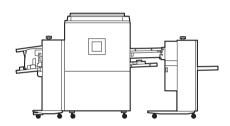
# Large Capacity System LS3000

# **Operating Instructions**



- 1 Before Using the LS3000
- 2 Getting Started
- 3 Troubleshooting
- 4 Remarks
- 5 Specifications

#### Introduction

This manual describes detailed instructions on the operation and notes about the use of the LS3000. To get maximum versatility from the LS3000 all operators are requested to read this manual carefully and follow the instructions. Please keep this manual in a handy place near the LS3000.

#### Notes:

Some illustrations in this manual might be slightly different from the LS3000.

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 LS3000, refer to the metric version.

The supplier shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the supplier with your office products.

#### **Power Source**

220-240V, 50/60Hz, 2A or more

Please be sure to connect the power cord to a power source as above. For details about power source, see P.29 "Power Connection".

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### How to Read This Manual

### **Symbols**

The following set of symbols is used in this manual.

#### **⚠ WARNING:**

This symbol indicates a potentially hazardous situation that might result in death or serious injury when you misuse the LS3000 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 LS3000 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.

### 

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

### Limitation

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

### 

This symbol indicates a reference.

# **Safety Information**

When using the LS3000, the following safety precautions should always be followed.

### **Safety During Operation**

In this manual, the following important symbols are used:

### **↑** WARNING:

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

### **↑** CAUTION:

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

#### **⚠ WARNING:**

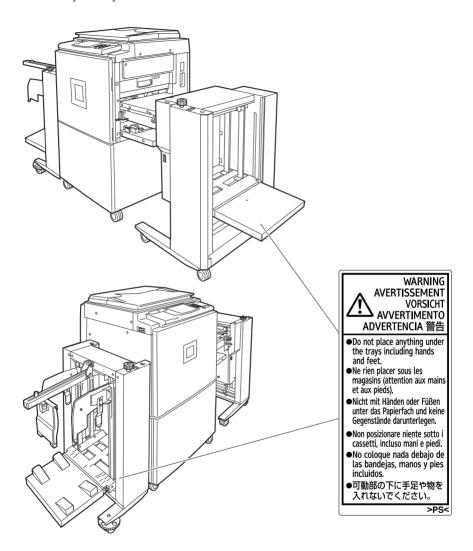
- Connect the power cord directly into a wall outlet and never use an extension cord.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- To avoid hazardous electric shock, do not remove any covers or screws other than those 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 LS3000.
  - You suspect that the LS3000 needs service or repair.
  - The external housing of the LS3000 has been damaged.

#### **CAUTION:**

- Protect the LS3000 from dampness or wet weather, such as rain and snow.
- Unplug the power cord from the wall outlet before you move the LS3000.
   While moving the LS3000, you should take care that the power cord will not be damaged under the LS3000.
- 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 LS3000.
- For environmental reasons, do not dispose of the LS3000 or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer.
- Be careful not to cut yourself on any sharp edges when you reach inside the LS3000 to remove misfed sheets of paper or masters.
- Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.

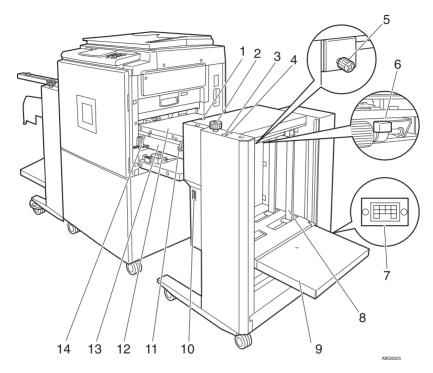
# Position of Label for AWARNING

The LS3000 has a <u>MWARNING</u> label at the position indicated below. For your own safety, always adhere to the instructions on the label.



# **Guide to Components**

## **LCIT (Large Capacity Input Tray)**



#### 1. Indicators

Indicates the LCIT status.

### 2. Side guide adjustment knob

Adjust the side guides according to the paper size.

#### 3. Down button

Move the input tray down.

### 4. Up button

Move the input tray up and feed a sheet of paper into the intermediate feeding section.

### 5. Side guide screw

Lock or unlock the side guides.

### 6. Feeding pressure lever

Adjust the contact pressure of the paper feed roller according to paper thickness.

### 7. Connection socket

Plug in the LCOT connection cord.

### 8. Side guides

Align paper to prevent paper skew.

### 9. Input tray

Load paper onto this tray.

#### 10. Power switch

Turn the power on or off.

### 11. Cover release lever

Turn to unlock the cover

### 12. Cover

Open to remove misfed paper.

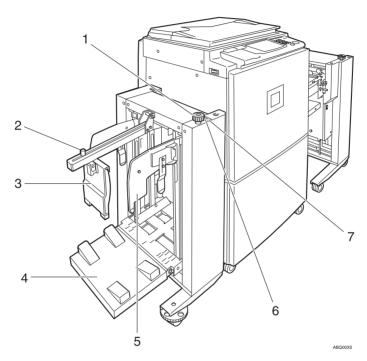
### 13. Intermediate feeding section

Feeds paper from the input tray to the machine.

#### 14. LCIT release lever

Pull back to unlock the LCIT to detach it.

## **LCOT (Large Capacity Output Tray)**



### 1. Side guide adjustment knob

Adjust the side guides according to the paper size.

### 2. End plate screw

Use to lock or unlock the end plate.

### 3. End plate

Align the leading edge of prints.

### 4. Output tray

Prints are delivered here.

### 5. Side gudes

Align prints delivered on the output tray.

### 6. Up button

Move the output tray up.

#### 7. Down button

Move the output tray down.

# 1. Before Using the LS3000

# **Paper**

### **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 *1)	Maximum: 11.6" × 17.0" (12.7" × 17.5" *1)	47.1 – 209.3 g/m <sup>2</sup> (12.5 – 55.61 lb.)	3000 sheets (80 g/m², 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

- $\square$  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**

Pape	r size	Paper weight	Tray capacity
Metric version	Inch version		
Maximum: 297 × 432 mm (325 × 447 mm *1)	Maximum: 11.6" × 17.0" (12.7" × 17.5" *1)	47.1 – 209.3 g/m <sup>2</sup> (12.5 – 55.61 lb.)	3000 sheets (80 g/m², 20 lb.)
Minimum: 70 × 148 mm (When the LCIT is installed: 128 × 182 mm)	Minimum: $2.8" \times 5.9"$ (When the LCIT is installed: $5.1" \times 7.1"$ )		Paper stack height: Less than 345mm (13.5")

 $<sup>^{*1}</sup>$  When the image position is set to 0 mm (0")

### Note

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

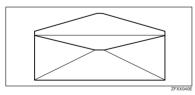
## **Non-recommended Paper**

#### A CAUTION:

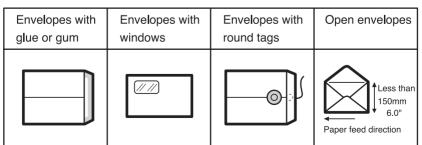
 Do not use aluminum foil, carbon paper, or similar conductive paper to avoid a fire or LS3000 failure.

The following types of paper are not recommended for the LS3000:

- · Roughly-cut paper
- · Paper of different thickness in the same stack
- Envelopes heavier than 85 g/m<sup>2</sup> (22 lb.)
- · Folded, curled, creased, or damaged paper
- Damp paper
- Torn paper
- Slippery paper
- · Rough paper
- Paper with any kind of coating (such as carbon)
- Short grain paper
- Thin and flimsy paper
- Paper that generates 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 (for example, international mail envelopes)



• The following types of envelopes



### Note

- ☐ If you print on rough grained paper, the print image may be blurred.
- $\square$  You can use A3 (297 × 420 mm) or 11" × 17" paper. However, use the Reduce function to ensure that the entire image is printed. This is because the maximum print areas are as follows:
  - Metric version: 290 × 410 mm (11.4" × 16.1")
  - Inch version:  $11.4" \times 16.5" (290 \times 420 \text{ mm})$
- $\square$  When you use A3, 11" × 17", or 209.3 g/m<sup>2</sup> (55.6 lb.) paper, set the printing speed to 1, 2, or 3 at the machine.

### **#Important**

☐ Flatten the paper curl before placing the paper onto the LCIT. When you cannot flatten the paper curl, load the paper with the curl either face up or face down as shown below. If paper is curled, it may stick to the drum resulting in dirty prints.

	Right	Wrong
Thin Paper		
Thick Paper		

### **Paper Storage**

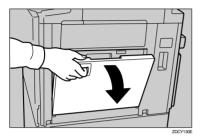
### Note

- ☐ When storing paper, the following precautions should always be taken:
  - Do not store paper where it will be exposed to direct sunlight.
  - Avoid storing paper in humid (greater than 70%) areas.
  - Store on a flat surface.
- ☐ Keep open reams of paper in the package and store as you would unopened paper.

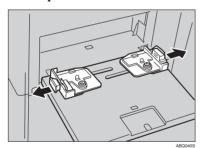
# 2. Getting Started

# Installing the LCIT

1 Open the paper feed tray of the machine.



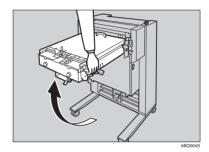
2 Move the side guides of the paper feed tray of the machine to the widest position.



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.

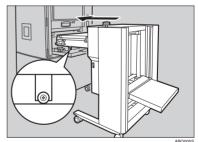
Hold the handle and unfold the intermediate feeding section of the LCIT.



Note

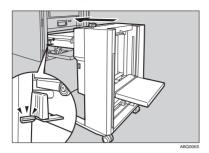
☐ Do not release the handle.

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



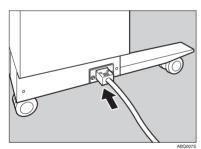
11

# Push the LCIT into the machine until it clicks.



### Note

- ☐ Make sure that the metal projections on both sides touch the machine. If there is a gap, push until the gap disappears.
- 6 Plug the LCOT connection cord into the socket located at the bottom of the back of the LCIT.

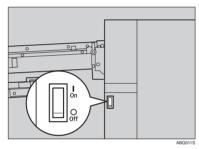


# **Turning On the Power**

# **Turning On the Power**

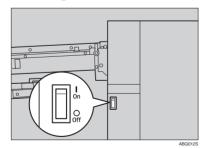
- 1 Check that the LCOT connection cord is connected to the LCIT.
- 2 Make sure that the power cord is firmly plugged into the wall outlet.
- **3** Turn the power switch on.

The green indicator blinks.



## **Turning Off the Power**

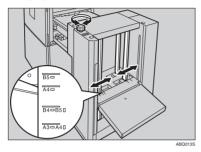
1 Turn the power switch off.



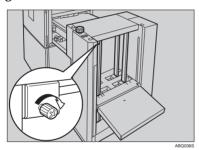
13

# **Loading Paper**

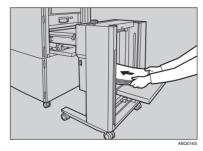
1 Turn the side guide adjustment knob to adjust the side guides to the paper size.



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



3 Load paper.

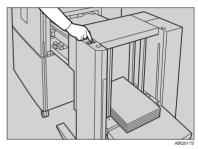


### Note

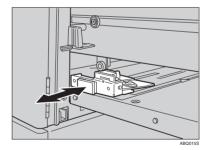
☐ The leading edge of the paper must touch the inside of the LCIT.

## 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.



⊖Ready for	r Master	Making/ Pri	nting
		⊫A4□	0.0mm
Letter	100%	Std.	0.0mm
Original	Ratio	Ppr.Type	Image %

### **𝒯** 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)(128×182mm, 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.

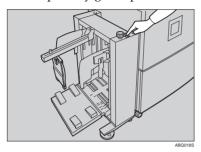
### 

For details, see the operating instructions for the machine.

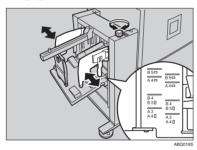
# **Preparing the LCOT for Printing**

## 1 Press the up button.

The output tray goes up.



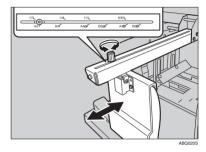
2 Turn the side guide adjustment knob to adjust the side guides to the paper size.



### Note

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

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

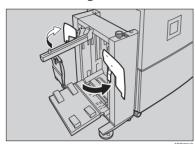


### 

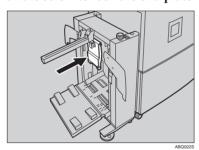
☐ Align the screw with the appropriate paper size mark.

# Printing on Paper Smaller than B6 JIS

**1** Move the side guides outward.

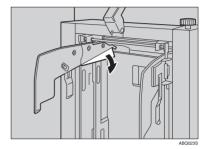


2 Loosen the screw for the end plate, move it as close to the machine as possible, and then tighten the screw to lock the end plate.



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

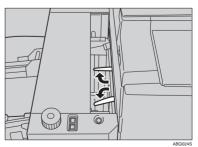
Lower the paper alignment wings.



- ☐ 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 ☐ ☐ or A4 ☐ prints are delivered curled up.

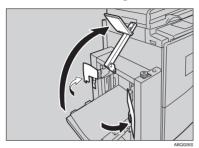
# Printing on Sizes Smaller than A4 or $8^{1}/_{2}$ " × 11" $\square$ Paper

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



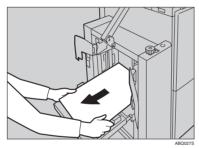
# **Removing Prints**

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.



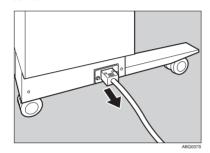
Move the side guides and end plate arm back to their original positions.

### Note

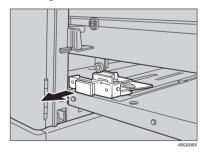
☐ Lower the end plate arm completely before releasing it.

# **Uninstalling the LCIT**

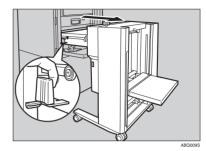
- 1 Turn the power switch off, and then unplug the power cord from the wall outlet.
- 2 Unplug the LCOT connection cord.



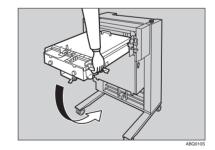
Move the side guides of the paper feed tray of the machine to the widest position.



While pulling the LCIT release lever, detach the LCIT.



- ☐ Be sure to hold the handle of the intermediate feeding section when you detach the LCIT.
- Do not move the LCIT further than the LCOT connection cord can reach.
- Fold the intermediate feeding section.



# 3. Troubleshooting

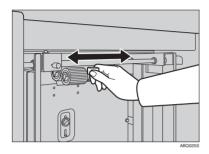
# If the LS3000 Does Not Operate as You Want

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	There is no paper loaded in the input tray.	Load paper.	
pressed.	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.	

### When Multiple Sheets Are Fed at the Same Time

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

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

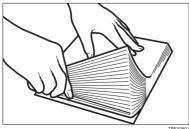


### Note

☐ 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.

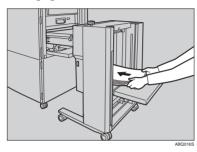
- ☐ If multiple sheets of paper are fed at the same time when the feeding pressure lever is set to Standard, set the feeding pressure lever to Thin.
- ☐ If paper is not fed at all when the feeding pressure lever is set to Thin, set the feeding pressure lever to Standard.
- $\square$  Paper heavier than 127.9 209.3 g/m² (34.0 55.6 lb.) is categorized as thick paper. However, for B5 JIS paper heavier than 127.9 g/m² (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.



# **Replenishing Paper**

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.

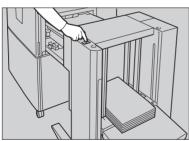


### Note

☐ 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.

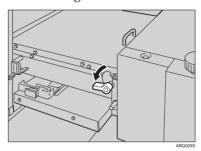


# **Clearing Misfeeds**

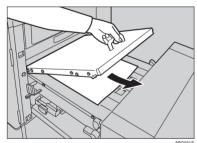
When paper misfeeds occur, the red indicator blinks. Follow the procedure below to remove the misfed paper.

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

The red and green indicators blink.



2 Open the cover, and then remove the paper.

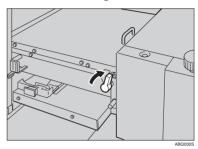


### Note

- ☐ 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.

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

The red indicator goes off.



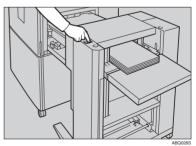
Note

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

### 

For more information about clearing misfeeds in the machine, see the operating instructions for the machine.

4 Press the up button.

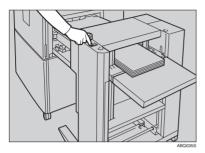


The input tray goes up and a sheet of paper is fed into the intermediate feeding section. The green indicator stops blinking and stays lit.

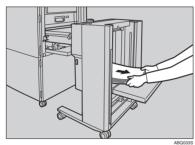
3

# **Changing the Paper Size**

1 Press the down button.



2 Take the paper stack out of the input tray.

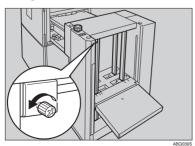


Remove the paper remaining in the intermediate feeding section.

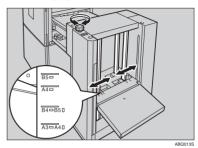
### 

p.24 "Clearing Misfeeds"

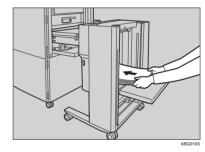
4 Loosen the screw to unlock the side guides.



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



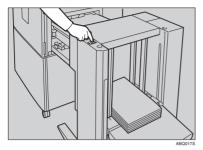
- Tighten the screw to lock the side guides.
- **1** Load paper.



Note

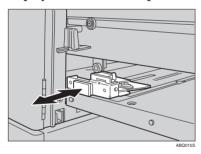
☐ The leading edge of the paper must touch the inside of the LCIT.

# 8 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.

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 paper size loaded on the LCIT. Otherwise, the inside of the machine will get dirty.

Adjust the side guides of the LCOT to the paper size.

### **₽** Reference

p.16 "Preparing the LCOT for Printing"

# 4. Remarks

## Do's and Don'ts

#### **A CAUTION:**

- Unplug the power cord from the wall outlet before you move the LS3000. While moving the LS3000, you should take care that the power cord will not be damaged under the LS3000.
- While printing, do not turn off the power switch.
- While printing, do not open the cover.
- While printing, do not unplug the power cord.
- While printing, do not move the LS3000.
- Open and close the cover gently.
- Do not place paper or anything else on top of the intermediate feeding section or the LCIT.
- Do not place anything under the input tray or output tray.

# Where to Put Your LS3000

### LS3000 Environment

Choose the location of the LS3000 carefully. Environmental conditions greatly affect its performance.

#### Optimum environmental conditions

#### **A CAUTION:**

- Keep the LS3000 away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Do not place the LS3000 on an unstable or tilted surface. If it topples over, an injury might occur.
- Temperature: 10-30°C (50-86°F)
- Humidity: 20-90% RH
- · A strong and level base
- The LS3000 must be level within 5 mm (0.2") both front to rear and left to right.

#### **Environments to avoid**

- Locations exposed to direct sunlight or other sources of 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 can cause condensation to form inside the LS3000.)
- Locations close to machines generating ammonia, such as a diazo copy machine
- Places where the LS3000 will be subject to frequent strong vibration
- Dusty areas
- Areas with corrosive gases

## Moving

#### **↑** CAUTION:

• Unplug the power cord from the wall outlet before you move the LS3000. While moving the LS3000, you should take care that the power cord will not be damaged under the LS3000.

### **∰**Important

- ☐ When moving the LS3000, the following precautions should always be taken:
  - Turn off the power. See p.13 "Turning Off the Power".
  - Unplug the power cord from the wall outlet. When you pull out the plug from the outlet, grip the plug to avoid damaging the cord. A damaged cord can cause a fire or electric shock.
- ☐ When moving the LCIT, leave the bottom of the input tray unfolded.

### **Power Connection**

#### **↑** WARNING:

- Connect the LS3000 only to the power source described on the inside front cover of this manual. Connect the power cord directly into a wall outlet and do not use an extension cord.
- Do not damage, break or make any modifications to the power cord.
   Do not place heavy objects on it. Do not pull it hard nor bend it more than necessary. These actions could cause an electric shock or fire.

#### **↑** CAUTION:

Unplug the power cord from the wall outlet before you move the LS3000.
 While moving the LS3000, you should take care that the power cord will not be damaged under the LS3000.

#### **⚠** CAUTION:

- When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).
- Make sure that the plug is inserted firmly in the wall outlet.
- Voltage must not fluctuate by more than 10%.
- The wall outlet should be installed near the machine and should be easily accessible.

# **Maintaining Your LS3000**

### Cleaning the LS3000

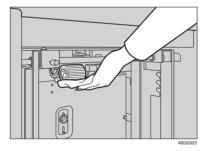
Wipe the LS3000 with a soft, damp cloth, and then wipe it with a dry cloth to remove any moisture.

### **∰**Important

- ☐ Do not use chemical cleaners or organic solvents such as thinner or benzene. If such substances get inside the LS3000 or deform plastic parts, a failure may occur.
- Do not clean parts other than those explicitly specified in this manual.
   Other parts should only be cleaned by your service representative.

# Cleaning the Paper Feed Roller (Input Tray)

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



### Note

☐ Keep the paper feed roller clean to avoid paper misfeeds.

# 5. Specifications

## LS3000

#### Configuration:

Optional large paper capacity system

### Paper type:

Corresponds to the machine specification

### Printing paper size:

• LCIT:

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

• LCOT:

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

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

### Print paper weight:

 $47.1 - 209.3 \text{ g/m}^2$ , 12.5 - 55.61 lb.

### ❖ Feed tray capacity:

3000 sheets (80 g/m<sup>2</sup>, 20 lb.) Paper stack height: Less than 320mm (12.5")

### **♦** Output tray capacity:

3000 sheets ( $80 \text{ g/m}^2$ , 20 lb.) Paper stack height: Less than 345 mm (13.5")

### Print speed:

Corresponds to the machine specification 60 – 120 ppm (5 speeds)

### ❖ Power consumption:

Standby	Less than 25 W
Printing	Less than 88 W

### ♦ Dimensions (W×D×H):

• LCIT:  $968 \times 545 \times 778 \text{ mm} (38.1" \times 21.4" \times 30.6")$ 

• 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.

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#### **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, the LS3000 uses the following symbols for the power switch:

means POWER ON.

O means POWER OFF.