.

"%r + D" Master Misfeed in the **Master Feed Section**

Pull out the master tray until it stops.

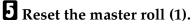
2 Open the master guide.





A Remove the master roll (2).

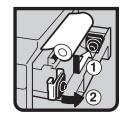




Solution Note

□ The master roll must be positioned as shown in the illustration in step **G**.

Close the master tray cover (2).



1 Insert the paper edge of the master roll as shown in the illustration until the master edge reaches the arrow mark.





8 Close the master guide.



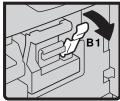
9 Push in the master tray until it stops.



"% + D + B" Master Misfeed in the Master Feed Section

1 Open the front door.

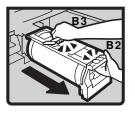
2 Lower drum unit look lever B1.





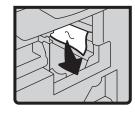


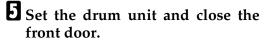
5



🖉 Note

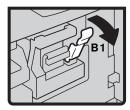
- □ For how to take out the drum unit, see \Rightarrow P.95 "Changing the Color Drum Unit".
- Pull out the misfed master from inside.



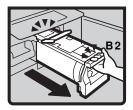


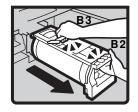
"% + B + E" Master Misfeed in the Master Eject Section

- **1** Open the front door.
- **2** Lower drum unit lock lever B1.



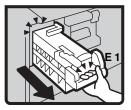
3 Take out the drum.





🖉 Note

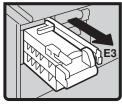
- □ For how to take out the drum unit, see \Rightarrow P.95 "Changing the Color Drum Unit".
- Grasp handle E1 and pull out the master eject unit until it stops.

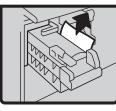




✤ Clearing Misfeeds

5 Pull out lever E3 and remove the misfed master.





- **6** Return lever E3 and the master eject unit to their original position.
- **2** Set the drum unit and close the front door.

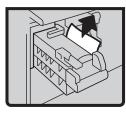
"" + E" Master Misfeed in the **Master Eject Section**

1 Open the front door.

2 Grasp handle E1 and pull out the master eject unit until it stops.



3 Check where the misfed master is. Remove the misfed master.

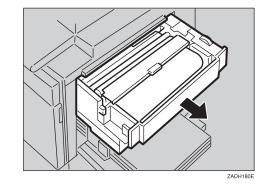


A Return the master eject unit to its original position and close the front door.

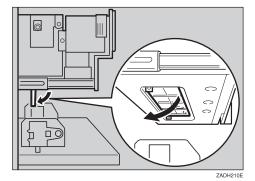
\mathcal{D} If master misfeeds often occur

If the master misfeed occurs so often, turn scraps of the master might be left in the bottom of the master tray. Remove turn scraps of the master.

1 Slide out the master tray.



2 Open the black cover at the bottom of the master tray and remove turn scraps of the master.



Close the black cover and slide in the master tray.

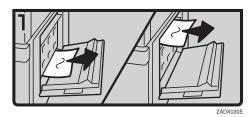
Note 🖉

□ Make sure that you securely close the black cover before sliding in the master tray.



"% + Y" Paper Misfeed in the Paper Feed Section

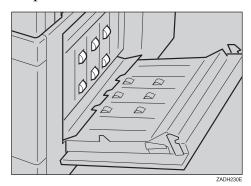
1 Open the right cover and remove the misfed paper.



2 Close the right cover.

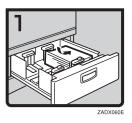
$\overline{\mathbf{Q}}$ To prevent paper misfeeds:

Paper misfeeds ($\Re + Y$) might occur due to paper dust. In this case, open the right cover and wipe off the paper dust from the paper feed rollers with a damp cloth.



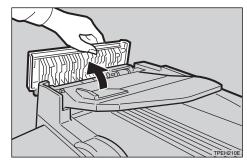
"% + Y1" Paper Misfeed in Tray 1

Pull out tray 1, and load the paper again pushing the stack to the right side.



"% + P" Original Misfeed Occurs When Using the Optional Document Feeder

Open the document feeder (ADF) cover.



2 Pull out the misfed original gently.

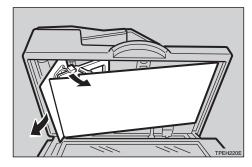


5

Clearing Misfeeds

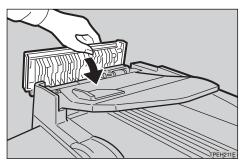
3 If you cannot remove misfed original in step 2, open the document feeder.

Pull the green knob towards you and remove the misfed original.



b Return the document feed sheet to its original position.

Close the document feeder (ADF) cover until it clicks in position and if necessary, close the document feeder.



$\widehat{\mathbf{V}}$ To prevent original misfeeds:

Set the following kinds of originals on the exposure glass (contact glass).

- Originals heavier than 105g/m², 27 lb
- Originals lighter than 52g/m², 14 lb
- Originals smaller than 105mm × 128mm, 4.2" × 5.1"
- Originals larger than 297mm × 864mm, 11.6" × 34.0"
- Stapled or clipped originals
- Perforated or torn originals
- Curled, folded, or creased originals
- Originals with any kind of coating, such as thermal fax paper, art paper, aluminum foil, carbon paper, or conductive paper
- Bound originals such as books
- Damaged originals
- Originals with glue on them
- Pasted originals
- Originals written in pencil
- Thin originals that have low stiffness
- Originals with index tabs
- Transparent originals such as OHP transparencies or translucent paper

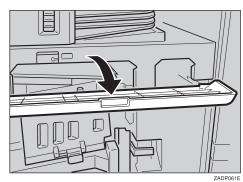
Note 🖉

- Do not mix different sizes of originals in the optional document feeder.
- Remove staples or clips of originals. Fan originals that have had staples or clip removed.
- Do not stack originals above the limit mark.

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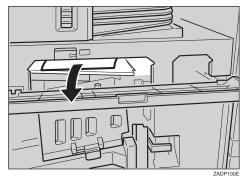
"% + R1" Paper Misfeed in the Optional Sorter

1 Open the front cover.





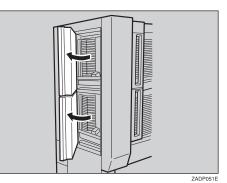
2 Remove the misfed paper.

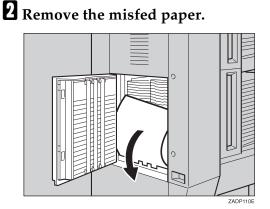


3 Close the front cover.

"%r + R2" Paper Misfeed in the Optional Sorter

Open the upper and lower side covers and check if there is a mis-fed paper.



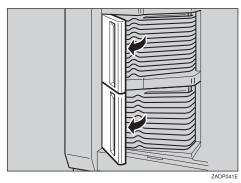


🔗 Note

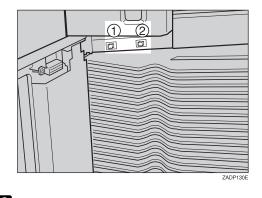
- The illustration describes how to remove misfed paper from the lower tray. Follow the same procedure for removing misfeeds in the upper tray.
- **1** Close the upper and lower side covers.

"% + R3" "% + R4" Paper Misfeed in the Optional Sorter

When R3 is displayed, open the lower tray cover of the sorter. When R4 is displayed, open the upper tray cover of the sorter.



2 If the misfed paper is deep inside of the bin and you cannot remove it, press the green button (2) while pressing the button (1). When the misfed paper is pushed out, remove it from the sorter.



Close the upper or lower tray cover.

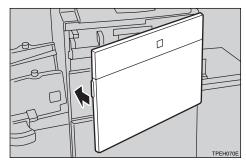
5

When the Open Cover/Unit Indicator ([]+) Lights

And the sure that the following doors/covers are closed.

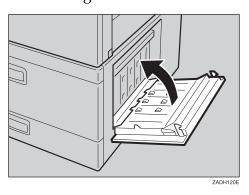
Front door

Close the front door completely.



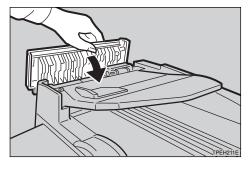
Right cover Close the right cover.

5



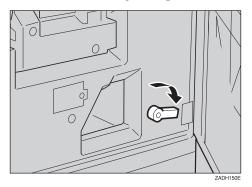
Optional document feeder (ADF) cover

Close the document feeder (ADF) cover until it locks in position.

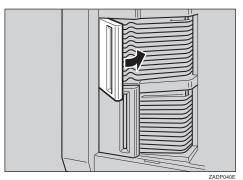


Guide plate

Turn the guide plate lever clockwise to close the guide plate.

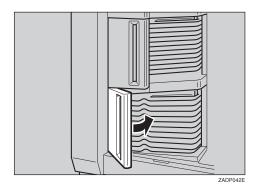


Upper tray cover of the optional sorter Close the upper tray cover of the sorter.



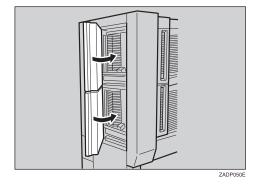
When the Open Cover/Unit Indicator (□ Lights

Lower tray cover of the optional sorter Close the lower tray cover of the sorter.

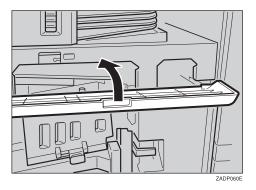


 Upper and lower covers of the optional sorter

Close the upper and lower covers of the sorter.



Front cover of the optional sorter Close the front cover of the sorter.



When the Add Ink Indicator (👛) Lights

The **Add Ink** indicator (📥) lights when it is time to supply ink.

A CAUTION:

• If ink comes into contact with your eyes, rinse immediately in running water. In the case of any abnormal symptoms, consult a doctor.

A CAUTION:

Keep the ink or ink container out of the reach of children.

A CAUTION:

• If ink is ingested, force vomiting by drinking a strong saline solution and consult a doctor immediately.

A CAUTION:

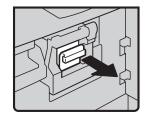
 Our products are engineered to meet high standards of quality and functionality, and we recommend that you only use the expendable supplies available at an authorized dealer.

Note

- **D** Be sure to supply ink of the same color as the current drum.
- □ Ink is readily removed from skin by waterless hand cleaners followed by washing with soap and water.
- □ Be careful not to get any ink on your clothing.
- □ Store ink under low temperature and humidity conditions.
- **D** Do not store ink where it will be exposed to heat or direct sunlight.
- □ Store on a flat surface.

Open the front door.

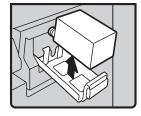
2 Pull out the ink holder.



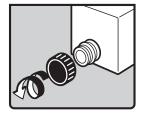
5

When the Add Ink Indicator (📩) Lights

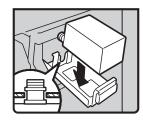
3 Remove the used ink cartridge.



Remove the cap of the new ink cartridge.



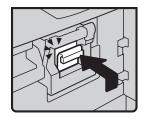
5 Insert the new cartridge into the ink holder.



Note

 $\hfill\square$ Always supply ink of the same color.

1 Return the ink holder to its original position until it clicks.



2 Close the front door.

The machine will start idling to supply ink to the drum.





When the Master End Indicator (💩) Lights

The **Master End** indicator () lights when it is time to replace the master roll or when you need to set the master roll.

A CAUTION:

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.

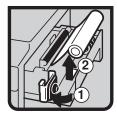
1 Pull out the master feed unit until it stops.

2 Open the master guide.



3 Open the master feed unit cover (1).

A Remove the used master roll (2).



🖉 Note

□ When the **Master End** indicator is lit, it is necessary to replace the master roll even if some master remains on the old roll.

5 The new master roll must be positioned as shown in the illustration (1).

6 Close the master feed unit cover (2).





2 Insert the paper edge of the master roll as shown in the illustration until the master edge reaches the arrow mark.

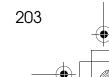


8 Close the master guide.



2 Push in the master feed unit until it stops.





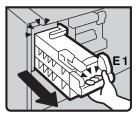
When the Master Eject Indicator (ث) Lights

The **Master Eject** indicator (**'**) lights when it is time to empty the master eject unit or when you need to set the master eject unit.

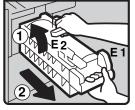
🖉 Note

5

- Ink is readily removed from skin by waterless hand cleaners followed by washing with soap and water.
- Be careful not to get any ink on your clothing while emptying the master eject unit.
- Prepare the trash box.
- **2** Open the front door.
- Grasp handle E1 and pull out the master eject unit until it stops.

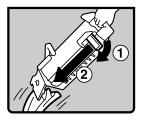


Pull up handle E2 and pull out the master eject unit completely.



5 Grasp the master eject unit upper handle and turn it clockwise with one hand while holding handle E1 with other hand (1).

6 Remove the used master by pushing down the master eject unit upper handle towards the trash box (2).



Note 🖉

If you cannot remove the used masters completely, repeat step
 until all the masters are removed.

2 Reinstall the master eject unit until it clicks in position.

8 Close the front cover.

When Other Indicators are Lit

Indicator	Meaning and action	
TPES270E	The key counter (option) is not set. Insert the key counter.	
• (Metric version)	Color drum unit is installed.	
(Inch version)		
h 1/2 Color TPES280N		
(Metric version)	A3/11" \times 17" drum unit is set.	
A3 A4 (2) TPES230E		
• (Inch version)		
Drum 17 8 ¹ /2 C TPES290N		
(Metric version)	A4/8 ¹ / ₂ " × 11" drum unit is set.	
(Inch version)		
17 8 ¹ /2 C TPES300N		



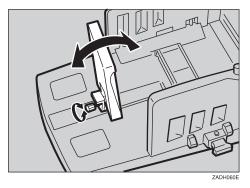
When Prints are not Delivered in a Neat Stack

When Printing on Small Size Paper

1 Lower the paper delivery end plate a little. While holding the end plate, lift the angle adjustment screw.



2 Adjust the end plate angle by turning the screw clockwise or counterclockwise.

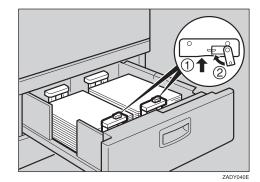


When the Machine Cannot Detect the Paper Size

If the paper size is not detected correctly when printing with the sorter, prints might not be delivered in a neat stack. To solve this, do one of the following:

When using tray 1

1 Re-adjust the side fence so that there is no space between the side fence and paper.



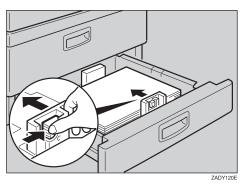
5

When Prints are not Delivered in a Neat Stack

□ If the paper on the external tray has a solid image on its back side, the machine may not be able to detect the size correctly. Place a sheet of paper of the same size without an image on the back at the bottom of the paper stack.

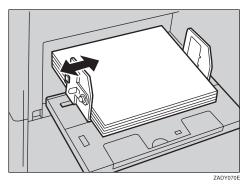
When using tray 2

1 While pressing the side fence release lever, re-adjust the side fence so that there is no space between the side fence and paper.



When using the external tray

Re-adjust the paper feed side plate so that there is no space between the paper feed side plate and paper.



Solution Note

Make sure that the paper size and direction in the panel display panel correspond with the actual paper size and direction set on the paper feed tray. 5

Poor Printing

Dirty Background

If the background of prints is dirty, the drum unit is dirty.

A CAUTION:

 If ink comes into contact with your eyes, rinse immediately in running water. In the case of any abnormal symptoms, consult a doctor.

A CAUTION:

Keep the ink or ink container out of the reach of children.

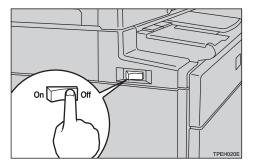
A CAUTION:

 If ink is ingested, force vomiting by drinking a strong saline solution and consult a doctor immediately.

Solution Note

- To avoid getting dirty background prints when printing onto paper smaller than the original image, select a suitable reduction ratio or use larger print paper.
- When printing onto paper that does not absorb ink well, like postcards, the background of prints might get dirty. In this case, lower the printing speed or use Skip Feed mode to dry the ink on the prints.

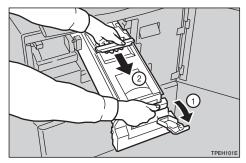
1 Turn off the main switch.



5

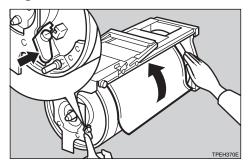
Poor Printing

2 Pull out the drum unit.

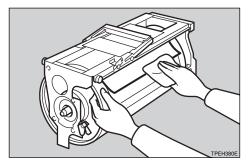


🖉 Note

- □ For how to take out the drum unit, see \Rightarrow P.95 "*Changing the Color Drum Unit*".
- **2** While pressing the drum lock, turn the drum until you can see the trailing edge of the master.



• With a dry soft cloth, remove any ink that has accumulated on the trailing edge of the drum unit.

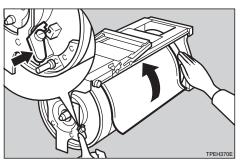


∰Important

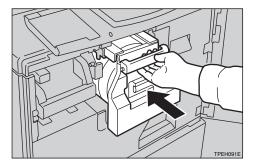
Do not use benzine, thinner, or other organic liquids—doing so can damage the machine.



5 Turn the drum unit and lock it after cleaning it.

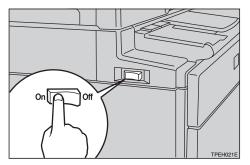


6 Insert the drum unit until it locks in position, then lower the drum unit lock lever.



2 Close the front door.

8 Turn on the main switch.





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Black Lines/Stained Prints

Check the platen cover and clean it if dirty. See \Rightarrow P.218 "Cleaning the platen cover".

Check the exposure glass (contact glass) and clean it if dirty. See \Rightarrow P.218 "Cleaning the exposure glass (contact glass)".

Check the sheet of the optional document feeder and clean it if dirty. See \Rightarrow P.219 "Cleaning the Sheet".

Note 🖉

□ When black lines or stains still appear on prints even if you clean the above, please contact your service representative.

Faint Prints

If the machine is not used for a long period of time or you change the color drum unit, the ink on the drum might dry causing print quality to deteriorate. To solve this problem, use Quality Start Mode. See \Rightarrow P.84 "Quality Start Mode— Regaining Image Density When Drum Ink Dries".

If the print density is still too light even if you use Quality Start mode, remake the master.

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What to do If Something Goes Wrong

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6. Remarks

Do's and Don'ts

sday, January 25, 2000 3:03 PM

A CAUTION:

Ruby-gh3 FM.bo

 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.

∰Important

- □ Make sure that *⇒* indicator on the PC controller operation panel is off before unplugging the power cord.
- While printing, do not turn off the main switch.
- While printing, do not unplug the power cord.
- While printing, do not open the door or covers.
- While printing, do not move the machine.
- Open and close the door and covers softly.
- When printing onto paper that contains images on the back, make sure there is a 10mm (0.4") margin at the back leading edge. If there is no margin, the machine might wrongly detect that paper is wrapped around the drum and stop printing.
- When you use envelope or pasted print paper, the leading edge of print might be damaged.
- Make sure to make a few trial prints to check the image position because the image position of the trial print might not correspond with that of the original.
- The leading edge of the prints might become stained if the edge touches the image of prints on the paper delivery tray.
- Print ink on the paper delivery tray might stick to the back side of the next print.
- Press the **[Proof]** key to perform a test print as the image density of the first few prints might be light.
- When the machine is on and the power source is less than 90% of the specified amount, printing quality will decrease. Therefore, make sure the supply from your electrical outlet is at least 90% of the required amount.
- When printing a large solid area on A3, 11" x 17" paper, the sides of the print tend to curl up after the print is fed out to the paper delivery tray. The next sheet that feeds out pushes against the curled sheet and a paper misfeed occurs. In this case, slow the printing speed down (setting 1 or 2).

Remarks

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- When you make a lot of prints from a small image, ink might ooze out from the edges of the master, especially under high temperature and when printing in two or more colors. In this case, make a new master.
- Remove the paper from the tray before relocating the machine. If you relocate the machine leaving the paper on the tray, reset the paper after the relocation. If the main switch of the machine is turned on without resetting the paper correctly, the sensor might be broken.

Where to Put Your Machine

Environment

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

Optimum environmental conditions

A CAUTION:

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

<u>A</u> CAUTION:

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

<u>A</u> CAUTION:

- After you move the equipment, use the caster fixture to fix it in place. Otherwise the equipment might move or come down to cause a personal injury.
- Temperature: 10 30°C, 50 86°F
- Humidity: 20 90% RH
- A strong and level base (a sturdy desk and cabinet etc.).
- The machine must be level within 5mm, 0.2" both front to rear and left to right.
- Be sure to locate this machine in a large well ventilated room that has an air turnover of more than 30m³/hr/person.

Environments to avoid

- Locations exposed to direct sunlight or strong light (more than 1500 lux).
- Locations directly exposed to cool air from an air conditioner or heated air from a heater (sudden temperature changes might cause condensation within the machine).
- Places where the machine might be subjected to frequent strong vibration.
- Dusty areas.
- Areas with corrosive gases.

Remarks

Power Connection

MARNING:

- Only connect the machine to the power source described on the inside front cover of this manual. Connect the power cord directly into a wall outlet and do not use an extention cord.
- Do not damage, break or make any modifications to the power cord.
 Do not place heavy objects on it. Do not pull it hard nor bend it more than necessary. These actions could cause an electric shock or fire.

A CAUTION:

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.

▲ CAUTION:

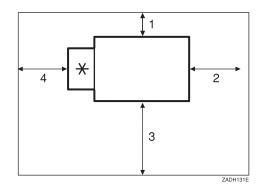
• When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).

Make sure the plug is firmly inserted in the outlet.

Machine Clearance

Place the machine near the power source, providing clearance as shown.

Main frame

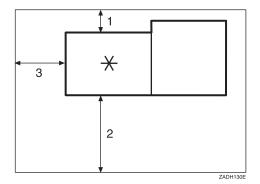


- *: Paper delivery tray
- 1. More than 10cm, 4.0"
- 2. More than 60cm, 23.7"
- 3. More than 60cm, 23.7"
- 4. More than 60cm, 23.7"

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Where to Put Your Machine

Main frame with the optional sorter



- *: Optional sorter
- 1. More than 20cm, 8.0"
- 2. More than 100cm, 40.0"
- 3. More than 60cm, 23.7"



Remarks

Maintaining Your Machine

To maintain high print quality, clean the following parts and units regularly.

Cleaning the machine

Wipe the machine with a soft, damp cloth. Then wipe it with a dry cloth to remove the water.

∰Important

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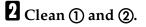
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- Do not use chemical cleaner or organic solvent, such as thinner or benzene. If they get into the machine or melt plastic parts, a failure might occur.
- Do not clean parts other than those specified in this manual. Such parts should be cleaned by your service representative.

Cleaning the Main Frame

Cleaning the exposure glass (contact glass)

Lift the platen cover or document feeder.





Cleaning the platen cover

Lift the platen cover.

2 Clean the platen cover with a damp cloth and wipe it with a dry cloth.

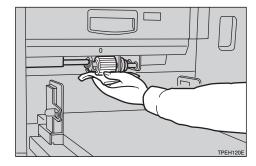


🖉 Note

□ If you do not clean the platen cover, marks on the cover will be printed.

Cleaning the paper feed roller (external tray)

Wipe off the paper dust on the paper feed roller with a damp cloth, then wipe it with a dry cloth.



🔗 Note

□ If you do not clean the paper feed roller, paper misfeeds tend to occur.

Maintaining Your Machine

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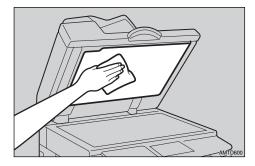
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Cleaning the Optional Document Feeder

Cleaning the Sheet

1 Lift the document feeder.

2 Clean the sheet with a damp cloth and wipe it with a dry cloth.



🖉 Note

□ If you do not clean the sheet, marks on the sheet will be printed.

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Remarks

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7. Specifications

Main Frame

- Configuration: Desk top
- Printing Process:
 Full automatic one drum system
- Original Type: Sheet/Book
- Original Size: Maximum 304.8mm × 432mm, 12.0" × 17.0"
- Pixel Density: 400dpi

Image Mode: Photo mode (Sand pattern) Letter mode (Standard mode) Letter/Photo mode Pencil mode Tint mode

Reduction Ratios:

- Inch version: 93%, 77%, 74%, 65%
- Metric version: 93%, 87%, 82%, 71%

Enlargement Ratios:

- Inch version: 155%, 129%, 121%
- Metric version: 141%, 122%, 115%

Zoom:

From 50% to 200% in 1% steps

Directional Magnification:

- Vertical: From 50% to 200% in 1% steps
- Horizontal: From 50% to 200% in 1% steps

Specifications

Printing Area:

- A3 drum:
 - Inch version: More than 290×419 mm, 11.4" $\times 16.4$ "
 - Metric version: More than 290mm × 409mm, 11.4" × 16.1"
- A4 drum: More than 290mm × 200mm, 11.4" × 7.8"

Print Paper Size:

Maximum: 297mm × 432mm, 11.6" × 17.0" Minimum: 70mm × 148mm, 2.8" × 5.9"

Leading Edge Margin:

Less than 10mm, 0.4"

Print Paper Weight:

- Tray 1, Tray 2: 52.3 104.7g/m², 13.9 27.8 lb
- External tray: $47.1 209.3 \text{g/m}^2$, 12.5 55.6 lb

Print Speed:

60 – 120rpm (5 steps)

♦ First Copy Time (Master Process Time): Less than 15.5 seconds (A3, 11"×17"□) Less than 12 seconds (A4, 8¹/₂"×11"□)

Second Copy Time (First Print Time):

Less than 18.5 seconds (A3, $11" \times 17"$) Less than 15 seconds (A4, $8^1/_2" \times 11"$)

Color Printing:

Drum unit replacement system (red, blue, green, and brown)

Image Position:

- Vertical:
 - Inch version: ± 10 mm, ± 0.4 "
 - Metric version: ± 15mm, ± 0.6"
- Side:

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 \pm 10mm, \pm 0.4" (for either side)

Main Frame

Tray	Paper size		Paper capacity (80g/m ² , 20 lb)
Tray 1	Metric version	A3 🗗, B4 🖵, A4 🖵, B5 🗖	1000 sheets
		A4 🖸 , B5 🔽	2000 sheets (1000 sheets×2)
	Inch version	$\begin{array}{c} 11" \times 17" \square, 8^{1}/_{2}" \times 14" \square, \\ 8^{1}/_{2}" \times 11" \square, 5^{1}/_{2}" \times 8^{1}/_{2}" \\ \square \end{array}$	1000 sheets
		$\mathbb{D}^{8^{1}/2^{"} \times 11^{"}}$, $5^{1}/2^{"} \times 8^{1}/2^{"}}$	2000 sheets (1000 sheets×2)
Tray 2	Metric version	A3 🗗, B4 🔽, A4 🖵 🖵, B5 🖵 🖵	500 sheets
	Inch version	$\begin{array}{c} 11" \times 17" \square, 8^{1}/_{2}" \times 14" \square, \\ 8^{1}/_{2}" \times 11" \square, \square, 5^{1}/_{2}" \times 8^{1}/_{2}" \\ \square, \square, \square, \square, \square, \square, \square, \square,$	500 sheets
External tray	Metric version	A3 , B4 , A4 , A4 , B5 , A5 , B6 , A6 , Others (Vertical: 70 - 297mm, Horizontal: 148 - 432mm)	500 sheets
	Inch version	11" × 17" \square , 8 ¹ / ₂ " × 14" \square , 8 ¹ / ₂ " × 11" \square \square , 5 ¹ / ₂ " × 8 ¹ / ₂ " \square \square Others (Vertical: 2.76" - 11.7", Horizontal: 5.83" - 17")	500 sheets

Paper Size and Paper Capacity:

Paper Delivery Tray Capacity: 1,000 sheets (80g/m², 20 lb)

Master Eject Unit Capacity:

- A3 drum More than 60 masters
- A4 drum 90 masters

The Dimensions (W \times D \times H):

- When using the external tray: 1,405 × 700 × 1,120mm, 55.4" × 27.6" × 44.1" (When setting A3 □, 11" × 17" □ paper)
- When using the tray 1 and tray 2: 1,115 × 700 × 1,120mm, 43.9" × 27.6" × 44.1"
- When stored: $625 \times 690 \times 1,120$ mm, $24.7'' \times 27.2'' \times 44.1''$ (when removing the paper delivery tray and storing the external tray)

Specifications

Weight:

• Machine: Less than 160kg, 352.8 lb

Noise Emission *1:

Sound Power Level

	Printing Speed	Noise Emission
During printing	60cpm	74dB(A)
	90cpm	76dB(A)
	120cpm	79dB(A)
Stand-by		47dB(A)

Sound Pressure Level*2

	Printing Speed	Noise Emission
During printing	60cpm	59dB(A)
	90cpm	61dB(A)
	120cpm	64dB(A)

*1 The above measurement made in accordance with ISO 7779 are actual value.

*2 It is measured at the position of the operator.

Power Consumption:

- Making a master: Less than 0.31kW
- Printing: Less than 0.31kW

Optional Equipment:

• Drum unit: Color Drums

A3, 11" × 17"—black, red, blue, green, brown, purple, yellow, navy, maroon, teal, orange, gray, violet, hunter green, burgundy and gold A4, $8^{1}/_{2}$ " × 11"—black, red, blue, green, brown, purple, yellow, navy, maroon, teal, orange, gray, violet, hunter green, burgundy and gold

- Key Counter
- Document Feeder
- Memory Board
- PC Controller

🖉 Note

□ Specifications are subject to change without notice.



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Document Feeder (Option)

- Original Type: Sheet
- Original Weight: 52.3 - 104.7g/m², 13.9 - 27.8 lb
- ♦ Original Size: Max. 297mm × 864mm, 11.6" × 33.8" Min. 105mm × 128mm, 4.2" × 5.1"
- Original Capacity: 30 sheets (80g/m², 20 lb) or less than 4.5mm, 0.17"
- Power Consumption: 25W (power is supplied from the main frame.)
- Dimensions (W × D × H): 550 × 470 × 120mm, 21.7" × 18.6" × 4.8"
- Weight Approx. 9kg, 19.9 lb
 - NoteSpecifications are subject to change without notice.

Specifications

Sorter (Option)

Number of Bins: 40 bins

0 bins

- ♦ Paper Sizes: Bins: A3 □, B4 □, A4 □ □, B5 □, 11" × 17" □, $8^{1}/{_{2}}$ " × 14" □, $8^{1}/{_{2}}$ " × 11" □ □ Paper delivery tray: A3 □, B4 □, A4 □ □, B5 □ □, A5 □, B6 □, A6 □, 11" × 17" □, $8^{1}/{_{2}}$ " × 14" □, $8^{1}/{_{2}}$ " × 11" □ □, $5^{1}/{_{2}}$ " × $8^{1}/{_{2}}$ " □ □
- Sort Bin Capacity: 50 sheets (80g/m², 20 lb)
- ♦ Paper Weight: 52 - 105g/m², 13.9 - 27.8 lb
- Power Consumption: 144W
- Dimensions (W × D × H): 900 × 650 × 1,700mm, 35.5" × 25.6" × 67.0"
- ✤ Weight Approx. 148kg, 326.3 lb

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NoteSpecifications are subject to change without notice.

Consumables

Name	Size	Remarks
Master:	Length: 110m, 410ft/roll	A3 drum
	Width: 420mm, 16.5" 2 Rolls/case	More than 200 masters can be made per roll
		A4 drum
		330 masters can be made per roll
Ink-Black	1,000ml/pack, 600ml/pack, 5 packs/ case	Environmental conditions: -5 to 40°C 10 – 95% RH
Ink-Red	1,000ml/pack, 5 packs/case	
Ink-Blue		
Ink-Green		
Ink-Brown		
Ink-Purple		
Ink-Yellow		
Ink-Navy		
Ink-Maroon		
Ink-Teal		
Ink-Orange		
Ink-Gray		
Ink-Violet		
Ink-Hunter green		
Ink-Burgundy		
Ink-Gold		

Note

□ Specifications are subject to change without notice.

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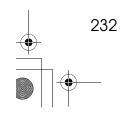
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