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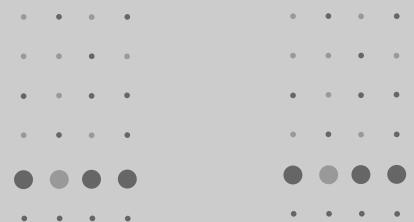
SUPPLIES MODEL NAME

The correct model name of supplies for your Bizworks is: RICOH TONER CASSETTE TYPE 1120D BLACK

RICOH CO., LTD. 15-5, 1 chome, Minami-Aoyama, Minato-ku, Tokyo Phone: Tokyo 3479-3111

Printed in The Netherlands

EE G026-8500

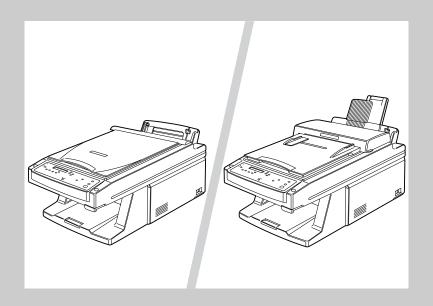




Operation Manual

RIGOH

Read this manual carefully before you use this product and keep it handy for future reference. For safety, please follow the instructions in this manual.



Introduction

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

Please read the safety information on pages i - iii of this manual. It contains Important Information related to user safety and preventing equipment problems.

Operator Safety:

This machine is considered a class 1 laser device, safe for office/ EDP use. The machine contains a 5milliwat, 765 - 805 nanometer wavelength, GaAIAs laser diodes. Direct (or indirect reflected) eye contact with the laser beam might cause serious eye damage. Safety precautions and interlock mechanisms have been designed to prevent any possible laser beam exposure to the operator.

> The following label is attached on the machine. This label can be found when opening the bypass tray.



Laser Safety:

The optical housing unit can only be repaired in a factory or at a location with the requisite equipment. The laser subsystem is replaceable in the field by a qualified Customer Engineer. The laser chassis is not repairable in the field. Customer engineers are therefore directed to return all chassis and laser subsystems to the factory or service depot when replacement of the optical subsystem is required.

Notes:

- Model names for the machines do not appear in the following pages. Check the type of your machine before reading this manual.
 - Type 1 Bizworks 406e
 - Type 2 Bizworks 406eDF
- Some illustrations may be slightly different from your machine.
- Certain types may not be available in some countries. For details, contact your local dealer.

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

For good print quality, Ricoh recommends that you use genuine Ricoh toner.

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

Power Source: <u>220 ~ 240 V, 50/60 Hz, 2.2 A</u>

Please make sure to connect the power cord to a power source as above. For details about power connection, refer to page 8.

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Declaration of Conformity

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

In accordance IEC 60417 this machine uses the following symbols for the main switch: means POWER ON. O means POWER OFF.

Safety Information

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

Types of warnings used in this manual



Ignoring this warning could cause serious injury or even death.

Ignoring this caution could cause injury or damage to property.

Symbol examples

 \triangle The \triangle symbol means a situation that requires you take care.

 $^{(h)}$ The \odot symbol means you MUST NOT carry out this operation. This example means "Do not take apart."

The • symbol means you MUST perform this operation. This example means "You must remove the wall plug."

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Other product names used here in are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

A WARNING:

\triangle	• Use of controls or adjustment or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.
\bigcirc	 Only connect the machine to the power source described on the inside of the front cover. Avoid multi-wiring. Do not damage, break or make any modifications to the power cord. Do not place heavy objects on it, pull it hard or bend it more than necessary. These actions could cause an electric shock or fire. Do not plug or unplug the power cord with your hands wet. Otherwise, an electric shock might occur.
0	 Make sure the wall outlet is near the machine and freely accessible so that in event of an emergency it can be unplugged easily.
	 Do not remove any covers or screws other than those specified in this manual. Some parts of the machine are at a high voltage and could give you an electric shock. Also, reflected eye contact with the leser beam may cause serious eye damage. When the machine needs to be checked, adjusted, or repaired, contact your service representative. Do not take apart or attempt any modifications to this machine. There is a risk of fire, electric shock, explosion or loss of sight.
	 If the machine looks damaged or breaks down, smoke is coming out, there is a strange smell or anything looks unusual, immediately turn off the power switch then unplug the power cord from the wall. Do not continue using the machine in this condition. Contact your service representative. If metal, liquid or foreign matter falls into the machine, turn off the power switch, and unplug the power cord. Contact your service representative. Do not keep using the machine with a fault or defect.
\bigcirc	 Do not put any metal objects or containers holding water (e.g. vases, flower- pots, glasses) on the machine. If the contents fall inside the machine, a fire or electric shock could occur.
	• Do not incinerate used toner or toner cassettes. Toner dust might ignite when exposed to an open flame. Dispose of the used toner cassettes according to local regulations for plastics.

A CAUTION:

\bigcirc	 Keep the machine away from humidity and dust. A fire or an electric shock might occur. Do not place the machine on an unstable or tilted surface. If it topples over, it could cause injury.
	When you move the machine, unplug the power cord from the wall outlet to avoid fire or electric shock.When the machine is not be used for a long time, unplug the power cord.
	• When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing fire or electric shock.
0	• If you use the machine in a confined space, make sure there is a continuous air turnover.
\bigcirc	• Do not reuse stapled paper. Do not use aluminium foil, paper containing carbon or any other conductive paper. Otherwise, a fire might occur.
	• When removing misfed paper, or replacing the toner cassette and the clean- ing pad, do not touch the fusing section because it could be very hot.
	• This machine has been tested for safety using this supplier's parts and consumables. We recommend you only use these specified supplies.

Energy Star program



As an Energy Star partner, we have determined that this machine model meets the Energy Star Guidelines for energy efficiency.

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

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

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

Low Power Mode

This machine automatically lowers its power consumption 15 minutes after the last printing job has been completed. To exit Low Power mode, press any key on the operation panel.

The machine returns to the ready condition in about 22 seconds. To change the low Power delay, see page 60.

Specification

	Туре 1, 2	
	Power consumption	15 W
Low Power Mode (Economy Mode)	Default delay	15 min.
(Recovery time	22 sec.

Recycled paper

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

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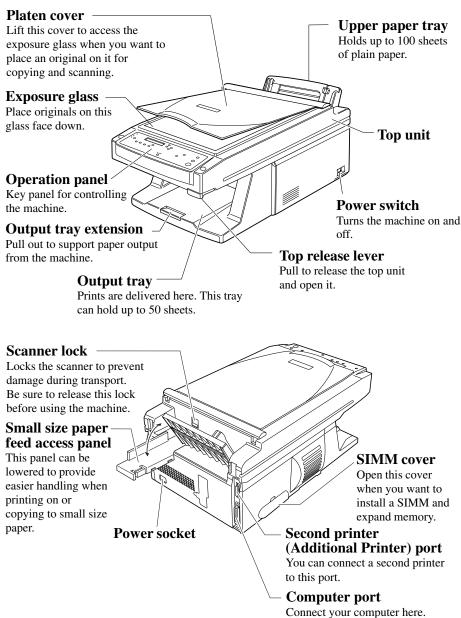
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Part Names

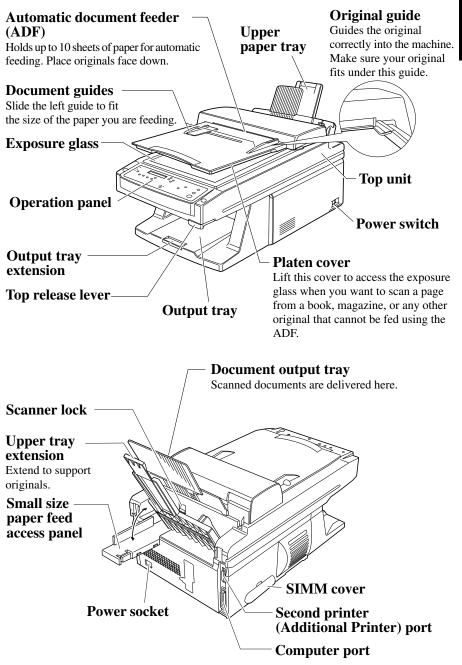
Type 1

The following describes the Type 1 machine. This information also applies to the Type 2 machine, except where specifically noted in the next page.



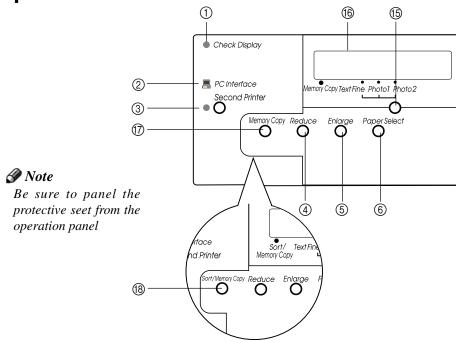
Type 2

The following describes the Type 2 machine.



GENERA

Operation Panel



(1) Check Display

This indicator lights up to alert you to read the message on the display.

② PC Interface

This indicator lights while the machine is receiving data from a connected computer.

③ Second Printer

Pressing this key switches between printing on the machine (Second Printer indicator off) and printing on a second printer connected to the machine (Second Printer indicator on).

④ Reduce

Press this key to reduce an image during copying. Available reduction ratios are: 50%, 71%, 82%, 87% and 93%.

(5) Enlarge

Press this key to enlarge an image during copying. Available enlargement ratios are: 115%, 122%, 141% and 200%.

(6) Paper Select

Press this key to specify the paper size. When the paper feed unit (option) is installed, press this key to switch between paper sources.

7 Density key

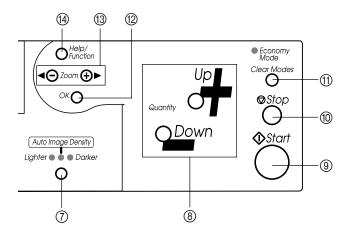
Press this key to select the image density settings: Darker, Auto, Lighter.

(8) Quantity keys

Press these keys to specify the number of copies or to change numeric values on the display.

) Start

Press this key to start an operation.



1 Stop

Press this key to interrupt the current ongoing procedure and return to the stand by state. This key operates as a kind of escape key. Holding down this key for 3 seconds resets the printer mode.

1) Economy Mode/ Clear Modes key

Pressing this key cancels the ongoing operation and clears the settings of the current mode to their initial defaults.

Holding down this key for about one second switches the Economy Mode on and off.

Refer to "Economy Mode" on page 60.

12 OK

Press this key to execute an operation that is prompted by a message on the display.

13 Zoom

In copy mode, press these keys to fine-tune the preset reduction and enlargement ratios. Also use to select function settings and navigate the function menus.

(4) Help/Function

Press this key and then input a function number to perform various settings and help list printing functions.

15 Copy Mode key

Press this key to specify the Copy Mode. A pointer $(\mathbf{\nabla})$ appears on the display to indicate the current Text Fine/Photo1/Photo2 setting.

16 Display

Displays messages and prompts during operation.

⑦ Memory Copy (Type 1 only)

Press this key to select Memory Copy. (Your original will be scanned only once when making multiple copies.)

(B) Sort/Memory Copy (Type 2 only)

Press this key to turn Sorting and Memory Copy on and off. Sorting is activated when the pointer is visible on the display above Sort/ Memory Copy. This page is intentionally blank

1. SETTING UP

Package Contents

Make sure that all of the items shown in the Package Contents sheet that comes with the machine are included.

⚠	WARNING				
0	Make sure the wall outlet is near the machine and freely accessible so that in event of an emergency it can be unplugged easily.				
\otimes	Do not put any metal objects or containers holding water (e.g. vases, flowerpots, glasses) on the machine. If the contents fall inside the machine, a fire or electric shock could occur.				
⚠					
	Keep the machine away from humidity and dust. A fire or an electric shock might occur.				
	Do not place the machine on an unstable or tilted surface. If it topples over, it could cause injury.				
0	If you use the machine in a confined space, make sure there is a continuous air turnover.				

Location

Environment

	Acceptable	Recommended	
Temperature	10 to 35°C (50 to 95°F)	15 to 25°C (59 to 77°F)	
Humidity	15 to 80%	30 to 70%	

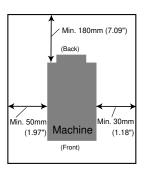
• The machine must be level within 3mm (0.11") both front to rear and left to right.

Locations to Avoid

- Avoid exposed to direct sunlight or strong light (more than 2,000 lux.).
- Avoid directly exposed to cool air from air conditioner's or heated air from heater's. Sudden temperature changes can cause condensation to form inside the machine.
- Avoid where the machine mi, ght be subjected to frequent strong vibration.
- Places higher than 2,500m (8,221ft.) above sea level.

Machine Clearance

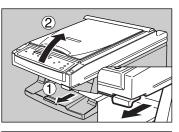
Place the machine near the wall outlet, providing minimum clearance as shown.



Installing the Starter Toner Cassette



Pull the top release lever (1) and open the top unit (2).



Handle



Hold the starter toner cassette by its handle, and remove it from its vinyl bag.

Keep all plastic bags out of the reach of children.

‡ Important!

Be sure to hold the starter toner cassette by its handle.

🔗 Note

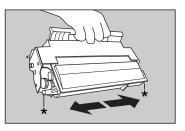
Keep the vinyl bag for later repackaging when necessary.

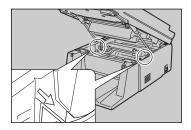
3 Holding the starter toner cassette by its handle, gently shake it side to side 5 or 6 times to evenly distribute the toner inside.

i Important!

Be sure to hold the starter toner cassette by its handle.

4 Look inside the machine and note the locations of the arrows that indicate the toner cassette guides on either side.



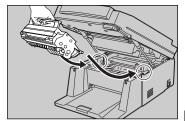


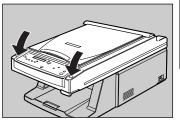
5 Make sure the plastic pins (marked with "* " in the illustration next to step 3) on either side of the starter toner cassette slide along the guides inside the machine.

🟈 Note

Be sure to hold the starter toner cassette by its handle.

6 To close the top unit, press down firmly but gently on both sides of it until the top unit closes and clicks securely into place.





🔗 Note

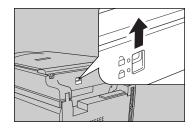
Background gray cast is sometimes evident just after installing a new toner cassette.

Unlocking the Scanner Lock

i Important

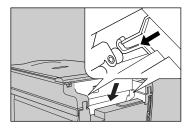
Be sure to unlock the scanner lock before using the machine. The machine will not operate correctly if the scanner lock is not unlocked.

Unlock the scanner lock which is located at the back of the machine.



Installing the Upper Paper Tray

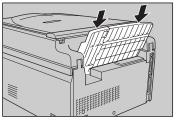
1 Look at the rear of the machine and note the locations of the slots for insertion of the upper paper tray on both sides.



2 To install the upper paper tray, press down on both sides of the tray, making sure that it is inserted as far as it will go.



Paper will not be fed correctly into the machine if the upper paper tray is not inserted all the way in.



Other Settings for Type 2

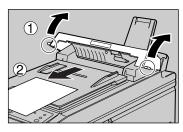
To remove the protective sheet

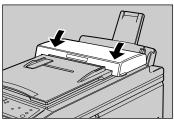


2

Open the ADF cover (1) and then remove the protective sheet (2).

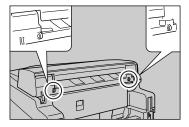
Close the ADF cover and make sure it locks securely into place.



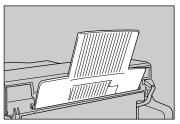


To install the document output tray

1 Look at the rear of the machine to confirm where the document output tray should fit.



2 Insert the pin at one side of the tray by gently bending the document tray until it fits in the insert hole.



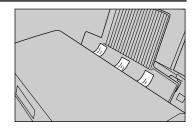
SETTING UP



Make sure the small pieces of plastic film curl upwards as shown.

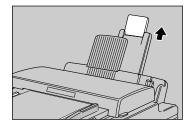
Important!

The original will not be delivered properly, if the films are not set as shown.



To pull out the output tray extension

To pull out the output tray extension as shown.



Connecting to a computer

Important!

Make sure that the power of both the machine and your computer is turned off before making the connection.

1

2

printer port.

Plug one end of the your parallel cable into the lower port on the side of the machine, and secure it in place as shown in the illustration.

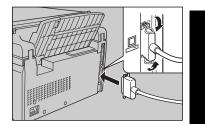


• The machine must be connected to a computer for printing.

• Use the cable that comes with the machine to connect to your computer.

Connect the other end of the parallel

cable to your computer's parallel



7

 \bigcirc

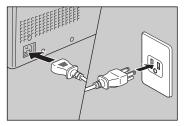
Turning On the Machine

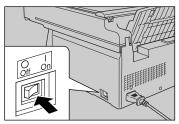
- Only connect the machine to the power source described on the inside of the front cover.
- Avoid multi-wiring.
- Do not damage, break or make any modifications to the power cable. Do not place heavy objects on it, pull it hard or bend it more than necessary. These actions could cause an electric shock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

ﷺ Important!

When you turn on the machine for the first time after the installation, make sure that no paper is loaded beforehand.

Attach the power cable to the machine and plug the other end into a outlet.





2

Turn on the machine.

2. GETTING ACQUAINTED

🏨 Important!

The default display language is English. For how to chage to your preferred language, see page 57.

Paper and Other Media

The machine supports printing on the following types of paper/media from the upper paper tray.

Refer to the following pages for details.

	Paper/Media type (Paper size)	Display	Page	
Plain paper	A4 (210mm × 297mm)	A4	p.10	
	A5 (148mm × 210mm)	A5	p.10	
	F4 (8 ¹ /4" × 13")	8 ¹ / ₄ × 13	p.10	
	Letter (81/2" × 11")	Letter ($8^{1/2} \times 11$)	p.10	
	Legal (81/2" × 14")	Legal (81/2 × 14)	p.10	
Envelopes	C5 Envelope (162mm \times 229mm)	C5 Env	p.12, 14	
	C6 Envelope (114mm × 162mm)	C6 Env	p.12, 14	
	DL Envelope (110mm \times 162mm)	DL Env	p.12, 14	
Transparencies				
Label paper				

🔗 Note

Do not attempt to use the following types of paper: wrinkled or creased paper, curled or rolled paper, paper containing carbon, carbon-backed paper, coated paper, onion skin or other very thin paper.



Do not reuse stapled paper. Do not use aluminium foil, paper containing carbon or other conductive paper. Otherwise, a fire might occur.

Loading Paper

After you have set up the machine you nee to load paper then specify the paper size using the procedure below.

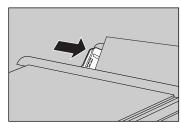
ﷺ Important!

When loading paper into the upper paper tray, do not load more than 100 sheets of plain paper (80 g/ m^2 or 20 lb). Overloading the upper paper tray can cause misfeeds.

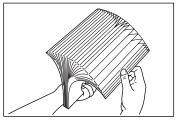
To load plain paper into the upper paper tray

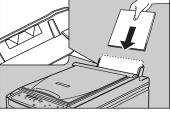
- Fan the stack of paper to make sure that all pages are free and are not sticking together. The upper paper tray holds up to 100 sheets of plain paper (80 g/m² or 20 lb).
- Straighten up all four sides of the stack, 2 by tapping them on a desk or table top.

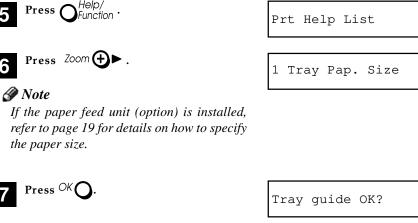
- Set paper into the upper paper tray. Make sure that the top of the stack is not higher than the limit mark on the tray guide.
- Squeeze the tray guide and slide it against the edge of the stack.











А

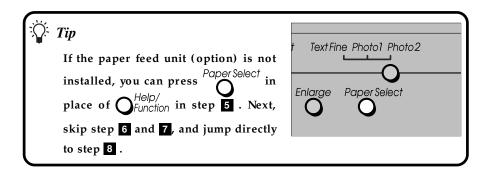
- After pressing OK , press Zoom + or < Zoom until the desired size appears.
- When the correct paper size is on the 9 display, press OK . If the paper feed unit (option) (page 17) is installed, you can also select its paper size at this time.

ray	guide	OK?	ο _K	
.4 ?			►	
Registered				

Note Note

6

Do not carry out any operations while "Registered" appears on the display.



11

To load small size paper

🔗 Note

We recommend that you always feed small size paper vertically, with one of its shorter edges feeding into the machine.

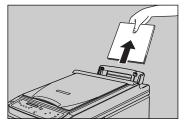


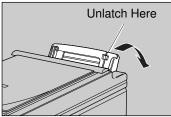
Remove all paper before loading small size paper in the upper paper tray.

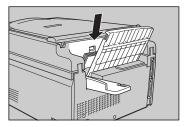
2 Open the small panel on the back of the machine by unlatching it as shown in the illustration. Opening the small panel makes it easy to handle small size paper.

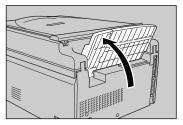
> Set paper into the upper paper tray. Make sure that the top of the stack is not higher than the limit mark on the

> After setting the paper into the tray, raise the small panel until it snaps securely





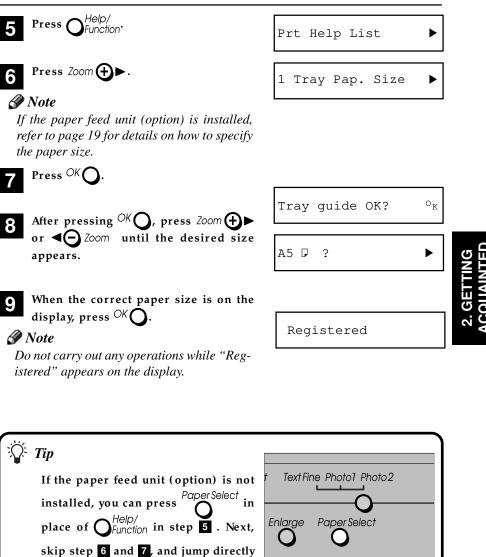




tray guide.

into place.

GETTING ACQUAINTED



🔗 Note

to step 8.

• Be sure to specify the paper size before printing on A4 or Letter paper again.

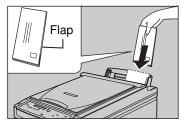
Loading Other Media

Use the following procedures to load envelopes, transparencies, and label paper.

To load envelopes

Load up to 5 envelopes at a time, using the same procedure for loading small size paper on page 12.

• Insert envelopes print side up with the stamp position as shown.



• Envelope flaps should be securely folded down, so the envelope is "closed". This is especially important when printing on envelopes with adhesive on the flaps, because heat generated during the printing process can cause the adhesive to melt and get on rollers.

🟈 Note

Refer to the paper select operation on page 13.

To load transparencies

Load only one transparency at a time, using the plain paper loading procedure on page 10 for large transparencies, and the small paper loading procedure on page 12 for small transparencies.

🔗 Note

Refer to the paper select operation on page 11 for large transparencies or page 13 for small ones.

To load label paper

Load only 10 sheets of label paper at a time, using the plain paper loading procedure on page 10.

🟈 Note

Refer to the paper select operation on page 11.

Connecting a Second Printer (Additional Printer)

The machine features a port that you can use to connect your current printer as a second printer (additional printer). Once you do, you have a selection of this machine or the second printer at the touch of Second Printer key.

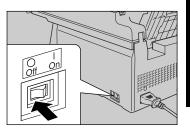
🔗 Note

Make sure that the power of your computer is turned off before making the connection.

To connect to a second printer



Turn off both the machine and your second printer.

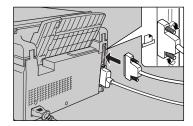


2. GETTING ACQUAINTED

- 2 Connect one end of a parallel interface cable to your second printer.
- Connect the other end of the cable to the second printer port, securing it in place with the screws.

🟈 Note

- It requires a standard 36-pin parallel cable compliant with IEEE 1284.
- Refer to page 26 for details on using the second printer.



Installing the Paper Feed Unit (Option)

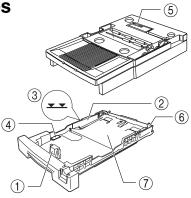
This section describes how to install the paper feed unit (option) and how to load paper in it. Addition of a paper feed unit provides you with a second paper source that holds up to 250 sheets of A4 or Letter size paper.

4 Important!

Make sure that machine power is turned off and that the power cord is unplugged from the power socket before installing the paper feed unit.

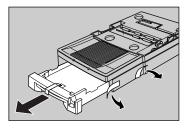
Paper Feed Unit Part Names

- 1 Front guide
- 2 Side guide
- ③ Limit mark
- (4) Paper size indicator
- (5) Connector
- 6 Corner guides
- 7 Metal plate



To install the Paper Feed Unit

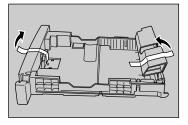
1 Remove all the packing tapes from the paper feed unit and pull the paper tray out of the unit.



2 After removing all tapes and cardboard from inside of the paper tray, insert the tray back into the machine until it locks into place. Locate the paper feed unit where you plan to use the machine.

🔗 Note

Be sure to place the paper feed unit on a level surface.

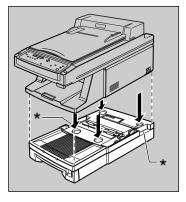


- The machine has handhold at the locations shown in the illustration. Note that the illustration shows the machine as viewed from above.
 - This illustration shows the handhold location on the right side of the machine.

• This is the handhold location on the left side of the machine.

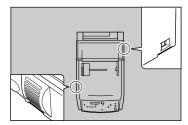
Carefully lower the machine onto the paper feed unit, making sure that the dowels on the paper feed unit fit into holes in the bottom of the machine properly.

When lifting the machine, make sure your hands are at the locations indicated by "*****" in the illustration. This protects against pinching your fingers between the machine and paper feed unit.

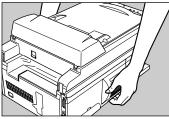


🟈 Note

After the above installation, attach the power cord to the machine, and plug the other end into an outlet. Refer to page 8 for details.





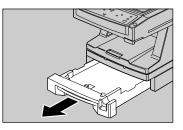


To load paper into the paper feed unit

You can load either A4 or Letter size paper into the paper feed unit. Refer to page 19 for details on how to change the positions of the paper guides inside of the tray to match the type of paper you are using.



Pull out the paper tray and remove it from the paper feed unit.

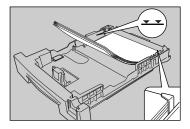


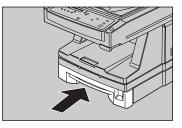
- 2 Press down on the metal plate in the bottom of the paper tray until the plate locks into place with a "click".
- 3 Up to 250 sheets of plain paper (80 g/m² or 20 lb) can be inserted into the paper tray as shown in the illustration. Make sure that the top of the stack is not higher than the limit mark on the side fence.



Make sure the leading corners of the paper fit under the corner guides.

Slide the paper tray back into the paper feed unit until it locks into place.

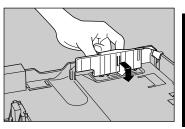




To change the paper size

Use the following procedure to set the positions of the paper guides inside the paper tray for either A4 or Letter paper.

- **1** Squeezing in on both sides of the front guide, slide it to the correct position for the desired paper size.
- 2 Squeezing in on both sides of the side guide, slide it to the correct position for the desired paper size.



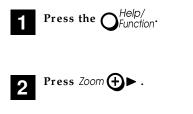
2. GETTINC ACQUAINTE

4 Important!

Whenever you change the paper size, be sure to also specify the paper size using the operation panel.

To specify the paper size

After you install the paper feed unit (option), you can select between the upper paper tray and the paper feed unit as the paper source, and specify the size of paper in the paper feed unit.



Prt Help List

1 Tray Pap. Size 🕨



🔗 Note

Note Note

The actual message that appears on the machine's display depends on the paper source you last used. If "Upper Tray?" appears, press Zoom \bigoplus or $\triangleleft \bigoplus$ Zoom to display the "Lower Tray?" message before proceeding with step 4.

After pressing ^{OK}○, press Zoom ⊕► or ◀○ Zoom until the desired size appears.

Α4	?					►
----	---	--	--	--	--	---

5 When the correct size is on the display, press $OK \bigcirc C$.

Do not carry out any operations while "Reg-

istered" appears on the display.

Registered

Lower Tray?

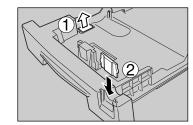
100%

L 01

οĸ

To install the paper size indicator

1 Break off the paper size indicator (①). Positioning the indicator so the side that shows the paper size you are using (A4 or Letter) is facing outwards, insert it into the front of the paper tray (②).



To select the paper source



Paper Select

Press O until the desired paper source appears.

100%	U 01
------	------

The upper paper tray is selected when "U" is on the display, and the paper feed unit is selected when "L" is on the display.

100%	L	01

🔗 Note

Refer to page 10 for details on using the upper paper tray.

Upgrading Memory

You can install Single Inline Memory Module (SIMM) to upgrade the onboard memory of the machine.

The machine is shipped from the factory with a 4MB SIMM, which can be replaced with an 8MB, 16MB or 32MB SIMM.

Use the following procedure to install 8MB, 16MB or 32MB SIMM.

🔗 Note

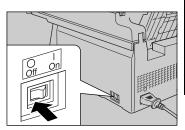
The following are the required specifications for a SIMM used with this machine: 72-pin, 60ns, Extend Date Out (EDO), parity/non-parity.

4 Important!

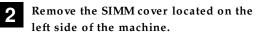
Make sure you touch some grounded metal object with your hand to discharge any electrostatic charge from your body before handling the SIMM.

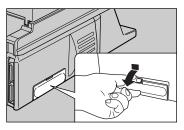


Turn off the machine.

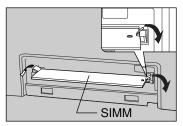


2. GETTING ACQUAINTEI

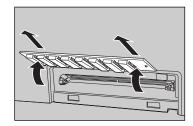




3 Pull apart the hooks on the both sides of the SIMM board that hold it in place.



4 Carefully lift out the SIMM board currently installed on your printer.

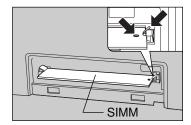


5 Angle the new SIMM board as shown in the illustration, and insert it down into the slot. Gently rock it back and forth until you hear it snap into place.

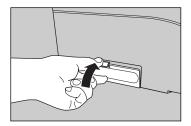
4 Important!

Make sure the SIMM board is oriented correctly when you insert it into the slot.

- 6 Make sure the hooks on the sides of the SIMM board snap securely into place.



7 Replace the cover by inserting its tabs into the holes provided, as shown in the illustration.



3. PRINTING AND SCANNING

When connected to a compatible PC, you can use this machine as a high performance laser printer and black and white scanner.

#Important!

- Make sure that your PC parallel port is set to ECP. If it is not, please consult your PC manual on how to change it.
 - 🟈 Note
 - For information on PC hardware and software requirements, please read the README file on the CD.
 - Printer drivers are provided for both Windows[®] 95/98 and Windows[®] 3.1, but the scanning feature requires Windows[®] 95/98.

Setting up

Before you can start printing and scanning you need to the following if you have not done so already:

- Connect the machine to your PC
- Install the software drivers on your PC

Installing the Software Drivers

Follow the steps below to install the printer/scanner drivers on your PC.

- Make sure the machine is connected to your PC and paper is loaded in the upper paper tray.
 - Connecting to a computer, See page 7
 - ← Loading Paper, See page 10



Switch the machine on.



Insert the provided software CD into your CD-ROM drive.

4

Do one of the following according to your operating system:

• Windows[®] 95/98

Run the setup application. For example, if your CD-ROM is assigned to D, run "D: Scanin Setup.exe".

• Windows[®] 3.1

First copy the disk images under the directory named "3.1" on the CD-ROM to floppy disks. Then insert the first floppy disk into your floppy disk drive and run "install.exe".

🔗 Note

5

- You cannot install from CD-ROM under Windows 3.1.
- Only the printer driver will be installed under Windows3.1.

Follow the instructions that appear on the display.

For detailed information on how to print and scan from your PC, please refer to the online help provided.

Features You Can Access From the Printer Driver

Printer Driver Contents

Paper Defaults	
Paper size	: Size, Measurement Unit
Page orientation	: Portrait, Landscape
Output	: Copies, Print in reverse order
Paper source	: Source
About	
N-Up Printing	
Select a Layout Option	: Normal, Reduce for N-up printing
	(Print page borders ; 2 pages up/sheet ; 4 pages up/sheet)

Document

Document Type Settings

	Automatic	Photo (Grayscale)	Desktop Publishing	High Speed Draft	Business Graphics
Graphics Mode	Raster	Raster	GL/2	Raster	Raster
Font Resolution(dpi)	600	600	600	300	600
Graphics Resolution	High	High	High	High	High
Halftone	Screening	Screening	Screening	Screening	Dithering

Job Settings

: True Type Mode, Name

Configuration

Device Configuration : Feeder ; Toner Save Mode ; Time-out

Fonts

Font Manager (To add printer fonts)

Overlays

Overlay Assignments : None, All pages, Odd/Even pages, First/Other pages

Cover/Divider page Overlays

Create New Overlay

Manage Overlays	: Get files from other sources to use as overlays, Send created overlays
	to other sources, Rename overlays, Remove overlays

聯 Important!

After printing a large number of pages, wait a few minutes befor turning off the machine.

🔗 Note

Be sure to use online help and Read me file of the printer driver to get the most out of all the printer features and functions.

Using the Second Printer (Additional Printer)

Use the following procedure to switch between this machine and a second printer when a second printer is connected.

聯 Important!

If the second printer has a bi-directional mode, make sure you turn it off.

🟈 Note

Connecting a second printer, see page 15.

To print to the second printer

Second Printer

. The Second Printer



indicator lights.

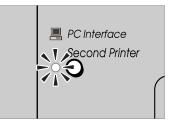
Important!

Whenever you change printers, be sure to also change to the appropriate printer driver on your computer.



While the Second Printer Indicator is lit, print data from your computer passes through the machine to the second printer.

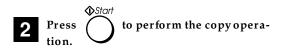
2 Perform the required print operation with the application you are using.

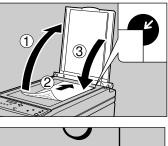


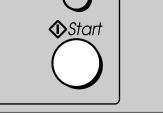
4. COPYING

Making a Copy

Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).







🏨 Important!

After copying a large number of pages, wait a couple of minutes before attempting to turn off the machine.

🔗 Note

When printing to label paper, envelopes, transparencies, or thin paper (60 g/ m^2 or 16 lb), remove each printout as it comes out of the machine. If you don't, printed output can fall out of the output tray, and become curled.

Alignment of Originals

Align the original with the scale of the exposure glass.

- When the original is a standard size such as A4 or Letter, align it to the indexes on the scale.
- When your original is not standard size, align the upper left edge of the original to the arrow mark on the scale.

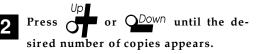
For Type 2 Users

• When the original is smaller than the paper you are copying to, place a second sheet of paper that is larger than the paper you are copying to on top of the original when you place the original onto the exposure glass.

Making Multiple Copies

You can specify the number of copies to be printed by pressing $\bigcup_{n=1}^{U_p}$ (to increase the number) or $\bigcup_{n=1}^{D_0 \otimes m}$ (to reduce the number).

Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).



1	3
2	

100%	10
100%	10

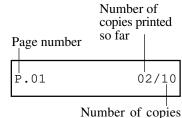
🔗 Note

You can specify the number of copies in the range of 01 to 99.

3 Press to perform the copy operation.

🔗 Note

During the copy operation, the display shows the number of copies printed so far and that to be printed. For example, 02/10 appears while the second copy of a run of 10 copies is being printed.



to be printed

Tips
 Press Clear Modes to clear the setting after the copying has been finished.
 Memory Copy Soft/Memory Copy
 O (Type 1) or O (Type 2) produces copies at a faster speed, but it can also result in a loss of printout quality.
 With a Type 2 machine, using Soft/Memory Copy also activates the Sort feature automatically.

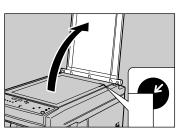
Making a Book Copy

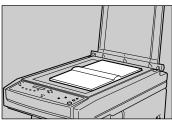
When copying from a book, the thickness of the book should be no more than 30mm (1.18").

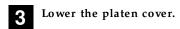


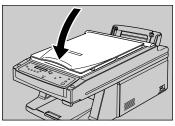
Lift the platen cover.

2 Open to the page you want to copy and lay the page face down on the exposure glass. Be sure to align one of the corners of the page with the arrow mark on the scale.

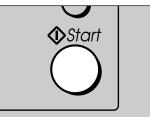












4. COPYING

Reduction and Enlargement

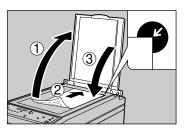
Press $\overset{Reduce}{O}$ or $\overset{Enlarge}{O}$ to select preset reduction or enlargement factors for the copy operation.

To set the reduction factor

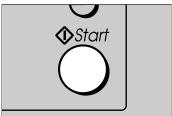
1 Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).

Reduce

lowing order.



100%	01
Ratio (%)	Original→Paper size
93	A little reduced.
87	A4 → B5
82	$B5 \rightarrow A5$
71	$A4 \rightarrow A5$
50	Reduced by ¹ /4.
	· ·



Press

 $100\% \rightarrow 93\% \rightarrow 87\% \rightarrow 82\%$ $100\% \leftarrow "71\% \text{ A4} \blacktriangleright \text{A5"} \leftarrow 45\%$

tio appears. The sizes change in the fol-

until the desired size ra-

3 Press $\bigoplus_{\text{eration.}}^{\bigoplus \text{Start}}$ to perform the copy op-

Press Clear Modes to clear the setting after copying.

To set the enlargement factor

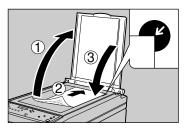
1 Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).

until the desired size ratio

appears. The sizes change in the follow-

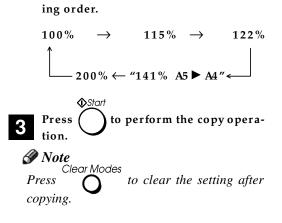
Enlarge Press

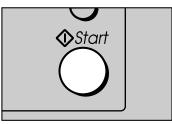
2





Ratio (%)	Original \rightarrow Paper size
115	$B5 \rightarrow A4, B6 \rightarrow A5$
122	$A5 \rightarrow B5$
141	$A5 \rightarrow A4$
200	$A6 \rightarrow A4$



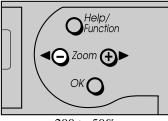


Zoom (In 1% Increments)

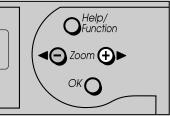
Zoom allows you to tune the preset reduction and enlargement factors to exactly the value you want. You can change the zoom factor in increments of 1%.

To use zoom

Setting Range

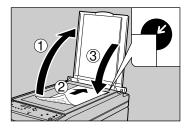


200 to 50%



50 to 200%

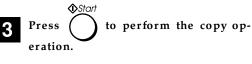
1 Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).



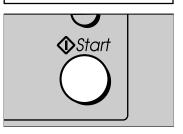
2 Press ◀⊖ Zoom (decrease) or Zoom ↔ (increase) until the desired size ratio appears.







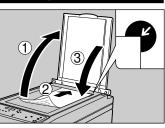
Press Clear Modes to clear the setting after copying.

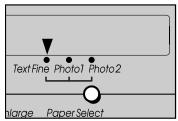


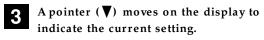
Adjusting the Copy Image

To select the resolution/photo setting

- 1 Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).
- **2** Press the Copy Mode key to specify the resolution or halftoning method for the copy operation.

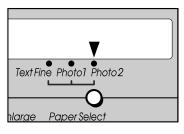






The following describes when you should use each setting.

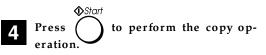
Setting	Use for:
[Text Fine]	Copying text
[Photo1]	Copying photographs
[Photo2]	Copying mixed text and photographs

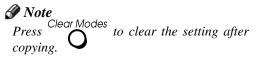


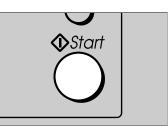
🔗 Note

If the memory size of your machine is 4MB, the machine automatically switches from Photo2 to Photo1 in the following cases.

- when the O(Type 1) or O(Type 2) key is on
- when you make multiple copies using the ADF (Type 2 only)



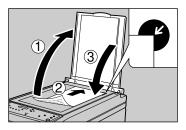




COPYING

To adjust the image density

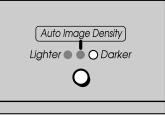
1 Lift the platen cover (1). Place the original face down at the arrow mark on the scale (2). Close the platen cover (3).



2 Pr

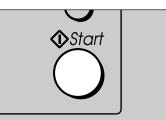
Press the Density key to select the image density.

- Auto Image Density Lighter • • • Darker
- Select [Lighter] to make the image lighter.
- Auto Image Density Lighter O • Darker
- Select [Darker] to make the image darker.





Press Clear Modes to clear the setting after copying.



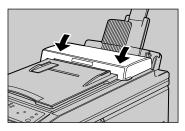
Setting an Original on the ADF (Type 2 only)

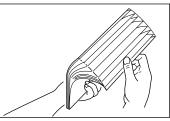
You can load up to 10 sheets of plain paper (80 g/m² or 20 lb) at a time into the Automatic Document Feeder (ADF).

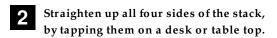
ﷺ Important!

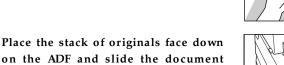
Check to make sure that the ADF cover is securely closed before using it.

1 Fan the stack of originals. Never try to place more than 10 sheets of plain paper onto the ADF.









guide against the side of the stack.

🔗 Note

The side of the original to be copied should be face down.

4

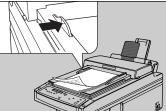
3

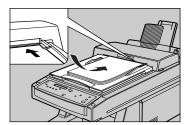
Insert the stack of originals along the document guide into the ADF.

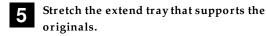
🔗 Note

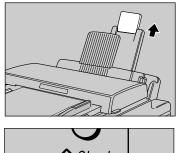
Insert your stack of originals into the ADF until it stops. If you do not push it right in, the machine will not detect the stack.

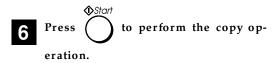










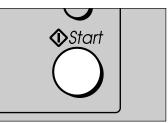


🔗 Note

• If an original becomes misfed during feeding by the ADF, press Or to stop the op-

eration. Refer to "Clearing a Paper Misfeed" on page 48.

- We recommend you use text mode when copying with the ADF.
- We recommend you copy photo originals from the exposure glass for best results.



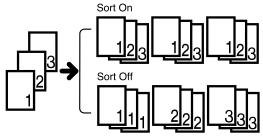
Originals that do not meet the following requirements can cause paper misfeeds, and even damage the machine.

Requirements

• Thickness	0.05mm to 0.2mm (0.002" to 0.08")
• Weight	60 to 90 g/m ² (16lb to 24lb)
• Clear markings	Markings on the originals must be clear to be read correctly.
• Uniform page size	All pages should be the same size.
• Page condition	Avoid using originals that are bent, curled, damaged, or stapled, and originals printed on coated paper, carbon paper, or photographic paper.

Sorting Output (Type 2 only)

The following example shows how output is affected by turning sorting on and off.



🏨 Important!

The sort operation requires scanning of all your originals into memory before starting the copy operation. The number of originals that can be scanned at one time depends on how much memory you have installed. • Upgrading Memory, see page 21

To turn sorting on and off

1

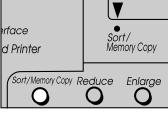
Set the originals on the ADF.

🔗 Note

• Setting an originals on the ADF, see page 35.

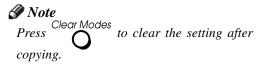
2 Sorting is activated when the V pointer is visible on the display above Sort/Memory Copy. Press O to select sorting on and off (no pointer).

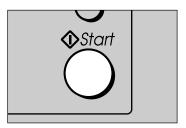






operation, all of the originals on the ADF are scanned into memory before they are printed.





5. TROUBLESHOOTING

General

Status	Cause	Remedy	Page
Nothing happens when the machine is turned on.	Power cord is not con- nected.	Correctly connect the power cord to the machine and plug it into a outlet.	p.8
	SIMM is not installed correctly.	Install the SIMM correctly.	p.21
	SIMM does not meet the required specifications.	Use a SIMM with the required specifications.	p.21
Paper misfeeds when the machine is turned on for the first time after the installation.	Paper was loaded in the machine before the ma- chine was turned on.	Remove the paper, turn the ma- chine off and then back on. Af- ter machine initialization is complete, load the paper back into the machine.	p.8
After installing a SIMM board, the memory value that appears on the machine's display does not match the amount of memory in- stalled.	SIMM does not meet the required specifications.	Use a SIMM with the required specifications.	P.21

Printing and Copying (1/2)

Status	Cause	Remedy	Page
Frequent paper mis- feeds.	The upper paper tray is not set correctly	Set the upper paper tray cor- rectly.	p.4
	Improper paper.	Use paper of the correct size and thickness.	p.9
	Paper is not set correctly in the upper paper tray.	Realign the paper with the pa- per guide, and if necessary, fan the paper stack.	p.10
	Paper is curled or damp.	Uncurl the paper.	p.10,12,18
		Insert paper into the upper paper tray from the least-curled side.	p.10,12
		Set paper face down if necessary.	p.10,12,18
		Avoid using damp paper.	-
	Too much paper is loaded in the machine.	Remove some of the paper.	p.10,14
	Paper is loaded incorrectly.	Check the paper and realign it if necessary.	p.10,18

5. TROUBLE-SHOOTING

Printing and Copying $(^{2}/_{2})$

Status	Cause	Remedy	Page
Frequent paper mis- feeds.	Attempting to print on both sides of the paper.	Print on only one side. Two-side printing is not supported by this machine.	p.10,18
	Printing onto loosely stacked envelopes	Flatten the envelopes to expel all air.	p.14
	Misfeeding of the envelope flap.	Make sure that envelope flaps are closed (folded down).	p.14
Part of the image is unclear.	Toner is distributed un- evenly in the toner cassette.	Remove the toner cassette, gen- tly rock it left and right a few times, and replace it into the machine.	p.52
Black lines on the printout.	Heat damage to the toner cassette caused by turning off the machine too soon after copying a large number of pages.	Replace the toner cassette.	p.52
Dark areas along the sides of the printout.	Turning off the machine too soon after printing or copy- ing a large number of pages.	Replace the toner cassette.	p.52

Printing

Status	Cause	Remedy	Page
Abnormal or unex- pected printing results.	Use of wrong cable.	Use the cable that comes with this machine.	p.7
	Wrong printer driver set- tings.	Change to the correct printer driver settings.	p.23
	Attempting to print from a DOS application at 600 dpi.	Change to 300 dpi.	p.58
Parts of the image are not printed out.	The correct paper size is not specified.	Specify the paper size using the operation panel.	p.19
Cannot print from a second printer.	Second printer is not con- nected correctly.	Check connections and make corrections, if necessary.	p.15
	Second printer is not se- lected.	Press O so the indi- cator above it is lit.	p.26
	Incorrect settings of the second printer driver.	Use the printer driver of the sec- ond printer to turn off bi-direc- tional printing.	p.26

Copying

Status	Cause	Remedy	Page
"Error 90" appears on the display, and the copy operation is aborted when copying from the exposure glass.	Locked scanner.	Unlock the scanner lock, turn the machine off and then back on.	p.3
Frequent original mis-	Original is not set correctly.	Set the original correctly.	p.35
feeds with ADF.	Curled original(s).	Straighten out the original(s).	p.35
		Insert the original(s) from the least-curled side.	p.35
	Incorrect original specifications.	Use originals of the correct size, thickness, and quantity.	p.36
Original is not fed from the ADF.	ADF cover is open.	Close the ADF cover.	p.35
Original is not fed out properly.	The document output tray is not set correctly.	Set the document output tray and the small pieces of plastic film correctly.	p.6
Periodic black marks on printed output.	Cleaning pad is not in- stalled.	Correctly install the cleaning pad.	p.51
Black lines and marks on printed output	Copying to small-size paper with the Type 2 machine.	Place a sheet of the same size as the paper you are printing onto	p.27
when copying from the exposure glass.	Different size original and copy paper.	behind the original.	
	Non-white original back- ground.	Adjust the print density.	p.34
	Dirty platen cover or expo- sure glass.	Clean the platen cover and exposure glass.	p.51
Black and white lines on printed output when using the ADF.	Dirty ADF transport path.	Clean the ADF transport path.	p.51
Output too light.	Low contrast original.	Adjust the print density.	p.34
Unclear photographic images.	Copying in Text Fine Mode.	Use the Copy Mode key to select the Photo1 or Photo2 Mode.	p.33
Parts of the original image are not copied.	The correct paper size is not specified	Specify the paper size using the operation panel.	p.19

Scanning

Status	Cause	Remedy	Page
PC scanning does not	· ·	Consult your PC manual on how	p.23
function properly.	set to ECP.	to set your parallel port to ECP.	

5. TROUBLE-SHOOTING

Error Messages (1/2)

The table below explains the error messages that may appear on the display and the appropriate action to take.

Message	Cause	Remedy	Page
"Close cover"	Top unit is open.	Close the top unit. If a copy job is in progress, set the copy quan- tity again.	p.3
"Add paper"	Machine is out of paper.	Load paper. If a copy job is in progress, set the copy quantity again.	p.10,18
"Toner near end"	Machine is almost out of toner.	Prepare a toner cassette for re- placement.	_
"Add Toner"	Toner cassette is not loaded correctly.	Correctly load the toner cassette into the machine.	p.2
	Machine is out of toner.	Replace the toner cassette, and set the copy quantity again dur- ing a copy job.	p.52
"Clear paper"	Paper misfeed, or paper will not feed at all.	Remove the misfed paper. If a copy job is in progress, set the copy quantity again. If paper persistently msifeeds, carry out the procedure on page 49.	p.44,49
"Memory overflow"	Not enough memory ca- pacity (PC printing only) .	Either lower the printer driver's "Resolution" setting or increase memory capacity by installing a larger SIMM. Press any opera- tion panel key to clear the error message from the display.	p.21,25
"Remove original" (when original is set in ADF)	Original misfeed, or paper will not feed at all.	Remove the original from the ADF, and set the copy quantity again.	p.48
"Original left" and "on glass"	An original may be under the platen cover.	Remove the original. If there is no original, open the platen cover and close it again.	_
"Memoly full" and "Press Stop"	Too much sort copy data.	Press O to cancel sort copy, and perform the copy operation without sorting. If you need to print big sort copy jobs, increase memory capacity.	p.21,37

Error Messages (²	2/2)		
Message	Cause	Remedy	Page
"Memory full" and "Press Start"	Too many sort copy pages.	Press O to print pages already stored in memory to cancel the job, press O. If you need to print big sort copy jobs, increase memory capacity.	p.21, 37
Error 90	Locked scanner.	Unlock the scanner lock, turn the machine off and then back on.	p.3
Error XX	Possible machine defect.	Turn power off and then back on again.	p.8

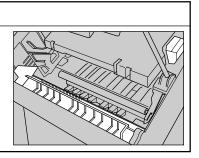
If you have a problem with the machine and you can not resolve it by referring to the information in this chapter, contact your service representative.

In case of "Error XX" messages, be sure to turn off the machine before calling.

Clearing a Paper Misfeed

This section describes how to clear a paper misfeed when one occurs.

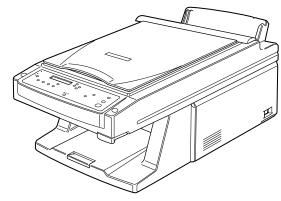
When removing misfed paper, do not touch the fusing section because it could be very hot.



<table-of-contents> Important!

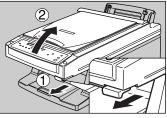
Hold a misfed sheet with both hands and slowly pull it out. Do not use a tool, such as a screwdriver or tweezers. as this may damage the unit.

Type 1





Pull the top release lever (1) and open the top unit (2).

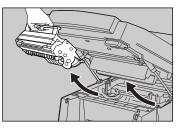




Pull out the toner cassette.

🔗 Note

- Be sure to hold the toner cassette by its handle.
- *Keep the toner cassette horizontal to avoid spilling the toner.*



TROUBLESHOOTING

- **3** Pressing down on the paper release lever (blue) on the right side, pull out the misfed paper.
- 4 Pull out the misfed paper in the directions indicated by the arrows in the illustrations.

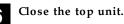
🟈 Note

- If you are using the paper feed unit (option) and cannot clear the misfeed using this procedure, use the procedure on page 48 instead.
- Sometimes toner may get on your hands.

5 Install the toner cassette into the machine.

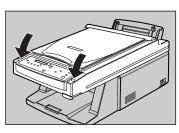
🔗 Note

- Be sure to hold the toner cassette by its handle.
- Keep the toner cassette horizontal to avoid spilling the toner.



🔗 Note

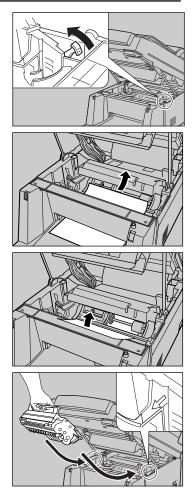
• If "Clear Paper" is still displayed after you clear the jam, there may be paper jammed in another part of the machine. Check all areas described in this section.



. TROUBLE-SHOOTING

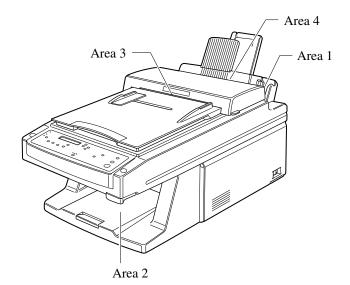
4 Important!

If a paper misfeed occurs during a copy job, be sure to specify the desired copy quantity again.



45

Type 2



Area 1 or 2



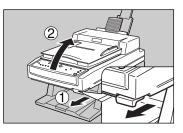
Pull the top release lever (1) and open the top unit (2).

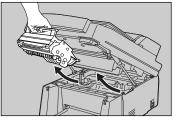


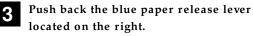
Pull out the toner cassette.

🔗 Note

- Be sure to hold the toner cassette by its handle.
- *Keep the toner cassette horizontal to avoid spilling the toner.*







Note

The lever releases pressure on the paper. If you do not push it back, you could damage the machine when removing paper.

Pull out the misfed paper in the directions indicated by the arrows in the illustrations.

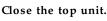
🖉 Note

- If you are using the paper feed unit (option) and cannot clear the misfeed using this procedure, use the procedure on page 48 instead.
- Sometimes toner may get on your hands.

Install the toner cassette into the machine.

🔗 Note

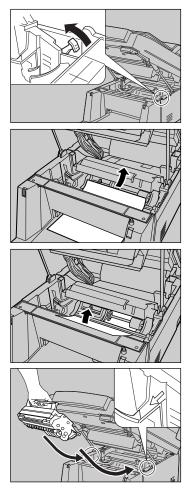
- Be sure to hold the toner cassette by its handle.
- Keep the toner cassette horizontal to avoid spilling the toner.
- Install the starter toner cassette, see page 2.

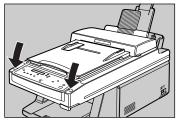




6

• If "Clear Paper" is still displayed after you clear the jam, there may be paper jammed in another part of the machine. Check all areas described





ﷺ Important!

in this section.

If a paper misfeed occurs during a copy job, make sure to specify the desired copy quantity again.

47

Area 3 or 4



Open the ADF cover.

🔗 Note

Be sure to open the ADF cover before pulling out the misfed original. Failure to do so can result in damage to the original.

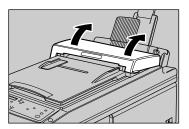
Close the ADF cover, and make sure it

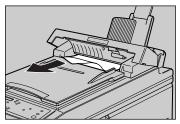


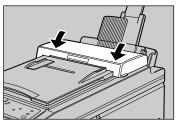
3

Pull out the misfed original.

locks securely into place.







4 Important!

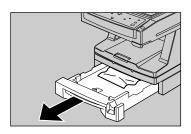
If copying was in progress, be sure to specify the desired copy quantity again.

Paper feed unit

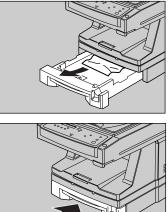
Use the following procedure when the misfed paper cannot be removed using the procedure on page 44 (for Type 1) or page 46 (for Type 2).



Pull out the paper tray.



Pull out the misfed paper.

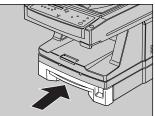




Slide the paper tray back into the paper feed unit until it locks into place.

Note Note

For how to set paper in the optional paper feed unit, see page 16.



Tip

If you cannot find a remedy for unexpected printout results here, check the printer driver's online help for other useful information.

When paper will not feed

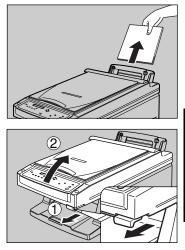
If paper has completely stopped feeding, check using the following procedure. Please keep this sheet in a secure place together with the Operation Manual.



2

Remove all paper.

Pull the top release lever (1) and open the top unit (2).

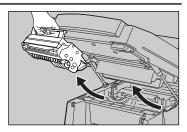


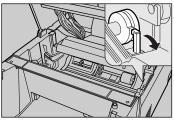


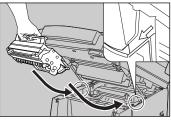
5

Pull out the toner cassette.

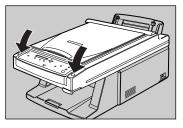
- 4 Pull the blue key-shaped pawl located deep inside on the right where the toner cassette was set forward.
 - Install the toner cassette into the ma-







6 Close the top unit. When the top unit is closed, the motor will start running. When the sound of the motor stops, set paper in the original position and continue with normal operation.



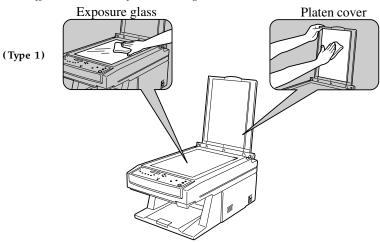
6. USER MAINTENANCE

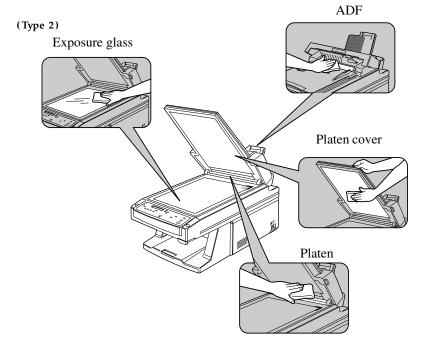
Daily Maintenance

Clean with a damp cloth and wipe dry.

Note 🖉

Turn off the machine before cleaning





Replacing the Toner Cassette And the Cleaning Pad

Printing on A4 size paper under the recommended temperature and humidity conditions noted in the table under "Environment" on page 1, you can expect a toner cassette to print approximately 3,000 pages when you are printing typical business letters that have text covering 5% of the total surface. The starter cassette that comes with the machine can print approximately 1,000 pages. Pages that contain graphics use more toner and shorten the life of a toner cassette.

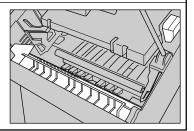
R

∕∿

Do not incinerate used toner or toner containers. Toner dust might ignite when exposed to an open flame. Dispose of the used toner cassettes according to local regulations for plastics.

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

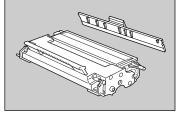
When replacing the toner cassette and cleaning pad, do not touch the fusing section because it could be very hot.

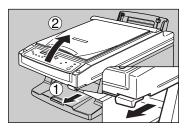


Open the box of the new toner cassette and check to make sure it contains a toner cassette and cleaning pad.

🔗 Note

Be sure to hold the toner cassette by its han-dle.





Pull the top release lever ((1)) and open the top unit ((2)).



Hold the toner cassette by its handle and pull it out.

🔗 Note

Keep the toner cassette horizontal to avoid spilling the toner.

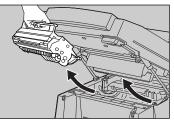


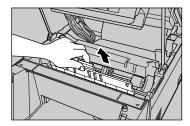
Remove the old cleaning pad.

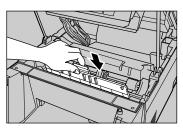
🔗 Note

Be sure to grasp the green handle when removing the cleaning pad.

5 Insert the new cleaning pad into place by grasping the green handle.







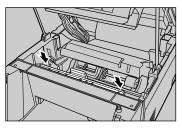
6 Press down gently but firmly on both sides of the pad to make sure that it is inserted as far as it can go.

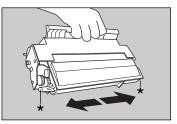
Do not forget to install the cleaning pad whenever you install a new toner cassette.

7 Prepare the new toner cassette. Holding the toner cassette by its handle, gently shake it side to side 5 or 6 times to evenly distribute the toner inside.

🔗 Note

Be sure to hold the toner cassette by its handle.





USER MAINTENANCE

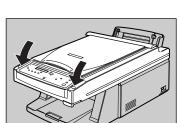
- 8 Look inside the machine and note the locations of the arrows that indicate the toner cassette guides on either side.
- 9 Make sure the plastic pins (marked with "* " in the illustration next to step above) on either side of the toner cassette slide along the guides inside the machine.
 - 🔗 Note

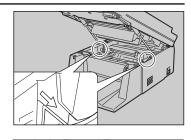
Be sure to hold the toner cassette by its handle.

10 To close the top unit, press down firmly but gently on both sides of it until the top unit closes and clicks securely into place.

🔗 Note

Background gray cast is sometimes evident just after installing a new toner cassette.







Storage

Paper

Paper should always be stored properly. Improperly stored paper might result in poor image reproduction, creased copies, or paper misfeeds. Generally, avoid paper curling and absorption of moisture.

- Avoid storing paper in humid areas. In high-temperature and high-humidity, or low-temperature and low-humidity conditions, store paper in a vinyl bag.
- Do not store paper where it will be exposed to heat.
- Store on a flat surface.
- Use older stock first.
- Do not lay heavy objects on paper.
- Keep open reams of paper in the package, and store as you would unopened paper.

Toner Cassette

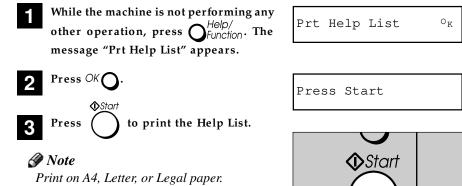
- Keep the toner cassette inside the packaging that it comes packed in whenever it is removed from the machine.
- Store horizontally in a cool, dark place.
- Never store a toner cassette where it will be exposed to heat.
- Do not lay heavy objects on the toner cassette.

Keep toner cassettes out of children's reach.

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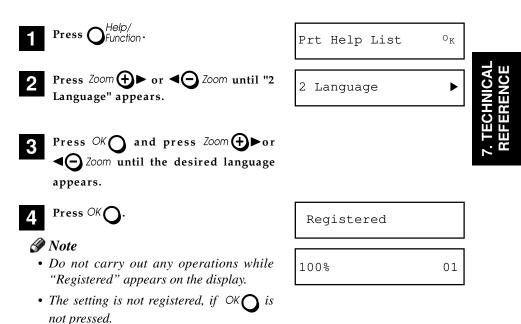
7. TECHNICAL REFERENCE Printing the Help List

You can print out the help list.



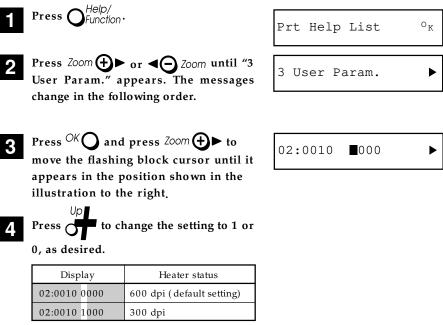
Selecting the Language

The language for the display can be selected from the following:



Selecting 300 dpi or 600 dpi

Set the printer to 300 dpi if the designated output is not obtained when printing using a DOS application compatible with the 300 dpi PCL printer.



🔗 Note

The bits other than the one highlighted in the illustration are unrelated to this setting.

 $5 \quad Press \ OKO.$

🟈 Note

- To cancel this change, press Stop or Help/ Function instead of OK O. "Please wait" and "Not Registered" appear on the display.
- Do not carry out any operations while "Registered" appears on the display.

Registered

100%

01

Economy Mode

The Economy mode can be selected to save power. If no operation is performed for 5 minutes, the display becomes blank and all the indicators go out. If no operation is performed in the next 10 minutes or 235 minutes (according to the setting), the heater turns off. The economy mode is on as the default setting.

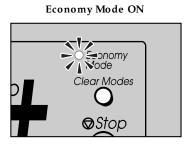
Economy mode	Operation panel off	Heater off
ON (default setting)	5 minutes	15 minutes (including time when operation panel is off)
OFF	5 minutes	240 minutes (including time when operation panel is off)

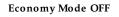
🏈 Note

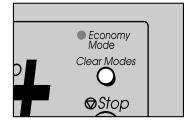
- During the Economy Mode, the heater turns back on in the following cases.
 - when any key on the operation panel is pressed
 - when the platen cover is opened
 - when paper is set in or removed from the upper paper tray (Type 2)
 - when the tray of the paper feed unit (option) is pulled out or pushed back into the machine
 - When the top unit is opened.
 - When an original is set in or removed from the ADF.
 - On initiation of PC printing.
- When a key on the operation panel is pressed to turn the heater on, the key does not perform its normal function.
- After the heater is turned back on, the previous %, quantity, and Sort On settings are cleared.

Changing the Economy Mode

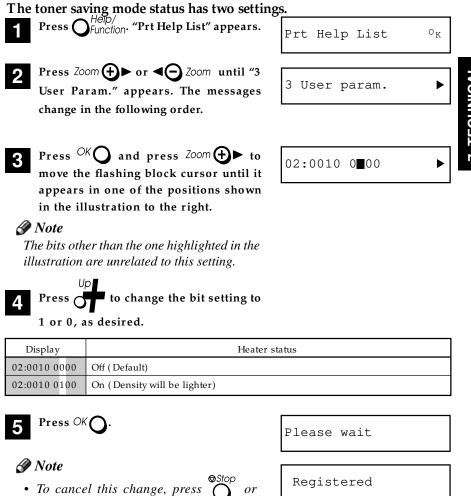
Hold down the Clear modes key for approximately 1 second until the Economy mode indicator lights or goes out, as required.







Selecting Toner Saving Mode



- Help/ Grunction instead of ^{OK} . "Please wait" and "Not Registered" appear on the display.
- Do not carry out any operations while "Registered" appears on the display.

100%

01

8. SPECIFICATIONS

General Specifications

Paper Capacity Upper tray plain paper (80 g/m²: 20 lb.) 100 sheetsPower Supply $AC 220 to 240 V$ $50/60 Hz$ Option paper unit plain paper (80 g/m²: 20 lb.) 250 sheetsPower ConsumptionMemory 4 MB (Expandable to 8 MB, 16 MB or 32 MB) EDO SIMM, 60 ns, 72 pinMax $480 W$ Printing (Average)Dimensions 249mm $\times 352mm \times 576mm$ (H $\times W \times D$) 9.81" $\times 13.87" \times 22.69"$ (H $\times W \times D$) $Operating Environment$ Type 2Printer Duty 6.000 sheets/5 yearsPaper Capacity Upper tray plain paper (80 g/m²: 20 lb.) 100 sheetsPrinter Duty 6.000 sheets/5 yearsType 2Printer Duty 6.000 sheets/1 monthPaper Capacity uplain paper (80 g/m²: 20 lb.) 100 sheetsPaper Sizes Plain paper (80 g/m²: 20 lb.) 100 sheetsOutput tray Capacity plain paper (80 g/m²: 20 lb.) 50 sheetsPaper Sizes Plain paper (80 g/m²: 20 lb.) 50 sheetsMemory 4 MB (Expandable to 8 MB, 16MB or 32MB EDO SIMM, 60 ns, 72 pin $A = 210 mm \times 297 mm$ $A = 210 mm × 297 mm$ $A = 81/a^* \times 11^*$ $Legal (LG) = 8^1/a^* \times 8^1/a^*$ $F4 = 8^1/a^* $	Type 1	Type 1, Type 2
1 j Jain paper (80 g/m ² : 20 lb.) 100 sheetsOption paper unit plain paper (80 g/m ² : 20 lb.) 250 sheets $50 / 60 \text{ Hz}$ Output tray Capacity plain paper (80 g/m ² : 20 lb.) 50 sheets Max $480 W$ Memory 4 MB (Expandable to 8 MB, 16 MB or 32 MB) EDO SIMM, 60 ns, 72 pin $50 / 60 \text{ Hz}$ Dimensions 249 mm $\times 352 \text{ mm} \times 576 \text{ mm}$ (H $\times W \times D$) 9.81" $\times 13.87" \times 22.69"$ (H $\times W \times D$) 9.81" $\times 13.87" \times 22.69"$ (H $\times W \times D$) 9.81" $\times 13.87" \times 22.69"$ (H $\times W \times D$) 9.81" $\times 11.87" \times 22.69"$ (H $\times W \times D$) plain paper (80 g/m ² : 20 lb.) 100 sheetsOperating Environment Temperature /fumidity 10°C (50°F) to 35°C (95°F) 15% to 80%Weight plain paper (80 g/m ² : 20 lb.) 100 sheets $6,000 \text{ sheets/5 years}$ Pinter Duty plain paper (80 g/m ² : 20 lb.) 100 sheetsOutput tray Capacity plain paper: A_L 11° LG (80 g/m ² : 20 lb.) 10 sheetsOutput tray Capacity plain paper: A_L 11° LG (80 g/m ² : 20 lb.) 10 sheetsOutput tray Capacity plain paper: A_L 11° LG (80 g/m ² : 20 lb.) 50 sheetsMemory 4 MB (Expandable to 8 MB, 16 MB or 32MB EDO SIMM, 60 ns, 72 pinDimensions 297 mm $\times 352 \text{ nm} \times 576 \text{ nm}$ (H $\times W \times D$) $11.70" \times 13.87" \times 22.69"$ (H $\times W \times D$) $11.70" \times 13.87" \times 22.69"$ (H $\times W \times D$) $11.70" \times 13.87" \times 22.69"$ (H $\times W \times D$) $11.70" \times 13.87" \times 22.69"$ (H $\times W \times D$) $11.70" \times 13.87" \times 22.69"$ (H $\times W \times D$)WeightWeight	Paper Capacity	Power Supply
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Power ConsumptionOutput tray Capacity plain paper (80 g/m ² : 20 lb.) 50 sheetsMax480 WMemory 4 MB (Expandable to 8 MB, 16 MB or 32 MB) EDO SIMM, 60 ns, 72 pinMax480 WDimensions 249mm × 352mm × 576mm (H×W×D)75 W9.81" × 13.87" × 22.69" (H×W×D)Operating Environment Temperature /flumidity10° C ($50^{\circ}F$) to $35^{\circ}C$ ($95^{\circ}F$) 15% to 80% Weight 15.0 kg (33.08 lb)10° C ($50^{\circ}F$) to $35^{\circ}C$ ($95^{\circ}F$) 15% to 80% Type 2Paper Capacity plain paper ($80 g/m^2$: 20 lb.) 100 sheetsOption paper unit plain paper ($80 g/m^2$: 20 lb.) 250 sheetsPrinter Duty $6,000$ sheets/1 monthScanner Duty plain paper ($80 g/m^2$: 20 lb.) 50 sheetsScanner Duty $2,000$ sheets/1 monthMemory plain paper ($80 g/m^2$: 20 lb.) 50 sheetsMathine Life $30,000$ sheets/1 monthMemory 4 MB (Expandable to 8 MB, 16 MB or 32MB) EDO SIMM, 60 ns, 72 pinPaper Sizes Plain paper $A4 = 210 \text{ nm } 2297 \text{ nm } A5 = 148 \text{ nm } 210 \text{ nm}$ $A5 = 148 \text{ nm } 210 \text{ nm}$ $A5 = 148 \text{ nm } 220 \text{ nm}$ $C5 = 162 \text{ nm } 229 \text{ nm}$ $C5 = 162 \text{ nm } 229 \text{ nm}$ $C5 = 162 \text{ nm } 229 \text{ nm}$ $C5 = 162 \text{ nm } 220 \text{ nm}$ $C5 = 114 \text{ nm } 162 \text{ nm}$ $DL = 110 \text{ nm } 220 \text{ nm}$ $OtherWeightTransparenciesLabel Paper$		50/60 Hz
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Memory240 W4 MB (Expandable to 8 MB, 16 MB or 32 MB)Stand-by (Average)75 WEDO SIMM, 60 ns, 72 pinPC-Scan (Average)75 WDimensions249 mm × 352mm × 576 mm (H×W×D) 9.81 " × 13.87" × 22.69" (H×W×D) $10^{\circ} C (50^{\circ} F)$ to $35^{\circ} C (95^{\circ} F)$ 15% to 80%Weight 15.0 kg (33.08 lb) $10^{\circ} C (50^{\circ} F)$ to $35^{\circ} C (95^{\circ} F)$ 15% to 80% $10^{\circ} C (50^{\circ} F)$ to $35^{\circ} C (95^{\circ} F)$ 15% to 80%Meight Upper tray plain paper (80 g/m ² : 20 lb.) 100 sheets $0,000$ sheets/5 yearsDif (Auto Document Feeder) Capacity plain paper (80 g/m ² : 20 lb.) 100 sheetsPaper Sizes Plain paper: A, LT · LG (80 g/m ² : 20 lb.) 50 sheetsOutput tray Capacity plain paper (80 g/m ² : 20 lb.) 50 sheetsPaper Sizes Plain paper: A4, LT · LG (80 g/m ² : 20 lb.) 50 sheetsMemory 4 MB (Expandable to 8 MB, 16MB or 32MB EDO SIMM, 60 ns, 72 pin $C3 = 162 mm × 229 mm$ $C5 = 162 mm × 229 mm$ $C6 = 114 mm × 162 mm$ $DL = 110 mm × 220 mm$ Dimensions 297 mm × 352mm × 576mm (H× W× D) 11.70" × 13.87" × 22.69" (H× WX D) $C5 = 162 mm × 229 mm$ $C6 = 114 mm × 162 mm$ $DL = 110 mm × 220 mm$	Output tray Capacity	
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32 MB EDO SIMM, 60 ns, 72 pinEconomy Mode15 WDimensions 249mm \times 352mm \times 576mm (HXWXD) 9.81" \times 13.87" \times 22.69" (HXWXD) 9.81" \times 13.87" \times 22.69" (HXWXD)Coperating Environment Temperature /Humidity 10°C (50°F) to 35°C (95°F) 15% to 80%Weight 15.0 kg (33.08 lb)10°C (50°F) to 35°C (95°F) 15% to 80%Machine Life 30,000 sheets/5 yearsType 2Paper Capacity plain paper (80 g/m ² : 20 lb.) 100 sheets Option paper unit plain paper (80 g/m ² : 20 lb.) 250 sheets ADF (Auto Document Feeder) Capacity plain paper: A4, LT · LG (80 g/m ² : 20 lb.) 10 sheets Output tray Capacity plain paper (80 g/m ² : 20 lb.) 50 sheetsPaper Sizes Plain paper A4 = 210 mm \times 297 mm A5 = 148 mm \times 210 mm Letter (LT) = 8 ¹ / ₄ " \times 11" Legal (LG) = 8 ¹ / ₄ " \times 11" Legal (LG) = 8 ¹ / ₄ " \times 11" Haf Letter = 5 ¹ / ₄ " \times 8 ¹ / ₂ " Ha = 8 ¹ / ₄ " \times 13"Dimensions 297 mm \times 352 mm \times 576 mm (HX WX D) 11.70" \times 13.87" \times 22.69" (HX WX D)Cosen Transprencies Label PaperWeightCosen Transprencies Label Paper		, , , , , , , , , , , , , , , , , , , ,
EDO SIMM, 60 ns, 72 pinOperating EnvironmentDimensions $249 \mathrm{mm} \times 352 \mathrm{mm} \times 576 \mathrm{mm} (\mathrm{HXWXD})$ $0^{\circ} \mathbb{C} (50^{\circ} \mathrm{F}) to 35^{\circ} \mathbb{C} (95^{\circ} \mathrm{F})$ $9.81'' \times 13.87'' \times 22.69'' (\mathrm{HXWXD})$ $10^{\circ} \mathbb{C} (50^{\circ} \mathrm{F}) to 35^{\circ} \mathbb{C} (95^{\circ} \mathrm{F})$ Weight $15.0 \mathrm{kg} (33.08 \mathrm{lb})$ $10^{\circ} \mathbb{C} (50^{\circ} \mathrm{F}) to 35^{\circ} \mathbb{C} (95^{\circ} \mathrm{F})$ Type 2Paper Capacity $0,000 \mathrm{sheets/5 years}$ Paper Capacity $6,000 \mathrm{sheets/1 month}$ Upper trayplain paper (80 g/m ² : 20 \mathrm{lb}.) 100 \mathrm{sheets}plain paper (80 g/m ² : 20 \mathrm{lb}.) 250 \mathrm{sheets} $6,000 \mathrm{sheets/1 month}$ Dimensions $2,000 \mathrm{sheets/1 month}$ Output tray Capacityplain paper (80 g/m ² : 20 \mathrm{lb}.) 50 \mathrm{sheets}Output tray Capacityplain paper (80 g/m ² : 20 \mathrm{lb}.) 50 \mathrm{sheets}Memory $4 \mathrm{MB} (\mathrm{Expandable to 8 \mathrm{MB}, 16 \mathrm{MB} or 32 \mathrm{MB}$ EDO SIMM, 60 ns, 72 pin $\mathbb{C} = 162 \mathrm{mm} \times 229 \mathrm{mm}$ Dimensions $297 \mathrm{mm} \times 352 \mathrm{cm} \times 576 \mathrm{cm} (\mathrm{HX} \mathrm{WX} \mathrm{D})$ $11.70^{\circ} \times 13.87^{\circ} \times 22.69^{\circ} (\mathrm{HX} \mathrm{WX} \mathrm{D})$ Weight $110 \mathrm{mm} \times 220 \mathrm{mm}$	· •	
DimensionsOperating Environment $249 \text{ mm} \times 352 \text{ mm} \times 576 \text{ mm} (HXWXD)$ $9.81" \times 13.87" \times 22.69" (HXWXD)10^{\circ} \text{C} (50^{\circ} \text{F}) \text{ to } 35^{\circ} \text{C} (95^{\circ} \text{F})15\% \text{ to } 80\%Weight15.0 \text{ kg} (33.08 \text{ lb})10^{\circ} \text{C} (50^{\circ} \text{F}) \text{ to } 35^{\circ} \text{C} (95^{\circ} \text{F})15\% \text{ to } 80\%Type 2Printer DutyPaper CapacityUpper trayplain paper (80 g/m2: 20 lb.) 100 sheets6,000 \text{ sheets/} \text{ month}Option paper unitplain paper (80 g/m2: 20 lb.) 250 sheets6,000 \text{ sheets/} \text{ month}DIM (Auto Document Feeder) Capacityplain paper (80 g/m2: 20 lb.) 50 sheetsPaper SizesPlain paperOutput tray Capacityplain paper (80 g/m2: 20 lb.) 50 sheetsA4 = 210 \text{ mm} \times 297 \text{ mm}A5 = 148 \text{ mm} \times 210 \text{ mm}Letter (LT) = 8^{1}/a^{\circ} \times 11^{\circ}Legal (LG) = 8^{1}/a^{\circ} \times 11^{\circ}EnvelopesOutput tray Capacityplain paper (80 g/m2: 20 lb.) 50 sheetsEnvelopesOutput tray Capacityplain paper (80 g/m2: 20 lb.) 50 sheetsA4 = 210 \text{ mm} \times 297 \text{ mm}A5 = 148 \text{ mm} \times 210 \text{ mm}Letter (LT) = 8^{1}/a^{\circ} \times 11^{\circ}Legal (LG) = 8^{1}/a^{\circ} \times 11^{\circ}EnvelopesDimensions297 mm \times 352 \text{ mm} \times 576 \text{ mm} (HX WX D)11.70^{\circ} \times 13.87^{\circ} \times 22.69^{\circ} (HX WX D)C5 = 162 \text{ mm} \times 229 \text{ mm}C6 = 114 \text{ mm} \times 162 \text{ mm}DL = 110 \text{ mm} \times 220 \text{ mm}OtherWeightInterver (II) masparenciesLabel Paper$		Economy Mode 15 W
DimensionsTemperature /Humidity $249 \text{ mm} \times 352 \text{ mm} \times 576 \text{ mm} (HXWXD)$ $10^{\circ}\text{C} (50^{\circ}\text{ F}) \text{ to } 35^{\circ}\text{C} (95^{\circ}\text{ F})$ $9.81" \times 13.87" \times 22.69" (HXWXD)$ $10^{\circ}\text{C} (50^{\circ}\text{ F}) \text{ to } 35^{\circ}\text{C} (95^{\circ}\text{ F})$ Weight $15.0 \text{ kg} (33.08 \text{ lb})$ $30,000 \text{ sheets/5 years}$ Type 2Paper Capacity $6,000 \text{ sheets/1 month}$ Upper tray plain paper (80 g/m ² : 20 lb.) 100 \text{ sheets}} $6,000 \text{ sheets/1 month}$ Option paper unit plain paper (80 g/m ² : 20 lb.) 250 \text{ sheets}}Scanner DutyADF (Auto Document Feeder) Capacity plain paper: A4, LT·LG (80 g/m ² : 20 lb.) 50 \text{ sheets}}Paper SizesOutput tray Capacity plain paper (80 g/m ² : 20 lb.) 50 \text{ sheets}} $A4 = 210 \text{ mm} \times 297 \text{ mm}$ Memory 4 MB (Expandable to 8 MB, 16MB or 32MBI EDO SIMM, 60 ns, 72 pin $C3 = 162 \text{ mm} \times 229 \text{ mm}$ $C5 = 162 \text{ mm} \times 229 \text{ mm}$ $C5 = 114 \text{ mm} \times 162 \text{ mm}$ $DL = 110 \text{ mm} \times 220 \text{ mm}$ WeightWightTransparencies Label Paper	EDO SIMM, 60 ns, 72 pin	Operating Environment
$249 \text{ mm} \times 352 \text{ mm} \times 576 \text{ mm} (\text{HXWXD})$ $10^{\circ} \text{C} (50^{\circ} \text{F}) \text{ to } 35^{\circ} \text{C} (95^{\circ} \text{F})$ $9.81^{\circ} \times 13.87^{\circ} \times 22.69^{\circ} (\text{HXWXD})$ $10^{\circ} \text{C} (50^{\circ} \text{F}) \text{ to } 35^{\circ} \text{C} (95^{\circ} \text{F})$ Weight $15.0 \text{ kg} (33.08 \text{ lb})$ $10^{\circ} \text{C} (50^{\circ} \text{F}) \text{ to } 35^{\circ} \text{C} (95^{\circ} \text{F})$ Type 2Paper Capacity plain paper (80 g/m ² : 20 lb.) 100 sheetsOption paper unit plain paper (80 g/m ² : 20 lb.) 250 sheets $6,000 \text{ sheets/I month}$ Dimensions EDO SIMM, 60 ns, 72 pin Paper Sizes Plain paper A4 ILT-LG (80 g/m ² : 20 lb.) 50 sheets Memory 4 MB (Expandable to 8 MB, 16 MB or 32MB) EDO SIMM, 60 ns, 72 pin $A4 = 210 \text{ mm} \times 297 \text{ mm}$ $A5 = 148 \text{ mm} \times 210 \text{ mm}$ Letter (LT) = $8^{1}/e^{\circ} \times 11^{\circ}$ Legal (LG) = $8^{1}/e^{\circ} \times 14^{\circ}$ Half Letter = $5^{1}/e^{\circ} \times 8^{1}/e^{\circ}$ F4 = $8^{1}/a^{\circ} \times 13^{\circ}$ Dimensions $297 \text{ mm} \times 352 \text{ mm} \times 576 \text{ mm} (\text{HX WX D})$ $11.70^{\circ} \times 13.87^{\circ} \times 22.69^{\circ} (\text{HX WX D})$ $C5 = 162 \text{ mm} \times 229 \text{ mm}$ $C6 = 114 \text{ mm} \times 162 \text{ mm}$ $DL = 110 \text{ mm} \times 220 \text{ mm}$ WeightWeightTransparencies Label Paper	Dimensions	
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Option paper unitplain paper (80 g/m²: 20 lb.) 250 sheetsADF (Auto Document Feeder) Capacity plain paper: A4, LT+LG (80 g/m²: 20 lb) 10 sheetsOutput tray Capacity plain paper (80 g/m²: 20 lb.) 50 sheetsOutput tray Capacity plain paper (80 g/m²: 20 lb.) 50 sheetsMemory 4 MB (Expandable to 8 MB, 16 MB or 32 MB) EDO SIMM, 60 ns, 72 pinDimensions $297 \text{ mm} \times 352 \text{ mm} \times 576 \text{ mm} (HX WX D)$ $11.70" \times 13.87" \times 22.69" (HX WX D)WeightWeight$	plain paper (80 g/m ² : 20 lb.) 100 sheets	
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4 MB (Expandable to 8 MB, 16MB or 32MB) $F4 = 8^1/4" \times 13"$ EDO SIMM, 60 ns, 72 pin Envelopes Dimensions $C5 = 162 \text{ mm} \times 229 \text{ mm}$ 297mm × 352mm × 576mm (H× W× D) DL = 110 mm × 220 mm 11.70" ×13.87"× 22.69" (H× W× D) Other Weight Transparencies	Memory	
$EDO SIMM, 60 ns, 72 pin$ $Dimensions$ $297 mm \times 352 mm \times 576 mm (HX WX D)$ $11.70'' \times 13.87'' \times 22.69'' (HX WX D)$ $Weight$ $Envelopes$ $C5 = 162 mm \times 229 mm$ $C6 = 114 mm \times 162 mm$ $DL = 110 mm \times 220 mm$ $Other$ $Transparencies$ $Label Paper$		
Dimensions $C5 = 162 \text{ mm} \times 229 \text{ mm}$ $297 \text{mm} \times 352 \text{mm} \times 576 \text{mm} (HX WX D)$ $C6 = 114 \text{ mm} \times 162 \text{ mm}$ $11.70" \times 13.87" \times 22.69" (HX WX D)$ $DL = 110 \text{ mm} \times 220 \text{ mm}$ OtherTransparenciesLabel Paper		
Dimensions C6 = 114 mm × 162 mm 297mm × 352mm × 576mm (HX WX D) DL = 110 mm × 220 mm 11.70" ×13.87"× 22.69" (HX WX D) Other Weight Transparencies Label Paper Label Paper	P	
11.70" ×13.87"× 22.69" (H× W× D) Other Weight Transparencies Label Paper	Dimensions	
Weight Transparencies Label Paper	297mm × 352mm × 576mm (H× W× D)	DL = 110 mm × 220 mm
Label Paper	11.70" ×13.87"× 22.69" (H× W× D)	Other
Label Paper	Weight	Transparencies
	15.5 kg (34.18 lb)	Label Paper

15.5 kg (34.18 lb)

Printing Specifications

Printer Language	Resident Font
PCL 5e compatible	Dutch 801 SWC
Print Resolution	Dutch 801 Italic SWC Dutch 801 Bold SWC
600 dpi × 600 dpi 1200 dpi × 600 dpi (enhanced)	Dutch 801 Bold Italic SWC
Print Speed	Swiss 742 SWC Swiss 742 Italic SWC
6 ppm (pages per minute)	Swiss 742 Bold SWCSwiss 742 Bold Italic SWC
Paper/Media Types	Swiss 742 Condensed SWC
Plain paper	Swiss 742 Condensed Italic SWC
Envelopes	Swiss 742 Condensed Bold SWC
Transparencies	Swiss 742 Condensed Bold Italic SWC
Label paper	• Incised 901 SWC
Paper Weight	Incised 901 Italic SWCIncised 901 Bold SWC
60 to 90 g/m ² (16 to 24 lb)	• Fixed Pitch 810 Courier Roman SWC
Interface	 Fixed Pitch 810 Courier Bold SWC Fixed Pitch 810 Courier Italic SWC
IEEE 1284	• Fixed Pitch 810 Courier Bold Italic SWC
	 Fixed Pitch 850 Letter Gothic 12 pitch /text SWC Fixed Pitch 850 Letter Gothic Bold 12 pitch /text SWC
	• Fixed Pitch 850 Letter Gothic Italic 12 pitch /text SWC
	• Flareserif 821 SWC
	• Flareserif 821 Extra Bold SWC
	• Ribbon 131 SWC
	Wingbats SWM

Scanner Specifications

Configuration	Grey scale
Flatbed / ADF	256 levels (8-bit)
Document Size	Interface IEEE 1284 ECP mode
Optical Resolution	Compatibility
300dpi	TWAIN
Scanning Resolution	ADF Up to 10 pages of 80g /m ² (20lb) , Plain paper
100 × 100, 150 × 150,	Maximum scanning size
200 × 200, 300 × 300,	212 × 351.6 mm
400 × 400, 600 × 600 dpi 8bit 300 × 300 dpi	OS Windws 95,98 only

Label paper

Copying Specifications

Copy Speed	Paper Weight
6 cpm (copy per minute)	60 to 90 g/m ² (16 to 24 lb)
Warm-up Time	Original Types
30 seconds or less	Exposure glass (Type 1/Type 2)
First copy 17 seconds or less	Sheet/Book ADF (Type 2) Up to 10 pages of 80 g/m² (20 lb),
Mulitiple Copies	Plain paper
Up to 99 copies	Maximum Original Size
Copy Reduction and Enlargement	Legal (LG) = $8^{1}/2$ " × 14"
50%, 71%, 82%, 87%, 93%, 115%, 122%, 141%, 200%	Copy Resolution 600 dpi × 600 dpi
Paper/Media Types	
Plain paper	
Envelopes	
Transparencies	

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