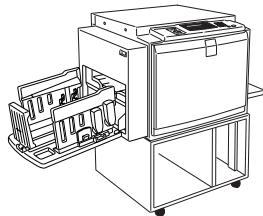


## TC-IIR

### Operating Instructions



---

- 1** Operation
- 2** User Tools
- 3** Troubleshooting
- 4** Remarks
- 5** Specifications

---

Read this manual carefully before you use this machine and keep it handy for future reference. For safe and correct use, be sure to read the Safety Information in this manual before using the machine.

## **Introduction**

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.



### **Notes:**

Some illustrations in this manual might be slightly different from the 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.

### **Power Source**

220-240V, 50/60Hz, 3.0A or more

Please be sure to connect the power cord to a power source as above. For details about power source,  
⇒ p.66 “Power Connection”.

# Safety Information

When using this machine, the following safety precautions should always be followed.

## Safety During Operation

In this manual, the following important symbols are used:

**⚠ WARNING:**

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

**⚠ CAUTION:**

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

**⚠ WARNING:**

- 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.*
- 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 occurs:*
  - You spill something into the machine.*
  - You suspect that your machine needs service or repair.*
  - The external housing of your machine has been damaged.*
- Keep the machine away from flammable liquids, gases, and aerosols. A fire or an electric shock might occur.*
- Connect the power cord directly into a wall outlet and never use an extension cord.*
- Only connect the machine to the power source described in the manual.*
- Disposal can take place at our authorized dealer or at appropriate collection sites.*

---

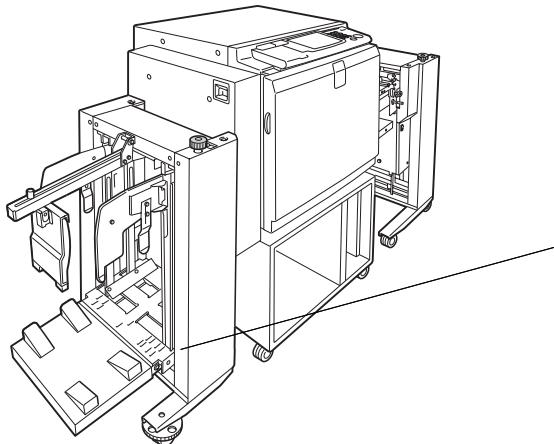
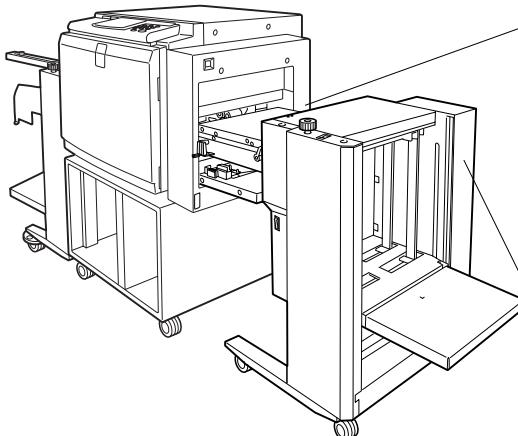
**⚠ CAUTION:**

---

- After you move the machine, use the caster fixture to fix it in place. Otherwise the machine might move or come down to cause an injury.
- If you use the machine in a confined space, make sure there is a continuous air turnover.
- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Protect the machine from dampness or wet weather, such as rain and snow.
- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.
- Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.
- 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 machine.
- For environmental reasons, do not dispose of the machine or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer.
- When disposing of a used ink container, reattach the cap to prevent ink from splattering.
- Be careful not to get ink on your clothes when replacing an ink container. Ink stains on clothes are hard to remove.
- Be careful not to cut yourself on any sharp edges when you reach inside the machine to remove misfed sheets of paper or masters.
- If ink comes into contact with your eyes, rinse immediately in running water. For other symptoms, consult a doctor.
- Keep the ink or ink container out of reach of children.
- If ink is ingested, induce vomiting by drinking a strong saline solution. Consult a doctor immediately.
- If your skin comes into contact with ink, wash the affected area thoroughly with soap and water.
- While printing, do not touch the belt at the end of the paper delivery tray or the job separator. Otherwise, an injury might occur.
- Our products are engineered to meet the high standards of quality and functionality, and we recommend that you only use the expendable supplies available at an authorized dealer.

# Positions of **⚠WARNING** and **⚠CAUTION** Labels

This machine has labels for **⚠WARNING** and **⚠CAUTION** at the positions shown below. For safety, please follow the instructions and handle the machine as indicated.



AKT013S

# How to Read This Manual

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## Symbols

---

In this manual, the following symbols are used:

 **WARNING:**

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

 **CAUTION:**

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

\* The statements above are notes for your safety.

 **Important**

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

 **Preparation**

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

 **Reference**

This symbol indicates a reference.

[      ]

Keys that appear on the machine's display panel.

[      ]

Keys built into the machine's operation panel.

# 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

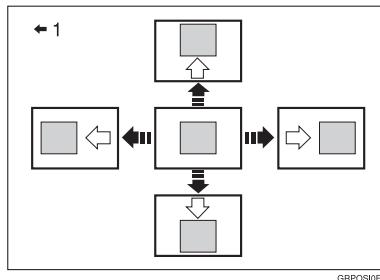
⇒ p.24 "Standard Printing".

## ❖ Adjusting the Print Image Position

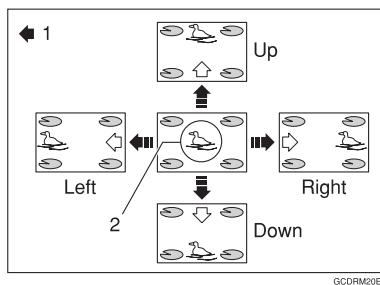
⇒ p.30 "Adjusting the Position of Printed Images".

## ❖ Changing the Printing Speed

⇒ p.32 "Changing the Printing Speed".



1: Paper feed direction



1: Paper feed direction

2: Image of Drum 2

# TABLE OF CONTENTS

<b>Safety Information</b> .....	i
Safety During Operation.....	i
<b>Positions of <math>\triangle</math>WARNING and <math>\triangle</math>CAUTION Labels</b> .....	iii
<b>How to Read This Manual</b> .....	iv
<b>What You Can Do with This Machine</b> .....	v
<b>Machine Exterior</b> .....	1
<b>Machine Interior</b> .....	2
<b>Options</b> .....	3
<b>Control Panel</b> .....	5
Keys .....	5
Indicators.....	6
<b>1. Operation</b>	
<b>Setting and Changing the Drum Unit</b> .....	7
Setting the Drum Unit.....	7
Changing the Drum Unit.....	9
<b>Printing Preparations</b> .....	10
Using the Paper Feed Tray and Delivery Tray .....	10
<b>Using the LCIT and LCOT</b> .....	14
Installing the LCIT .....	14
Turning On the Power .....	15
Loading Paper.....	16
Preparing the LCOT for Printing.....	17
Uninstalling the LCIT .....	19
<b>Print Paper</b> .....	21
Recommended for the LCIT .....	23
Recommended for the LCOT .....	23
<b>Standard Printing</b> .....	24
Removing Prints.....	25
Auto Reset .....	25
Auto Off .....	26
<b>Printing onto Various Kinds of Paper</b> .....	27
Printing onto Thick Paper .....	27
Printing onto Standard Paper.....	27
Printing onto Special Kinds of Paper.....	27
Paper Supply Adjustment.....	28
<b>Adjusting the Position of Printed Images</b> .....	30
<b>Changing the Printing Speed</b> .....	32
<b>Skip Feed Printing</b> .....	33
<b>2. User Tools</b>	
<b>Accessing the User Tools</b> .....	35
<b>User Tools</b> .....	36
1. System .....	36
<b>User Codes</b> .....	39
How to Set User Code Mode (#16) .....	39

How to Use User Code Mode .....	40
How to Check the User Code Counter (#17) .....	40
How to Clear the User Code Counter (#18) .....	41
How to Check the Total Number of Masters and Prints Made Under All User Codes (#19) .....	41
How to Clear the User Code Total Counter (#20) .....	41

### 3. Troubleshooting

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<b>If Your Machine Does Not Operate as You Want .....</b>	<b>43</b>
<b>If You Cannot Make Prints as You Want .....</b>	<b>44</b>
<b>If the LCS Does Not Operate as You Want .....</b>	<b>46</b>
<b>&gt;Loading Paper .....</b>	<b>47</b>
Loading Paper into the Paper Feed Tray .....	47
Loading Paper into LCIT .....	47
<b>When the Add Ink Indicator (▲) Lights .....</b>	<b>49</b>
<b>Clearing Misfeeds .....</b>	<b>51</b>
Paper Misfeed in the Paper Feed Section .....	51
Paper Misfeed in the Paper Feed Section .....	52
Paper Wrapped around the Drum .....	53
Paper Misfeed in the Paper Exit Section .....	55
When Paper Misfeeds in the LCIT .....	56
<b>When the Open Cover/Unit Indicator Lights .....</b>	<b>57</b>
<b>Poor Printing .....</b>	<b>58</b>
Dirty Background .....	58
When the Press Roller is Dirty .....	59
Faint Prints .....	59
<b>When Prints Are Not Delivered in a Neat Stack .....</b>	<b>60</b>
When Printing on Small Size Paper .....	60
<b>When Multiple Sheets Are Fed at the Same Time .....</b>	<b>61</b>

### 4. Remarks

---

<b>Do's and Don'ts .....</b>	<b>63</b>
<b>Where to Put Your Machine .....</b>	<b>65</b>
Environment .....	65
Power Connection .....	66
Machine Clearance .....	66
<b>Maintaining Your Machine .....</b>	<b>67</b>
Cleaning the Main Frame .....	67

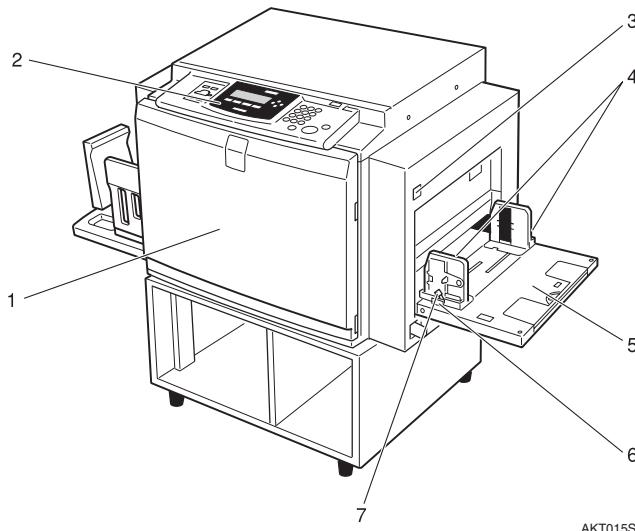
### 5. Specifications

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<b>Main Frame .....</b>	<b>69</b>
<b>Option .....</b>	<b>71</b>
Large Capacity System .....	71
Other Option .....	72
<b>Consumables .....</b>	<b>73</b>
<b>INDEX .....</b>	<b>74</b>



# Machine Exterior



AKT015S

## 1. Front door

Open to access the inside of the machine.

## 2. Control Panel

⇒ p.5 "Control Panel".

## 3. Paper feed tray down key

Press to lower the Paper feed tray.

## 4. Paper feed side plates

Prevent paper being fed skewed.

## 5. Paper feed tray

Set paper here.

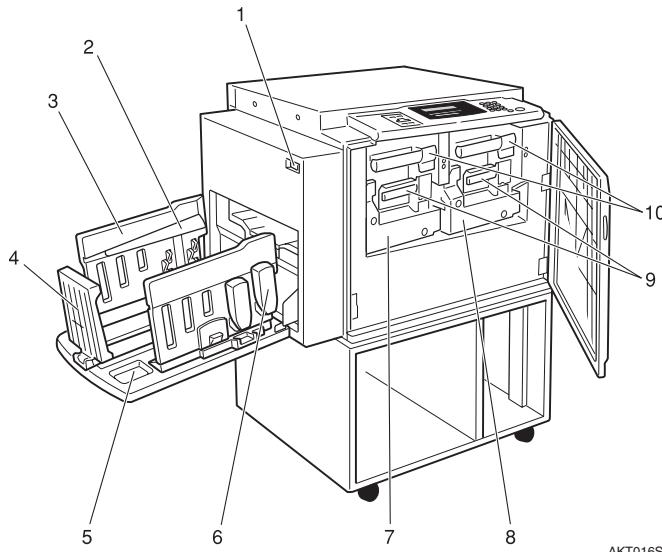
## 6. Paper feed side plates knob

Use to move the side plates.

## 7. Paper feed side plates knob lock lever

Fix to the paper feed side plates knob.

# Machine Interior



## 1. Main switch

Use to turn the power on or off.

## 2. Paper alignment wings

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

## 3. Paper delivery side plates

Use to align the prints on the paper delivery tray.

## 4. Paper delivery end plate

This plate aligns the leading edge of prints.

## 5. Paper delivery tray

Completed prints are delivered here.

## 6. Chocks

Use to adjust the buffer fins.

## 7. Drum Unit 2

The master is wrapped around this unit.

## 8. Drum Unit 1

The master is wrapped around this unit.

## 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. Trailing edge guides

Swing out these guides when you use A4□, 8 1/2" × 11"□ paper.

## 12. Buffer fins

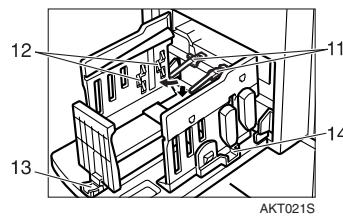
Use to stack prints neatly.

## 13. Paper delivery end plate knob

Use to move the end plate.

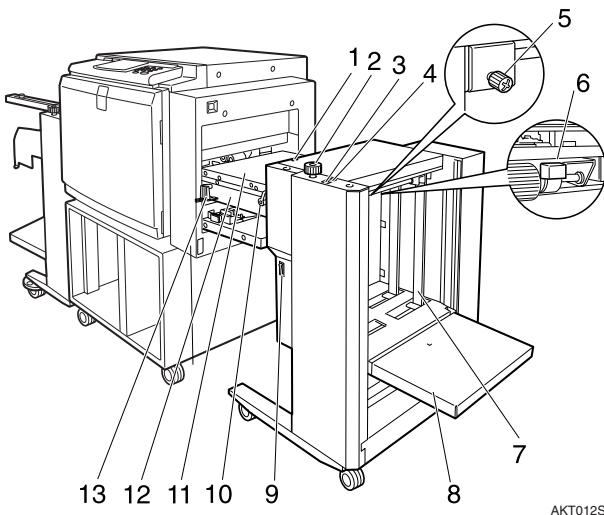
## 14. Paper delivery side plate knobs

Use to move the side plates.



# Options

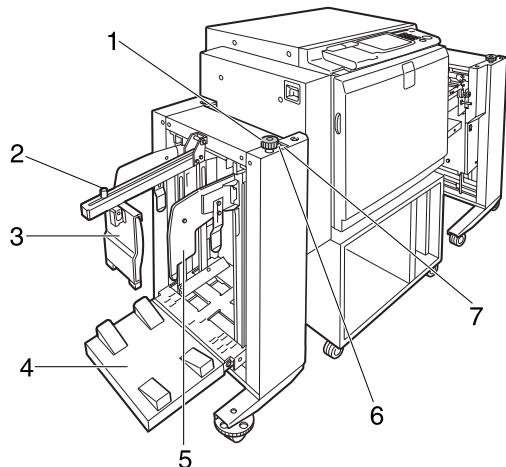
## ❖ Large Capacity System (LCS): Large capacity input tray (LCIT)



AKT012S

<b>1. Indicators</b>	<b>8. Input tray</b>
<b>2. Side guide adjustment knob</b>	<b>9. Power switch</b>
<b>3. Down button</b>	<b>10. Cover release lever</b>
<b>4. Up button</b>	<b>11. Cover</b>
<b>5. Side guide screw</b>	<b>12. Intermediate feeding section</b>
<b>6. Feeding pressure lever</b>	<b>13. LCIT release lever</b>
<b>7. Side guides</b>	

❖ Large Capacity System (LCS): Large capacity output tray (LCOT)

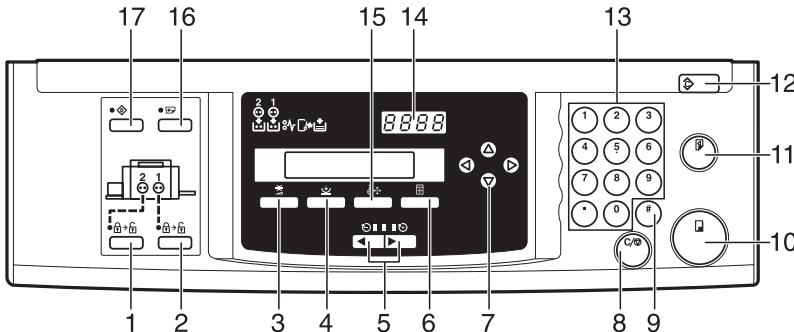


AKT014S

1. Side guide adjustment knob
2. End plate screw
3. End plate
4. Output tray
5. Side guides
6. Up button
7. Down button

# Control Panel

## Keys



ZBR5011E

### 1. [Drum 2] key

Press when you need to set or change the Drum 2. ⇒ p.7 "Setting the Drum Unit"

### 2. [Drum 1] key

Press when you need to set or change the Drum 1. ⇒ p.7 "Setting the Drum Unit"

### 3. [Ppr.type] key

Press to select the paper type. ⇒ p.27 "Printing onto Various Kinds of Paper"

### 4. [Ppr. Supply Adj] key

Press to change the paper feeding ratio and paper separation ratio. ⇒ p.28 "Paper Supply Adjustment"

### 5. [◀] [▶] keys (Speed keys)

Press to adjust the printing speed. See ⇒ p.5 "Keys", ⇒ p.32 "Changing the Printing Speed".

### 6. [Position Adj/Whole] key

Press to adjust the mixed image positions of Drum1 and Drum2. ⇒ p.30 "Adjusting the Position of Printed Images"

### 7. [◀] [▶] [△] [▽] keys

Press to shift the image forward, backward, right, or left. ⇒ p.5 "Keys", ⇒ p.30 "Adjusting the Position of Printed Images".

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

### 8. [Clear/Stop] key

Press to stop printing.

### 9. [♯] key

Use to enter data in selected modes.

### 10. [Print] key

Press to start printing.

### 11. [Proof] key

Press to make proof prints.

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

Press to clear any previously entered job settings.

### 13. Number keys

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

### 14. Counter

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

### 15. [Position Adj/Drum2] key

Press to adjust the image position's of Drum2.

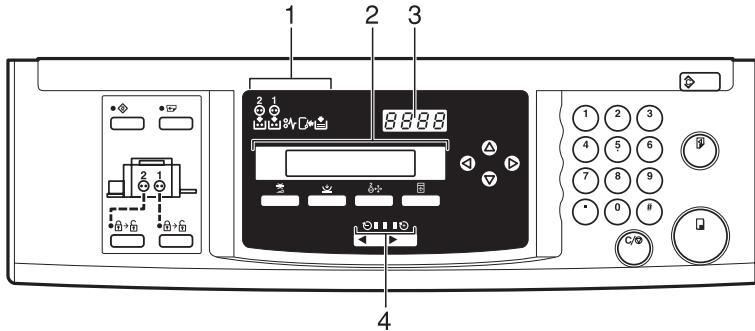
### 16. [Skip Feed] key

Press to select skip feed printing. ⇒ p.33 "Skip Feed Printing".

### 17. [User Tools] key

Press to change the default settings to meet your requirements.

# Indicators



ZBRS012E

## 1. Error Indicators

These indicators are lit when a non-standard condition occurs within the machine.

## 2. Guidance Display

Display the machine's condition.

## 3. Counter

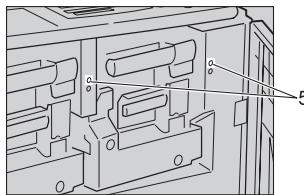
Displays the number of prints entered. While printing, it shows the number of prints remaining.

## 4. Speed Indicators

These indicators show the printing speed that is selected.

## 5. Drum set indicator

The green indicator lights when the drum unit is ready to pull out. If not ready, the red indicator lights.



ZBPH040E

# 1. Operation

## Setting and Changing the Drum Unit

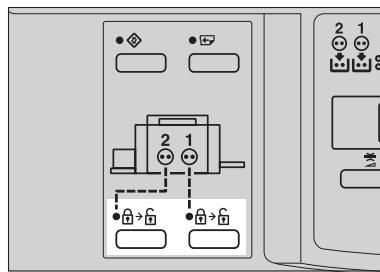
Before you start printing, you must make a master print using the master making unit. The master print is wrapped around the drum unit.

### Note

- colour drum units are available as options in addition to the standard black unit. For making colour prints, a separate drum unit is necessary for each colour.
- Insert the same kinds of drum unit for both Drum 1 and Drum 2.
- colour Drum Type 50S/80S/90<A4> is not available for this machine.
- A4 size master cut drum is not available for this machine.

### Setting the Drum Unit

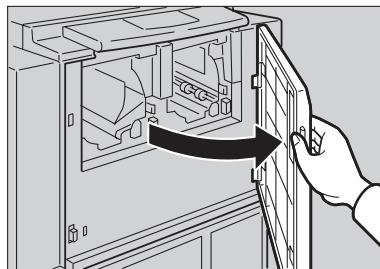
**1** Make sure that you select either [Drum 1] or [Drum 2] before setting the drum unit.



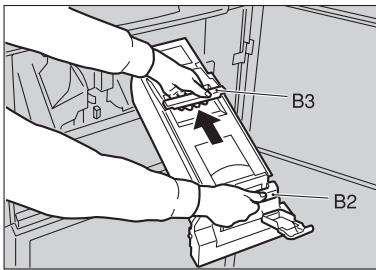
### Note

- Make sure that the indicator is lit.

**2** Open the Front Door.



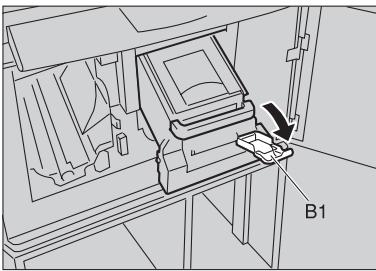
**3** Lift upper drum stay B3 a little to unlock the drum unit, then push into the drum unit while holding drum unit handle B2 and upper drum stay B3.



ZBRH062E

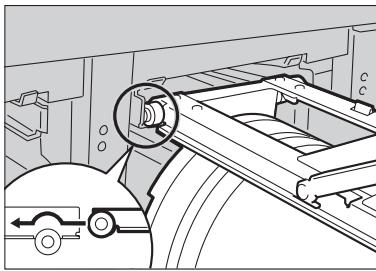
**Note**

- Make sure the green light beside the drum unit lock lever is on.
- If the red light is on, go back to step 1.
- Make sure that the drum unit lock lever B1 is released.



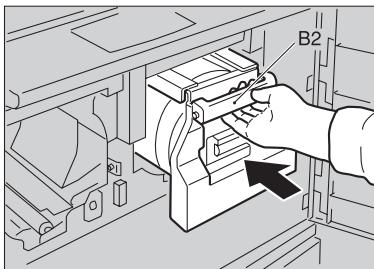
ZBRH120E

**4** Insert the drum unit along the guide rail.



ZBRH160E

**5** Slide in the drum unit until it locks in position.

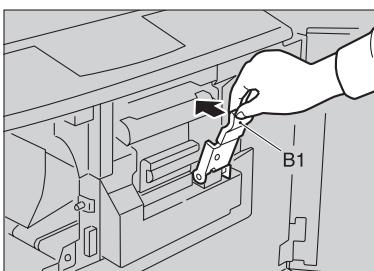


ZBRH051E

**Note**

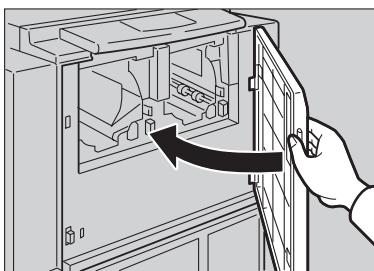
- Insert the same kinds of drum unit for both Drum 1 and Drum 2.

**6** Lift drum unit lock lever B1.



ZBRH031E

**7** Close the front door.



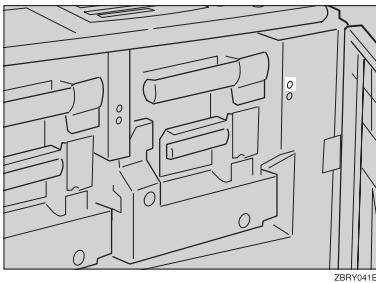
AKT019S

**Note**

- If you want to set another drum unit, go back to step 1.
- Make sure that the Open Cover Indicator turns off.

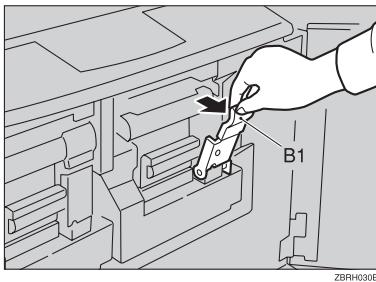
## Changing the Drum Unit

- 1 Make sure that you select either [Drum 1] or [Drum 2] before changing the drum unit.
- 2 Open the front door.
- 3 Make sure the green light beside the drum unit lock lever is on before sliding out the drum. If the red light is on, go back to step 1.



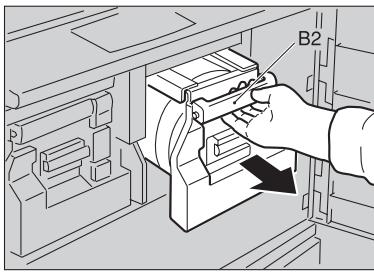
ZBRY041E

- 4 Lower the drum unit lock lever B1.



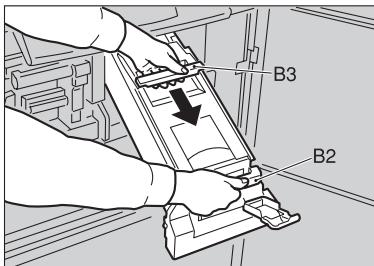
ZBRH030E

- 5 Pull out drum unit handle B2 slowly.



ZBRIH050E

- 6 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.



ZBRIH060E

### Important

- Be careful not to let the drum unit fall.

- 7 Insert the colour drum unit along the guide rail.

- 8 Lower drum unit lock lever B1 of the inserted drum.

- 9 Slide in the drum unit until it locks in position.

- 10 Lift drum unit lock lever B1.

- 11 Close the front door.

### Note

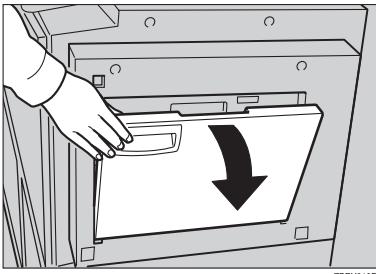
- Make sure that the Open Cover indicator turns off.

# Printing Preparations

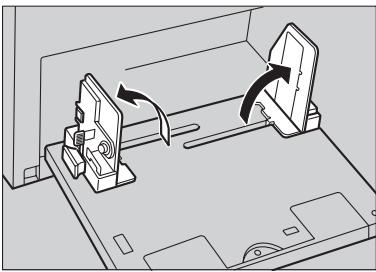
## Using the Paper Feed Tray and Delivery Tray

### Loading Paper

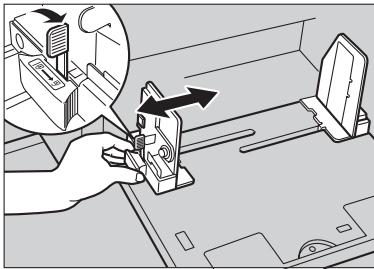
**1** Carefully open the paper feed tray.



**2** Lift the feed side/end plates.



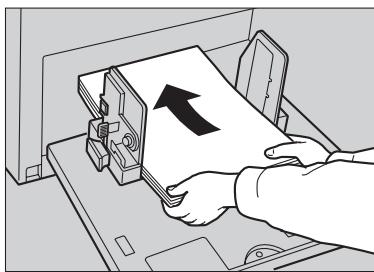
**3** Make sure that the locklever for the side plate is raised (lock is released), and then grasp the side plate knob and adjust the side plate to match the paper size.



**Important**

Always adjust the position with the lock lever for the paper feed side plates in the raised position (lock released).

**4** Place the paper on the paper feed tray.



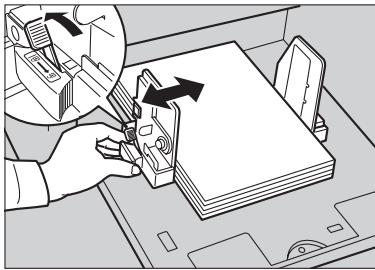
**Note**

Correct the paper curl before loading the paper. If you cannot do so, stack the paper with the curl face down.

**Reference**

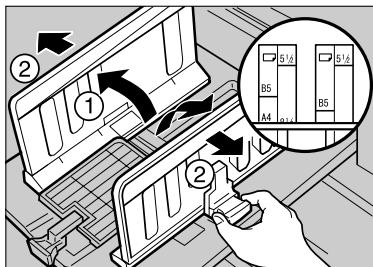
⇒ p.21 "Print Paper"

**5** Make sure that the paper feed side plates are touching both sides of the paper, and then push the lock lever for the side plates down to lock the side plates into position.



2BRY060E

**2** Lift the paper delivery side plates and adjust them to match the paper size.



ABL024S

**Important**

- Always make sure that you push the lock lever for the side plates down to lock the side plates position.

**Note**

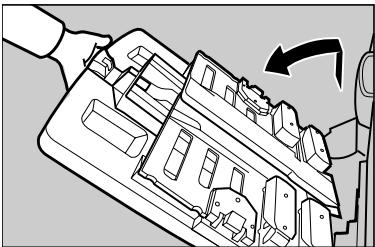
- Make sure that the paper size and direction in the panel display correspond with the actual paper size and direction set on the paper feed tray.

## Setting Up The Paper Delivery Tray

**Note**

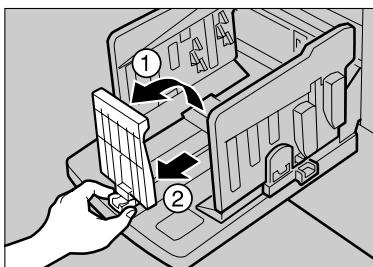
- When using the optional LCOT, see p.14 "Using the LCIT and LCOT".

**1** Raise the paper delivery tray slightly, and then gently lower it with your hand.



ABL022S

**3** Lift the paper delivery end plate and adjust it to match the paper size.



ACY064S

**Note**

- The inside of the plates should correspond to the paper size.

## Adjusting the Paper Alignment Wings and Chocks

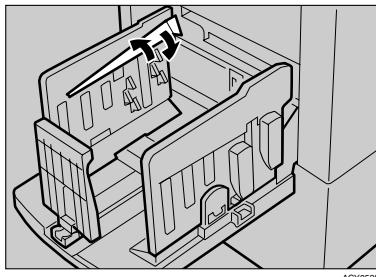
Use the paper alignment wings and chocks to stack printed paper neatly.

### Note

- Prints may be delivered curled up if they contain large areas of solid image. If this happens, raise the paper alignment wings to about 45 degrees. When printing on B5 of 52.3 g/m<sup>2</sup>, 13.9 lb or thinner, slide the chocks up together.
- Depending on the type of paper you are using, you may not be able to load to capacity (1000 sheets) when the wings are raised.
- When printing on 52.3 g/m<sup>2</sup>, 13.9 lb or thinner at a fast speed, paper jams (C) may occur in the paper exit area. If this happens, do the following:
  - Decrease print speed. See p.32 "Changing the Printing Speed".
  - Lower the paper alignment wings.
  - Push the end plate toward the paper delivery tray edge.
- When the paper alignment wings are raised, prints may not be delivered neatly stacked, depending on paper type. If this happens, lower the wings.

### ❖ Paper alignment wings

Adjust the paper alignment wings.

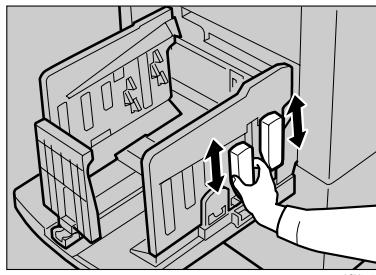


### 1. Raise the wings fully.

### 2. Raise the wings to about 45 degrees.

### ❖ Chocks

Slide the chocks up or down to adjust them to paper size and thickness.



Adjust the paper alignment wings and chocks according to paper size and thickness, as follows:

When printing on thick paper  
(128 g/m<sup>2</sup>, 34 lb or thicker)

- 1** Lower the paper alignment wings.
- 2** Slide the chocks down.

When printing on standard paper  
(52.3 g/m<sup>2</sup> – 128 g/m<sup>2</sup>, 13.9 lb to 34 lb)

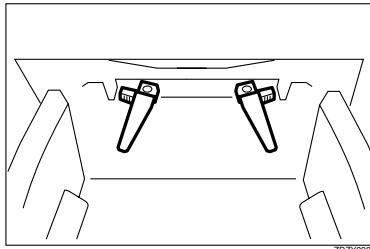
- 1** Adjust the paper alignment wings according to the paper size.
  - ❖ For A3, 11" × 17", B4 size paper  
Raise the paper alignment wings fully.
  - ❖ For A4 and B5 size paper  
Raise the paper alignment wings to about 45 degrees.
- 2** Slide the chocks up.

When printing on thin paper  
(52.3 g/m<sup>2</sup>, 13.9 lb or thinner)

- 1** Raise the paper alignment wings to about 45 degrees.
- 2** Slide the chocks down.

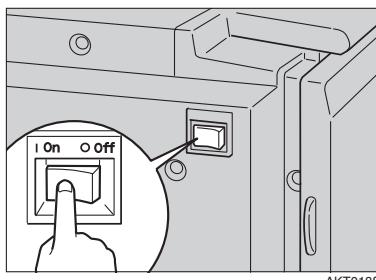
## Using the trailing edge guides

When printing on A4□, 8<sup>1</sup>/<sub>2</sub>"□, B5□ size paper, swing out the guides as shown below:



## Turning on the Main Power

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

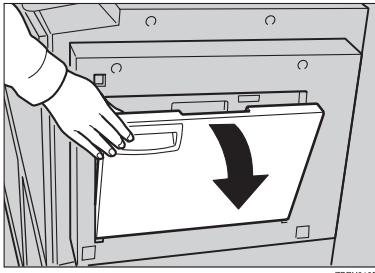


# Using the LCIT and LCOT

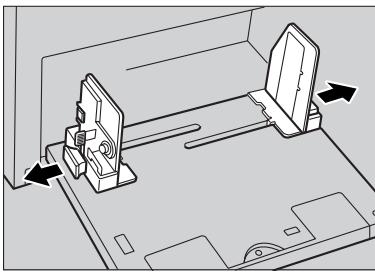
1

## Installing the LCIT

**1** Open the paper feed tray of the machine.



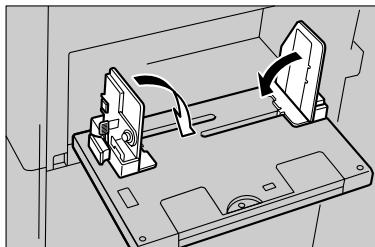
**2** Move the side guides of the paper feed tray of the machine to the widest position.



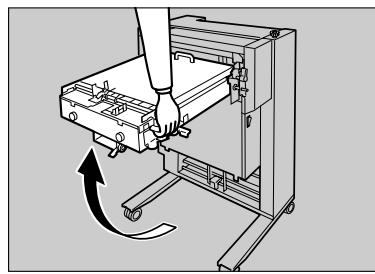
**Note**

- The side guides of the paper feed tray may rest slightly above the tray surface even when they are folded. Do not push them down forcefully.

**3** Lower the side plats.



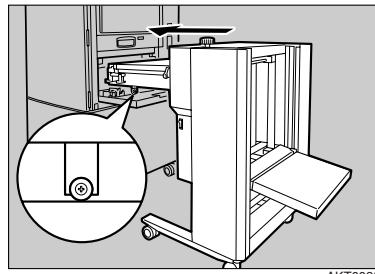
**4** Hold the handle and unfold the intermediate feeding section of the LCIT.



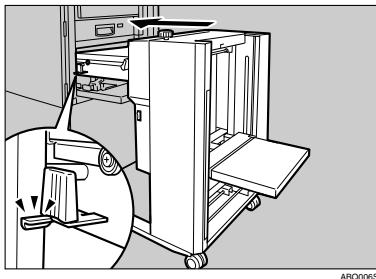
**Note**

- Do not release the handle.

**5** Lift the end of the intermediate feeding section and put it down placing the wheeled support bar onto the paper feed tray.



**6** Push the LCIT into the machine until it clicks.

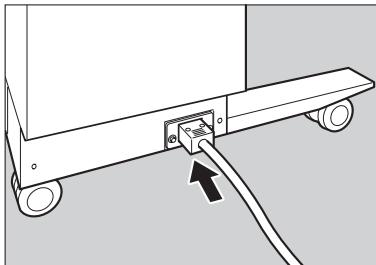


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**Note**

- Make sure that the metal projections on both sides touch the machine. If there is a gap, push until the gap disappears.

**7** Plug the LCOT connection cord into the socket located at the bottom of the back of the LCIT.



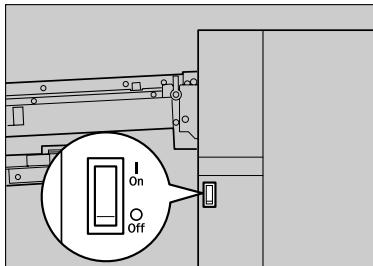
ABQ007S

## Turning On the Power

### Turning On the Power

- 1** Check that the LCOT connection cord is connected to the LCIT.
- 2** Make sure that the power cord is firmly plugged into the wall outlet.
- 3** Turn the power switch on.

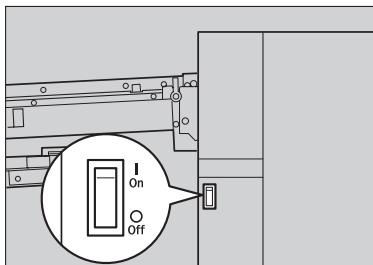
The green indicator blinks.



ABQ011S

### Turning Off the Power

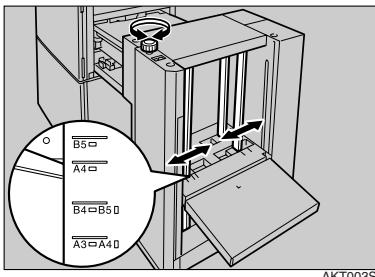
- 1** Turn the power switch off.



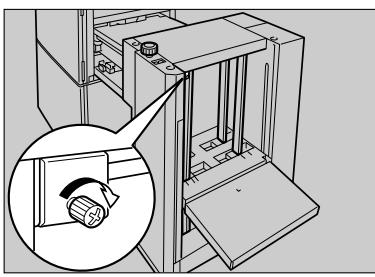
ABQ012S

## Loading Paper

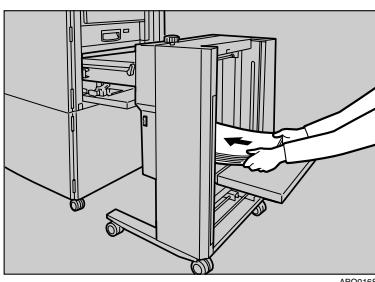
**1** Turn the side guide adjustment knob to adjust the side guides to the paper size.



**2** Tighten the screw to lock the side guides.



**3** Load paper.

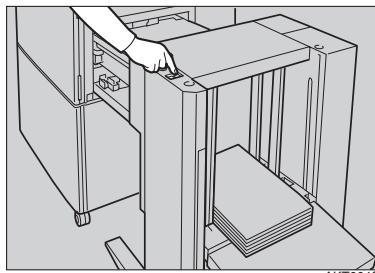


### Note

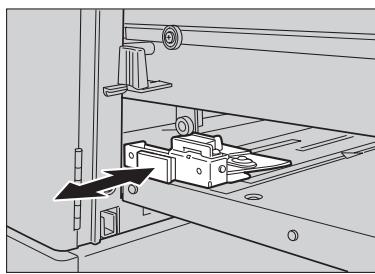
The leading edge of the paper must touch the inside of the LCIT.

**4** Press the up button.

The input tray goes up, and a sheet of paper is fed into the intermediate feeding section. The green indicator lights.



**5** At the machine, adjust the side guides of the paper feed tray to the paper size set for the LCIT and check that the paper size is displayed on the control panel.



### Note

Make sure that the paper size at the machine (the side guides of the paper feed tray and paper size displayed on the control panel) matches the size of the paper loaded on the LCIT. Otherwise, the inside of the machine will get dirty.

---

## Loading Paper Smaller than B6 JIS (Japanese Industrial Standard)(128×182 mm, 5.0" × 7.1")

---

Paper smaller than B6 JIS must be loaded directly onto the paper feed tray of the machine. The LCIT must be detached.

### 1 Detach the LCIT.

 **Reference**

p.19 "Uninstalling the LCIT"

### 2 Load paper onto the paper feed tray.

 **Reference**

For details, see p.10 "Loading Paper"

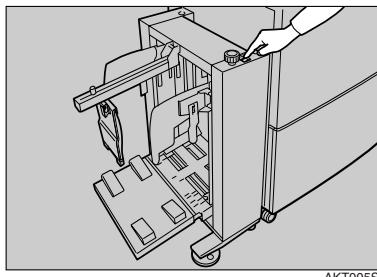
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## Preparing the LCOT for Printing

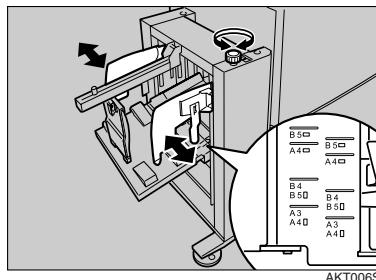
---

### 1 Press the up button.

The output tray goes up.



### 2 Turn the side guide adjustment knob to adjust the side guides to the paper size.

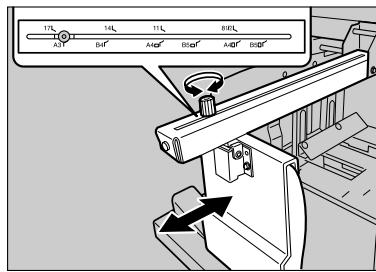


1

 **Note**

- Align the inside of the side guides with the appropriate mark on the output tray.

### 3 Loosen the screw for the end plate, adjust it to the paper size, and then tighten the screw to lock the end plate.



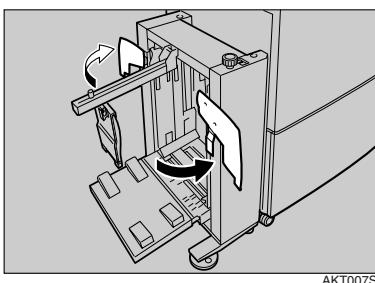
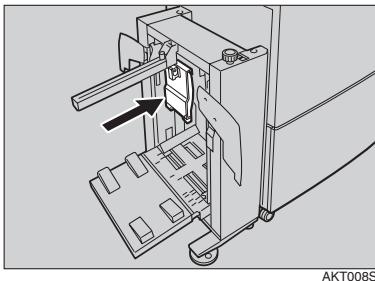
 **Note**

- Align the screw with the appropriate paper size mark.

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**Printing on Paper Smaller than B6 JIS**

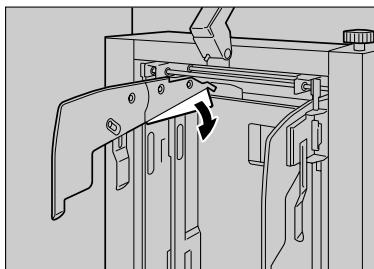
---

**1** Move the side guides outward.**2** Loosen the screw for the end plate, move it as close to the machine as possible, and then tighten the screw to lock the end plate.

---

**Printing on 81.4 g/m<sup>2</sup> (21.6 lb.) or Heavier Paper**

---

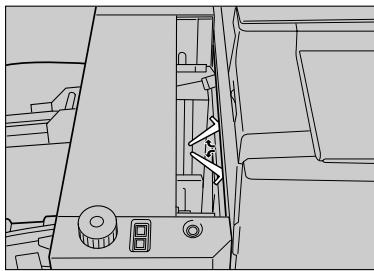
**1** Lower the paper alignment wings.**Note**

- Depending on the type of paper that you are using, you might not be able to use the full capacity (3000 sheets) of the LCOT when the wings are lifted.
- Lift the paper alignment wings when B5 JIS  prints are delivered curled up.

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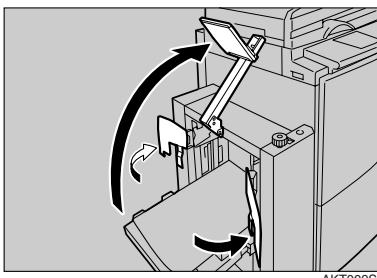
**Printing on Sizes Smaller than A4 or 8 1/2" x 11"  Paper**

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**1** Swing out the guides as shown in the illustration.

## Removing Prints

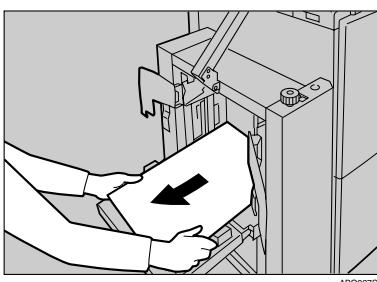
**1** Move the side guides outward, and then lift the end plate arm.



**Note**

- Lift the end plate arm completely before releasing it.

**2** Remove prints.



**3** Move the side guides and end plate arm back to their original positions.

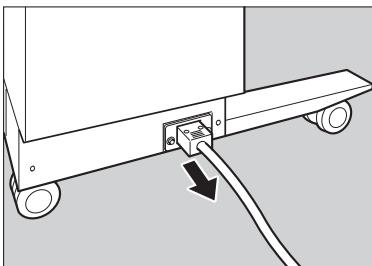
**Note**

- Lower the end plate arm completely before releasing it.

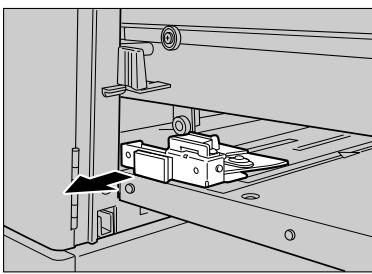
## Uninstalling the LCIT

**1** Turn both the main switch of the machine and power switch of the LCIT off, and then unplug the power cord from the wall outlet.

**2** Unplug the LCOT connection cord.

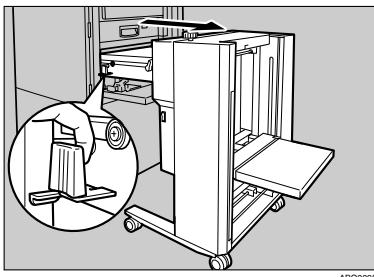


**3** Move the side guides of the paper feed tray of the machine to the widest position.



1

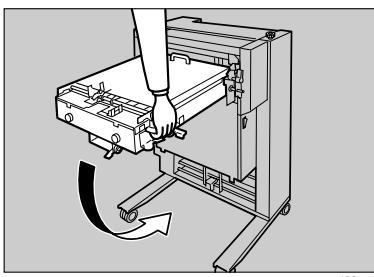
**4** While pulling the LCIT release lever, detach the LCIT.



 **Note**

- Be sure to hold the handle of the intermediate feeding section when you detach the LCIT.
- When using in off-line mode, do not move the LCIT further than the LCOT connection cord can reach.

**5** Fold the intermediate feeding section.



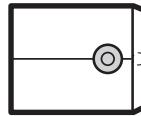
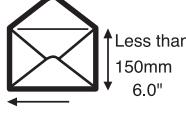
# Print Paper

The following limitations apply to the Paper Feed Tray:

	Paper Size		Paper Weight
	Metric	Inch	
Paper feed tray	A3 □, B4 □, A4 □, B5 □, Others (Vertical: 70 - 297mm, Horizontal: 250 - 432mm)	11" × 17" □, 8½" × 14" □, 8½" × 11" □, Others (Vertical: 2.76" - 11.7", Horizontal: 9.84" - 17")	52.3 - 209.3g/m <sup>2</sup> , 13.9 - 55.6 lb

Non-recommended paper and envelope:

- Roughly cut paper/envelope
- Paper of different thickness in the same stack
- Envelopes heavier than 85g/m<sup>2</sup>, 22 lb.
- Folded, curled, creased, or damaged paper
- Torn paper
- Slippery paper
- Rough paper/envelope
- 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
- Certain types of long thin envelopes e.g. international mail envelopes
- The following types of envelopes:

Envelopes with glue or gum	Envelopes with windows	Envelopes with round tags	Open envelopes
			 Less than 150mm 6.0" Paper feed direction

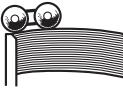
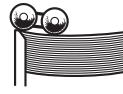
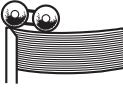
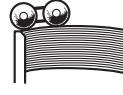
**Note**

If you print on rough grained paper, the following problems may occur:

- Black-Spotted image
- Blurred image
- Damaging master

**Important**

Correct curls in the paper before placing 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.

	Right	Wrong
Thin Paper		
Thick Paper		

TPEY990E

## Recommended for the LCIT

The size and quantity of paper that can be loaded on the LCIT are as follows.

Paper size		Paper weight	Tray capacity
Metric version	Inch version		
Maximum: 297 × 432 mm (325 × 447 mm <sup>*1</sup> )	Maximum: 11.6" × 17.0" (12.7" × 17.5" <sup>*1</sup> )	47.1 – 209.3 g/m <sup>2</sup> (12.5 – 55.61 lb.)	3000 sheets (80 g/m <sup>2</sup> , 20 lb.)
Minimum: 128 × 182 mm	Minimum: 5.1" × 7.1"		Paper stack height: Less than 320mm (12.5")

<sup>\*1</sup> When the image position is set to 0 mm (0")

### Note

- Tray capacity is based on using high quality 80 g/m<sup>2</sup> (20 lb.) paper. The number of sheets shown is approximate.
- The types of paper that can be used correspond to the machine specification. For more information, see the operating instructions for the machine.

## Recommended for the LCOT

Paper size		Paper weight	Tray capacity
Metric version	Inch version		
Maximum: 297 × 432 mm (325 × 447 mm <sup>*1</sup> )	Maximum: 11.6" × 17.0" (12.7" × 17.5" <sup>*1</sup> )	47.1 – 209.3 g/m <sup>2</sup> (12.5 – 55.61 lb.)	3000 sheets (80 g/m <sup>2</sup> , 20 lb.)
Minimum: 70 × 148 mm (When the LCIT is installed: 128 × 182 mm)	Minimum: 2.8" × 5.9" (When the LCIT is installed: 5.1" × 7.1")		Paper stack height: Less than 345mm (13.5")

<sup>\*1</sup> When the image position is set to 0 mm (0")

### Note

- Tray capacity is based on using high quality 80 g/m<sup>2</sup> (20 lb.) paper. The number of sheets shown is approximate.

# Standard Printing

1

## 1 Set the Drum Unit.

### Reference

⇒ p.7 "Setting the Drum Unit"

## 2 Make sure that the machine is ready for printing.

## 3 Make sure that there are no previous settings remaining.

### Note

□ To clear any previous settings, press the **[Clear Modes]**.

## 4 Set the paper

### Reference

⇒ p.10 "Loading Paper"

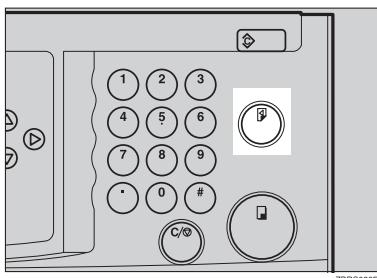
## 5 Select the Paper type

### Reference

⇒ p.27 "Printing onto Various Kinds of Paper"

## 6 Set your desired settings.

## 7 Press the **[Proof]** Key.



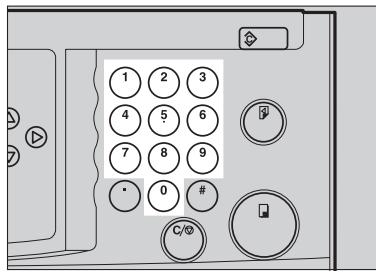
ZBRS022E

### Note

□ If the Image position is not correct, adjust it by using **[Whole]** or **[Drum 2]**. ⇒ p.30 "Adjusting the Position of Printed Images".

□ If the image density is slightly dark or light, adjust the image density, using **[◀]** **[▶]** Speed keys. ⇒ p.32 "Changing the Printing Speed".

## 8 Enter the number of prints required with the number keys.



ZBRS023E

### Note

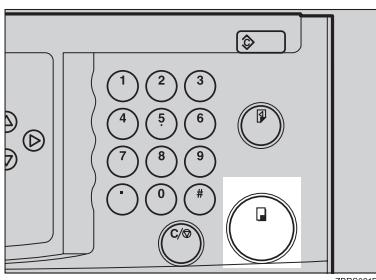
□ The counter shows the number of prints you set.



ZBRS050E

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

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

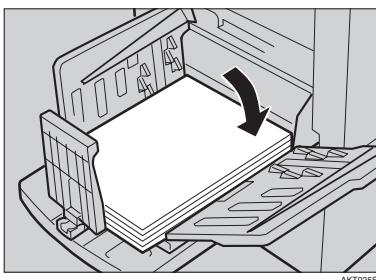


**Note**

- 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] key.

## Removing Prints

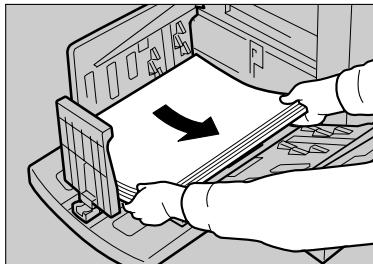
**1** Pull the front paper delivery side plate down towards you to open.



**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.



1

## Auto Reset

The machine returns to its initial condition automatically after your job is finished. This function is called "Auto Reset". ⇒ p.36 "User Tools"

**Note**

- You can change the time the machine can wait before Auto Reset mode starts.
- The machine will not automatically enter Auto Reset mode in the following cases:
  - If there is no ink
  - If paper misfeed occur
  - If the machine is printing
  - If there is no paper
  - If the cover open message is displayed

## Auto Off

If you do not operate the machine for a certain period the machine can enter Quality Standby mode to remove ink from inside the machine, and then turn itself off. This function is called "Auto Off".

### • Limitation

Quality Standby mode does not available when you use colour Drum Type 50S/80S/90<A4>.

### ◆ Note

You can change the time the machine can wait before Auto Off modes starts.⇒ p.36 "User Tools"

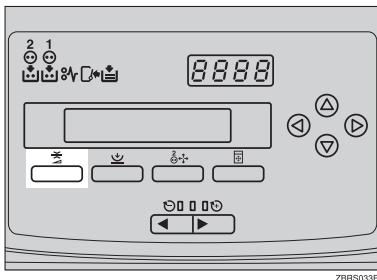
# Printing onto Various Kinds of Paper

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

## Printing onto Thick Paper

If you wish to print onto thick (127.9 to 209.3g/m<sup>2</sup>, 34 to 55.6 lb or heavier) paper, perform the following steps.

### 1 Press the [Ppr.Type] key.



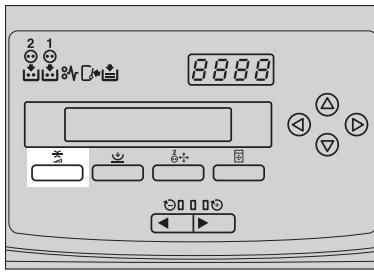
### 2 Select [2:THICK] with [ $\triangle$ ] [ $\triangleright$ ] key.

PAPER TYPE	1:STD
2:THICK	3:SPL
**	

### 3 Press the [#] key.

## Printing onto Standard Paper

### 1 Press the [Ppr.Type] key.



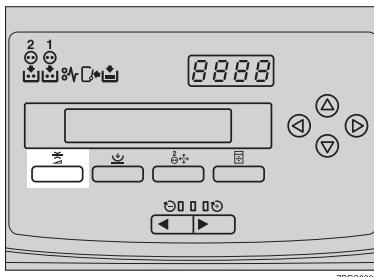
### 2 Make sure that [1:STD] is selected.

PAPER TYPE	1:STD
2:THICK	3:SPL
**	

### 3 Press the [#] key.

## Printing onto Special Kinds of Paper

### 1 Press the [Ppr.Type] key.



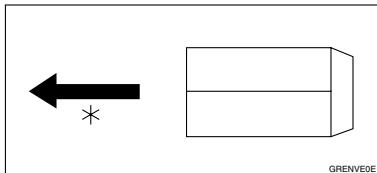
### 2 Select [3:SPL] with [ $\triangle$ ] [ $\triangleright$ ] key.

PAPER TYPE	1:STD
2:THICK	3:SPL
**	

### 3 Press the [#] key.

#### Printing onto envelopes

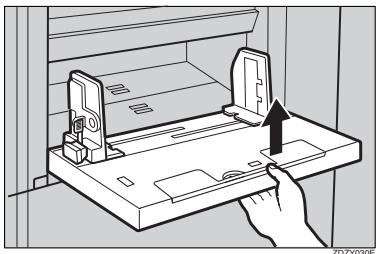
1 Place the envelopes in the paper feed tray as shown in the illustration.



\*: Paper feed direction

#### Note

- When you use envelopes, the Paper feed tray capacity is about 150 sheets (85g/m<sup>2</sup>, 22 lb) or enough to load a stack up to 105mm, 4.1" high.
- 2 If your envelopes do not feed in well, lift the paper feed tray a little, and then lower it so that it slants up slightly.

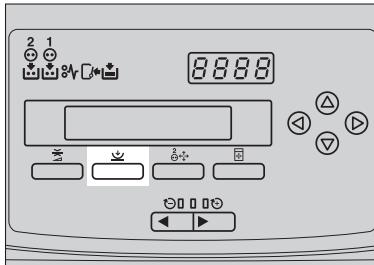


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### Paper Supply Adjustment

If paper misfeeds occur frequently, you can adjust the paper feeding ratio and paper separation ratio.

1 Press the [Ppr. Supply Adj] key.



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FEED PRES. 0123456\*\*  
SEPAR PRES. 0123456\*\*

2 Press [ $\triangleleft$ ] [ $\triangleright$ ] [ $\triangle$ ] [ $\triangledown$ ] or the number keys to adjust the paper feeding ratios and the paper separation ratios.

3 Press [#] key.

If the machine does not feed enough paper

1 Change the paper feeding ratio setting as follows.

Paper type	Paper feed pressure ratio
Normal	5~6 (*3)
Thick	6 (*5)
Special kinds of Paper	5~6 (*3)

\*: Default

---

If the machine feeds too much paper

---

① Change the paper separation ratio setting as follows.

Paper type	Paper feed separation ratio
Normal	4~6 (*3)
Thick	3~4 (*2)
Special kinds of Paper	3~4 (*1)

\*: Default

# Adjusting the Position of Printed Images

1

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

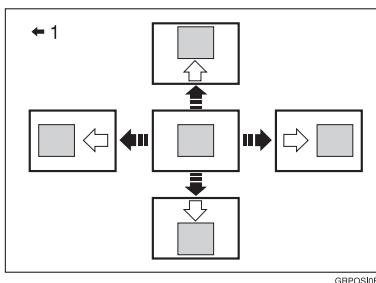
## ◆ Note

- Unexpected change to the image position may occur with the following actions:
  - Switching Drum1 and 2.
  - Remaking a master using the master making unit.
  - Changing the print speed.

There are two kinds of image adjustment as follows:

## ◆ Overall Image Adjustment

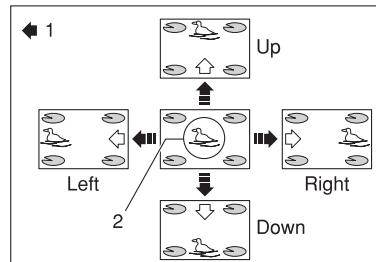
You can adjust the mixed image position of Drum1 and Drum2.



1: Paper feed direction

## ◆ Drum2 Image Adjustment

You can adjust the image position of Drum2.



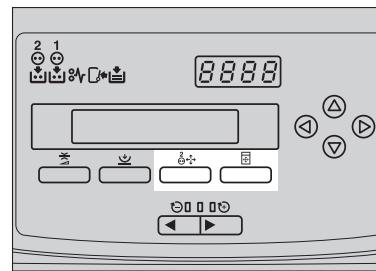
1: Paper Feed Direction

2: Image of Drum2

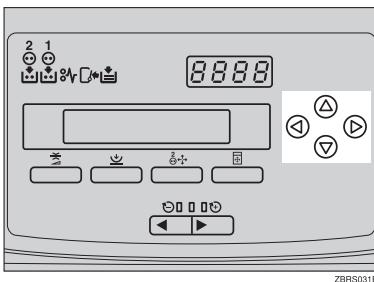
## ◆ Note

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

## 1 Press the [Whole] or [Drum 2] key.



**2** Adjust the image position using the [ $\triangleleft$ ], [ $\triangleright$ ], [ $\triangle$ ], and [ $\triangledown$ ] keys.



 **Note**

- When you shift the image forward, 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.
- If you adjust the image position, a print shadow might appear.

**Overall image adjustment**

**1** You can change the overall image position of both Drum 1 and 2. Use [ $\triangleleft$ ][ $\triangleright$ ][ $\triangle$ ][ $\triangledown$ ] keys to shift the image each way in 0.5mm, 0.02" steps.

Up & Down	Right & Left
+10mm, 0.4" or -10mm, 0.4"	+15mm, 0.6" or -15mm, 0.6"

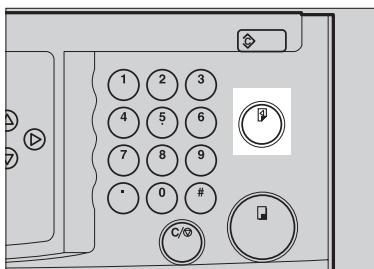
**Drum 2 image adjustment**

**1** You can change the image position of Drum 2. Use [ $\triangleleft$ ][ $\triangleright$ ][ $\triangle$ ][ $\triangledown$ ] keys to shift the image each way in 0.125mm, 0.005" steps.

Up & Down	Right & Left
Moving sums of both adjustment functions (Max 10mm, 0.4")	+5mm, 0.2" or -5mm, 0.2"

**3** Press the [**Enter**] key.

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

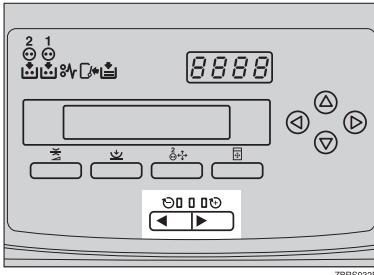


# Changing the Printing Speed

1

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.

**1** Press the [**▶**] key to increase the speed and press the [**◀**] key to reduce the speed.



## Note

- The following speeds are available:
  - Setting 1 (default): 90 sheets/minute
  - Setting 2: 105 sheets/minute
  - Setting 3: 120 sheets/minute
- The faster the printing speed becomes, the lighter the printing density is, and vice versa.
- If you change the print speed while printing, a print shadow might appear.
- When the machine is used in low temperature conditions, the image density might decrease. In this case, use setting one.

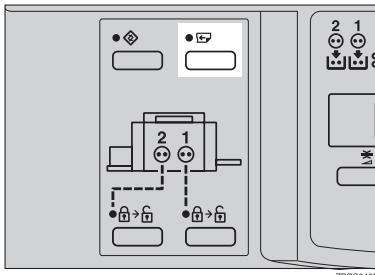
# Skip Feed Printing

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 per sheet of paper is the default. You can change this default setting with the user tools. See "No. of Skip Feed" ⇒ p.33 "Skip Feed Printing".
- 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.

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



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**2** If necessary, select the number of rotations of the drum per sheet of paper fed with the **[<] [>]** keys.

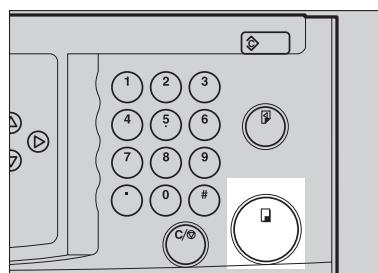
SKIP FEED NO SETTING  
INPUT THE NUMBER \*

## ■ 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.36 "User Tools".

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

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



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**5** Check the image position of the trial or proof print.

## ■ Note

- If the image position is not correct, adjust it using the **[Whole]** or **[Drum2]** key (⇒ p.30 "Adjusting the Position of Printed Images").

## 6 Make your prints.

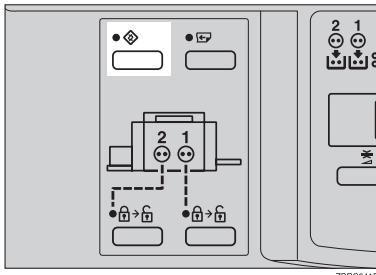


# 2. User Tools

## Accessing the User Tools

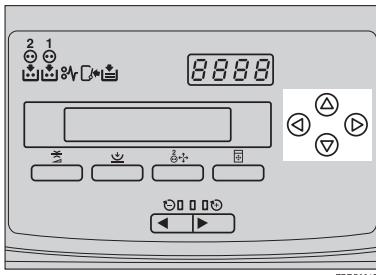
The user tools allow you to customize various default settings. This section is intended for the machine administrator.

### 1 Press the [User Tools] key.



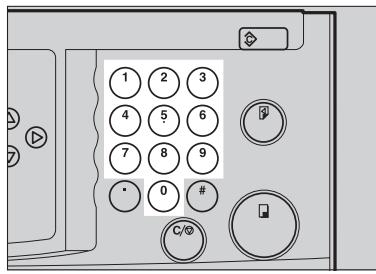
### Using the [ $\Delta$ ], or [ $\nabla$ ] key

#### 1 Search for the desired user tool number with the [ $\Delta$ ], [ $\nabla$ ], key.



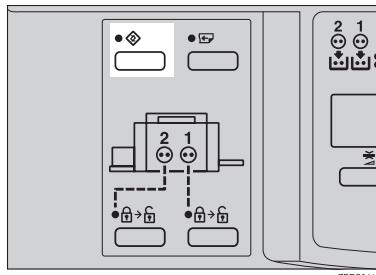
### Using the number keys

#### 1 Enter the desired user tool number with the Number keys.



#### 2 Change the settings by following the instructions on the panel display. Then press the [#] key.

#### 3 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] key is pressed.

# User Tools

## 🔍 Reference

For how to access the user tools, ⇒ p.35 “Accessing the User Tools”.

2

## 1. System

No.	Mode	Description
1	Auto Reset Time	<p>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).</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>Off</i></p>
2	Resettable Count	The counter shows the number of prints you made.
3	Clr Resettable Count	<p>Choose whether the total number of prints is reset.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>Not clear</i></p>
4	Max Print	<p>The maximum print quantity can be set between 1 and 9999.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>9999</i></p>
5	Total Counter	Use to display the total number of prints.
6	Buzzer Off	<p>Turns the beeper on or off.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>STD. (standard)</i></p> <p><input type="checkbox"/> Available settings:           <ul style="list-style-type: none"> <li>• 0: KEY OFF (When you press a key, the beeper does not sound. When warning messages appear on the panel display, the beeper sounds.)</li> <li>• 1: ON (The beeper sounds when you press a key or when warning messages appear on the panel display.)</li> <li>• 2: OFF (The beeper does not sound when you press keys or when warning messages appear on the panel display.)</li> </ul> </p>
7	Auto Off	<p>If you do not operate the machine for a certain period the machine can enter Quality Standby mode to remove ink from inside the machine, and then turn itself off. This function is called “Auto Off”. The time can be set from 10 to 90 minutes.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>60 minutes</i></p> <p><input type="checkbox"/> Quality Standby mode is not available when you use colour Drum Type 50S/80S/90&lt;A4&gt;.</p>

No.	Mode	Description
8	Jump Table	<p>You can change the angle of the wing guide depending on the paper type you use.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>Auto</i></p> <p><input type="checkbox"/> Available settings:</p> <ul style="list-style-type: none"> <li>• Up (Select this setting when standard thickness or thin paper misfeeds at the paper exit section occur frequently.)</li> <li>• Down (Select this setting when A4 – B5, 8<sup>1</sup>/<sub>2</sub>" x 11" thick paper is not delivered properly to the paper delivery tray.)</li> </ul>
9	Drm Stp Mode	<p>You can select the drum which you will be able to pull out immediately after you finish your job without pressing any key.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Drum 1</p>
10	Long Sheet Mode	<p>You can select whether you can use paper longer than 432mm, 17.0" or not.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>Not to use</i></p> <p><input type="checkbox"/> When you use paper longer than 432mm, 17.0", lower the paper delivery end plate and receive completed prints by hand.</p>
11	Skip Number of Time	<p>Specifies the number of drum rotations in Skip Feed mode when the power is turned on. You can also select whether you can change the number of drum rotations temporarily when you press the <b>[Skip Feed]</b> key. ⇒ p.33 "Skip Feed Printing".</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default:</p> <ul style="list-style-type: none"> <li>• Number of Skip Feed: 2</li> </ul>
12	Skip Display On Mode	<p>When you press <b>[Skip Feed]</b> key, you can select whether optional print counts display shows up or not.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>Off</i></p>
13	Total Counter Down	<p>The copy counter can be set to show the number of copies made (Count Up), or the number of copies remaining to be made (Count Down).</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: <i>Yes (Count Down)</i></p>
14	Print Position	You can register the settings of print image position.
15	Feed Setup	You can register the settings for frequently use.

No.	Mode	Description
16	User Code Mode	<p>Selects user code mode. When you set this function, you have to also specify the auto reset time. For details about user code mode, see p.39 "User Codes".</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default:</p> <ul style="list-style-type: none"> <li>• User Code mode: 0</li> <li>• Auto Reset time: 0</li> </ul> <p><input type="checkbox"/> Adjustment value:</p> <ul style="list-style-type: none"> <li>• User Code mode: 0: No 1: Yes</li> <li>• Auto Reset time: 0: No, 1 – 5 minutes</li> </ul>
17	UC Count	Displays the number of prints made in each user code.
18	Clear UC Count	<p>Clears each user code counter.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 0</p> <p><input type="checkbox"/> Adjustment value: 0: No 1: Yes</p>
19	Total UC Count	Displays the total number of prints for all the 200 user codes.
20	Clear Total UC Count	<p>Clears the total user code counter.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 0</p> <p><input type="checkbox"/> Adjustment value: 0: No 1: Yes</p>

# User Codes

If the machine is set to use the User Code function, operators must enter their user codes before the machine can operate. The machine keeps count of the number of prints made under each user code.

In this mode, the following 200 user codes (fixed) can be used to access the machine: 000, 019, 028, 037, 046, 055, 064, 073, 082, 091, 100, 119, 128, 137, 146, 155, 164, 173, 182, 191, 200, 219, 228, 237, 246, 255, 264, 273, 282, 291, 300, 319, 328, 337, 346, 355, 364, 373, 382, 391, 400, 419, 428, 437, 446, 455, 464, 473, 482, 491, 500, 519, 528, 537, 546, 555, 564, 573, 582, 591, 600, 619, 628, 637, 646, 655, 664, 673, 682, 691, 700, 719, 728, 737, 746, 755, 764, 773, 782, 791, 800, 819, 828, 837, 846, 855, 864, 873, 882, 891, 900, 919, 928, 937, 946, 955, 964, 973, 982, 991, 001, 012, 023, 034, 045, 056, 067, 078, 089, 090, 101, 112, 123, 134, 145, 156, 167, 178, 189, 190, 201, 212, 223, 234, 245, 256, 267, 278, 289, 290, 301, 312, 323, 334, 345, 356, 367, 378, 389, 390, 401, 412, 423, 434, 445, 456, 467, 478, 489, 490, 501, 512, 523, 534, 545, 556, 567, 578, 589, 590, 601, 612, 623, 634, 645, 656, 667, 678, 689, 690, 701, 712, 723, 734, 745, 756, 767, 778, 789, 790, 801, 812, 823, 834, 845, 856, 867, 878, 889, 890, 901, 912, 923, 934, 945, 956, 967, 978, 989, 990

## Note

- To prevent unauthorized users from accessing the machine, note down the codes and then black out the codes from this manual.

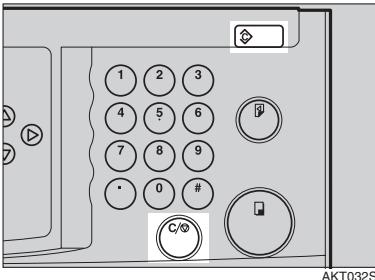
## How to Set User Code Mode (#16)

The following procedure explains how to set user code mode. This must be done before a user code can be entered.

- 1** Press the **[User Tools]** key.
- 2** Enter “16” with the number keys and press the **[#]** key.
- 3** Enter “1” (Yes) with the number keys and then press the **[#]** key.
- 4** Specify the Auto Reset time. Enter the desired setting with the number keys and press the **[#]** key.
- 5** Press the **[User Tools]** key to leave User Tools.

## How to Use User Code Mode

- 1** Enter your assigned 3-digit user code with the number keys, then press the [#] key.
- 2** Make your prints.
- 3** After you have finished, press the [Clear/Stop] key while holding down the [Clear Mode] key.



### Note

- This prevents others from making prints using your user code.
- If you do not follow this step, the machine will not request the next user for their codes unless the auto reset time has expired.

## How to Check the User Code Counter (#17)

### Reference

If you want to check the total masters and prints made under all user codes, see p.41 "How to Check the Total Number of Masters and Prints Made Under All User Codes (#19)".

- 1** Press the [User Tools] key.
- 2** Enter "17" with the number keys and press the [#] key.  
The number of masters and prints made under the user code "382" will be displayed in the guidance display.
- 3** Keep pressing the [#] key to display the number of masters and prints made under your user code.
- 4** Press the [User Tools] key to leave User Tools.

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## How to Clear the User Code Counter (#18)

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### Reference

If you want to clear every user code counter, see p.41 "How to Clear the User Code Total Counter (#20)".

- 1** Press the **[User Tools]** key.
- 2** Enter "18" with the number keys and press the **[#]** key.
- 3** Keep pressing the **[#]** key until desired user code is displayed.
- 4** Enter "1" (Yes) with the number keys and press the **[#]** key.
- 5** Press the **[User Tools]** key to leave User Tools.

---

## How to Check the Total Number of Masters and Prints Made Under All User Codes (#19)

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- 1** Press the **[User Tools]** key.
- 2** Enter "19" with the number keys and press the **[#]** key.  
The total number of prints made under all user codes will be displayed in the guidance display.
- 3** Press the **[User Tools]** key to leave User Tools.

---

## How to Clear the User Code Total Counter (#20)

---

- 1** Press the **[User Tools]** key.
- 2** Enter "20" with the number keys and press the **[#]** key.
- 3** Enter "1" (Yes) with the number keys and press the **[#]** key.
- 4** Press the **[User Tools]** key to leave User Tools.



# 3. Troubleshooting

## 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
RE-ENTER COPY NUMBER	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. ⇒ p.36 "User Tools".
DRUM1: SET COMPLETELY	Slide in the drum until it clicks. Make sure that the drum is completely set in position.
SC*-*TEL ***** CALL SERVICE	Turn the main switch off and on. If the message appears again, contact your service representative.
COLD DRUM NOT TO USE 3RD SPEED	Slow down the printing speed, and then press start key.
DRUM1 UNSUITABLE DRUM TYPE	Insert the same kinds of drum unit for both Drum1 and Drum2. If the message appears again, contact your service representative.

### When a service call message is shown on the panel display panel

Turn the main switch off and back on again. If a service code appears again, contact your service representative.

# If You Cannot Make Prints as You Want

3

Problem	Cause	Action
Misfeeds occur frequently.	Improper paper type is selected.	Select proper paper type.  <b>Reference</b> Refer to the master making unit's operating instructions.
Parts of the image are not printed.	The image is too wide.	<ul style="list-style-type: none"> <li>Set larger size paper.</li> <li>Return the drum unit to the master making units, and then reduce the print image size.</li> </ul>
Print shadow appears.	The background image density is too high.	<ul style="list-style-type: none"> <li>Switch drum 1 and 2.</li> <li>Set thick paper.</li> </ul>
The print image appears too light.	The print speed is too fast.	Lower the print speed.
Scratches appear on the print image.	Sharp edges in the machine may have scratched your prints.	<ul style="list-style-type: none"> <li>Increase the print speed.</li> <li>Set thick paper.</li> </ul>
The images of drum 1 and 2 do not mix well together.	If the image density is too high, the background colour might appear strong.	<ul style="list-style-type: none"> <li>Switch drum 1 and 2.</li> <li>Use the image of drum 1 for background.</li> </ul>
2nd printing with another drum is unsatisfactory.	The 1st print image is still wet.	Wait until the 1st image becomes dry.
Roller marks appear when you print onto the reverse side of paper.	1st printed image is still wet and the press roller becomes dirty.	<ul style="list-style-type: none"> <li>Wait until the 1st printed image becomes dry.</li> <li>Set thick paper.</li> <li>Wipe off the ink on the press roller. ⇒ p.59 "When the Press Roller is Dirty"</li> </ul>

Problem	Cause	Action
An uneven solid image appears.	Large solid image wrinkles the master.	<ul style="list-style-type: none"><li>• Increase the print speed.</li><li>• Set thick paper.</li><li>• Use Drum2 for a large solid image.</li><li>• Return the drum unit to the master making unit, and then remake the master with economy mode or quality start mode.</li><li>• Use Quality Standby mode by pressing the clear mode key for more than 3 seconds.</li><li>• When you make master, make a few trial prints, and then return the drum units to this machine.</li></ul>



### Reference

Refer to the master making unit operating instructions.

## If the LCS Does Not Operate as You Want

Problem	Cause	Solution
The red indicator is blinking.	Paper remains in the intermediate feeding section.	Remove the paper, and then press the up button.
The input tray does not go up when the up button is pressed.	There is no paper loaded in the input tray.	Load paper.
	A sheet of paper remains in the intermediate feeding section.	Remove the paper.
	The cover release lever is not locked.	Lock the cover release lever.
If the input tray does not move after 15 seconds, after eliminating the causes above, contact your service representative.		
The red indicator is lit.	—	Turn the power off, and then back on. If the red indicator is still lit, contact your service representative.

# >Loading Paper

## >Loading Paper into the Paper Feed Tray

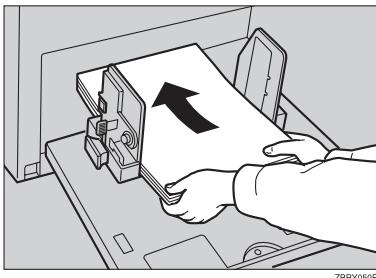
### • Limitation

- 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 mis-feeds.
- If you use a variety of paper while printing, a print shadow might appear.

### 🔍 Reference

For available paper sizes, ⇒ p.21 "Print Paper".

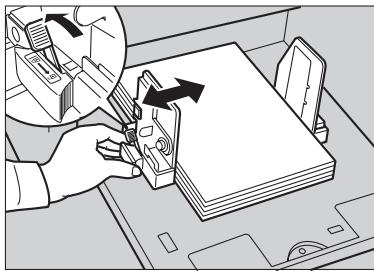
### 1 Load the paper in the Paper feed tray.



#### >Note

- Correct any paper curl before loading the paper.

### 2 Adjust the paper feed side plate to match the paper size.

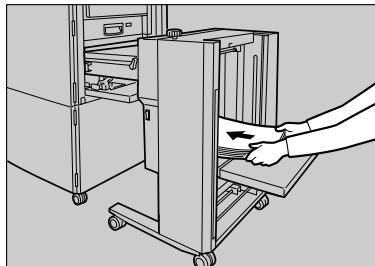


3

## >Loading Paper into LCIT

If paper runs out while printing, the green indicator blinks and the input tray goes down. Replenish paper in the input tray.

### 1 Load paper.



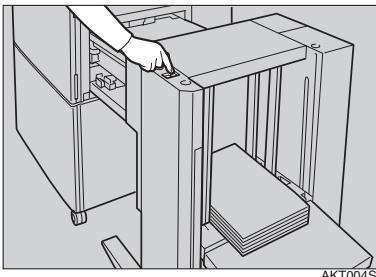
#### Note

- The leading edge of the paper must touch the inside of the LCIT.

**2** Press the up button.

The input tray goes up, and a sheet of paper is fed into the intermediate feeding section. The green indicator lights.

3



# When the Add Ink Indicator (■) Lights

The Add Ink indicator (■) lights when it is time to supply ink.

## ⚠ CAUTION:

- If ink comes into contact with your eyes, rinse immediately in running water. For other symptoms, consult a doctor.

## ⚠ CAUTION:

- Keep the ink or ink container out of reach of children.

## ⚠ CAUTION:

- If ink is ingested, induce vomiting by drinking a strong saline solution. Consult a doctor immediately.

## ⚠ CAUTION:

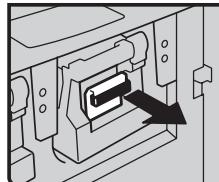
- Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.

## >Note

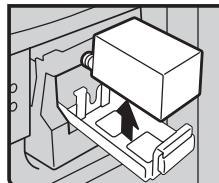
- Be sure to supply ink of the same colour as the current drum.
- Ink is readily removed from skin by waterless hand cleaners followed by washing with soap and water.
- Be careful not to get any ink on your clothing.
- Store ink under low temperature and humidity conditions.
- Do not store ink where it will be exposed to heat or direct sunlight.
- Store on a flat surface.

## 1 Open the front door.

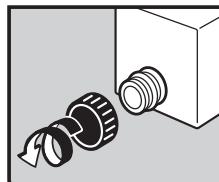
## 2 Pull out the ink holder.



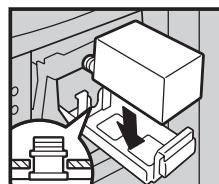
## 3 Remove the used ink cartridge.



## 4 Remove the cap of the new ink cartridge.



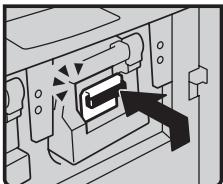
## 5 Insert the new cartridge into the ink holder.



## Note

- Always supply ink of the same colour.

**6** Return the ink holder to its original position until it clicks.



**3**

**7** Close the front door.

The machine will start idling to supply ink to the drum.

# Clearing Misfeeds

## ⚠ 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

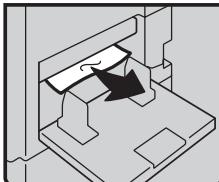
- After clearing misfeeds, make sure that all the doors, covers, and units are closed and the  indicator is off.
- To prevent misfeeds, do not leave any torn scraps of paper in the machine.
- When clearing misfeeds, do not turn off the main switch. If you do, your print settings will be cleared.
- If misfeeds occur repeatedly, please contact your service representative.

## Paper Misfeed in the Paper Feed Section

PAPER FEED JAM  
REMOVE PAPER

MISFED REGISTRATION  
REMOVE PAPER

### 1 Remove the misfed paper.



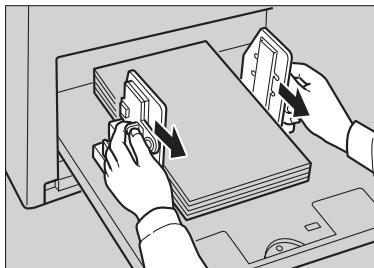
## 💡 To prevent paper misfeeds:

Check the following before restarting the printing run.

- Did you select an appropriate paper type with the **[Ppr.Type]** key?

PAPER TYPE 1:STD  
2:THICK 3:SPL \*\*

- Are the side pads in the correct positions?



ZBRY070E

To print on thin paper (52.3g/m<sup>2</sup>, 13.9 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.



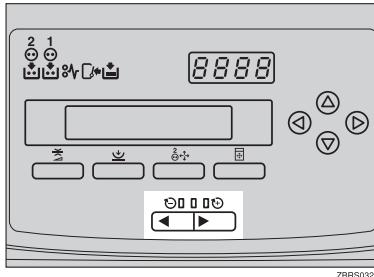
Z066

- When paper edges stick together or paper is not fed in, shuffle the paper as shown.



3

- When printing onto envelopes or thick paper, lower the printing speed. ⇒ p.32 "Changing the Printing Speed".



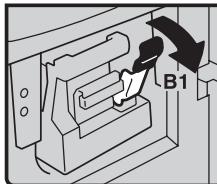
- When a multi-feed occurs or the paper is skewed, make sure that the paper feed side plates are properly adjusted. When you load paper on the paper feed tray, make sure that the paper edge touches the back fence and paper is placed on the proper paper size scale. Only use paper where the leading edge has two right angle corners.

.....

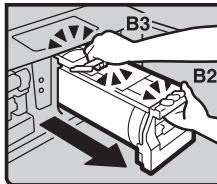
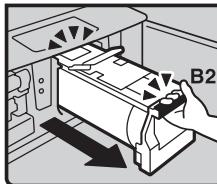
## Paper Misfeed in the Paper Feed Section

**REGISTRATION JAM  
REMOVE PAPER**

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



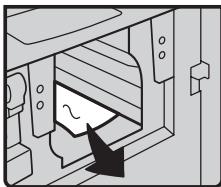
- Take out the drum.



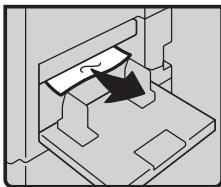
**Note**

For how to take out the drum unit, ⇒ p.9 "Changing the Drum Unit".

**4** Pull out the misfed paper gently from the inside.



**5** If you cannot remove the misfed paper from the inside, remove from the Paper feed tray.



**6** Set the drum unit and close the front door.

**To prevent paper misfeeds:**

⇒ p.51 "Paper Misfeed in the Paper Feed Section".

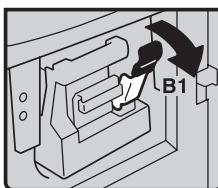
## Paper Wrapped around the Drum

When paper is wrapped around the drum

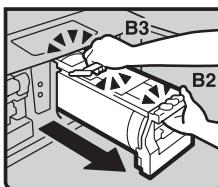
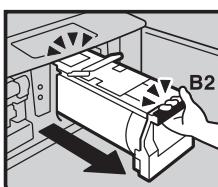
DRUM1 : PAPERFED SKEW  
REMOVE PAPER

**1** Open the front cover.

**2** Lower drum unit lock lever B1.



**3** Take out the drum.

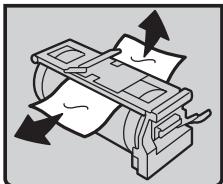


**Note**

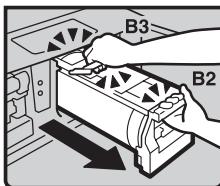
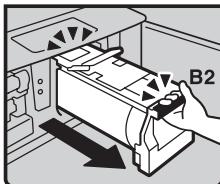
□ For how to take out the drum unit, ⇒ p.9 "Changing the Drum Unit".

3

**4** Remove the misfed paper from the drum.



**3** Take out the drum.



**5** If you cannot find misfed paper in step **4**, remove misfed paper from the press roller.

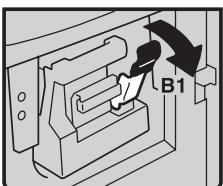
**6** Set the drum unit and close the front door.

#### When paper is misfed inside the machine

DRUM1 : DELIVERY JAM  
REMOVE PAPER

**1** Open the front cover.

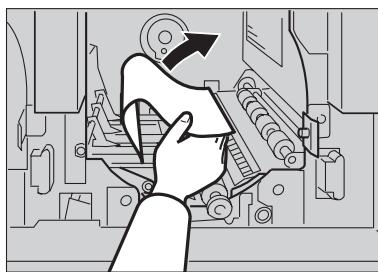
**2** Lower drum unit lock lever B1.



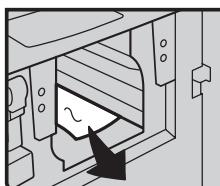
**Note**

For how to take out the drum unit, ⇒ p.9 "Changing the Drum Unit".

**4** Remove the misfed paper from the inside as shown in the illustration.



ZBRH100E



**5** If you cannot remove the misfed paper, remove paper from the press roller.

**6** Set the drum unit and close the front door.

 **To prevent paper misfeeds:**

If the paper is curled or the original's leading edge margin is too narrow, the following action is necessary.

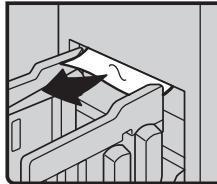
- When you use curled paper, correct the curl as shown.



- If you want to know more details about leading edge margin, refer to the master making unit's operating instructions.

## Paper Misfeed in the Paper Exit Section

**1** Slowly but firmly pull out the misfed paper.



AKT022S

 **To prevent paper misfeeds:**

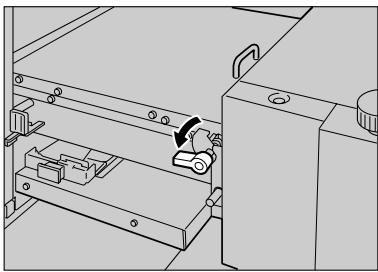
When a thin paper misfeed in the paper exit section occurs, reduce the printing speed with the [ $\blacktriangleleft$ ][ $\triangleright$ ] [Speed] keys ( $\Rightarrow$  p.32 "Changing the Printing Speed"). If you cannot reduce the printing speed move the end plate toward the paper delivery tray edge.

## When Paper Misfeeds in the LCIT

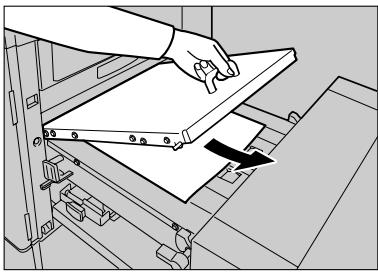
**1** Turn the cover release lever to unlock the cover of the intermediate feeding section.

The red and green indicators blink.

3



**2** Open the cover, and then remove the paper.

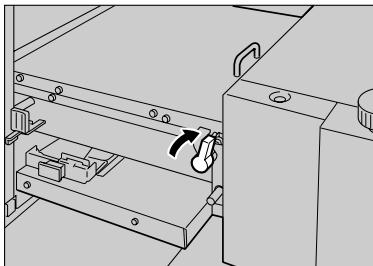


**Note**

- If you open the cover, be sure to remove the paper even if it is not misfed.
- When opening the cover, always hold the handle to prevent the cover from dropping and causing an injury.
- When small size paper is misfed and cannot be removed, detach the LCIT, and then remove the paper.

**3** Close the cover, and then move the cover release lever back to the original position.

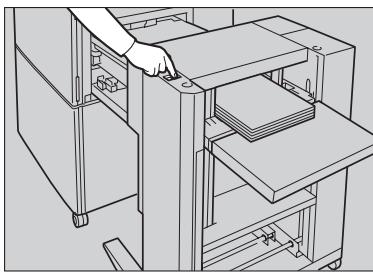
The red indicator goes off.



**Note**

- If a paper misfeed message appears on the machine, remove the paper misfed in the machine also.

**4** Press the up button.



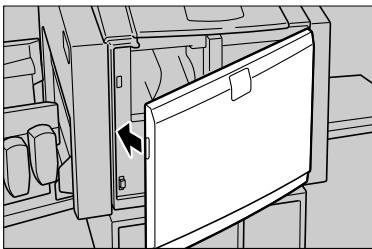
The input tray goes up and a sheet of paper is fed into the intermediate feeding section. The green indicator stops blinking and stays lit.

# When the Open Cover/Unit Indicator Lights

A message is displayed explaining the place where the doors/covers are not properly closed.

## Front door

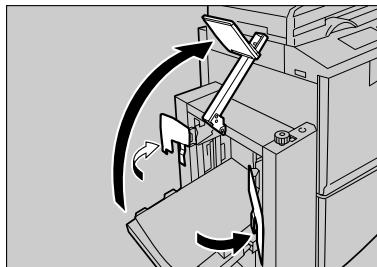
Close the front door completely.



AKT027S

## Optional LCOT Unit

Lower the end plate arm.

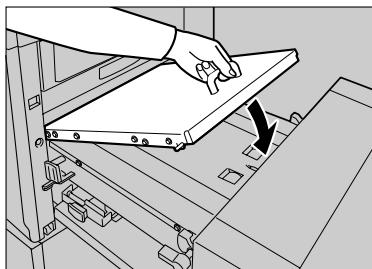


AKT029S

3

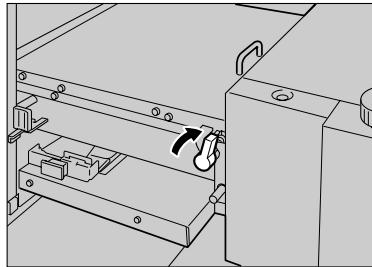
## Optional LCIT Unit

① Close the LCIT Unit cover.



AKT028S

② Move the cover release lever back to the original position.



AKT030S

# Poor Printing

## Dirty Background

If the background of prints is dirty, the drum unit might be dirty.

**⚠ CAUTION:**

- If ink comes into contact with your eyes, rinse immediately in running water. For other symptoms, consult a doctor.

**⚠ CAUTION:**

- Keep the ink or ink container out of reach of children.

**⚠ CAUTION:**

- If ink is ingested, induce vomiting by drinking a strong saline solution. Consult a doctor immediately.

**⚠ CAUTION:**

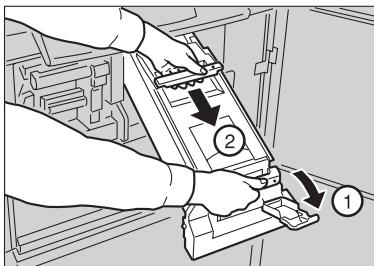
- If your skin comes into contact with ink, wash the affected area thoroughly with soap and water.

**>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, 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 Open the front cover.**

**2 Pull out the drum unit.**

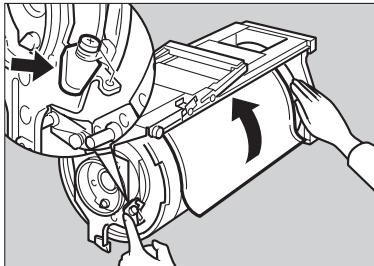


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**Note**

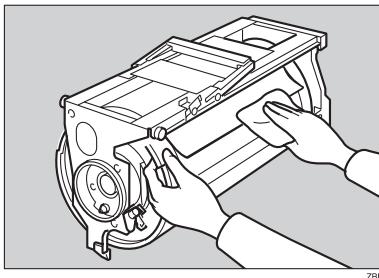
- For how to take out the drum unit, ⇒ p.9 "Changing the Drum Unit".

**3 While pressing the drum lock, turn the drum until you can see the trailing edge of the master.**



ZBHH200E

**4** With a dry soft cloth, remove any ink that has accumulated on the trailing edge of the drum unit.

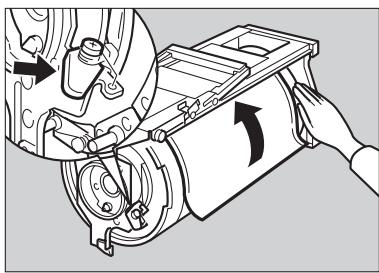


ZBH-

**Important**

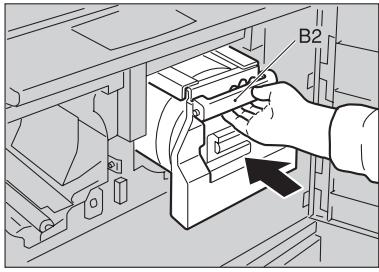
- Do not use benzine, thinner, or other organic liquids—doing so can damage the machine.

**5** Turn the drum unit and lock it until it click after cleaning it.



ZBHH100E

**6** Insert the drum unit until it locks in position, then lower the drum unit lock lever.



ZBRH051E

**7** Close the front door.

## When the Press Roller is Dirty

If the background of prints is dirty, the Press Roller might be dirty.

**1** Make several prints until clear image appears.

**Note**

- If the print is still dirty, contact your service representative.

3

## Faint Prints

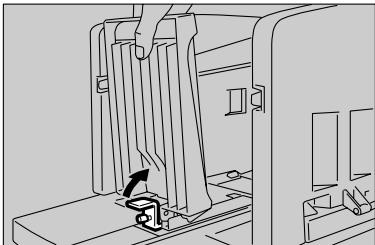
If the machine is not used for a long period of time or you change the colour drum unit, the ink on the drum might dry causing print quality to deteriorate. To solve this problem, set back your drum unit to the Master making unit and use Quality Start Mode. ⇒Refer to the Master Making Unit's Operating Instructions.

If the print density is still too light even when using Quality Start mode, remake the master.

# When Prints Are Not Delivered in a Neat Stack

## When Printing on Small Size Paper

**1** Slightly lower the end plate to raise the screw.



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**2** Adjust the angle of the end plate by turning the screw clockwise or counterclockwise.

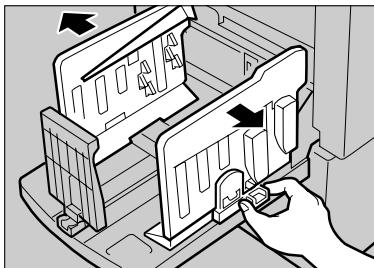


ABL034S



### When paper sides do not stack neatly

Adjust the paper delivery side plates to a size a little larger than the paper size.



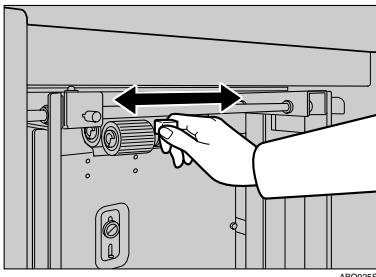
ABL046S



# When Multiple Sheets Are Fed at the Same Time

Follow the procedure below to correct a multiple sheet feed problem of the LCIT.

## 1 Adjust the feeding pressure lever of the LCIT according to the thickness of the paper loaded.



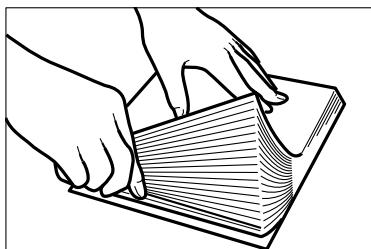
### Note

- The appropriate feeding pressure lever positions according to the weight of the paper are as follows.

	Metric version	Inch version
Thick	127.9–209.3 g/m <sup>2</sup>	34.0–55.6 lb.
Standard	52.3–127.9 g/m <sup>2</sup>	13.9–34.0 lb.
Thin	47.1–52.3 g/m <sup>2</sup>	12.5–13.9 lb.

- If multiple sheets of paper are fed at the same time when the feeding pressure lever is set to Standard, set the feeding pressure lever to Thin.
- If paper is not fed at all when the feeding pressure lever is set to Thin, set the feeding pressure lever to Standard.
- Paper heavier than 127.9–209.3 g/m<sup>2</sup> (34.0–55.6 lb.) is categorized as thick paper. However, for B5 paper heavier than 127.9 g/m<sup>2</sup> (34.0 lb.), set the feeding pressure lever to Standard.

## 2 If the problem still persists, take the paper out and fan it before loading it again.



TPEY080J



## Do's and Don'ts

### **WARNING:**

- **Keep the machine away from flammable liquids, gases, and aerosols. A fire or an electric shock might occur.**

### **CAUTION:**

- **Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.**

### **Important**

- 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 incorrectly detect that paper is wrapped around the drum and stop printing ⇒ Refer to the Master Making Unit's Operating Instructions.
- When you use envelopes 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" × 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.

- 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 colours. In this case, make a new master.
- Large uneven solid image wrinkles the master and you may not print as you want.

# Where to Put Your Machine

## Environment

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

### Optimum environmental conditions

#### **⚠ CAUTION:**

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

4

#### **⚠ CAUTION:**

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

#### **⚠ CAUTION:**

- *After you move the machine, use the caster fixture to fix it in place. Otherwise the machine might move or come down to cause an injury.*

- Temperature: 10 – 30°C, 50 – 86°F
- Humidity: 20 – 90% RH
- A strong and level floor.
- 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 30m<sup>3</sup>/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.

## Power Connection

### ⚠ WARNING:

- **Connect the power cord directly into a wall outlet and never use an extension cord.**
- **Only connect the machine to the power source described in this manual**
- **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.**

4

### ⚠ CAUTION:

- **Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.**

### ⚠ CAUTION:

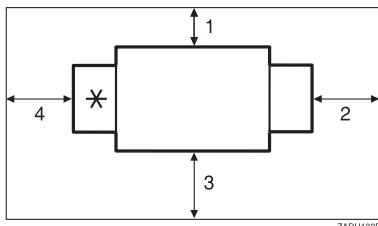
- **When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).**

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"

# 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

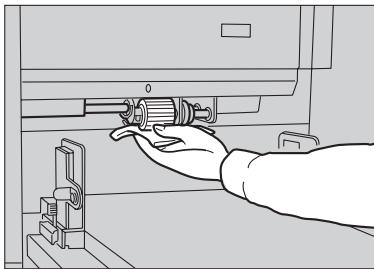
- Do not use chemical cleaner or organic solvent, such as thinner or benzene. If they get into the machine or melt plastic parts, a failure might occur.
- Do not clean parts other than those specified in this manual. Such parts should be cleaned by your service representative.

## Cleaning the Main Frame

### Cleaning the paper feed roller

**1** Wipe off the paper dust on the paper feed roller with a damp cloth, then wipe it with a dry cloth.

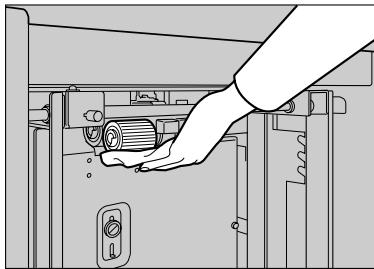
## ❖ Paper Feed Tray



ZBRY130E

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## ❖ LCIT



ABQ032S

## >Note

- If you do not clean the paper feed roller, paper misfeeds tend to occur.

Remarks

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# 5. Specifications

## Main Frame

### ❖ Configuration:

Floor standing (with custom table or cabinet)

### ❖ Printing Process:

Twin colour press roller printing system

### ❖ Original Size & Printing Area:

Refer to the Master Making Unit's Operating Instructions

### ❖ Print Paper Size:

Maximum: 297mm × 432mm, 11.6" × 17.0"

Minimum: 70mm × 250mm, 2.8" × 9.8"

### ❖ Leading Edge Margin:

Refer to the Master Making Unit's Operating Instructions

### ❖ Print Paper Weight:

- 52.3 – 209.3g/m<sup>2</sup>, 13.9 – 55.6 lb

### ❖ Print Speed:

90.105.120cpm (3 steps)

### ❖ colour Printing:

Drum unit replacement system

### ❖ Image Position:

	Up&Down	Right&Left
Overall Image Adjustment	+10mm, 0.4" or -10mm, 0.4"	+15mm, 0.5" or -15mm, 0.5"
Drum2 Image Adjustment	Moving sums of both adjustment functions (Max 10mm, 0.4")	+5mm, 0.2" or -5mm, 0.2"

### ❖ Paper Size and Paper Capacity:

1,000 sheets (80g/m<sup>2</sup>, 20 lb)

### ❖ Paper Delivery Tray Capacity:

1,000 sheets (80g/m<sup>2</sup>, 20 lb)

❖ **Dimensions (W × D × H):**

	Width	Depth	Height
Stored	940 mm, 37.0"	630 mm, 24.8"	590 mm, 23.2"
Set up	1,620mm, 63.8"	630 mm, 24.8"	555 mm, 21.9"

❖ **Weight:**

- Machine:  
Less than 90 kg, 198.4 lb

❖ **Noise Emission \*1:**

Sound Power Level

	Printing Speed	Noise Emission
During printing	90cpm	78dB(A)
	105cpm	80dB(A)
	120cpm	82dB(A)
Stand-by	--	47dB(A)

Sound Pressure Level\*2

	Printing Speed	Noise Emission
During printing	90cpm	65dB(A)
	105cpm	68dB(A)
	120cpm	69dB(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:**

- Printing:  
0.55kW(Max)

# Option

## Large Capacity System

### ❖ Configuration:

Optional large paper capacity system

### ❖ Paper type:

Corresponds to the machine specification

### ❖ Printing paper size:

- LCIT:

Maximum 297 × 432 mm, 11.6" × 17.0" (325 × 447 mm, 12.7" × 17.5" \*1)  
Minimum 128 × 182 mm, 5.1" × 7.1"

- LCOT:

Maximum 297 × 432 mm, 11.6" × 17.0" (325 × 447 mm, 12.7" × 17.5" \*1)  
Minimum 70 × 148 mm, 2.8" × 5.9" (When the LCIT is installed: 128 × 182 mm, 5.1" × 7.1")

\*1 When the image position is set to 0 mm (0").

### ❖ Print paper weight:

47.1 – 209.3 g/m<sup>2</sup>, 12.5 – 55.61 lb.

### ❖ Feed tray capacity:

3000 sheets (80 g/m<sup>2</sup>, 20 lb.)

Paper stack height: Less than 320 mm (12.5")

### ❖ Output tray capacity:

3000 sheets (80 g/m<sup>2</sup>, 20 lb.)

Paper stack height: Less than 345 mm (13.5")

### ❖ Print speed:

Corresponds to the machine specification

### ❖ Power consumption:

Standby	Less than 25 W
Printing	Less than 88 W

### ❖ Dimensions (W×D×H):

- LCIT: 968 × 545 × 778 mm (38.1" × 21.4" × 30.6")
- LCOT: 560 × 512 × 778 mm (22" × 20.1" × 30.6")

### ❖ Weight:

- LCIT: Less than 45 kg, 99 lb.
- LCOT: Less than 30 kg, 66 lb.

---

## Other Option

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Drum unit: Colour Drums

A3, 11" x 17"

 **Note**

Specifications are subject to change without notice.

# Consumables

Name	Size	Remarks
Ink-Black	1,000ml/pack	Environmental conditions: -5 to 40°C 10 – 95% RH
Ink-Red	1,000ml/pack	
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		
Ink-Reflex Blue		

5

 **Note**

Specifications are subject to change without notice.

# INDEX

---

【◀】【▶】【△】【▽】], 5

## A

---

accessing the user tools, 35  
Add Ink Indicator (✉), 49  
adjusting the position of printed images, 30  
Auto Off, 36  
Auto Reset Time, 36

## B

---

buffer fins, 2  
Buzzer Off, 36

## C

---

changing the printing speed, 32  
Chocks, 12  
chocks, 2  
clearing misfeeds, 51  
[Clear Modes/Energy Saver] key, 5  
[Clear/Stop] key, 5  
Clr Resettable Count, 36  
consumables, 73  
Control Panel, 1  
control panel, 5  
Cover, 3  
Cover release lever, 3

## D

---

dirty background, 58  
Down button, 3, 4  
Drm Stp Mode, 37  
Drum unit, 9  
drum unit handle B2, 9  
drum unit lock lever B1, 2

## E

---

End plate, 4  
End plate screw, 4  
environment, 65

## F

---

Feeding pressure lever, 3, 61  
front door, 1

## I

---

Indicators, 3  
ink, 49, 73  
ink holder, 2  
Input tray, 3  
Installing the LCIT, 14  
Intermediate feeding section, 3

## J

---

Jump Table, 37

## K

---

keys, 5

## L

---

Large capacity input tray, 3  
Large capacity output tray, 4  
Large Capacity System, 3, 4  
LCIT, 3  
    *Uninstalling the LCIT*, 19  
LCIT release lever, 3  
LCOT, 4  
    *Preparing the LCOT for Printing*, 17  
LCS, 3  
Loading Paper, 10, 16  
loading paper, 47  
Loading Paper into LCIT, 47  
Loading Paper into the Paper Feed Tray, 47  
Long Sheet Mode, 37

## M

---

machine clearance, 66  
machine exterior, 1  
machine interior, 2  
main switch, 2  
maintaining your machine, 67  
Max Print, 36

## N

---

Number keys, 5

## O

---

Open Cover/Unitindicator, 57  
Options, 3  
Output tray, 4

## P

---

### Paper

- Recommended for the LCIT*, 23
- Recommended for the LCOT*, 23

### Paper alignment wings, 12, 18

### paper alignment wings, 2

### paper delivery end plate, 2

### Paper delivery end plate knob, 2

### Paper delivery side plate knobs, 2

### paper delivery side plates, 2

### paper delivery tray, 2

### paper feed side plates, 1

### Paper feed side plates knob, 1

### Paper feed tray, 1

### Paper feed tray down key, 1

### paper misfeed in the paper exit section, 55

### paper misfeed in the paper feed section, 51, 52

### paper or master wrapped around the drum, 53

### Paper Type, 27

### poor printing, 58

### power connection, 66

### Power switch, 3

### **[Print]** key, 5

### print paper, 21, 27, 47

### **[Proof]** key, 5

## Q

---

### **[#]** key, 5

## R

---

### Remarks, 63

### Resettable Count, 36

## S

---

### Safety Information, i

### service call, 43

### Setting and Changing the Drum Unit, 7

### Setting up the paper delivery tray, 11

### Side guide adjustment knob, 3, 4

### Side guides, 3, 4

### Side guide screw, 3

### **[Skip Feed]** key, 5

### Skip Feed printing, 33

### Skip Number of Time, 37

### Special kinds of Paper, 27

### specifications, 69

### standard paper, 27

### standard printing, 24

### System, 36

## T

---

### thick paper, 27

### Total Counter, 36

### trailing edge guides, 2

### troubleshooting, 43

### Turning On the Power, 15

## U

---

### Up button, 3, 4

### user codes, 39

### user tools, 35, 36

### **[User Tools]** key, 5

### Using the LCIT and LCOT, 14

### Using the Paper Feed Tray and Delivery Tray, 10

## W

---

### what you can do with this machine, v

### When Paper Misfeeds in the LCIT, 56

### when the image density is too light, 59

### where to put your machine, 65

### **[◀][▶]** keys (Speed keys), 5

MEMO



**Declaration of Conformity**

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

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

**| means POWER ON.**

**○ means POWER OFF.**

TC-IIIR Operating Instructions

