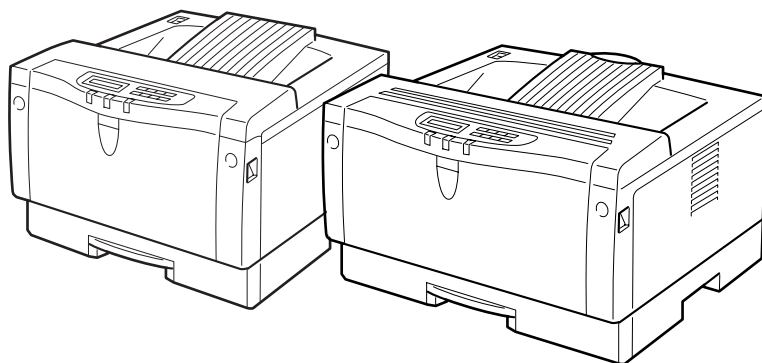


RICOH LASER AP1400/AP2000

OPERATING INSTRUCTIONS



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

For safety, please follow the instructions in this manual.



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Printed in the Netherlands

EE (GB) G031-8600

Introduction

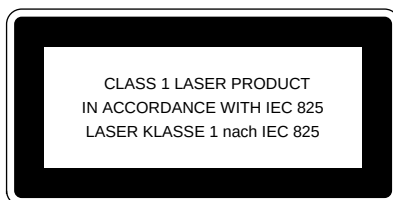
This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual. Please keep this manual in a handy place near the machine.

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

Operator Safety:

This machine is considered a class 1 laser device, safe for office/ EDP use. The machine contains 5-milliwatt, 760 - 800 nanometer wavelength, GaAlAs laser diode. 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 back side of the machine.



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.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Caution:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Do not attempt any maintenance or troubleshooting other than that mentioned in this manual. This machine contains a laser beam generator and direct exposure to laser beams can cause permanent eye damage.

Notes:

The model names of the machines do not appear in the following pages. Check the model name of your machine before reading this manual. (For details, see P.2 "Type 1 Printer", P.5 "Type 2 Printer".)

Descriptions in this manual	Model name
Type 1 Printer	RICOH LASER AP2000
Type 2 Printer	RICOH LASER AP1400

Descriptions without the note for identifying the type of the printer are common for both models. Certain types might not be available in some countries. For details, please contact your local dealer.

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

Power Source

RICOH LASER AP2000: 220 - 240 V, 50/60 Hz, 4.0 A or more

RICOH LASER AP1400: 220 - 240 V, 50/60 Hz, 3.0 A or more

Please be sure to connect the power cord to a power source as above.

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

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



Declaration of Conformity

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

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

I means **POWER ON**.

O means **POWER OFF**.

Introduction

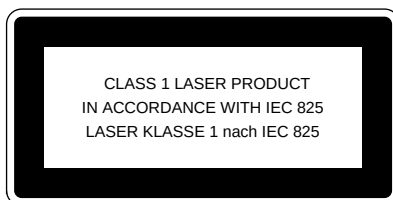
This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual. Please keep this manual in a handy place near the machine.

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

Operator Safety:

This machine is considered a class 1 laser device, safe for office/ EDP use. The machine contains 5-milliwatt, 760 - 800 nanometer wavelength, GaAlAs laser diode. 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 back side of the machine.



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.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Caution:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Do not attempt any maintenance or troubleshooting other than that mentioned in this manual. This machine contains a laser beam generator and direct exposure to laser beams can cause permanent eye damage.

Notes:

The model names of the machines do not appear in the following pages. Check the model name of your machine before reading this manual. (For details, see P.2 "Type 1 Printer", P.5 "Type 2 Printer".)

Descriptions in this manual	Model name
Type 1 Printer	P7020
Type 2 Printer	P7014

Descriptions without the note for identifying the type of the printer are common for both models. Certain types might not be available in some countries. For details, please contact your local dealer.

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

Power Source

P7020: 220 - 240 V, 50/60 Hz, 4.0 A or more

P7014: 220 - 240 V, 50/60 Hz, 3.0 A or more

Please be sure to connect the power cord to a power source as above.

For good copy quality, supplier recommends that you use genuine supplier's toner.

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



Declaration of Conformity

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

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

I means **POWER ON**.

O means **POWER OFF**.

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PCL® is a registered trademark of Hewlett-Packard Company.

AppleTalk, Apple, Macintosh, TrueType, LaserWriter are registered trademarks of Apple Computer, Incorporated.

IPS-PRINT™ Printer Language Emulation© Copyright 1988-1997, XIONICS DOCUMENT TECHNOLOGIES, INC., All Rights Reserved

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

Notes:

Some illustrations might be slightly different from your machine.

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

Notes:

The proper names of the Windows operating systems are as follows:

- Microsoft® Windows® 95 operating system
- Microsoft® Windows® 98 operating system
- Microsoft® Windows® for Workgroups operating system Version 3.11
- Microsoft® Windows NT® Server network operating system Version 4.0
- Microsoft® Windows NT® Workstation operating system Version 4.0

Safety Information

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

Safety During Operation

In this manual, the following important symbols are used:

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

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

 **WARNING:**

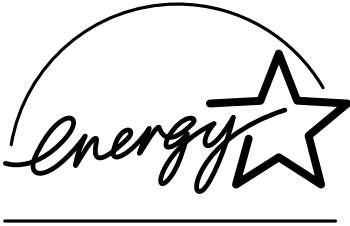
- *Connect the power cord directly into a wall outlet and never use an extension cord.*
- *Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.*
- *To avoid hazardous electric shock or laser radiation exposure, do not remove any covers or screws other than those specified in this manual.*
- *Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following conditions exists:*
 - *You spill something into the equipment.*
 - *You suspect that your equipment needs service or repair.*
 - *Your equipment's cover has been damaged.*
- *Do not incinerate spilled toner or used toner. Toner dust might ignite when exposed to an open flame.*
- *Disposal can take place at our authorized dealer or at appropriate collection sites.*
- *If you dispose of the used toner containers yourself, dispose of them according to your local regulations.*

 CAUTION:

- *Protect the equipment from dampness or wet weather, such as rain, snow, and so on.*
- *Unplug the power cord from the wall outlet before you move the equipment. While moving the equipment, you should take care that the power cord will not be damaged under the equipment.*
- *When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).*
- *Do not allow paper clips, staples, or other small metallic objects to fall inside the equipment.*
- *Do not eat or swallow toner.*
- *Keep toner (used or unused) and toner cartridge out of reach of children.*
- *For environmental reasons, do not dispose of the equipment or expended supply's wastes at a household waste a collection point. Disposal can take place at our authorized dealer or at an appropriate collection site.*
- *Our products are engineered to meet the highest standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.*
- *The inside of the machine could be very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise, it could cause a personal burn.*

ENERGY STAR Program

ENERGY STAR®



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 warming.

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

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

- ❖ **Low-power mode (Energy Saver mode)**
This printer automatically lowers its power consumption 30 minutes after the last operation has been completed. To exit Low-power (Energy Saver) mode, press any key on the operation panel. To change the setting of the Energy Saver mode, see P.121 *“Making Printer Settings with the Operation Panel”*.

- ❖ **Specifications**

		Type 1 Printer* ¹	Type 2 Printer* ¹
Lower-power mode (Energy Saver mode)	Power Consumption	30 W or less	
	Default Time	30 minutes	
	Recovery Time	39 seconds or less	39 seconds or less

*¹ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

**Recycled Paper**

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

Manuals for Your Printer

Manuals for Your Printer

There are two manuals that describe the procedures separately for the installation of your printer and for the operation and maintenance of your printer and its optional equipment.

To enhance safe and efficient operation of your printer, all users should read and follow the instructions contained in the following manuals.

❖ **Quick Installation Guide**

Describes the procedures for installing your printer.

❖ **Operating Instructions**

Describes the procedures and necessary information on setting up and using your printer and its optional equipment. (This Manual)

How to Read this Manual

Symbols

In this manual, the following symbols are used:

WARNING:

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

CAUTION:

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

* The statements above are notes for your safety.

Important

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

Preparation

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

Note

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

Limitation

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

Reference

This symbol indicates a reference.

[]

Keys that appear on the machine's panel display.

Keys and buttons that appear on the computer's display.

【 】

Keys built into the machine's operation panel.

Keys on the computer's keyboard.

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1. Getting Acquainted

Features of Your Printer

Your printer is designed especially for office work groups, both for shared usage within network environment, and for one-to-one usage by being connected directly to your computer.

❖ Time Saving

Superior features save time you spend on your print tasks.

- Fast Print Speed ^{*1}: 20 ppm (Type 1 printer) and 14 ppm (Type 2 printer)
^{*1} A4, 8¹/₂" × 11", maximum printing speed from a standard paper tray.
- All Front Operation: From the front side, you can replace the toner cartridge, check indicators, and clear a paper misfeed if it occurs.

❖ Compact Body

Its compact body requires minimum space to place it on your desk or desk side.

❖ Network Connectivity

Your printer is network ready with the optional Network Interface Board Type 2000.

❖ Major Specifications

	Type 1 Printer ^{*1}	Type 2 Printer ^{*1}
Printing Speed	20 pages per minute ^{*2}	14 pages per minute ^{*3}
Maximum Print Quality	True 1200 × 1200dpi resolutions (PCL 6, PS)	
Emulations	PCL 5e, PCL 6, PostScript® Level 2	
Maximum Input Paper Size	Paper Tray and Bypass Tray: A3, 11" × 17"	Paper Tray: A4  , 8 ¹ / ₂ " × 11" (Letter)  Bypass Tray: A4  , 8 ¹ / ₂ " × 14" (Legal) 
Standard Memory Size	8MB	8MB
Maximum Memory Size with Optional Memory	40MB	40MB

^{*1} Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

^{*2} A4 , 8¹/₂" × 11" 

^{*3} A4 , 8¹/₂" × 11" 

Guide to the Printer

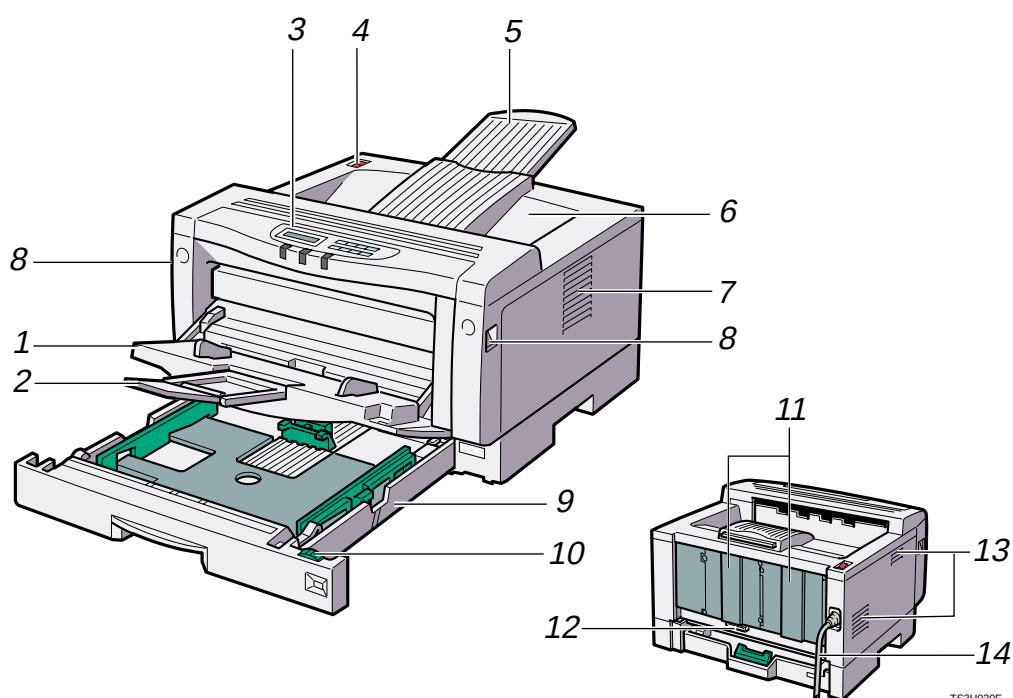
1

Type 1 Printer

Type 1 Printer: Exterior

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. Bypass tray

Use to print onto thick paper, OHP transparencies, adhesive labels, custom size paper, and envelopes as well as plain paper. When printing on custom paper size, printer driver's settings are required.

Up to 100 sheets of plain paper (80 g/m², 20 lb) can be loaded.

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

⇒ P.79 *"Type 1 Printer: Loading Paper in the Bypass Tray"*

2. Bypass Tray Extender

Pull out this extender to load paper into the bypass tray when its length is longer than A4  or 8 1/2" x 11" .

3. Operation Panel

Contains keys for printer operation and a panel display that shows the printer status.

4. Power Switch

Use this switch to turn the printer power on and off.

5. Output Tray Extender

Pull out this extender when printing on long paper.

6. Output Tray

Printed output is stacked here with the print side face down.

7. Ventilator

These holes help to keep components inside the printer from overheating.

Important

- ☐ Do not leave the ventilator obstructed or blocked. Doing so creates the danger of malfunction due to overheating.

8. Front Cover Release Buttons

Use these buttons to open the front cover.

9. Paper Tray

Loads up to 250 sheets of plain paper (80 g/m², 20 lb) into this tray for printing.

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

10. Paper Size Dial

Adjust this dial to match the size and feed direction of the paper loaded in the paper tray.

11. Back Plates

Remove to install some options.

12. Parallel Interface Connector

Plug into the interface cable that connects the printer to your computer.

13. Ventilators

These holes help to keep components inside the printer from overheating.

Important

- ☐ Do not leave the ventilators obstructed or blocked. Doing so creates the danger of malfunction due to overheating.

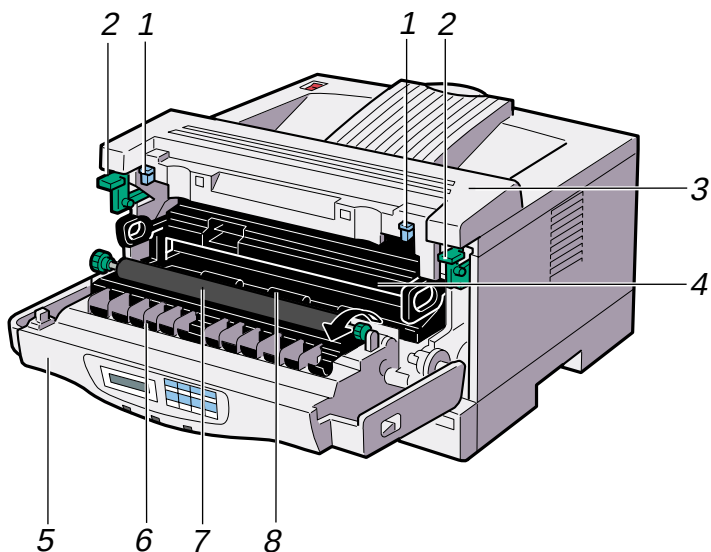
14. Power Cord

Plug this cord into a wall outlet.

Type 1 Printer: Interior

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. Pressure Release Levers (blue)

Push down these levers when removing misfed paper.

2. Fusing Unit Lock Levers (brown)

Push down these levers when replacing the fusing unit.

3. Fusing Unit

Fuses the image onto the paper.

When “Replace Maintenance Kit” appears on the panel display, replace this unit.

4. Toner Cartridge

Includes toner and a photoconductor unit.

5. Front Cover

Open this cover when accessing the inside of the printer.

6. Transfer Roller Cover

Open this cover when replacing the transfer roller.

7. Transfer Roller

When “Replace Maintenance Kit” appears on the panel display, replace this roller.

8. Registration Roller

Feeds the paper. If it becomes dirty, clean it.

⇒ P.119 “Cleaning the Registration Roller (Type 1 Printer only)”

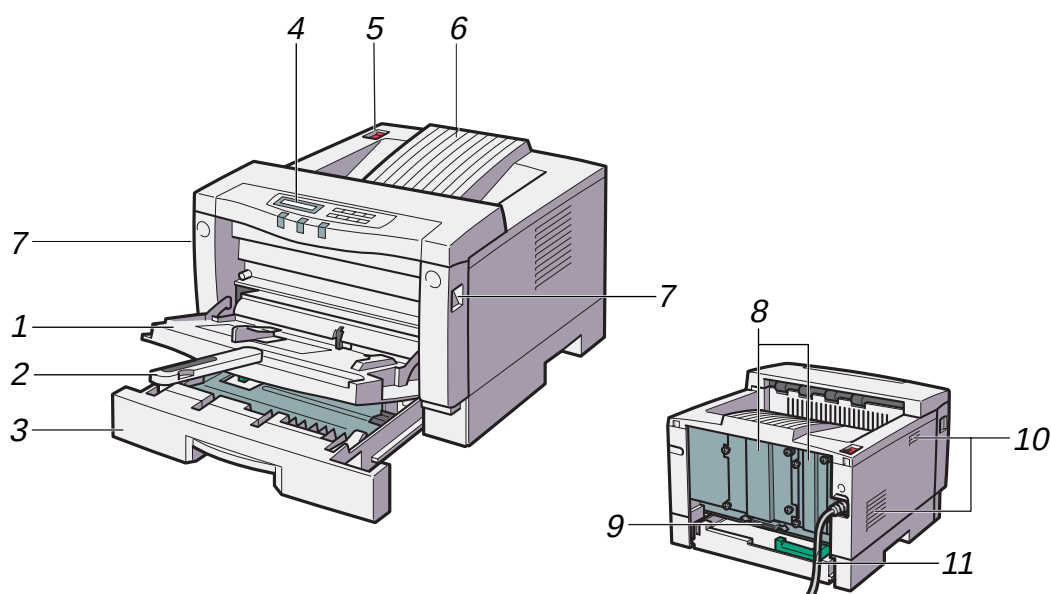
Type 2 Printer

Type 2 Printer: Exterior

1

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



TS4H030E

1. Bypass Tray

Use to print onto thick paper, OHP transparencies, adhesive labels, custom size paper, and envelopes as well as plain paper. When printing on custom paper size, printer driver's settings are required.

Up to 100 sheets of plain paper (80 g/m², 20 lb) can be loaded.

⇒ P.63 "Paper and Other Media Supported by Your Printer"

⇒ P.87 "Type 2 Printer: Loading Paper in the Bypass Tray"

2. Bypass Tray Extender

Pull out this extender to load paper into the bypass tray when its length is longer than B5 or 5 1/2" x 1 1/2".

3. Paper Tray

Loads up to 250 sheets of plain paper (80 g/m², 20 lb) into this tray for printing.

⇒ P.63 "Paper and Other Media Supported by Your Printer"

4. Operation Panel

Contains keys for printer operation and a panel display that shows the printer status.

5. Power Switch

Use this switch to turn the printer power on and off.

6. Output Tray

Printed output is stacked here with the print side face down.

7. Front Cover Release Buttons

Use these buttons to open the front cover.

8. Back Plates

Remove to install some options.

9. Parallel Interface Connector

Plug into the interface cable that connects the printer to your computer.

10. Ventilators

These holes help to keep components inside the printer from overheating.

Important

- ☐ Do not leave the ventilators obstructed or blocked. Doing so creates the danger of malfunction due to overheating.

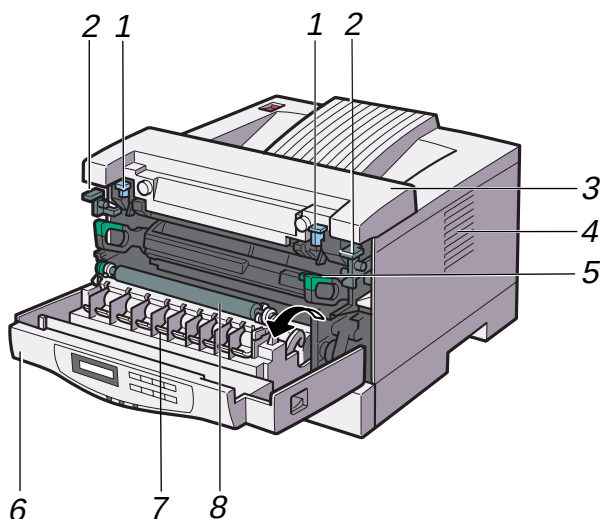
11. Power Cord

Plug this cord into a wall outlet.

Type 2 Printer: Interior

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. Pressure Release Levers (blue)

Push down these levers when removing misfed paper.

2. Fusing Unit Lock Levers (brown)

Push down these levers when replacing the fusing unit.

3. Fusing Unit

Fuses the image onto the paper.

When "Replace Maintenance Kit" appears on the panel display, replace this unit.

4. Ventilator

This hole helps to keep components inside the printer from overheating.

Important

- ☐ Do not leave the ventilator obstructed or blocked. Doing so creates the danger of malfunction due to overheating of components inside the printer.

5. Toner Cartridge

Includes toner and a photoconductor unit.

6. Front Cover

Open this cover when accessing the inside of the printer.

7. Transfer Roller Cover

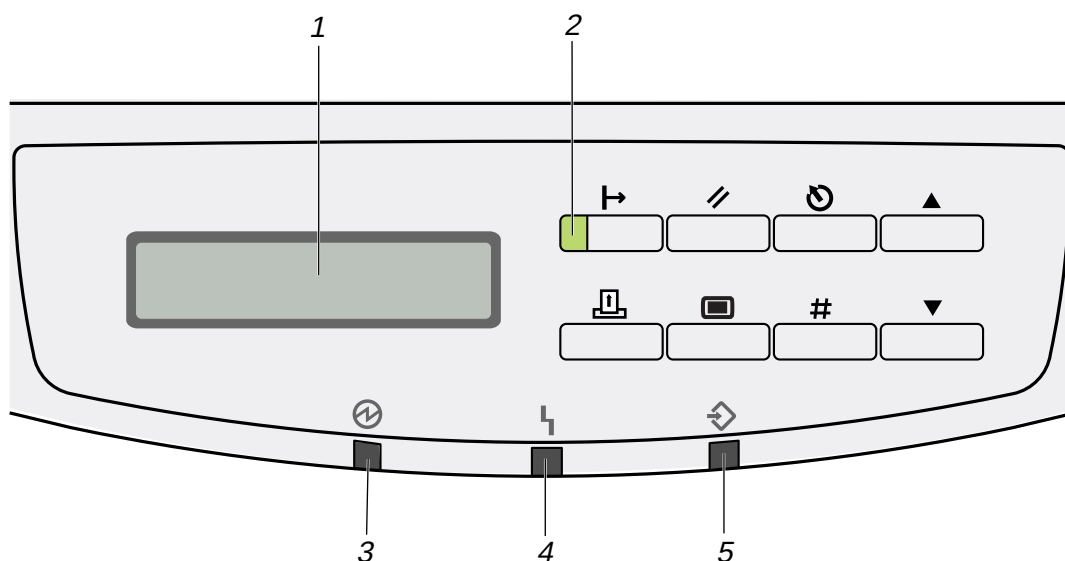
Open this cover when replacing the transfer roller.

8. Transfer Roller

When "Replace Maintenance Kit" appears on the panel display, replace this roller.

Operation Panel

1



TS3S011E

1. Panel Display

The display shows the current status of the printer and error messages.

⇒ P.95 “Error & Status Messages on the Operation Panel”

2. On Line indicator

Tells you whether the printer is on-line or off-line.

Stays on while the printer is on-line (a state in which the printer can receive data from the computer).

Stays off when the printer is off-line (a state in which printer can not receive data).

3. Power indicator

Stays on while the printer power is on.
Stays off when the power is turned off or while the printer is in the Energy Saver save mode.

4. Error indicator

Blinks or lights up whenever any printer error occurs. A message describing the cause of the error also appears on the panel display.

⇒ P.95 “Error & Status Messages on the Operation Panel”

5. Data In indicator

Blinks while the printer is receiving data from a computer.

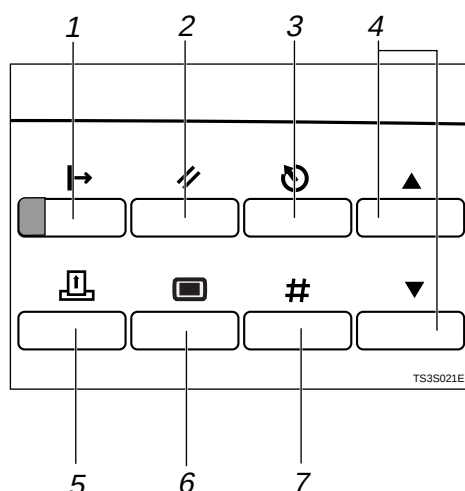
Stays on if there is data to be printed.

Keys

Important

- ❑ Pressing any operation key while the **Data In** indicator is blinking or stays on may cause data in the printer to be lost.

1



1. **【On Line】** key

Press this key to switch the printer between on-line and off-line conditions.

2. **【Job Reset】** key

Pressing this key when the printer is on-line cancels the ongoing print job. ⇒ P.60 "Canceling a Print Job"

3. **【Escape】** key

Press this key to return to the previous condition on the panel display.

4. **【▲】【▼】** keys

Use these keys to increase or decrease values on the panel display when making settings.

5. **【Form Feed】** key

Pressing this key during the off-line condition prints out all the data left in the printer's input buffer.

6. **【Menu】** key

Press this key to make and check the current printer settings. ⇒ P.121 "Making Printer Settings with the Operation Panel"

7. **【Enter】** key

Press this key to execute menu items selected on the panel display.

Press this key to clear some errors. ⇒ P.95 "Troubleshooting"

Note

- ❑ This doesn't work in the on-line condition.

2. Installing Options

CAUTION:

- *Make sure to turn off the printer and wait for about 30 minutes before installing options. Not waiting for the printer to cool down can result in a burn.*
- *When lifting the machine, use the inset grips on both sides of the machine. Otherwise, the machine might fall and cause personal injury.*
- *When you move the machine, unplug the power cord from the wall outlet to avoid a fire or an electric shock.*

Option List

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

	Type 1 Printer	Type 2 Printer
Paper Feed Unit (A3) Type 2000 ^{*1}	○	
Paper Feed Unit (A4) Type 2000 ^{*1}	○	
Paper Feed Unit Type 1400 ^{*2}		○
Envelope Feeder Type 2000 ^{*3}	○	
Envelope Feeder Type 1400 ^{*4}		○
Network Interface Board Type 2000	○	○
Memory Unit Type 204 (16MB)	○	○
Memory Unit Type 204 (32MB)	○	○

○ : This option can be installed.

^{*1} Type 1 Printer: You can install any combination of these units. Up to two paper feed unit can be installed to your printer at a time.

^{*2} Type 2 Printer: Only one paper feed unit can be installed at a time.

^{*3} This requires the installation of the Paper Feed Unit Type 2000.

^{*4} This requires the installation of the Paper Feed Unit Type 1400.

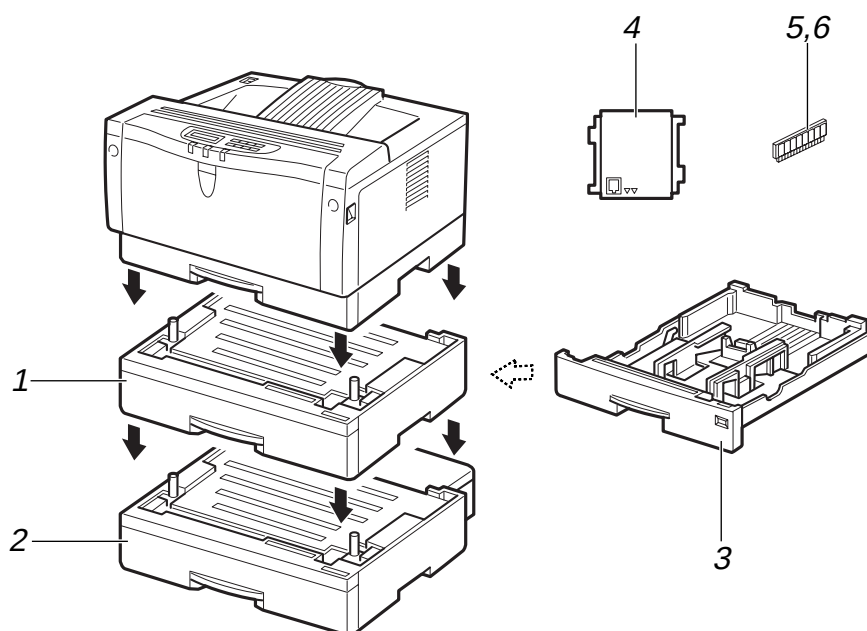
Available Options

The following options can be installed to your printer.

◆ For Type 1 Printer

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



TS3P100E

- 1. Paper Feed Unit (A4) Type 2000**
- 2. Paper Feed Unit (A3) Type 2000**
- 3. Envelope Feeder Type 2000**
- 4. Network Interface Board Type 2000**

- 5. Memory Unit Type 204 (16MB) (SIMM)**
- 6. Memory Unit Type 204 (32MB) (SIMM)**

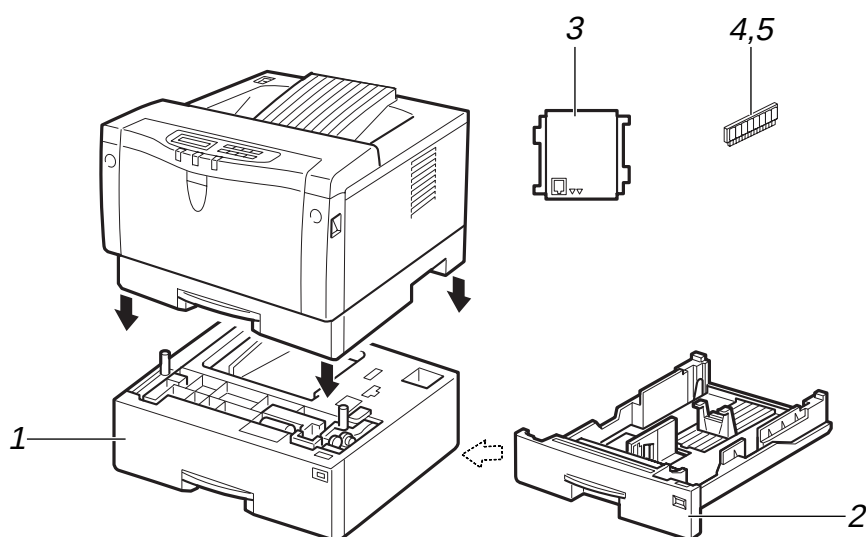
Note

- ☐ It is impossible to install more than two paper feed units to your printer at a time.
- ☐ Any combination of Paper Feed Unit (A4) Type 2000 and Paper Feed Unit (A3) Type 2000 is available.
- ☐ The envelope feeder is a tray that slides into the optional paper feed unit. Without the optional paper feed unit, the envelope feeder cannot be used.
- ☐ The Type 1 Printer can have two optional paper feed units installed at a time. However the envelope feeder should be used in the top-most optional paper feed unit (tray 2). It cannot be used in the bottom-most paper feed unit (tray 3).

◆ For Type 2 Printer

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



TS4P100E

1. Paper Feed Unit Type 1400

2. Envelope Feeder Type 1400

3. Network Interface Board Type 2000

4. Memory Unit Type 204 (16MB) (SIMM)

5. Memory Unit Type 204 (32MB) (SIMM)

Note

- ☐ It is impossible to install more than one paper feed unit to your printer at a time.

Type 1 Printer: Installing Options

Type 1 Printer: Installing the Paper Feed Unit (A3) Type 2000

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ❑ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt forward.
- ❑ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Check the contents of the box for the following items.

- Paper feed unit (including a paper tray)
- Tray cover
- Installation Guide

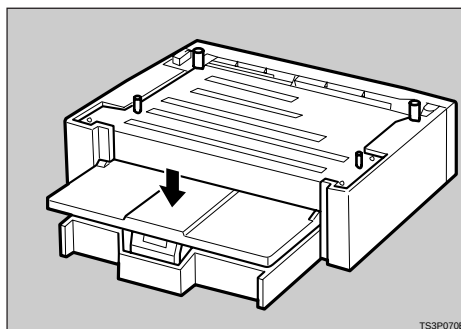
2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

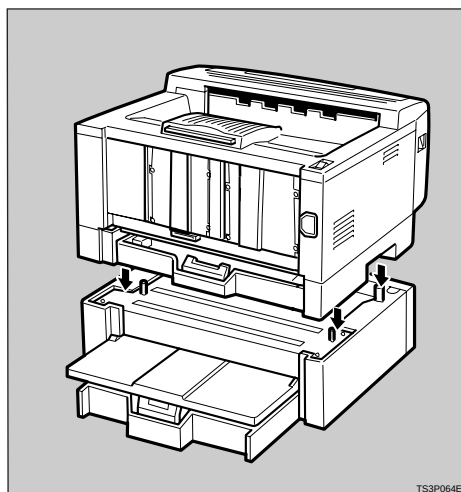
3 At the front of the paper feed unit, tape on the left and right sides is

used to hold the tray in place. Remove both pieces of tape.

- 4** Attach the tray cover to the top of the paper tray as shown in the illustration.

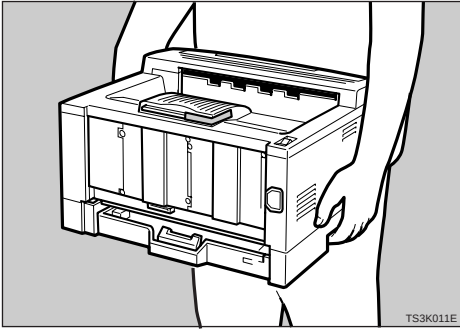


- 5** There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.



CAUTION:

- When lifting the printer, use the inset grips on both sides.



Type 1 Printer: Installing the Paper Feed Unit (A4) Type 2000



Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



Important

- ☐ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt forward.
- ☐ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Check the content of the box for the following items.

- Paper feed unit (including a paper tray)
- Installation Guide

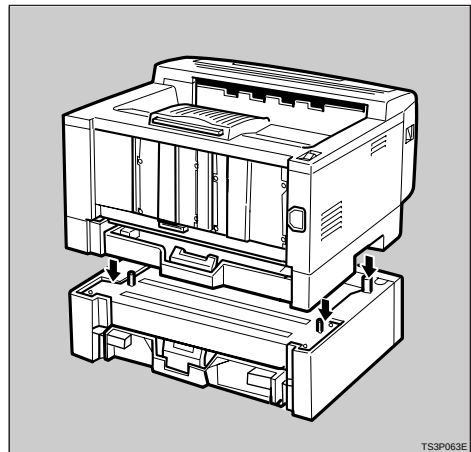
2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.

- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

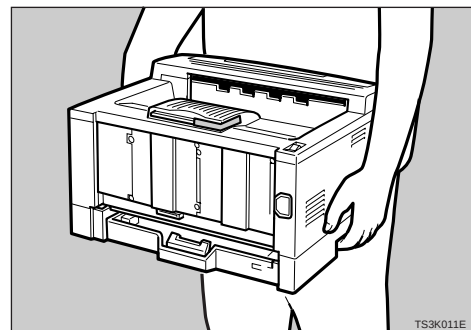
3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

4 There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.



⚠ CAUTION:

- When lifting the printer, use the inset grips on both sides.



Type 1 Printer: Installing the Envelope Feeder Type 2000

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

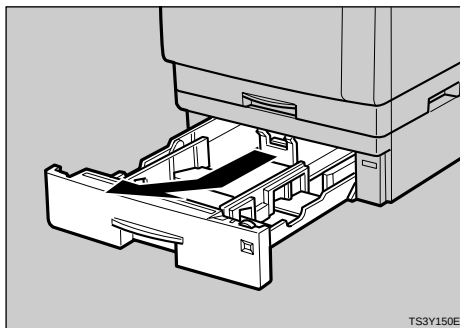
Important

- ❑ This unit is a tray that slides into the optional paper feed unit. Without the optional paper feed unit, this envelope feeder cannot be used.
- ❑ The Type 1 Printer can have two optional paper feed units installed at a time. However, the envelope feeder should be used in the top-most optional paper feed unit (tray 2). It can not be used in the bottom-most paper feed unit (tray 3).
- ❑ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt toward.

1 Check the content in the box for the following items.

- Envelope feeder
- Installation Guide

- 2 Pull out the 2nd paper tray (tray 2) of the optional paper feed unit until it stops. After that, lift it slightly, then pull it out.



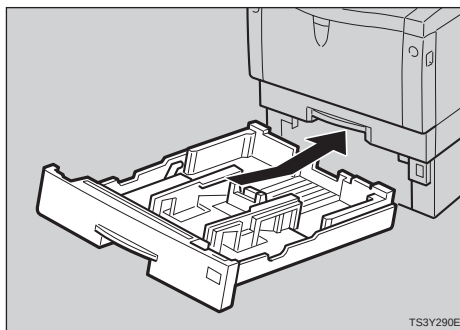
Important

- ❑ The envelope feeder should be used in the top-most optional paper feed unit (tray 2).

Note

- ❑ Keep the paper tray with paper in a cool and dry place.

- 3 While lifting the front side of the envelope feeder, place the feeder into the printer. Then slide it into the printer until it stops.



Note

- ❑ When loading envelopes, see P.82 "Type 1 Printer: Loading Envelopes".

Type 1 Printer: Installing the Network Interface Board Type 2000

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- ☐ Use the shielded twisted-pair (STP) network interface cable.
- ☐ The network interface board can be attached to either the left or the right side of the back of your printer. This procedure is for attaching to the left side.
- ☐ You cannot install two network interface boards at a time.

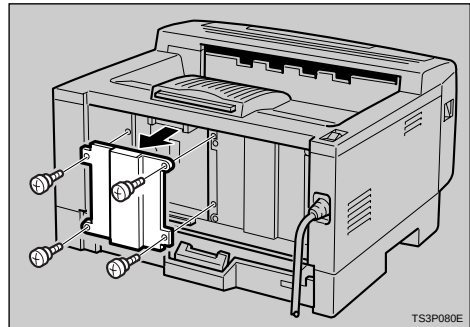
1 Check the contents of the box for the following items.

- Network interface board
- CD-ROM
- Ferrite Core
- Installation Guide
- Quick Configuration Guide
- Additional Documentation

2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.

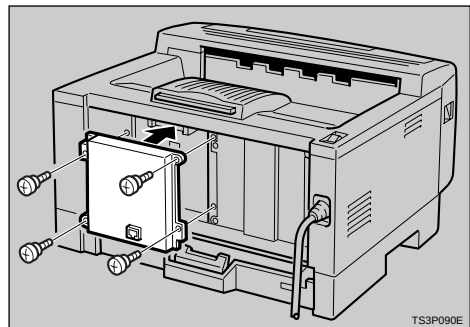
3 Remove the back plate.



Note

- ☐ A coin can be used to remove the screws.

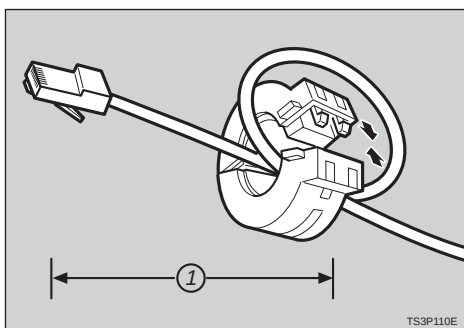
4 Align the screw holes of the network interface board over the screw holes where the back plate used to be. Make sure that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align and offer a slight resistance before popping into place.



Note

- ☐ Use a coin to reattach the screws.

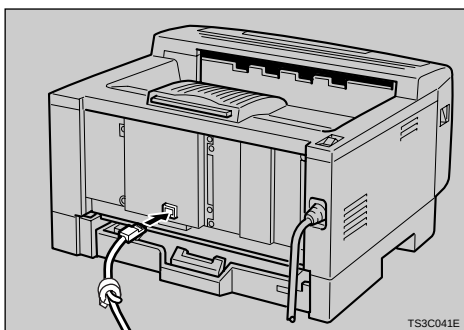
- 5** Loop the network interface cable and attach the ferrite core as shown in the illustration.



Note

- ❑ The network interface cable loop should be about 15 cm (6") (①) from the end of the cable (on the end closest to the printer). The ferrite core at the end of the cable should be a ring type ferrite core.

- 6** Attach the network interface cable to the jack on the board as shown in the illustration.



- 7** Connect the other end of the network interface cable to the network.

- 8** Plug the printer's power cord back into the wall outlet and turn on the printer's power switch.

The configuration page of the network interface board will be printed automatically. Check the

configuration of the network interface board with it.

Important

- ❑ After installing the network interface board properly, set up the printer's network environment using the operation panel. See P.25 "Configuring the Printer for the Network with the Operation Panel".

Type 1 Printer: Installing the Memory Unit (SIMM)

Note

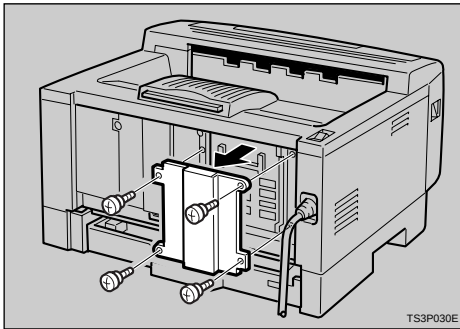
- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ❑ The memory unit can be damaged by small amount of static electricity. Before touching it, touch something metal to remove static electricity from you.
- ❑ To make the printer recognize the installed option, you should set up the option with the printer driver.
- ❑ This printer has one slot for a SIMM, and you can install one SIMM at a time.

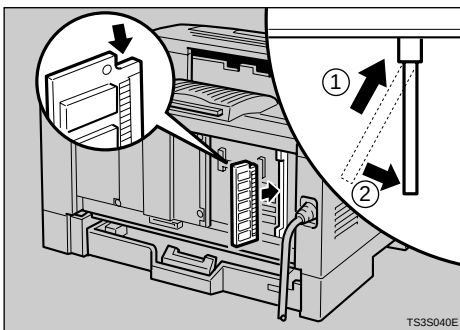
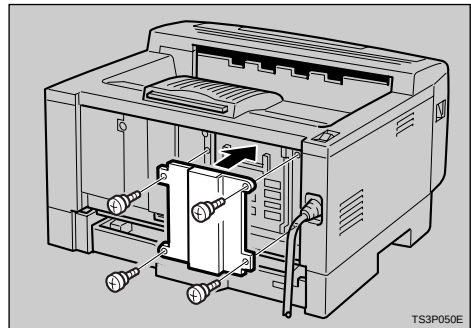
- 1** Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.

2 Remove the back plate.**Note**

- ☐ A coin can be used to remove the screws.

3 Make sure that the notch of the memory unit should be upward as shown in the illustration. Tilt the memory unit to the left so that it is in 45 degrees from perpendicular to the slot, and slide it into the slot (①). Tilt the memory unit so that it is perpendicular to the slot (②). It should make an audible click as it pops into place.

**4** Attach the back plate to its original position.**Note**

- ☐ A coin can be used to attach the screws.

5 Turn on the printer's power switch.**6** Print a configuration test sheet to confirm that the memory unit is properly installed.**Reference**

⇒ P.121 "Making Printer Settings with the Operation Panel"

Type 2 Printer: Installing Options

Type 2 Printer: Installing the Paper Feed Unit Type 1400

2

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ❑ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt forward.
- ❑ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Check the contents of the box for the following items.

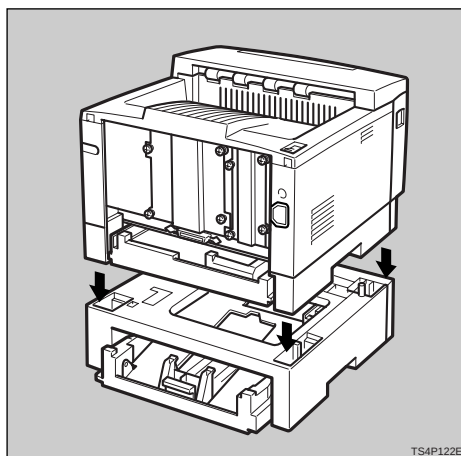
- Paper feed unit (including a paper tray)
- Installation Guide

2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

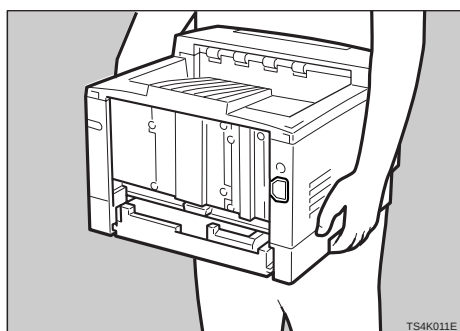
3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

- 4** There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.

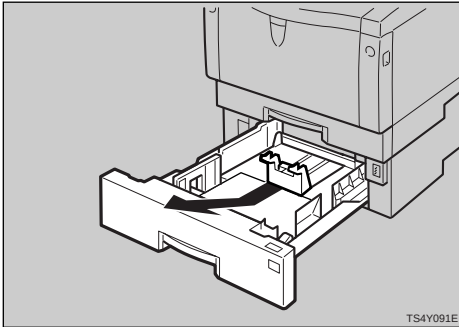


CAUTION:

- When lifting the printer, use the inset grips on both sides.



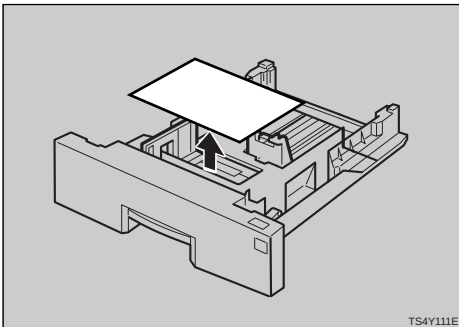
- 5** Pull the paper tray out until it stops. After then, lift it slightly, then pull it out of the printer. Place it on a flat surface.



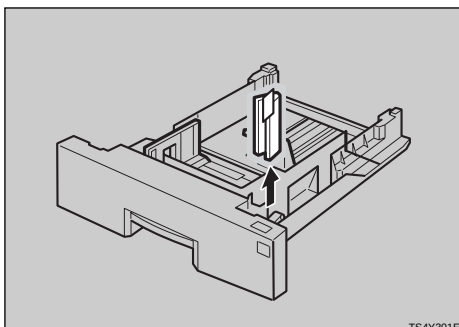
Note

- ☐ Do not touch the three white pins on the right front side of the paper feed unit.

- 6** Remove the white protective sheet from inside of the paper tray.



- 7** Remove the red protective sheet taped on the guide.



- 8** While lifting the front side of the paper tray, place it into the printer. Then slide it into the printer until it stops.

Type 2 Printer: Installing the Envelope Feeder Type 1400

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

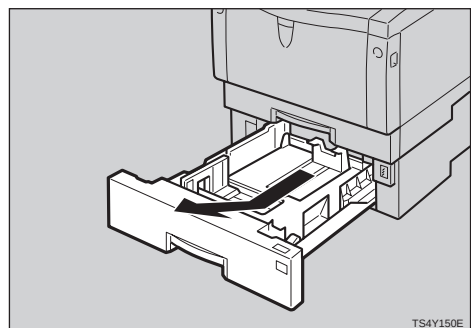
Important

- ☐ This unit is a tray that slides into the optional paper feed unit. Without the optional paper feed unit, this envelope feeder cannot be used.
- ☐ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt toward.

- 1** Check the content of the box for the following items.

- Envelope feeder
- Installation Guide

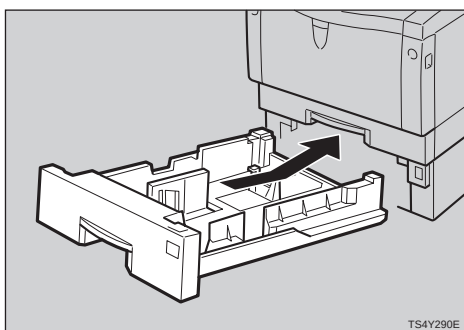
- 2** Pull out the paper tray of the optional paper feed unit until it stops. After that, lift it slightly, then pull it out.



Note

- ❑ Keep the paper tray with paper in a cool and dry place.

- While lifting the front side of the envelope feeder, place the feeder into the printer. Then slide it into the printer until it stops.

**Note**

- ❑ When loading envelopes, see P.90 "Type 2 Printer: Loading Envelopes".

Type 2 Printer: Installing the Network Interface Board Type 2000

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- ❑ Use the shielded twisted-pair (STP) network interface cable.

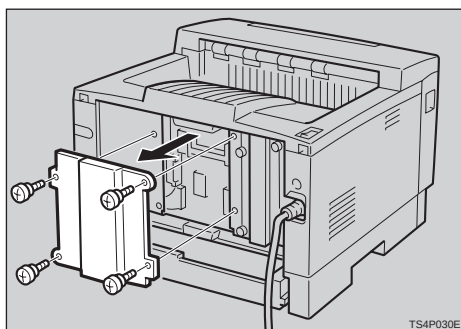
- Check the contents in the box for the following items.

- Network interface board
- CD-ROM
- Ferrite Core
- Installation Guide
- Quick Configuration Guide
- Additional Documentation

- Be sure to check the following points:

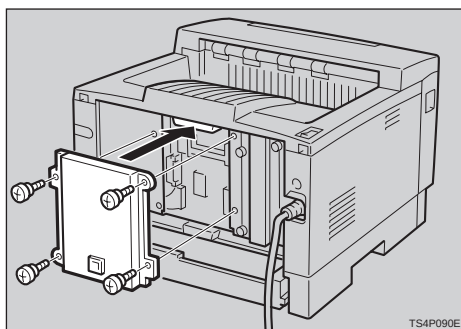
- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.

- Remove the back plate.

**Note**

- ❑ A coin can be used to remove the screws.

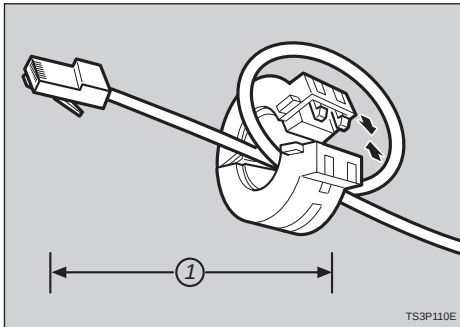
- Align the screw holes of the network interface board over the screw holes where the back plate used to be. Make sure that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align and offer a slight resistance before popping into place.



Note

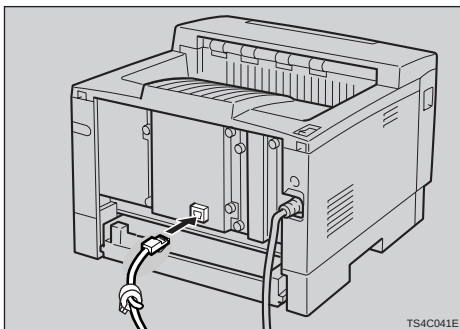
- ❑ Use a coin to reattach the screws

- 5** Loop the network interface cable and attach the ferrite core as shown in the illustration.

**Note**

- ❑ The network interface cable loop should be about 15 cm (6") (①) from the end of the cable (on the end closest the printer). The ferrite core at the end of the cable should be a ring type ferrite core.

- 6** Attach the network interface cable to the jack on the board as shown in the illustration.



- 7** Connect the other end of the network interface cable to the network.

- 8** Plug the printer's power cord back into the wall outlet and turn on the printer's power switch.

The configuration page of the network interface board will be printed automatically. Check the configuration of the network interface board with it.

Important

- ❑ After installing the network interface board properly, set up the printer's network environment using the operation panel. See P.25 "Configuring the Printer for the Network with the Operation Panel".

Type 2 Printer: Installing the Memory Unit (SIMM)

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

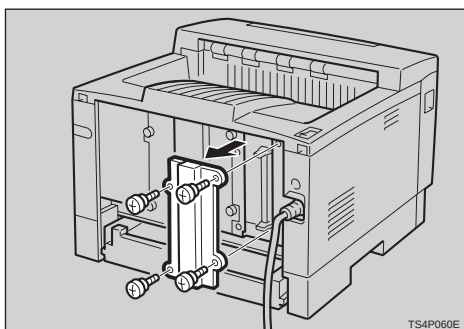
Important

- ❑ The memory unit can be damaged by small amount of static electricity. Before touching it, touch something metal to remove static electricity from you.
- ❑ To make the printer recognize the installed option, you should set up the option with the printer driver.
- ❑ This printer has one slot for a SIMM, and you can install one SIMM at a time.

- 1** Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.

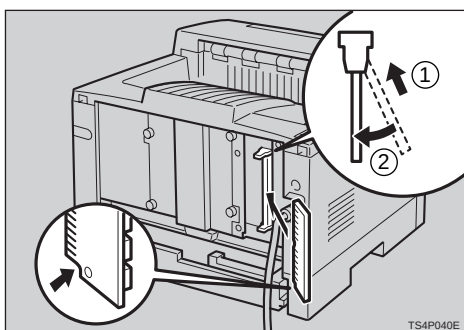
2 Remove the back plate.



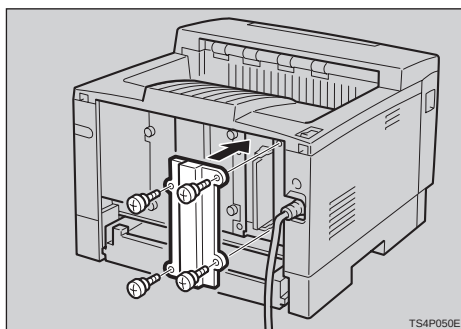
Note

- A coin can be used to remove the screws.

3 Make sure that the notch of the memory unit should be down-ward as shown in the illustration. Tilt the memory unit to the right so that it is in 45 degrees from perpendicular to the slot, and slide it into the slot (①). Tilt the memory unit so that it is perpendicular to the slot (②). It should make an audible click as it pops into place.



4 Attach the back plate to its original position.



Note

- A coin can be used to attach the screws.

5 Turn on the printer's power switch.

6 Print a configuration test sheet to confirm that the memory unit is properly installed.

Reference

⇒ P.121 "Making Printer Settings with the Operation Panel"

3. Configuring the Printer for the Network with the Operation Panel

Setting Up the IP Parameters

After installing the optional network interface board, configure it for the network using the printer's operation panel.

Reference

⇒ P.17 "Type 1 Printer: Installing the Network Interface Board Type 2000"

⇒ P.22 "Type 2 Printer: Installing the Network Interface Board Type 2000"

1 Press **[Menu]**.

The following message appears on the panel display.

```
Main Menu:      ▲
Job Control      ▼
```

2 Press **[▼][▲]** until the following message appears.

```
Main Menu:      ▲
Host Interface▼
```

3 Press **[Enter]**.

The following message appears on the panel display.

```
Host Interface:▲
1.Printer Lan%.▼
```

4 Press **[▼][▲]** until the following message appears.

```
Host Interface:▲
1.Network Setup▼
```

5 Press **[Enter]**.

The following message appears on the panel display.

```
Network Setup:  ▲
1.IP Address     ▼
```

6 Press **[Enter]**.

The current IP address appears on the panel display. A pointer (■) blinks on the value to be specified.

```
IP Address:  ▲▼+##
000.000.000.000
```

7 Specify the first (leftmost) 3 digits of the IP address using **[▲]** **[▼]**. Use **[▲]** to increase a value, and **[▼]** to decrease.

```
IP Address:  ▲▼+##
100.000.000.000
```

8 Press **[Enter]**.

A pointer (■) moves to the second 3 digits.

Note

- ☐ Before pressing **[Enter]**, you can return the pointer (■) to the previous (left) 3 digits by pressing **[Escape]**.
- ☐ If you press **[Escape]** when the pointer (■) is on the leftmost 3 digits, the specified IP address is canceled and you can return to the previous panel display.

- 9** Repeat steps **7** and **8** to specify the rest of the digits of the IP address.

- 10** Check if the pointer (■) is at the rightmost digit, press **[Enter]** to register the IP address you specified.

The following message appears on the panel display.

```
Network Setup: ▲
1.IP Address ▼
```

- 11** Press **[▼][▲]** until the following message appears.

```
Network Setup: ▲
2.Subnet Mask ▼
```

- 12** Press **[Enter]**.

The current subnet mask appears on the panel display.

```
Subnet Mask:▲▼+##
255.000.000.000
```

- 13** Specify the subnet mask using the same procedure for specifying the IP address.

- 14** Check if the pointer (■) is at the rightmost digit, press **[Enter]** to register the subnet mask you specified.

The following message appears on the panel display.

```
Network Setup: ▲
2.Subnet Mask ▼
```

- 15** Press **[▼][▲]** until the following message appears.

```
Network Setup: ▲
3.Gateway ▼
```

- 16** Press **[Enter]**.

The current gateway address appears on the panel display.

```
Gateway ▲▼+##
000.000.000.000
```

- 17** Specify the gateway address using the same procedure for specifying the IP address.

- 18** Check if the pointer (■) is at the rightmost digit, press **[Enter]** to register the gateway address you specified.

The following message appears on the panel display.

```
Network Setup: ▲
3 .Gateway ▼
```

- 19** Press **[On Line]**.

The panel display returns to the ready condition as follows:

```
Ready
```

- 20** Turn the printer's power switch off and on.

4. Printer Drivers for Your Printer

Printer Drivers for Your Printer

Printing requires installation of a printer driver for your operating system. The following drivers are provided with this printer.

	Emulation	PCL 5e	PCL 6	PostScript Level2
Operating system				
Windows 95 ^{*4}		√	√	√ ^{*1}
Windows 98 ^{*5}		√	√	√ ^{*1}
Windows 3.1x ^{*6}		√	√	
Windows NT4.0 ^{*7}		√	√	√ ^{*1}
Macintosh				√ ^{*1} ^{*2} ^{*3}

^{*1} PPD (PostScript Printer Description) files are included in the CD-ROM.

^{*2} The optional network interface board is required.

^{*3} You can use the LaserWriter printer driver. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with your Macintosh for details on the LaserWriter functions.

^{*4} Microsoft® Windows® 95 operating system

^{*5} Microsoft® Windows® 98 operating system

^{*6} Microsoft® Windows® for Workgroups operating system Version 3.11

^{*7} Microsoft® Windows NT® Server network operating system Version 4.0, Microsoft® Windows NT® Workstation operating system Version 4.0

❖ PCL printer drivers

Printer drivers allow the computer to communicate with the printer via a printer language. Two kinds of PCL printer drivers, PCL 6 and PCL 5e, are provided with this printer. We recommend the PCL 6 as your first choice. However, some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e in addition to the PCL 6.

⇒ P.29 "Windows 95/98 - Installing the PCL 6/5e Printer Driver"

⇒ P.30 "Windows 3.1x - Installing the PCL 6/5e Printer Driver"

⇒ P.32 "Windows NT4.0 - Installing the PCL 6/5e Printer Driver"

❖ PostScript Printer Description (PPD) files for Windows

The printer specific functions can be used by installing the PPD file specific for your printer.

⇒ P.37 "Windows 95/98 - Installing the PostScript Printer Driver"

⇒ P.40 "Windows NT4.0 - Installing the PostScript Printer Driver"

❖ **PostScript Printer Description (PPD) files for Macintosh**

PPD files, in combination with the LaserWriter driver, allow the computer to communicate with the printer. The printer specific functions can be used by installing a PPD file. You can use the LaserWriter printer driver that comes with your Macintosh. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with your Macintosh for details on the LaserWriter functions.

⇒ P.42 *“Macintosh - Installing the PPD File”*

5. Installing the PCL 6/5e Printer Driver

Installing the PCL 6/5e Printer Driver

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system. Follow the right one of the procedures below.

We recommend the PCL 6 as your first choice. However, some of your application software might require the installation of the PCL 5e printer driver. In this case, you can install the PCL 5e in addition to the PCL 6.

Important

- ☐ When you set the print resolution to 300dpi, you should install the PCL 5e driver.
- ☐ When you set the printer resolution to 1200dpi, you should install the PCL 6 driver.
- ☐ When updating the printer driver by installing the latest version, you should uninstall the former version, if any.

Windows 95/98 - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 95/98 system:

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** Click [Start] on the task bar.
- 4** Click [Run].
- 5** In the [Run] window, click [Browse].
- 6** Select the CD-ROM drive.
- 7** Open the folder called [PCL5E] or [PCL6].
- 8** Open the folder called [WIN31_95].
- 9** Open the folder of the appropriate language for your operating system.
- 10** Open the folder called [DISK1].

- 11** Select the file titled [SETUP.EXE].
- 12** Click [Open].
- 13** Click [OK].
- 14** Follow the instructions on the screen.
- 15** If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.
- 16** Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.
- 17** Select the icon of the printer you installed by clicking it.
- 18** On the [File] menu, click [Properties].
- 19** On the [General] tab, click [Print Test Page].

 Important

- ☐ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Setting up options

- 1** Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.
- 2** Select the icon of the printer you want to use by clicking it.
- 3** On the [File] menu, click [Properties].
The Printer Properties appears.
- 4** Click the [Accessories] tab.
- 5** Set up any options you have installed on your printer.
- 6** Click [OK].

Windows 3.1x - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 3.1x system:

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** From the [Program Manager], select [Run] from the [File] menu.
- 4** In the [Run] window, click [Browse...].
- 5** Select the CD-ROM drive in the [Drives] list.
- 6** Open the folder called [PCL5E] or [PCL6].
- 7** Open the folder called [WIN31_95].
- 8** Open the folder of the appropriate language for your operating system.
- 9** Open the folder called [DISK1].
- 10** Select the file titled [SETUP.EXE].
- 11** Click [OK].
- 12** Click [OK].
- 13** Follow the instructions on the screen.
- 14** If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.

Important

- ☐ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Setting up options

- 1** From the [Main] group of the [Program Manager], open [Control Panel] by double-clicking it.
- 2** Double-click the [Printers] icon.
- 3** In the [Installed Printers] list box, click the name of the printer you want to use so its name is highlighted.
- 4** Click [Setup].
- 5** Click the [Accessories] tab.
- 6** Set up any options you have installed on your printer.
- 7** Click [OK].
- 8** Click [Close] to close the [Printers] dialog.

Windows NT4.0 - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Limitation

- ☐ Installing the printer driver requires full control access rights. To install the printer driver, log on as an Administrator or a Power Users group member.

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** Click [Start] on the task bar.
- 4** Click [Run].
- 5** In the [Run] window, click [Browse].
- 6** Select the CD-ROM drive.
- 7** Open the folder called [PCL5E] or [PCL6].
- 8** Open the folder called [NT4].
- 9** Open the folder of the appropriate language for your operating system.
- 10** Open the folder called [DISK1].
- 11** Select the file titled [SETUP.EXE].
- 12** Click [Open].
- 13** Click [OK].
- 14** Follow the instructions on the screen.
- 15** If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.
- 16** Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.
- 17** Select the icon of the printer you installed by clicking it.
- 18** On the [File] menu, click [Properties].
- 19** On the [General] tab, click [Print Test Page].

 Important

- ☐ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Setting up options

- 1** Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Properties]**.
The **[Printers]** window appears.
- 2** Select the icon of the printer you want to use by clicking it.
- 3** On the **[File]** menu, click **[Properties]**.
The Printer Properties appears.
- 4** Click the **[Accessories]** tab.
- 5** Set up any options you have installed on your printer.
- 6** Click **[OK]**.

Uninstalling the PCL 6/5e Printer Driver

This section provides basic procedures for uninstalling the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow one of the procedures below.

Windows 95/98 - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** Click [Start] on the task bar.
- 4** Click [Run].
- 5** In the [Run] window, click [Browse].
- 6** Select the CD-ROM drive.
- 7** Open the folder called [PCL5E] or [PCL6].
- 8** Open the folder called [WIN31_95].
- 9** Open the folder of the appropriate language for your operating system.
- 10** Open the folder called [DISK1].
- 11** Select the file titled [UNSETUP.EXE].
- 12** Click [Open].
- 13** Click [OK].
- 14** Follow the instructions on the screen.
- 15** If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the uninstallation.

Windows 3.1x - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the PCL 6/5e printer driver:

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.

- 3** From the [Program Manager], select [Run] from the [File] menu.
- 4** In the [Run] window, click [Browse...].
- 5** Select the CD-ROM drive in the [Drives] list.
- 6** Open the folder called [PCL5E] or [PCL6].
- 7** Open the folder called [WIN31_95].
- 8** Open the folder of the appropriate language for your operating system.
- 9** Open the folder called [DISK1].
- 10** Select the file titled [UNSETUP.EXE].
- 11** Click [OK].
- 12** Click [OK].
- 13** Follow the instructions on the screen.
- 14** If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the uninstallation.

Windows NT4.0 - Uninstalling the PCL 6/5e Printer Driver

Limitation

- ☐ Uninstalling the printer driver requires full control access rights. To uninstall the printer driver, log on as an Administrator or a Power Users group member.

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** Click [Start] on the task bar.
- 4** Click [Run].
- 5** In the [Run] window, click [Browse].
- 6** Select the CD-ROM drive.
- 7** Open the folder called [PCL5E] or [PCL6].
- 8** Open the folder called [NT4].
- 9** Open the folder of the appropriate language for your operating system.
- 10** Open the folder called [DISK1].

- 11** Select the file titled [UNSETUP.EXE].
- 12** Click [Open].
- 13** Click [OK].
- 14** Follow the instructions on the screen.
- 15** If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.

6. Installing the PostScript Printer Driver

Installing the PostScript Printer Driver

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system. Follow the right one of the procedures below.

Important

- ☐ When updating the printer driver by installing the latest version, you should uninstall that of former version, if any.

Windows 95/98 - Installing the PostScript Printer Driver

Installing the printer driver

Important

- ☐ The Windows 95 or Windows 98 operating system CD-ROM or diskettes are required for installation.
- ☐ Be sure to install the PPD file for Windows 95/98. Do not install the PPD file for Windows NT4.0 accidentally.

1 Close all applications that are currently running.

2 Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window opens.

3 Double-click [Add Printers] icon.
The [Add Printer Wizard] starts up.

4 Click [Next].

5 Check [Local Printer], and click [Next].
A dialog for selecting the printer manufacturer and model name appears.

6 Click [Have Disk].
A dialog for installing the driver from a disk opens.

7 Insert the CD-ROM that comes with your printer into your computer's CD-ROM drive.

8 Click [Browse].

9 Use the [Drives:] list box to select the CD-ROM drive.

- 10** In the **[Folders:]** box, double-click **[PS]** and **[WIN95]**. Then double-click the folder of the appropriate language for your operating system. Finally, click **[OK]**.
- 11** Click **[OK]**.
- 12** Select the name of the printer whose driver you want to install by clicking it, and then click **[Next]**.
- 13** In the **[Available ports:]** box, select **[Printer Port]** by clicking it, and then click **[Next]**.
- 14** Change the name of the printer, if you want, and then click **[Next]**.
- 15** Specify whether or not you want to print a test page, and then click **[Finish]**.
- 16** If you are asked to insert the Windows 95/98 system disk, insert it into your computer, and then click **[OK]**.
- 17** If you are asked to specify the location of the required file for Windows 95/98, do the following:
 - Select the folder **[WIN95]** or **[WIN98]** in the system disk.
 - Move to the folder where Windows is installed. Then, select the appropriate folder. The location of the appropriate folder may differ depending on the version of your operating system. The following are examples:
[WINDOWS\SYSTEM\OPTION\CABS]
[WINDOWS\OPTION\CABS]
- 18** If you are asked if you want to restart Windows, select **[Yes]**. If you are not asked, restart Windows after completing the installation.

Important

- ☐ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Using the printer driver with the Adobe PageMaker for Windows 95/98

If you use the printer under Windows 95/98 with the Adobe PageMaker, you need to copy the PPD file to the PageMaker folder.

The PPD file is the file with extension ".ppd" under on the folder \PS\WIN95\ENGLISH\, on the CD-ROM that comes with your printer. The last folder, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's folder.

For PageMaker 6 default installation, the folder is "C:\PM6\RSRC\PPD4", and for PageMaker 6.5 default installation, the folder is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Setting up options

- 1** Click [Start] on the task bar, point to [Settings], and then click [Printers].

The [Printers] window appears.

- 2** Select the icon of the printer you want to use by clicking it.

- 3** On the [File] menu, click [Properties].

The Printer Properties appears.

- 4** Click the [Device Options] tab.

- 5** In the [Installable Options] group, select the option you have installed to your printer.

The current setting is displayed in the [Change setting for:] list box.

- 6** Use the [Change setting for:] list box to select the appropriate setting for the selected option.

- 7** Click [Apply] to apply the settings you made.

- 8** Repeat steps **5**–**7** for all options.

- 9** After making all settings for options, click [OK].

Windows NT4.0 - Installing the PostScript Printer Driver

Installing the printer driver

Limitation

- ☐ Installing the printer driver requires full control access rights. To install the printer driver, log on as an Administrator or a Power Users group member.

Important

- ☐ The CD-ROM containing the Windows NT Server network operating system Version 4.0, or the Windows NT Workstation operating system is required for installing the printer driver.
- ☐ We recommend that you upgrade your Windows NT4.0 operating system to the latest version before installing the printer driver. Contact your Windows retailer for details about the latest version available.
- ☐ Be sure to install the PPD file for Windows NT4.0. Do not accidentally install the PPD file for Windows 95/98.

6

1 Close all applications that are currently running.

2 Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Printers]**.
The **[Printers]** window opens.

3 Double-click the **[Add Printers]** icon.
The **[Add Printer Wizard]** starts up.

4 After confirming the **[My Computer]** option is selected, click **[Next]**.
A dialog for selecting the printer port appears.

5 Check the check box of the port you want to use, and then click **[Next]**.
A dialog for selecting the printer manufacturer and model appears.

6 Click **[Have Disk]**.
A dialog for installing the driver from a disk appears.

7 Insert the CD-ROM that comes with your printer into your computer's CD-ROM drive.

8 Change the drive name in the list box to the name of the CD-ROM drive, and then click **[Browse]**.

9 In the **[Folders:]** box, double-click **[PS]** and **[WINNT4]**. Then double-click the folder of the appropriate language for your operating system. Finally, click **[Open]**.

10 Click [OK].

A printer model selection dialog appears.

11 Select the name of the printer whose driver you want to install by clicking it, and then click [Next].

A dialog for changing the printer name appears.

12 Change the name of the printer, if you want, and then click [Next].**13** Click [Next].**14** In the next dialog asking if you want to print a test page, select [No] and then click [Finish].

The installer copies the printer driver files from the CD-ROM to your computer's hard disk.

 Note

- ☐ Perform a test print after completing installation and restarting Windows.

15 If you are asked to insert the Windows NT4.0 system disk, insert it into your computer, and then click [OK].**16** If you are asked to specify the drive of the system disk, specify the drive of the Windows NT4.0 system disk.**17** If you are asked to specify the location of the required file, select the appropriate folder. The location of the appropriate folder may differ depending on the version of your operating system. The following is an example:

- folder named [i386] of the Windows NT4.0 system disk.

After installation is completed, the [Printers] window appears with the icon of the newly installed printer.

18 If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation. **Important**

- ☐ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

 Using the printer driver with the Adobe PageMaker for Windows NT4.0

If you use the printer under Windows NT4.0 with the Adobe PageMaker, you need to copy the PPD file to the PageMaker folder.

The PPD file is the file with extension ".ppd" under on the folder \PS\WINNT4\ENGLISH\, on the CD-ROM that comes with your printer. The

last folder, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's folder.

For PageMaker 6 default installation, the folder is "C:\PM6\RSRC\PPD4", and for PageMaker 6.5 default installation, the folder is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.



Setting up options

1 Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window opens.

2 Select the icon of the printer you want to use by clicking it.

3 On the **[File]** menu, click **[Properties]**.

The Printer Properties appears.

4 Click **[Device Settings]** tab.

5 Under **[Installable Options]**, select the option you have installed to your printer.

The current setting is displayed in the **[Change Setting]** box in the lower part of the tab.

6 Use the **[Change Setting]** list to select the appropriate setting for the selected option.

7 Repeat steps **5–6** for all options.

8 After making all settings for options, click **[OK]**.

Macintosh - Installing the PPD File

You can use the LaserWriter printer driver that comes with your Macintosh when printing from a Macintosh. However, if you use the LaserWriter driver alone, you cannot use the printer specific functions. The printer specific functions can be used by installing the PPD file.

Note

- ☐ The LaserWriter printer driver for Macintosh does not come with this printer. Use the appropriate printer driver that comes with the Macintosh you are using.
- ☐ See the documentation that comes with your operating system for details on the functions of the LaserWriter 8 printer driver.

Installing the PPD File

- 1** Start up your Macintosh.
- 2** Double-click the icon of your Macintosh hard disk to open it.
- 3** Open the [Extensions] folder inside the [System Folder] by double-clicking it.
- 4** Insert the CD-ROM that comes with the printer into the CD-ROM drive of your Macintosh.
The icon of the CD-ROM appears.
- 5** Double-click the CD-ROM icon.
The contents of the CD-ROM are displayed.
- 6** Double-click the [Printer Descriptions] folder of the CD-ROM, and then double-click the folder having the appropriate language name to open it.
- 7** Drag the PPD file for your printer and drop it into the [Printer Descriptions] folder inside the [Extensions] folder on your Macintosh hard disk.
The PPD file is installed.
- 8** Drag the CD-ROM icon and drop it into [Trash] to eject the CD-ROM.
This completes PPD file installation.

Setting up the PPD file

Preparation

Confirm that the printer is connected to an AppleTalk network before performing the following procedure.

- 1** On the Apple menu, select [Chooser].
- 2** Click the [LaserWriter 8] icon.
- 3** In the [Select a PostScript Printer] list, select the name of the printer you want to use by clicking it.
- 4** Click [Create].
- 5** Select the printer you want to use by clicking it, and then click [Select].

The PPD file is set up, and the LaserWriter 8 icon appears at the left of the printer name in the list. Next, use the procedure on P.44 “*Setting up options*” to make the option settings, or close the [Chooser] dialog.

Setting up options

- 1** On the Apple menu, select **[Chooser]**.
- 2** Click the **[LaserWriter 8]** icon.
- 3** In the **[Select the PostScript Printer]** list, select the name of the printer you want to use by clicking it, and then click **[Setup]**.
- 4** Click **[Configure]**.

A list of options appears.

- 5** Select the option you want to set up and select the appropriate setting for it.

 Note

- ☐ If the option you want to set up is not displayed, the PPD file might not be set up correctly. Check the name of the PPD file shown in the dialog.

- 6** Click **[OK]**.

The list of options closes.

6

- 7** Click **[OK]**.

The **[Chooser]** dialog appears.

- 8** Close the **[Chooser]** dialog.

Uninstalling the PostScript Printer Driver

Windows 95/98 - Uninstalling the PostScript Printer Driver

- 1** Close all applications that are currently running.
 - 2** Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.
 - 3** Select the icon of the printer you want to remove by clicking it.
 - 4** On the [File] menu, click [Delete].
-

Windows NT4.0 - Uninstalling the PostScript Printer Driver

- 1** Close all applications that are currently running.
- 2** Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.
- 3** Select the icon of the printer you want to remove by clicking it.
- 4** On the [File] menu, click [Delete].

7. Installing the Font Manager

Installing the Font Manager

Printing under a Windows system using PCL 6 or PCL 5e requires installation of the Font Manager for your operating system. This section provides basic procedures for installing the Font Manager.

The actual procedure differs somewhat depending on your operating system. Follow the right one of the procedures below.

Windows 95/98 - Installing the Font Manager

- 1** Insert the CD that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** Click [Start] on the task bar.
- 4** Click [Run].
- 5** In the [Run] window, click [Browse].
- 6** Select the CD-ROM Drive.
- 7** Open the folder called [FONTMAN].
- 8** Select the file titled [SETUP.EXE].
- 9** Click [Open].
- 10** Click [OK].
- 11** Follow the instructions on the screen.

Windows 3.1x - Installing the Font Manager

- 1** Insert the CD that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** From the [Program Manager], select [Run] from the [File] menu.
- 4** In the [Run] window, click [Browse...].
- 5** Select the CD-ROM Drive in the Drives list.

- 6** Open the folder called [FONTMAN].
- 7** Open the file titled [SETUP.EXE].
- 8** Click [OK].
- 9** Follow the instructions on the screen.

Windows NT4.0 - Installing the Font Manager

- 1** Insert the CD-ROM that comes with your printer in the CD-ROM drive.
- 2** Close all applications that are currently running.
- 3** Click [Start] on the task bar.
- 4** Click [Run].
- 5** In the [Run] window, click [Browse].
- 6** Select the CD-ROM Drive.
- 7** Open the folder called [FONTMAN].
- 8** Select the file titled [SETUP.EXE].
- 9** Click [Open].
- 10** Click [OK].
- 11** Follow the instructions on the screen.

Uninstalling the Font Manager

This section provides basic procedures for uninstalling the Font Manager. The actual procedure differs somewhat depending on your operating system.

Follow one of the procedures below.

Windows 95/98 - Uninstalling the Font Manager

- 1** Click [Start] on the task bar.
- 2** Point to [Settings] and click [Control Panel].
- 3** Double-click the icon titled [Add/Remove Programs].
- 4** Click [AGFA Font Manager] in the list box.
- 5** Click [Add/Remove].
A confirmation dialog box appears.
- 6** Click [Yes].
- 7** Follow the instructions on the screen.

Windows 3.1x - Uninstalling the Font Manager

- 1** Open the AGFA Font Manager window in the Program Manager.
- 2** Double-click [UnInstallShield].
- 3** Follow the instructions on the screen.

Windows NT4.0 - Uninstalling the Font Manager

- 1** Click [Start] on the task bar.
- 2** Point to [Settings] and click [Control Panel].
- 3** Double-click the icon titled [Add/Remove Programs].
- 4** Click [AGFA Font Manager] in the list box.
- 5** Click [Add/Remove].
A confirmation dialog box appears.
- 6** Click [Yes].
- 7** Follow the instructions on the screen.

8. Printing a Document

PCL 6/5e - Accessing the Printer Properties

Windows 95/98 - Accessing the Printer Properties

There are two methods you can use to open the Printer Properties.

Making printer default settings

To make the printer default settings, first open the **[Printer Properties]** dialog from the **[Printers]** window.

 Note

- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.

1 Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Select the icon of the printer whose default settings you want to change by clicking it.

3 On the **[File]** menu, click **[Properties]**.

4 Make your settings and click **[OK]**.

Making printer settings for a specific application

To make the printer settings for a specific application, open the **[Printer Properties]** dialog from that application. The following example describes how to make settings for the WordPad application that comes with Windows 95.

 Note

- ☐ The actual procedures you should follow to open the **[Printer Properties]** differs slightly depending on the application. For details, see the documentation that comes with the application you are using.
- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.
- ☐ Any settings you make in the following procedure are valid for the current application only.

1 On the **[File]** menu, click **[Print]**.

The **[Print]** dialog appears.

- 2** Select the printer you want to use from the [Name] list box, and then click [Properties].

The Printer Properties appears.

- 3** Make your settings, and click [OK].

- 4** Click [OK] to start your printing.

Windows 3.1x - Accessing the Printer Setting Dialog

There are two methods you can use to open the Printer Setting dialog.

Making printer default settings

To make the printer default settings, open the printer settings dialog from [Control Panel].

Note

- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.

- 1** From the [Main] group of the [Program Manager], open [Control Panel] by double-clicking it.

- 2** Double-click the [Printers] icon.

- 3** In the [Installed Printers] list box, click the name of the printer you want to set up.

- 4** Click [Setup].

- 5** Make your settings and click [OK].

- 6** Click [Close] to close the [Printers] dialog.

Making printer settings for a specific application

To make the printer settings for a specific application, open the printer setting dialog from that application. The following example describes how to make settings for the Write application that comes with Windows 3.1x.

Note

- ☐ The actual procedures you should follow to open the **[Printer Properties]** differs slightly depending on the application. For details, see the documentation that comes with the application you are using.
- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.
- ☐ Any settings you make in the following procedure are valid for the current application only.

1 On the **[File]** menu, click **[Print Setup]**.

This opens the **[Print Setup]** dialog.

2 In the **[Printer]** group, select the printer you want to use.

Note

- ☐ If the printer you want to use is not specified as the default printer, click **[Specific Printer]** and then find the printer you want to use in the list box.

3 Click **[Options]**.

This opens the printer driver's properties.

4 Make your settings, and click **[OK]**.

5 Click **[OK]** to close the **[Print Setup]** dialog.

6 Start your printing operation.

Windows NT4.0 - Accessing the Printer Properties

Making printer default settings - Printer Properties

Limitation

- ☐ Changing the settings of the Printer Properties requires full control access rights. Log on as an Administrator or a Power Users group member.

1 Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Printers]**.

This opens the **[Printers]** window.

2 Select the icon of the printer you want to use by clicking it.

3 On the **[File]** menu, click **[Properties]**.

The Printer Properties appears.

4 Make your settings and click **[OK]**.

Note

- ☐ Setting you make here are used as the default settings for all applications.

Making printer default settings – Default Document Properties

Limitation

- ☐ Changing the settings of the Default Document Properties requires full control access rights. Log on as an Administrator or a Power Users group member.

1 Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window opens.

2 Select the icon of the printer you want to use by clicking it.

3 On the **[File]** menu, click **[Document Defaults]**.

The Default Document Properties appears.

4 Make your settings and click **[OK]**.

Note

- ☐ Settings you make here are used as the default settings for all applications.

Making printer settings for a specific application

To make the printer settings for a specific application, open the **[Document Properties]** dialog from that application. The following example describes how to make settings for the WordPad application that comes with Windows NT4.0.

Note

- ☐ The actual procedures you should follow to open the **[Document Properties]** differs slightly depending on the application. For details, see the documentation that comes with the application you are using.
- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.
- ☐ Any settings you make in the following procedure are valid for the current application only.

1 On the **[File]** menu, click **[Print]**.

The **[Print]** dialog appears.

- 2** Select the printer you want to use from the [Name] list box, and then click [Properties].

The Document Properties appears.

- 3** Make your settings, and click [OK].

- 4** Click [OK] to start your printing.

PostScript - Setting Up for Printing

Windows 95/98 - Accessing the Printer Properties

There are two methods you can use to open the Printer Properties.

Making printer default settings

To make the printer default settings, first open the **[Printer Properties]** dialog from the **[Printers]** window.

Note

- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.

1 Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

2 Select the icon of the printer whose default settings you want to change by clicking it.

3 On the **[File]** menu, click **[Properties]**.

The Printer Properties appears.

4 Make your settings and click **[OK]**.

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Making printer settings for a specific application

To make the printer settings for a specific application, open the **[Printer Properties]** dialog from that application. The following example describes how to make settings for the WordPad application that comes with Windows 95.

Note

- ☐ The actual procedures you should follow to open the **[Printer Properties]** differs slightly depending on the application. For details, see the documentation that comes with the application you are using.
- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.
- ☐ Any settings you make in the following procedure are valid for the current application only.

1 On the **[File]** menu, click **[Print]**.

The **[Print]** dialog appears.

- 2** Select the printer you want to use from the [Name] list box, and then click [Properties].

The Printer Properties appears.

- 3** Make your settings, and click [OK].

- 4** Click [OK] to start your printing.

Windows NT4.0 - Accessing the Printer Properties

Making printer default settings - Printer Properties

Limitation

- ☐ Changing the settings of the Printer Properties requires full control access rights. Log on as an Administrator or a Power Users group member.

- 1** Click [Start] on the task bar, point to [Settings], and then click [Printers].

This open the [Printers] window.

- 2** Select the icon of the printer you want to use by clicking it.

- 3** On the [File] menu, click [Properties].

The Printer Properties appears.

- 4** Make your settings and click [OK].

Note

- ☐ Setting you make here are used as the default settings for all applications.

Making printer default settings - Default Document Properties

Limitation

- ☐ Changing the settings of the Default Document Properties requires full control access rights. Log on as an Administrator or a Power Users group member.

- 1** Click [Start] on the task bar, point to [Settings], and then click [Printers].

This open the [Printers] window.

- 2** Select the icon of the printer you want to use by clicking it.

- 3** On the [File] menu, click [Document Defaults].

The Default Document Properties appears.

4 Make your settings and click [OK].



Note

- ☐ Settings you make here are used as the default settings for all applications.

Making printer settings for a specific application

To make the printer settings for a specific application, open the **[Document Properties]** dialog from that application. The following example describes how to make settings for the WordPad application that comes with Windows NT4.0.



Note

- ☐ The actual procedures you should follow to open the **[Printer Properties]** differs slightly depending on the application. For details, see the documentation that comes with the application you are using.
- ☐ With some applications, the printer driver's settings are not used, and the application's own initial default settings are applied.
- ☐ Any settings you make in the following procedure are valid for the current application only.

1 On the [File] menu, click [Print].

The **[Print]** dialog appears.

2 Select the printer you want to use from the [Name] list box, and then click [Properties].

The Document Properties appears.

3 Make your settings, and click [OK].

4 Click [OK] to start your printing.

Macintosh - Setting Up for Printing

Making paper settings from an application

1 Open the file you want to print.

2 On the [File] menu, click [Page Setup].

The **[LaserWriter 8 Page Setup]** dialog opens.

3 Make sure that the printer you want to use is shown in [Format for:]. Then, use [Paper] to select the paper size your want to use.

 Note

- ☐ If your printer is now shown in the **[Format for:]** box, use the pop-up menu to display a list of available printers.

 Reference

The actual appearance of the **[Page Setup]** dialog depends on the application you are using. See the documentation that comes with your Macintosh for details.

- 4** After all the settings are the way you want, click **[OK]**.

Setting up for printing from an application

- 1** Open the file you want to print.
- 2** On the **[File]** menu, click **[Print]**.
The **[Printer]** dialog opens.
- 3** Make sure that your printer is selected in the **[Printer]** box, make the printer settings you want.
- 4** After the settings are the way you want, click **[Print]**.

Canceling a Print Job

Windows 95/98 - Canceling Print Job

1 Double-click the printer icon on the Windows Task Bar.

This opens a window that shows all the print jobs that are currently queued for printing. Check the current status of the job you want to cancel.

2 Click the name of the job you want to cancel so it is highlighted.

3 On the [Document] menu, click [Cancel Printing].

Note

- ☐ You can also open the print job queue window by double-clicking the printer icon in the [Printer] window.

4 Press the printer's [Job Reset].

The message appears on the operation panel display indicating that the print job is being cancelled.

Important

- ☐ The above procedure cancels the print job that is currently being processed by the printer. In some cases, the printer may already be processing data for the next print job following the one currently being output. In such a case, the next print job is also canceled when you press [Job Reset] key.
- ☐ When your printer is being shared by multiple computers, make sure you do not accidentally cancel someone else's print job.

Note

- ☐ You cannot stop printing data that has already been processed internally by the printer. Because of this, printing may continue for a few pages after you press [Job Reset].
- ☐ A print job that contains a large volume of data may take considerable time to stop.

Windows 3.1x - Canceling a Print Job

1 In the [Main] group, double-click the [Print Manager] icon.

This opens a window that shows all the print jobs that are currently queued for printing.

2 Click the name of the job you want to cancel so it is highlighted.

3 On the [Document] menu, click [Delete Document].

4 Click **[Close]** to close the dialog.

5 Press the printer's **[Job Reset]**.

The message appears on the operation panel display indicating that the print job is being cancelled.

Important

- ☐ The above procedure cancels the print job that is currently being processed by the printer. In some cases, the printer may already be processing data for the next print job following the one currently being output. In such a case, the next print job is also canceled when you press **[Job Reset]**.
- ☐ When your printer is being shared by multiple computers, make sure you do not accidentally cancel someone else's print job.

Note

- ☐ You cannot stop printing data that has already been processed internally by the printer. Because of this, printing may continue for a few pages after you press **[Job Reset]**.
- ☐ A print job that contains a large volume of data may take considerable time to stop.

Windows NT4.0 - Canceling a Print Job

1 Double-click the printer icon on the Windows Task Bar.

This opens a window that shows all the print jobs that are currently queued for printing. Check the current status of the job you want to cancel.

2 Click the name of the job you want to cancel so it is highlighted.

3 On the **[Document]** menu, click **[Cancel Printing]**.

Note

- ☐ You can also open the print job queue window by double-clicking the printer icon in the **[Printer]** window.

4 Press the printer's **[Job Reset]**.

The message appears on the operation panel display indicating that the print job is being cancelled.

Important

- ☐ The above procedure cancels the print job that is currently being processed by the printer. In some cases, the printer may already be processing data for the next print job following the one currently being output. In such a case, the next print job is also canceled when you press **[Job Reset]** key.
- ☐ When your printer is being shared by multiple computers, make sure you do not accidentally cancel someone else's print job.

 Note

- ☐ You cannot stop printing data that has already been processed internally by the printer. Because of this, printing may continue for a few pages after you press **【Job Reset】**.
- ☐ A print job that contains a large volume of data may take considerable time to stop.

9. Paper and Other Media

Paper and Other Media Supported by Your Printer

Paper Types and Sizes

This section provides the type, size, feed direction, and maximum capacity of paper that can be loaded into each paper tray in this printer.

Important

- ❑ If you use damp or curled paper, a misfeed might occur. In such a case, try turning over the paper stack in the paper tray. If there is no improvement, change to paper with less curl.

Note

- ❑ The meaning of the symbols describing paper can be seen in the table below.

In this manual	On the panel display	Meaning
		short-edge feed direction
		long-edge feed direction

- ❑ It is recommended that you load paper having the size and direction you frequently use in the tray selected with the “Tray Priority”. For details on Tray Priority, see P.125 “*Job Control Parameters*”.
- ❑ When loading paper having the same size in more than one tray, it is recommended that you load paper in the same direction.

Reference

For details on loading each type of paper, see P.77 “*Type 1 Printer: Loading Paper and Other Media*”, and P.86 “*Type 2 Printer: Loading Paper and Other Media*”.

Type 1 Printer

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ❑ Be sure to set the paper size dial to match the actual paper size loaded in the tray. When the actual paper size is not shown on the dial, set the dial to “✱” and specify the paper size using the operation panel.

- ❑ For Tray 1, 2 and 3, the dial setting overrides the setting made with the operation panel.
- ❑ The envelope feeder requires the installation of the optional paper unit. When one optional paper unit is installed, the envelope feeder can be exchanged with Tray 2. When two optional paper units are installed, it can be exchanged with Tray 2, not with Tray 3.

Note

- ❑ The supported paper size varies somewhat depending on the memory size of your printer. ⇒ P.153 “Memory Capacity and Paper Size”
- ❑ Regarding the meanings of the abbreviations, see the notes at the bottom of each table.

◆ Type 1 Printer: Paper Sizes (Metric version)

	Feed direction	Size (mm)	Bypass Tray	Standard Tray (Tray1)	Paper Feed Unit (A4) Type 2000 (Tray2/3)	Paper Feed Unit (A3) Type 2000 (Tray2/3)	Envelope Feeder Type 2000
A3		297 × 420	○	☆	X	☆	X
B4 JIS		257 × 364	○	★	X	★	X
A4		210 × 297	○	☆	☆	☆	X
		297 × 210	○	☆	☆	☆	X
B5 JIS		182 × 257	○	X	X	X	X
		257 × 182	○	★	★	★	X
A5		148 × 210	○	X	X	X	X
		210 × 148	○	☆	☆	☆	X
B6 JIS		128 × 182	○	X	X	X	X
Double Letter (DLT, 11" × 17")		279 × 432	○	★	X	★	X
Legal (LG, 8 ¹ / ₂ " × 14")		216 × 356	○	★	X	★	X
		216 × 279	○	★	★	★	X
Letter (LT, 8 ¹ / ₂ " × 11")		279 × 216	○	☆	☆	☆	X
		140 × 216	○	X	X	X	X
Half Letter (HLT, 5 ¹ / ₂ " × 8 ¹ / ₂ ")							

	Feed direction	Size (mm)	Bypass Tray	Standard Tray (Tray1)	Paper Feed Unit (A4) Type 2000 (Tray2/3)	Paper Feed Unit (A3) Type 2000 (Tray2/3)	Envelope Feeder Type 2000
Executive (Exec., $7\frac{1}{4}" \times 10\frac{1}{2}"$)		184×276	○	X	X	X	X
		276×184	○	★	★	★	X
Folio ($8\frac{1}{4}" \times 13"$)		210×330	○	★	★	★	X
Foolscap (F4, $8\frac{1}{2}" \times 13"$)		216×330	○	☆	☆	☆	X
F/GL ($8" \times 13"$)		203×330	○	★	★	★	X
Com#10 Env ($4\frac{1}{8}" \times 9\frac{1}{2}"$)		104.8×241.3	○	X	X	X	○
C6 Env (4.49" 6.38")		114×162	○	X	X	X	○
DL Env ($4.33" \times 8.66"$)		110×220	○	X	X	X	○
Monarch Env ($3\frac{7}{8}" \times 7\frac{1}{2}"$)		98.4×190.5	○	X	X	X	○
Custom Size (PCL 6/PS only)	—	—	○*	X	X	X	X

- means that the size is supported and needs to specify the paper size using the operation panel. (Regarding the bypass tray and envelope feeder, there is no dial on the tray.)
- ☆ means that the size is supported and indicated on the tray dial. Be sure to set the paper size dial to match the actual paper size loaded in the tray.
- ★ means that the size is supported but not indicated on the tray dial. You should set the tray dial to “✱”, and specify the paper size using the operation panel.
- * means that the supported size is approximately 98.4 - 297 mm in width, and approximately 148 - 431.8 mm in length. The supported size may differ depending on the printer language you use. Use the printer driver to specify the custom size. Set the custom size setting with the operation panel.
- X means that the size is not supported.

◆ Type 1 Printer: Paper Sizes (Inch version)

	Feed direction	Size (inch)	Bypass Tray	Standard Tray (Tray1)	Paper Feed Unit (LT) Type 2000 (Tray2/3)	Paper Feed Unit (DLT) Type 2000 (Tray2/3)	Envelope Feeder Type 2000
Double Letter (DLT)		11" × 17"	○	☆	X	☆	X
Legal (LG)		8 ¹ / ₂ " × 14"	○	☆	X	☆	X
Letter (LT)		8 ¹ / ₂ " × 11"	○	☆	☆	☆	X
		11" × 8 ¹ / ₂ "	○	☆	☆	☆	X
Half Letter (HLT)		5 ¹ / ₂ " × 8 ¹ / ₂ "	○	X	X	X	X
Executive (Exec.)		7 ¹ / ₄ " × 10 ¹ / ₂ "	○	X	X	X	X
		10 ¹ / ₂ " × 7 ¹ / ₄ "	○	★	★	★	X
A3		11.26" × 16.54"	○	★	X	★	X
B4 JIS		10.12" × 14.33"	○	★	X	★	X
A4		8.26" × 5.83"	○	★	★	★	X
		5.83" × 8.26"	○	☆	☆	☆	X
B5 JIS		7.17" × 10.12"	○	X	X	X	X
		10.12" × 7.17"	○	★	★	★	X
A5		5.83" × 8.26"	○	X	X	X	X
		8.26" × 5.83"	○	★	★	★	X
B6 JIS		5.04" × 7.17"	○	X	X	X	X
Folio		8 ¹ / ₄ " × 13"	○	★	★	★	X
Foolscap F4		8 ¹ / ₂ " × 13"	○	☆	☆	☆	X
F/GL		8" × 13"	○	★	★	★	X
Com#10 Env		4 ¹ / ₈ " × 9 ¹ / ₂ "	○	X	X	X	○
C6 Env		4.49" × 6.38"	○	X	X	X	○
DL Env		4.33" × 8.66"	○	X	X	X	○
Monarch Env		3 ⁷ / ₈ " × 7 ¹ / ₂ "	○	X	X	X	○
Custom Size (PCL 6/PS only)	—	—	○*	X	X	X	X

- ○ means that the size is supported and needs to specify the paper size using the operation panel. (Regarding the bypass tray and envelope feeder, there is no dial on the tray.)
- ☆ means that the size is supported and indicated on the tray dial. Be sure to set the paper size dial to match the actual paper size loaded in the tray.
- ★ means that the size is supported but not indicated on the tray dial. You should set the tray dial to “✱”, and specify the paper size using the operation panel.
- ○* means that the supported size is approximately 3.88" - 11.69" in width, and approximately 5.83" - 17.00" in length. The supported size may differ depending on the printer language you use. Use the printer driver to specify the custom size. Set the custom size setting with the operation panel.
- X means that the size is not supported.

❖ Paper weight and number of sheets to be set

	Supported paper weight	Maximum number of sheets (plain paper) * ¹
Standard Tray	60 - 90 g / m ² (16 - 24 lb)	250 (80 g / m ² , 20 lb)
Paper Feed Unit (DLT) Type 2000(option) Paper Feed Unit (A3) Type 2000 (option)	60 - 90 g / m ² (16 - 24 lb)	500 (80 g / m ² , 20 lb)
Paper Feed Unit (LT) Type 2000(option) Paper Feed Unit (A4) Type 2000 (option)	60 - 90 g / m ² (16 - 24 lb)	500 (80 g / m ² , 20 lb)
Bypass Tray	60 - 162 g / m ² (16 - 42 lb)	100 (80 g / m ² , 20 lb) For other kind of papers, ⇒ P.72 "Paper types and cautions".
Envelope Feeder Type 2000 * ²	⇒ P.72 "Paper types and cautions"	

*¹ Make sure that the top of the stack is not higher than the limit mark indicated on the side fence of the tray.

*² The envelope feeder requires the installation of the optional paper feed unit.

Type 2 Printer

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ❑ Be sure to set the paper size dial to match the actual paper size loaded in the tray.
- ❑ For Tray 1 and 2, the dial setting overrides the setting made with the operation panel.
- ❑ The envelope feeder requires the installation of the optional paper unit.
- ❑ The envelope feeder can be exchanged only with the Tray 2.

Note

- ❑ The supported paper size varies somewhat depending on the memory size of your printer. ⇒ P.153 "Memory Capacity and Paper Size"
- ❑ Regarding the meanings of the abbreviations, see the notes at the bottom of each table.

◆ Type 2 Printer: Paper Sizes (Metric version)

	Feed direction	Size (mm)	Bypass Tray	Standard Tray (Tray1)	Paper Feed Unit Type 1400 (Tray2)	Envelope Feeder Type 1400
A4		210 × 297	○	○	☆	X
B5 JIS		182 × 257	○	X	X	X
A5		148 × 210	○	X	X	X
		210 × 148	○	X	☆	X
B6 JIS		128 × 182	○	X	X	X
Legal (LG, 8 ¹ / ₂ " × 14")		216 × 356	○	X	X	X
Letter (LT, 8 ¹ / ₂ " × 11")		216 × 279	○	X	☆	X
Half Letter (HLT, 5 ¹ / ₂ " × 8 ¹ / ₂ ")		140 × 216	○	X	X	X
Executive (Exec., 7 ¹ / ₄ " × 10 ¹ / ₂ ")		184 × 276	○	X	☆	X
Folio (8 ¹ / ₄ " × 13")		210 × 330	○	X	X	X
Foolscap (F4, 8 ¹ / ₂ " × 13")		216 × 330	○	X	X	X
F / GL (8" × 13")		203 × 330	○	X	X	X
Com#10 Env (4 ¹ / ₈ " × 9 ¹ / ₂ ")		104.8 × 241.3	○	X	X	○
C6 Env (4.49" × 6.38")		114 × 162	○	X	X	○
DL Env (4.33" × 8.66")		110 × 220	○	X	X	○
Monarch Env (3 ⁷ / ₈ " × 7 ¹ / ₂ ")		98.4 × 190.5	○	X	X	○
Custom Size (PCL 6/ PS only)	—	—	○*	X	X	X

- means that the size is supported and needs to specify the paper size using the operation panel. (There is no dial on the tray.) However, it is not necessary to do this for the standard tray (tray 1).
- ☆ means that the size is supported and indicated on the tray dial. Be sure to set the paper size dial to match the actual paper size loaded in the tray. The dial setting overrides the setting made with the operation panel.
- * means that the supported size is approximately 98.4 - 216 mm in width, and approximately 148 - 355.6 mm in length. The supported size may differ depending on the printer language you use. Use the printer driver to specify the custom size. Set the custom size setting with the operation panel.
- X means that the size is not supported.

◆ Type 2 Printer: Paper Sizes (Inch version)

	Feed direction	Size (inch)	Bypass Tray	Standard Tray (Tray1)	Paper Feed Unit Type 1400(Tray2)	Envelope Feeder Type 1400
Legal (LG)		8 ¹ / ₂ " × 14"	○	X	X	X
Letter (LT)		8 ¹ / ₂ " × 11"	○	○	☆	X
Half Letter (HLT)		5 ¹ / ₂ " × 8 ¹ / ₂ "	○	X	X	X
Executive (Exec.)		7 ¹ / ₄ " × 10 ¹ / ₂ "	○	X	☆	X
A4		8.26" × 5.83"	○	X	☆	X
B5 JIS		7.17" × 10.12"	○	X	X	X
A5		5.83" × 8.26"	○	X	X	X
		8.26" × 5.83"	○	X	☆	X
B6 JIS		5.04" × 7.17"	○	X	X	X
Folio		8 ¹ / ₄ " × 13"	○	X	X	X
Foolscap F4		8 ¹ / ₂ " × 13"	○	X	X	X
F/GL		8" × 13"	○	X	X	X
Com#10 Env		4 ¹ / ₈ " × 9 ¹ / ₂ "	○	X	X	○
C6 Env		4.49" 6.38"	○	X	X	○
DL Env		4.33" × 8.66"	○	X	X	○
Monarch Env		3 ⁷ / ₈ " × 7 ¹ / ₂ "	○	X	X	○
Custom Size (PCL 6/PS only)	—	—	○*	X	X	X

- means that the size is supported and needs to specify the paper size using the operation panel. (There is no dial on the tray.) However, it is not necessary to do this for the standard tray (tray 1).
- ☆ means that size is supported and indicated on the tray dial. Be sure to set the paper size dial to match the actual paper size loaded in the tray. The dial setting overrides the setting made with the operation panel.
- * means that the supported size is approximately 3.88" - 8.50" in width, and approximately 5.83" - 14.00" in length. The supported size may differ depending on the printer language you use. Use the printer driver to specify the custom size. Set the custom size setting with the operation panel.
- X means that the size is not supported.

❖ Paper weight and number of sheets to be set

	Supported paper weight	Maximum number of sheets (plain paper) ^{*1}
Standard Tray	60 - 90 g / m ² (16 - 24 lb)	250 (80 g / m ² , 20 lb)
Paper Feed Unit Type 1400 (option)	60 - 90 g / m ² (16 - 24 lb)	500 (80 g / m ² , 20 lb)
Bypass Tray	60 - 162 g / m ² (16 - 42 lb)	100 (80 g / m ² , 20 lb) For other kind of papers, ⇒ P.72 "Paper types and cautions".
Envelope Feeder Type 1400 ^{*2}	⇒ P.72 "Paper types and cautions"	

^{*1} Make sure that the top of the stack is not higher than the limit mark indicated on the side fence of the tray.

^{*2} The envelope feeder requires the installation of the optional paper feed unit.

Precautions for Paper

Note the following precautions when handling or selecting paper to be used with this printer.

Cautions in loading paper

- Use only the recommended paper types. Print quality cannot be guaranteed if other paper types are used.
- Do not use paper that is already printed on.
- When loading paper into the paper tray, make sure that the top of the stack is not higher than the limit mark inside the tray.
- When loading paper onto the bypass tray, make sure that the paper fits under the side guide.
- When loading paper into the paper tray, make sure that print side is facing *up*.
- When loading paper onto the bypass tray, make sure that print side is facing *down*.

Cautions in storing paper

Paper should always be stored properly. Improperly stored paper might result in poor print quality, paper misfeeds, or printer damage.

Follow the precautions below.

- Avoid storing paper in humid areas.
- Avoid exposing paper to direct sunlight.
- Store on a flat surface.
- Keep open reams of paper in the package in which the paper came.

Paper types and cautions

❖ Plain paper

- If you print on paper heavier than 90 g / m² (24 lb), use the bypass tray. The bypass tray can hold paper up to 162 g / m² (42 lb) in weight.
- When loading paper heavier than 155 g / m² (41 lb) onto the bypass tray, set the printer to the Thick Paper mode using the operation panel. ⇒ P.121 *"Making Printer Settings with the Operation Panel"*
- If paper is curled or bent, correct it before loading.

❖ OHP transparencies

- Load only one OHP transparency at a time onto the bypass tray.
- When loading OHP transparencies onto the bypass tray, set the printer to the Thick Paper mode using the operation panel. ⇒ P.121 *"Making Printer Settings with the Operation Panel"*
- Be careful not to touch the print side of the OHP transparencies. Otherwise, the print side gets dirty or damaged, and results in poor print quality.
- When printing on an OHP transparency that has a print side, load it face down onto the bypass tray.

❖ Translucent paper

- Load only one translucent paper at a time onto the bypass tray.
- When printing on translucent paper that has a print side, load it face down onto the bypass tray.

❖ Adhesive labels

- Load only one adhesive label at a time onto the bypass tray.
- Use adhesive labels in which the whole side can be printed on.
- Avoid using adhesive labels having exposed glue.
- If the print side is coated, the print quality might be reduced, as the toner might not fuse well.

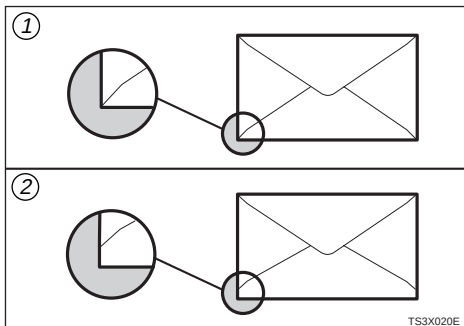
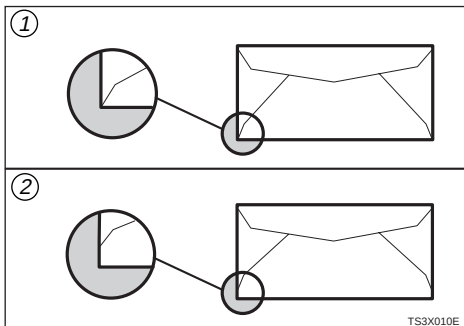
❖ Envelopes

- When printing on envelopes, use the bypass tray or the optional envelope feeder.
- Even when the optional envelope feeder is not installed, you can specify the sizes for the envelopes for tray 2 using the operation panel. However, the envelopes cannot be loaded into tray 2 without the envelope feeder. To use the envelope feeder, the installation of the optional paper unit is required. ⇒ P.16 “Type 1 Printer: Installing the Envelope Feeder Type 2000”, P.21 “Type 2 Printer: Installing the Envelope Feeder Type 1400”.
- Specification of envelopes are as follows:

	Metric version	Inch version
Weight	72 – 90 g / m ²	19 – 24 lb
Recommended weight and size	72 g / m ² , 114 × 162 mm (C6 Env)	24 lb, 3 ⁷ / ₈ " × 7 ¹ / ₂ " (Monarch)

- For the Type 1 printer, you can load up to 10 envelopes (72 – 90 g / m², 19 – 24 lb) onto the bypass tray at a time, without forcibly pressing them. However, make sure that the envelopes are not damp, and that the top of the stack is not higher than the limit mark on the side guide. ⇒ P.82 “Type 1 printer: loading envelopes onto the bypass tray”
- For the Type 2 printer, you can load up to 5 envelopes (72 – 90 g / m², 19 – 24 lb) onto the bypass tray at a time, without forcibly pressing them. However, make sure that the envelopes are not damp, and that the top of the stack is not higher than the limit mark on the side guide. ⇒ P.90 “Type 2 printer: loading envelopes onto the bypass tray”
- You can load up to 60 envelopes (72 – 90 g / m², 19 – 24 lb) into the optional envelope feeder at a time, without forcibly pressing them. However, make sure that the envelopes are not damp, and that the top of the stack is not higher than the limit mark on the side guide. ⇒ P.84 “Type 1 printer: loading envelopes into the envelope feeder” and P.92 “Type 2 printer: loading envelopes into the envelope feeder”
- Make sure that print side is facing down when loading onto the bypass tray, and facing up when loading into the optional envelope feeder.
- Load the envelopes with the flaps aligned to the left side fence. The flaps should be securely folded down.
- Make sure that there is no air in the envelopes before loading.
- To get the better print quality, it is recommended that you set the right, left, top, and bottom print margin, to at least 15 mm (0.6") each.
- Do not print on both sides of envelopes.
- Load only one size and type of envelope at a time.
- Before loading envelopes, flatten the leading edges (side being fed into the printer) of them by running a pencil or ruler across them.

- Before loading envelopes, make sure that they are rectangular in shape. Refer to the following illustrations.

Metric version	Inch version
 ① Good construction for envelopes ② Poor construction for envelopes	 ① Good construction for envelopes ② Poor construction for envelopes

- Avoid using the non-supported envelopes listed on P.74 *"Paper not supported by this printer"*.

Paper not supported by this printer

Avoid using the following types of paper that are not supported by this printer:

- Paper whose weight is heavier or lighter than the limitation. ⇒ P.63 *"Paper Types and Sizes"*
- Bent, folded, or creased paper
- Curled or twisted paper
- Torn paper
- Wrinkled paper
- Damp paper
- Paper stuck together
- Paper that is dry enough to emit static electricity
- Paper that has already been printed except preprinted letterhead

Note

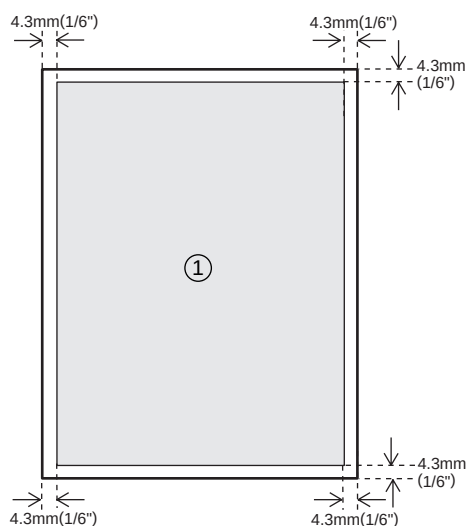
- ☐ Ink on paper from an earlier print job, another copier, an inkjet printer or other device could damage the fusing unit of this printer due to a difference in fusing temperatures.

- Coated paper (except the recommended one)
- Special paper like thermal paper, aluminum foil, carbon paper and conductive paper
- Heavily textured paper

- Glued paper
- Label paper on which glue or base paper is exposed
- Paper with clips or stapled
- Paper with tape or ribbons attached
- Envelopes in the following conditions
 - damp
 - excessively curled or twisted
 - stuck together
 - damaged in any way
 - with stamps attached
 - with windows, holes, perforations, cutouts, or embossing
 - with metal clasps, string ties, or metal folding bars
 - designed to be interlocked
 - with nicked edges or bent corners
 - with rough, cockle, or laid finishes
 - with any exposed adhesive, when the flap is in the sealed or closed position

Printable Area

The following shows the printable area for this printer. Be sure to set the print margins correctly.



① : printable area

Note

- ❑ The printable area may vary depending on paper size, printer language and printer driver settings.

Type 1 Printer: Loading Paper and Other Media

Type 1 Printer: Loading Paper in the Standard Paper Tray

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

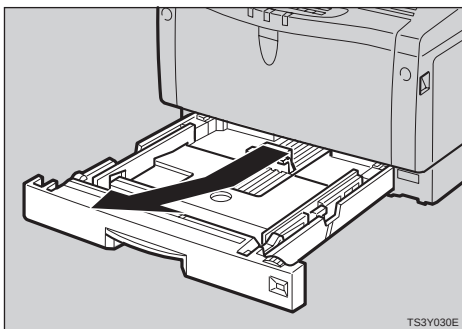
Important

- ❑ Make sure that the setting of the paper size dial matches the paper size and feed direction of the paper in the tray. Otherwise, the printer might be damaged, or printing problems might occur.

Reference

For more information on the size and feed direction of paper that can be loaded in the tray, see P.63 "Paper Types and Sizes".

- 1 Pull the paper tray out until it stops. After that, lift it slightly, then pull it out of the printer.



Note

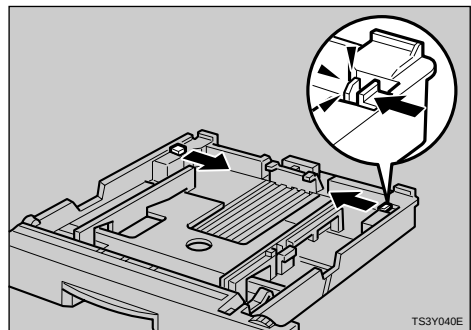
- ❑ Do not touch the three white pins on the right front side of the printer.

- 2 If you load the paper of A4, 8¹/₂" × 11" or larger, you should extend the tray as follows.

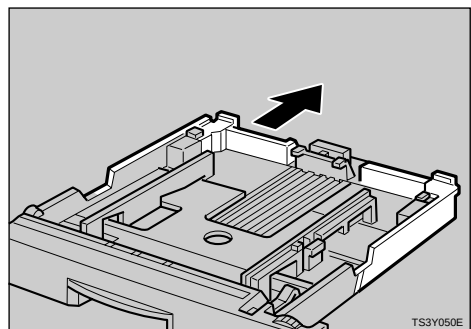
Note

- ❑ You cannot load paper smaller than A4 or 8¹/₂" × 11", if the tray is extended. In this case, return the tray to its standard length.

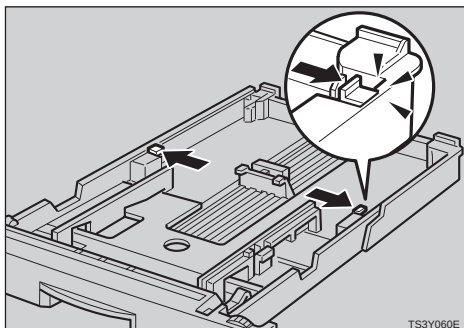
- 1 Slide the catches inwards to unlock the re-size tray.



- 2 Pull the re-size tray until it stops.



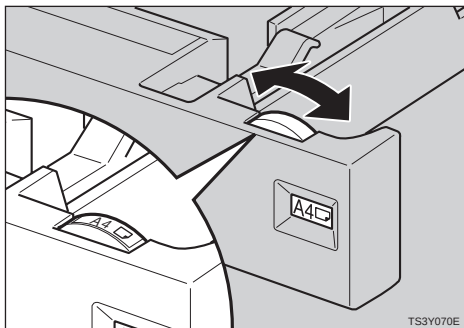
- 3** Return the catches to their original positions.



Important

- ☐ Make sure that the catches return to their original positions securely. If they are not locked securely, paper mis-feeds might occur.

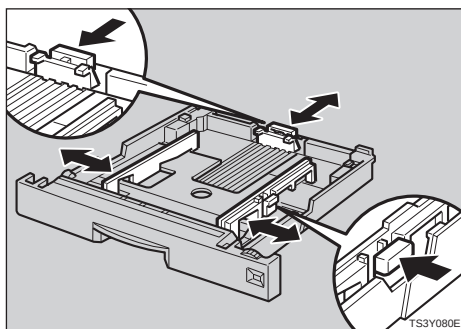
- 3** Adjust the paper size dial to match the size and feed direction of the paper in the paper tray.



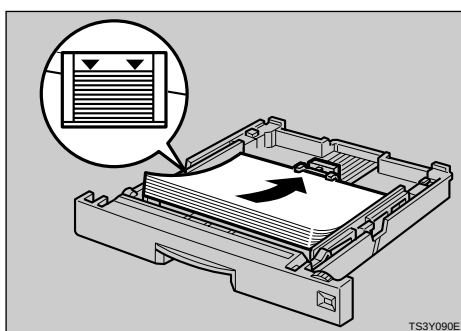
Important

- ☐ If you want to use paper size and feed direction that are not indicated on the paper size dial, set the dial to “✱”. In this case, you should specify the paper size using the operation panel.
⇒ P.121 “Making Printer Settings with the Operation Panel”

- 4** Adjust the rear and side guides to the paper size you want to load.



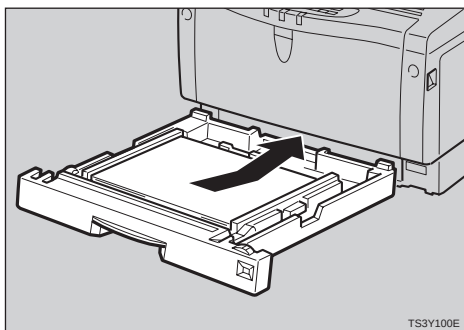
- 5** Load paper into the tray with the print side up.



Important

- ☐ Make sure that the top of the stack is not higher than the limit mark inside the tray.
- ☐ Make sure the paper fits under the rear guide.

- 6** While lifting the front side of the tray, place the tray into the printer. Then slide it into the printer until it stops.

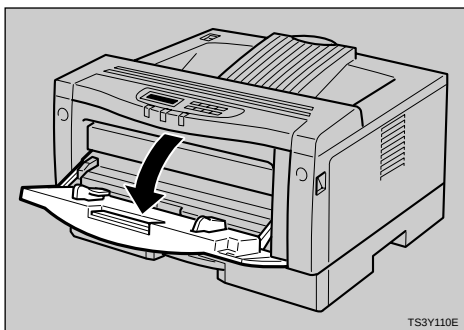


Type 1 Printer: Loading Paper in the Bypass Tray

Note

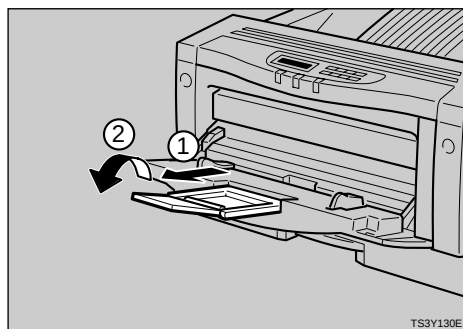
- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- ❑ If you set the custom sized paper, you should specify the paper size using the printer driver. Also, use the operation panel to set the custom size setting.

- 1** Open the bypass tray.

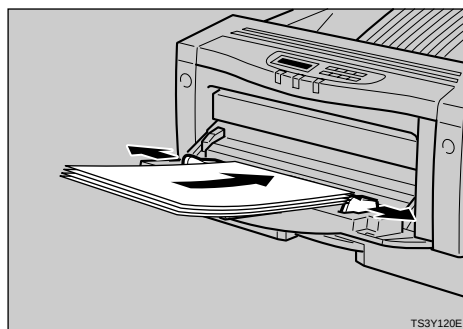


Note

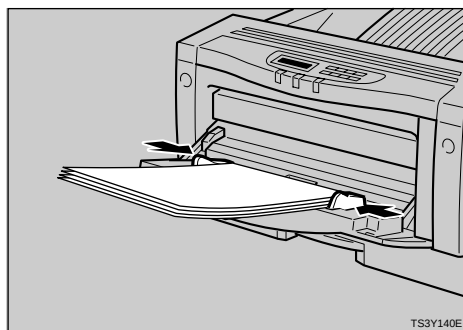
- ❑ If you load paper of A4, 8¹/₂" × 11" (Letter) or larger, slide out the bypass tray extender (①) and then flip it open (②).



- 2** Slide the side guides outwards, and load paper until it stops with the print side down.



- 3** Adjust the side guides to the paper width.



Important

- ❑ Make sure the paper fits under the side guides.

- 4** Specify the paper size and feed direction using the operation panel as follows.

- 1** Press **[Menu]**.

The following message appears on the panel display.

```
Main Menu:      ▲
Job Control      ▼
```

- 2** Press **[Enter]**.

The following message appears on the panel display.

```
Job Control:      ▲
1. Paper Input    ▼
```

- 3** Press **[Enter]**.

The following message appears on the panel display.

```
Paper Input:      ▲
1. Tray Priority   ▼
```

- 4** Press **[▼]** twice.

The following message appears on the panel display.

```
Paper Input:      ▲
3. Paper Size     ▼
```

- 5** Press **[Enter]**.

The following message appears on the panel display.

```
Paper Size:       ▲
1. Bypass Tray    ▼
```

- 6** Press **[Enter]**.

- 7** Select the paper size you have specified for the bypass tray using **[▼]****[▲]** keys.

- 8** Press **[Enter]** to execute your setting. Wait for a while.

- 9** After the panel display changes, press **[On Line]**.

The panel display returns to the ready condition as follows:

```
Ready
```

- 5** Start the print operation with your computer.

Type 1 Printer: Loading Paper in the Optional Paper Tray

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

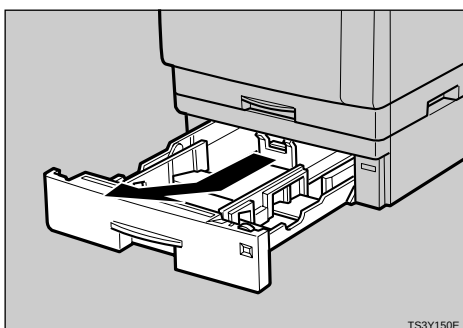
Important

- ☐ If your printer is equipped with the optional tray(s), do not pull out more than one tray with paper at a time. If you do, the printer might tilt forward.
- ☐ Make sure that the setting of the paper size dial matches the paper size and feed direction of the paper in the tray. Otherwise, the printer might be damaged, or printing problems might occur.

Reference

For more information on the size and feed direction of paper that can be set in the tray, see P.63 “Paper Types and Sizes”.

- 1** Pull the paper tray out until it stops. After that, lift it slightly, then pull it out of the printer.



Note

- ☐ Do not touch the three white pins on the right front side of the printer.

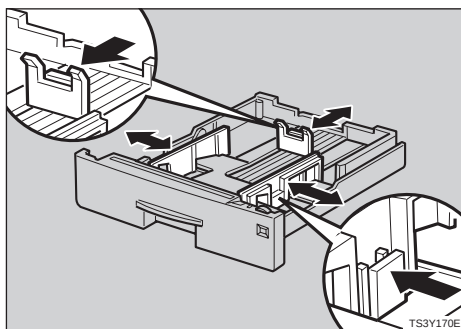
- 2** Adjust the paper size dial to match the size and feed direction of paper in the paper tray.



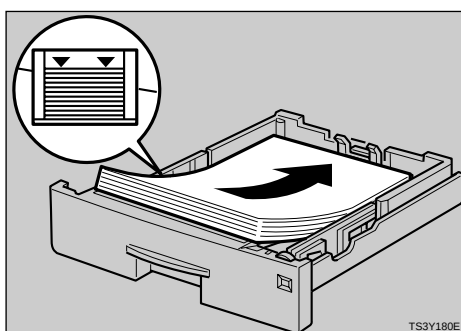
Important

- ☐ If you want to use paper sizes or feed directions that are not listed on the paper size dial, adjust the dial to “✱”. In this case, you should specify the paper size using the operation panel. ⇒ P.121 “Making Printer Settings with the Operation Panel”

- 3** Adjust the rear and side guides to the paper size you want to load.



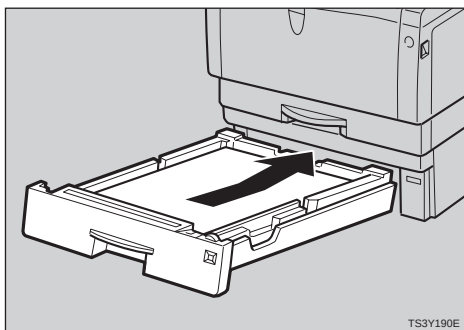
- 4** Load paper into the paper tray with the print side up.



Important

- ☐ Make sure the top of the stack is not higher than the limit mark inside the tray.
- ☐ Make sure the paper fits under the rear guide.

- 5** While lifting the front side of the tray, place the tray into the printer. Then slide it inside until it stops.



TS3Y190E

Type 1 Printer: Loading Envelopes

As there are so many kinds of envelopes, be sure to check if those to be used are supported by this printer.

Important

- ☐ Even when the optional envelope feeder is not installed, you can specify the sizes for the envelopes for Tray 2 using the operation panel. However, make sure that the envelopes are not loaded into the tray without the envelope feeder.
- ☐ To install the envelope feeder, the installation of the optional paper unit is required.⇒ P.16 "Type 1 Printer: Installing the Envelope Feeder Type 2000"

Reference

For more information on the envelopes, see P.72 "Paper types and cautions".

Type 1 printer: loading envelopes onto the bypass tray

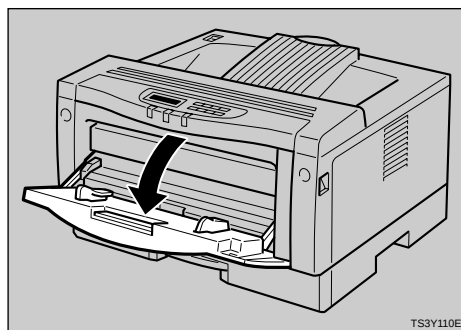
Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

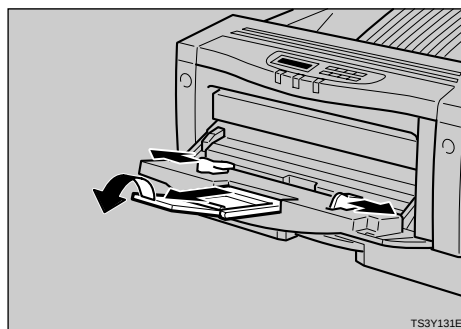
- ☐ With the bypass tray, you can load up to 10 envelopes at a time. For more information on envelopes, see P.72 "Paper types and cautions".

- 1** Open the bypass tray.



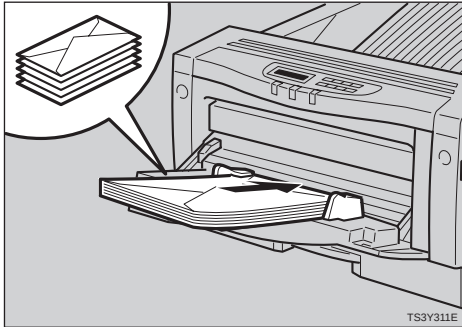
TS3Y110E

- 2** Slide the side guides. Slide out the bypass tray extender and flip it open.



TS3Y131E

- 3** Load envelopes until it stops, with the print side down and the sides of the flaps on the right as shown in the illustration.



Important

- ☐ Make sure that the envelope flaps are securely folded down, and that there is no air inside the envelopes.

Note

- ☐ Make sure that the top of the stack is not higher than the limit mark on the side guides.
- ☐ Do not press down on the stack of envelopes with too much force.

- 4** Slide the side guides against the edge of the envelope stack.

Note

- ☐ Make sure that the edges of envelopes fit under the side guides.

- 5** Specify the envelope size and feed direction using the operation panel as follows.

- 1** Press **[Menu]**

The following message appears.

Main Menu:	▲
Job Control	▼

- 2** Press **[Enter]**.

The following message appears.

Job Control:	▲
1. Paper Input	▼

- 3** Press **[Enter]**.

- 4** Press **[▲]****[▼]** until the following message appears.

Paper Input:	▲
3. Paper Size	▼

- 5** Press **[Enter]**.

The following message appears.

Paper Size:	▲
1. Bypass Tray	▼

- 6** Press **[Enter]**.

- 7** Using **[▲]****[▼]**, select the envelope type you want to use.

Reference

For informations on types of envelopes you can select, see P.63 "Paper and Other Media Supported by Your Printer".

- 8** Press **[Enter]**.

- 9** After the panel display changes, press **[On Line]**.

The panel display returns to the ready condition as follows:

Ready

- 6** Start the print operation with your computer.

Type 1 printer: loading envelopes into the envelope feeder

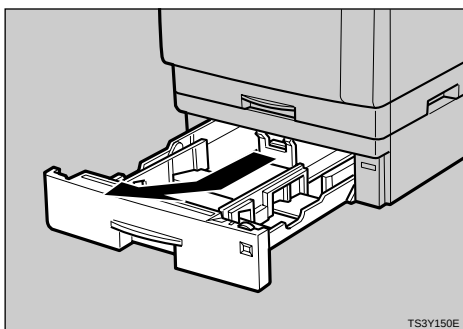
Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ❑ With the optional envelope feeder, you can load up to 60 envelopes at a time. ⇒ P.72 "Paper types and cautions"

- 1** Pull the optional paper tray (tray 2) out until it stops. After that, lift it slightly, then pull it out.



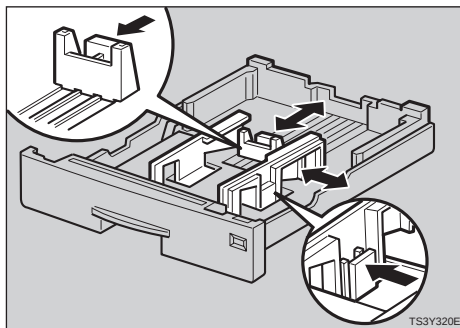
Note

- ❑ Keep the paper tray with paper in a cool and dry place.

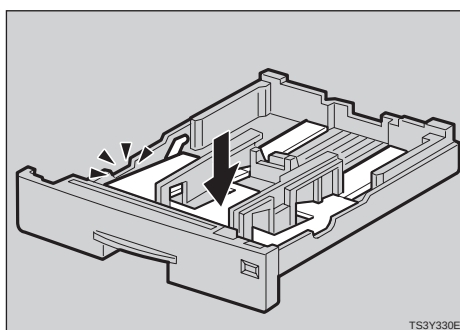
- 2** Prepare the envelope feeder.

- 3** Slide the side guides outwards until it stops by pinching them.

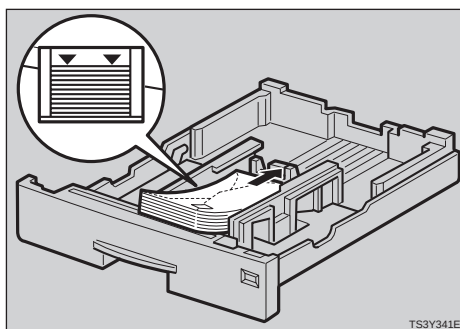
Slide the rear guide backwards by pinching it.



- 4** Push the bottom plate down until it locks into place.



- 5** Load envelopes into the envelope feeder, with the print side up and the sides of the flaps on the right as shown in the illustration.



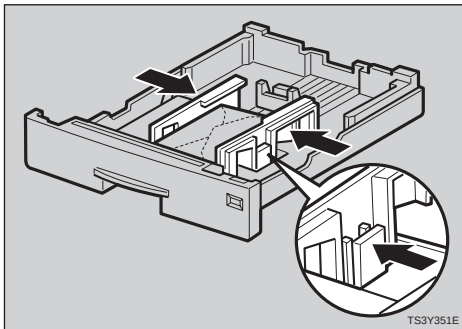
Important

- ❑ Make sure that the envelope flaps are securely folded down, and that there is no air inside the envelopes.

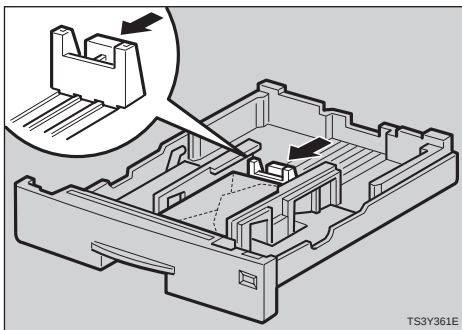
Note

- ☐ Make sure that the top of the stack is not higher than the limit mark on the side guides.
- ☐ Make sure that the envelopes fit under the side guides.
- ☐ Do not press down on the stack of envelopes with too much force.

- 6** Pinching the side guides, slide them against the edge of the envelope stack.



- 7** Pinching the rear guide, slide it against the edge of the envelope stack.



- 8** While lifting the front side of the tray, place it into the printer. Then slide it until it stops.

- 9** Specify the envelope size and feed direction using the operation panel as follows.

- 1** Press **[Menu]**

The following message appears.

Main Menu:	▲
Job Control	▼

- 2** Press **[Enter]**.

The following message appears.

Job Control:	▲
1. Paper Input	▼

- 3** Press **[Enter]**.

- 4** Press **[▲]****[▼]** until the following message appears.

Paper Input:	▲
3. Paper Size	▼

- 5** Press **[Enter]**.

The following message appears.

Paper Size:	▲
3. Tray 2	▼

- 6** Press **[Enter]**.

- 7** Using **[▲]****[▼]**, select the envelope type you want to use.

Reference

For information on types of envelopes you can select, see P.63 "Paper and Other Media Supported by Your Printer".

- 8** Press **[Enter]**.

- 9** After the panel display changes, press **[On Line]**.

The panel display returns to the ready condition as follows:

Ready

- 10** Start the print operation with your computer.

Type 2 Printer: Loading Paper and Other Media

Type 2 Printer: Loading Paper in the Standard Paper Tray

⚠ CAUTION:

- *The paper tray does not have a stopper. When pulling it out, be careful not to pull it strongly. If you do, the tray might fall and cause personal injury.*

🔑 Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

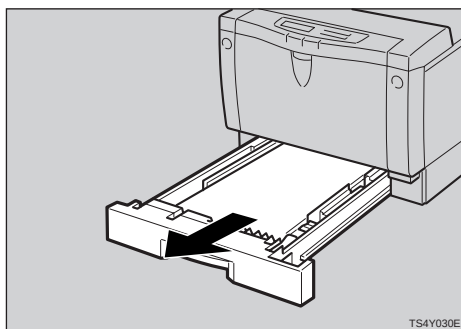
⚠ Important

- ❑ The following size can be loaded in this tray. If you want to load other paper, use the bypass tray or the optional paper tray.
 - Metric version: A4 📄
 - Inch version: 8¹/₂" × 11" 📄

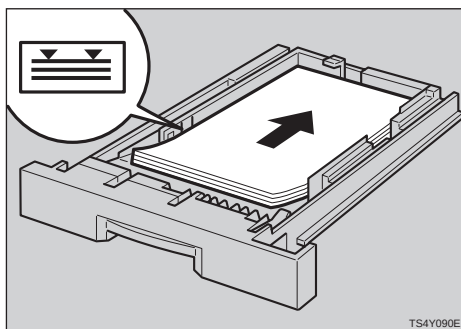
🔍 Reference

For more information on the size and feed direction of paper that can be loaded in the tray, see P.63 "Paper and Other Media Supported by Your Printer".

- 1** Pull the paper tray out of the printer and place it on a flat surface.



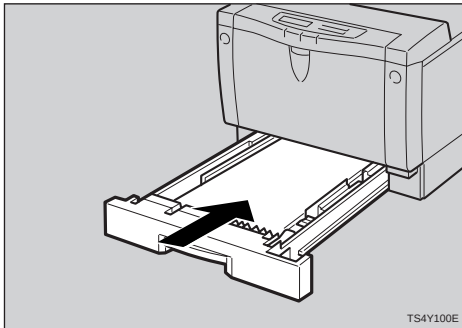
- 2** Load paper into the tray with the print side up.



⚠ Important

- ❑ Make sure the top of the stack is not higher than the limit mark inside the tray.
- ❑ Make sure the paper fits under the rear guide.

- 3** Insert the paper tray into the printer until it stops.



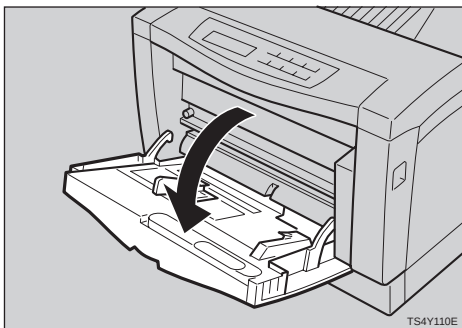
TS4Y100E

Type 2 Printer: Loading Paper in the Bypass Tray

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- ❑ If you set the custom sized paper, you should specify the paper size using the printer driver. Also, use the operation panel to set the custom size setting.

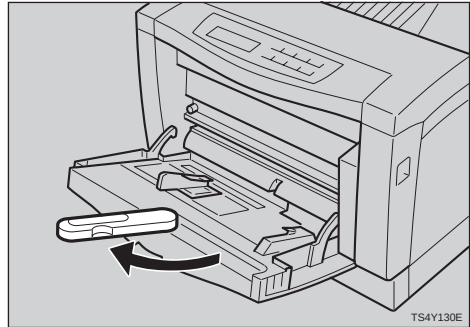
- 1** Open the bypass tray.



TS4Y110E

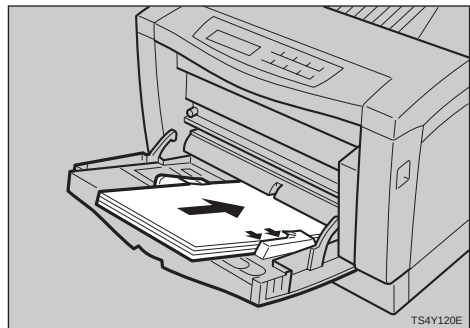
Note

- ❑ If you load the paper of B5, $5\frac{1}{2}'' \times 8\frac{1}{2}''$ or larger, pull the bypass tray extender.



TS4Y130E

- 2** Slide the left side guide to the left. Load paper until it stops with the print side down. When loading, the right side of paper stack should be against the right side guide.



TS4Y120E

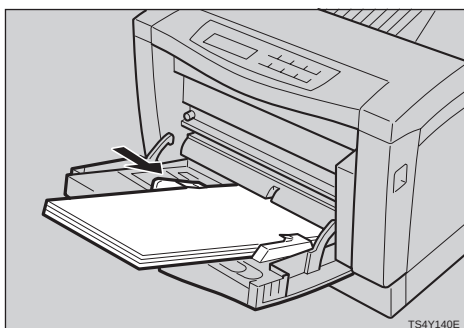
Important

- ❑ If the paper stack is not against the right side guide correctly, the paper might not be fed correctly.

Note

- ❑ It is recommended to load A5 or $5\frac{1}{2}'' \times 8\frac{1}{2}''$ paper in the direction.

- 3** Adjust the left side guide to the paper width. The guide should be against the paper stack.



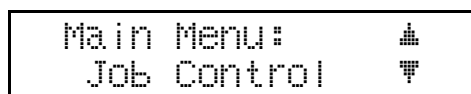
Important

- ☐ Make sure the paper fits under the side guides.

- 4** Specify the paper size and feed direction using the operation panel as follows.

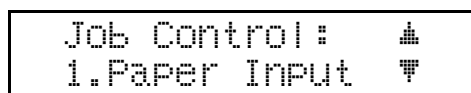
- 1** Press **[Menu]**.

The following message appears on the panel display.



- 2** Press **[Enter]**.

The following message appears on the panel display.



- 3** Press **[Enter]**.

The following message appears on the panel display.



- 4** Press **[▼]** twice.

The following message appears on the panel display.



- 5** Press **[Enter]**.

The following message appears on the panel display.



- 6** Press **[Enter]**.

- 7** Select the paper size you have set in the bypass tray using **[▼]****[▲]** keys.

- 8** Press **[Enter]** to execute your setting. Wait for a while.

- 9** After the panel display changes, press **[On Line]**.

The panel display returns to the ready condition as follows:



- 5** Start the print operation with your computer.

Type 2 Printer: Loading Paper in the Optional Paper Tray

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

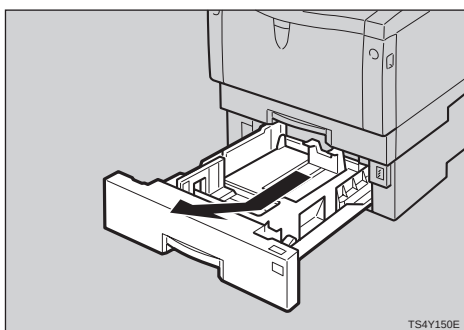
- ☐ If your printer is equipped with the optional tray, do not pull out more than one tray with paper at a time. If you do, the printer might tilt forward.

- ❑ Make sure that the setting of the paper size dial matches the paper size and feed direction in the tray. Otherwise, the printer might be damaged, or printing problems might occur.

Reference

For more information on the size and feed direction of paper that can be loaded in the tray, see P.63 “Paper and Other Media Supported by Your Printer”.

- 1** Pull the paper tray out until it stops. After that, lift it slightly, then pull it out of the printer.



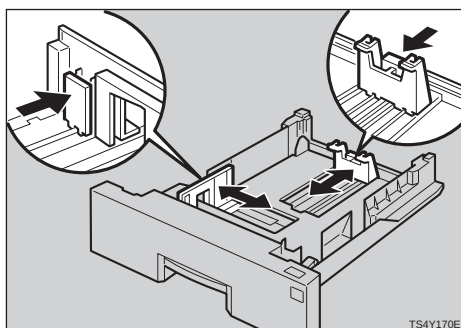
Note

- ❑ Do not touch the three white pins on the right front side of the printer.

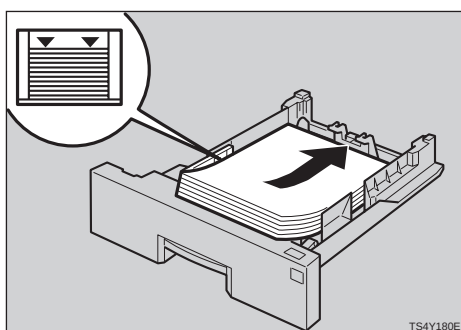
- 2** Adjust the paper size dial to match the size and feed direction of paper in the paper tray.



- 3** Adjust the rear and left side guides to the paper size you want to load.



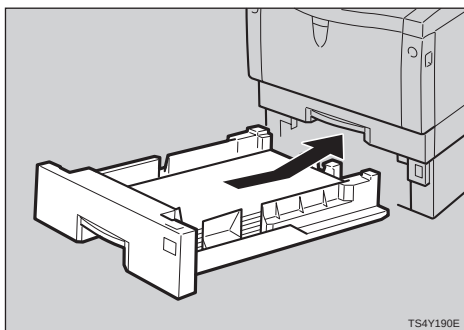
- 4** Load paper into the paper tray with the print side up.



Important

- ❑ Make sure the top of the stack is not higher than the limit mark inside the tray.
- ❑ Make sure the paper fits under the rear guide.

- 5** While lifting the front side of the tray, place the tray into the printer. Then slide it inside until it stops.



Type 2 Printer: Loading Envelopes

As there are so many kinds of envelopes, be sure to check if those to be used are supported by this printer.

Important

- ☐ Even when the optional envelope feeder is not installed, you can specify the sizes for the envelopes for Tray 2 using the operation panel. However, make sure that the envelopes cannot be loaded into the tray without the envelope feeder.
- ☐ To install the envelope feeder, installation of the optional paper unit is required. ⇒ P.21 "Type 2 Printer: Installing the Envelope Feeder Type 1400"

Reference

For more information on envelopes, see P.72 "Paper types and cautions".

Type 2 printer: loading envelopes onto the bypass tray

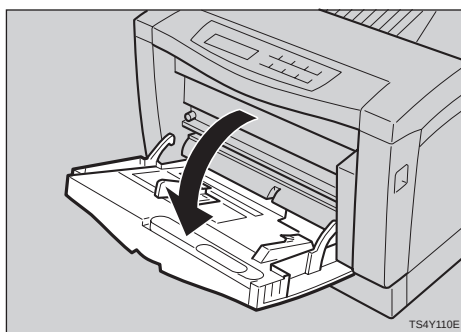
Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

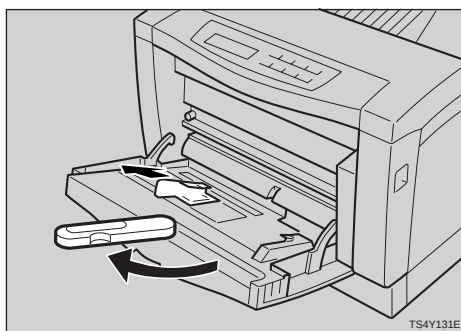
Important

- ☐ With the bypass tray, you can load up to 5 envelopes at a time. For more information on envelopes, see P.72 "Paper types and cautions".

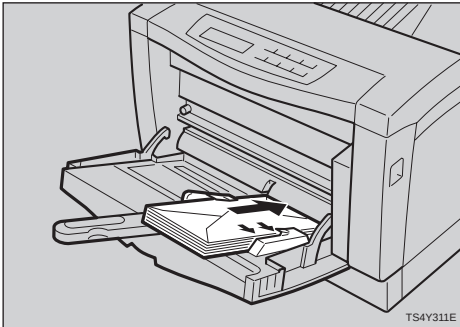
- 1** Open the bypass tray.



- 2** Slide the left side guide to the left and extend the bypass tray extender.



- 3** Load envelopes until it stops, with the print side down and the sides of the flaps on the right as shown in the illustration.



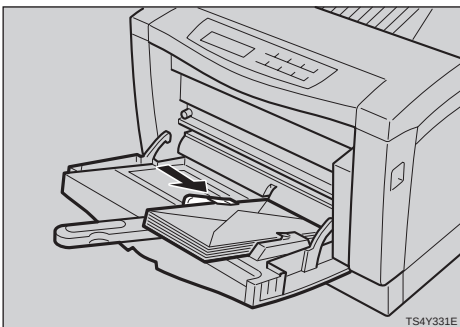
Important

- ☐ Make sure that the envelope flaps are securely folded down, and that there is no air inside the envelopes.

Note

- ☐ Make sure that the top of the stack is not higher than the limit mark on the side fence.
- ☐ Do not press down on the stack of envelopes with too much force.

- 4** Slide the left side guide against the edge of the envelope stack.



Note

- ☐ Make sure that the edges of envelopes fit under the side guides.

- 5** Specify the envelope size and feed direction using the operation panel as follows.

- 1** Press **[Menu]**

The following message appears.

Main Menu:	▲
Job Control	▼

- 2** Press **[Enter]**.

The following message appears.

Job Control:	▲
1. Paper Input	▼

- 3** Press **[Enter]**.

- 4** Press **[▲]****[▼]** until the following message appears.

Paper Input:	▲
3. Paper Size	▼

- 5** Press **[Enter]**.

The following message appears.

Paper Size:	▲
1. Bypass Tray	▼

- 6** Press **[Enter]**.

- 7** Using **[▲]****[▼]**, select the envelope type you want to use.

Reference

For informations on types of envelopes you can select, see P.63 "Paper and Other Media Supported by Your Printer".

- 8** Press **[Enter]**.

- 9** After the panel display changes, press **[On Line]**.

The panel display returns to the ready condition as follows:



- 6** Start the print operation with your computer.

Type 2 printer: loading envelopes into the envelope feeder

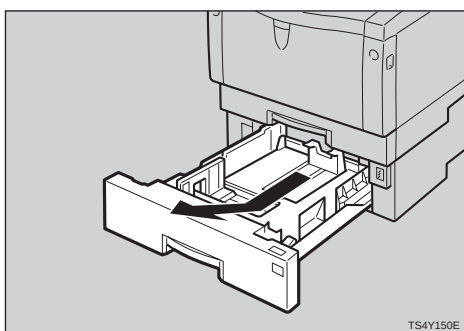
Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

- ☐ With the optional envelope feeder, you can load up to 60 envelopes at a time. For more information on envelopes, see P.72 "Paper types and cautions".

- 1** Pull the optional paper tray out until it stops. After that, lift it slightly, then pull it out.

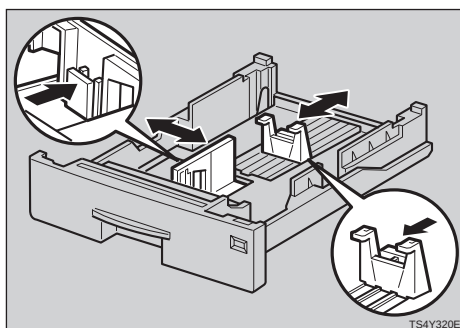


Note

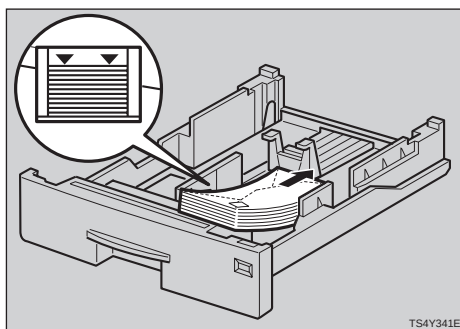
- ☐ Keep the paper tray with paper in a cool and dry place.

- 2** Prepare the envelope feeder.

- 3** Slide the left side guide to the left by pinching it. Slide the rear guide backwards by pinching it.



- 4** Load envelopes into the envelope feeder, with the print side up and the sides of the flaps on the right as shown in the illustration.



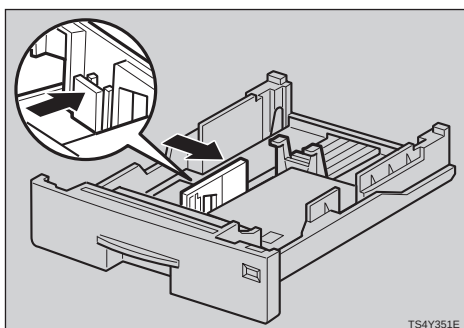
Important

- ☐ Make sure that the envelope flaps are securely folded down, and that there is no air inside the envelopes.

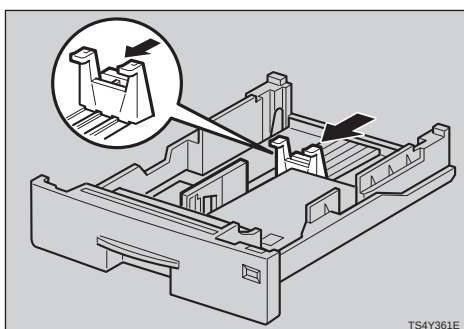
Note

- ☐ Make sure to align the right edge to the side fence.
- ☐ Make sure that the top of the stack is not higher than the limit mark on the side fence.
- ☐ Make sure that the envelopes fit under the side guides.
- ☐ Do not press down on the stack of envelopes with too much force.

- 5** Pinching the left side guide, slide it against the edge of the envelope stack.



- 6** Pinching the rear guide, slide it against the edge of the envelope stack.

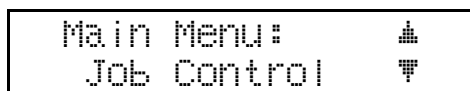


- 7** While lifting the front side of the tray, place it into the printer. Then slide it until it stops.

- 8** Specify the envelope size and feed direction using the operation panel as follows.

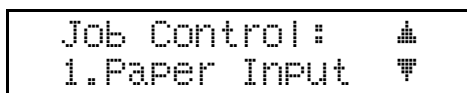
- 1** Press **[Menu]**

The following message appears.



- 2** Press **[Enter]**.

The following message appears.



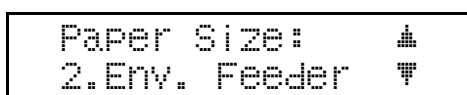
- 3** Press **[Enter]**.

- 4** Press **[▲][▼]** until the following message appears.



- 5** Press **[Enter]**.

The following message appears.



- 6** Press **[Enter]**.

- 7** Using **[▲][▼]**, select the envelope type you want to use.

Reference

For informations on types of envelopes you can select, see P.63 "Paper and Other Media Supported by Your Printer".

- 8** Press **[Enter]**.

- 9** After the panel display changes, press **[On Line]**.

The panel display returns to the ready condition as follows:



- 9** Start the print operation with your computer.

10. Troubleshooting

Error & Status Messages on the Operation Panel

Messages	Description	Comments
Check Paper Size Tray XX	The paper size setting of the tray differs from that of actual paper size in the tray.	• Pull out the paper tray and insert it. • Press [Enter] and load the correct size paper into the tray.
Close Front Cover	The front cover is open.	Close the front cover.
Install Tray XX	The tray XX is not set correctly.	Set the tray correctly. ⇒ P.77 "Type 1 Printer: Loading Paper and Other Media" ⇒ P.86 "Type 2 Printer: Loading Paper and Other Media"

Messages	Description	Comments
Load Bypass Tray {paper size}	There is no paper on the bypass tray.	Load {paper size} paper in the specified feed direction onto the bypass tray. Printing will not automatically resume if the paper size and direction setting is incorrect. There are 2 methods to resume printing. ① Use the operation panel to set the correct size and direction of the paper in the bypass tray. ⇒ P.126 “Paper Input 2/2” ② Press [Enter] to have printing begin, regardless of the size and direction of the paper in the bypass tray.  Note ☐ When “Auto Select” is specified for the paper source using the printer driver, this message might appear when there is {paper size} paper in a different feed direction in any of the trays. ☐ The page is printed in the incorrect format on the paper loaded on the bypass tray in the following cases. • if you press [Enter] before loading the correct paper. • if the specified period of time has passed with the Auto Continue feature on. In these cases, you can't continue printing due to the paper size error. You should take one of the following actions to clear this error: • Press [Enter]. (Auto Continue feature doesn't work with this error.) • Open and close any of the trays.
	The actual size of paper loaded on the bypass tray does not match the size for which the page was built.	

Messages	Description	Comments
Load Tray XX {paper size}	The tray XX is empty. The actual size of paper loaded in the tray XX does not match the size for which the page was built.	Load {paper size} paper in the specified feed direction into tray XX. Printing will not automatically resume if the paper size and direction setting is incorrect. There are 2 methods to resume printing. ① Use the operation panel to set the correct size and direction of the paper in the tray XX. ⇒ P.126 “Paper Input 2/2” ② Press [Enter] to have printing begin, regardless of the size and direction of the paper in the tray XX. .  Note ☐ When “Auto Select” is specified for the paper source using the printer driver, this message might appear when there is {paper size} paper in a different direction in any of the trays. ☐ The page is printed in the incorrect format on the paper loaded in the tray XX in the following cases. • if you press [Enter] without loading the correct paper. • if the specified period of time has passed with Auto Continue feature on. In these cases, you can't continue printing due to the paper size error. You should take one of the following actions to clear this error: • Press [Enter]. (Auto Continue feature doesn't work with this error.) • Open and close any of the trays.

Messages	Description	Comments
Memory Overflow	There is not enough memory to print the data.	If the “Auto Continue” feature is set to on, press [Enter] to print out the data. To clear this message, change the print resolution from 1200dpi to 600dpi or 600dpi to 300dpi, and try printing again. If the print result is not enhanced, you should increase the memory capacity.
Print Overrun	The data sent to the printer was too complex.	Press [Enter] to print out the data sent to the printer. If you don't want to lose any of the transferred data, set the “Page Protect” feature to “On”, before printing the job. If you can't clear this message, simplify the print job.  Note ☐ Make sure to return the “Page Protect” feature to “Off” after the print job. With the “Page Protect” feature “On”, the printer performance might be decreased.
Remove Misfeed Front Cover&Tray	There is a misfeed in the printer.	Remove the misfed paper. ⇒ P.106 “Removing Misfed Paper”
Remove Misfeed Open Front Cover	There is a misfeed in the printer.	Remove the misfed paper. ⇒ P.106 “Removing Misfed Paper”
Replace Fusing unit	The fusing unit is not set correctly.	Set the fusing unit correctly. ⇒ P.109 “If you uninstall the fusing unit accidentally”
Replace Maintenance Kit	It is time to replace parts included in the Maintenance Kit.	Replace parts. ⇒ P.137 “Replacing Parts”
Replace Toner Cartridge	The toner cartridge is not set correctly or toner is almost running out.	Set the toner cartridge correctly. Prepare a new toner cartridge. If the image density gets too light, replace the toner cartridge with a new one. ⇒ P.111 “Replacing the Toner Cartridge”

Messages	Description	Comments
Reset Tray(s) Correctly	The tray on the paper feeding path is not set correctly when the printer receives the print job.	Set the tray correctly. The printer will re-start printing automatically.
Tray XX Add Paper	Paper runs out in tray XX.	Load paper. ⇒ P.77 "Type 1 Printer: Loading Paper and Other Media" ⇒ P.86 "Type 2 Printer: Loading Paper and Other Media"
Error SC_320	The toner cartridge may not be installed when the printer tries to start printing.	Open the front cover and check if the cartridge is installed. If not, install the cartridge. ⇒ P.111 "Replacing the Toner Cartridge" If the cartridge is installed, close the front cover and turn the printer's power switch off and on. If the message appears again, contact your sales or service representative.
Error SC_2700	An error has occurred in the optional network interface board.	Remove the network interface board from the printer and turn the printer's main switch off and on. Then, try to perform your print job.  Note ☐ If you remove the network interface board, you cannot perform your print job over the network. You can send your print job to the printer only via a parallel cable connection.
Error SC_3200		
Error SC_3201		
Error SC_3100	An error has occurred in the optional memory unit (SIMM).	Remove the memory unit from the printer and turn the printer's main switch off and on. Then, try to perform your print job.  Note ☐ If you remove the memory unit, you might not be able to perform a print job containing the large complex data.

Messages	Description	Comments
Error SC_###	An error has occurred in the printer.	First, turn the printer's power switch off and on. If the message appears again, call your sales or service representative.

 Note

- ☐ If you cannot solve the problem by taking the above actions, turn the printer power off and then back on again. If this does not clear the error message, take a note of the contents and number of the error message and contact your sales or service representative.

Printer Doesn't Print

Possible Cause	Solutions
Is the power on?	Make sure that the cable is securely plugged into the power outlet and the printer. Turn on the printer's power switch.
Does the On Line indicator stay on?	Press [On Line] to light it up.
Does the Error indicator stay red?	Check the error message on the panel display and do the required action.
Is the paper set?	Load paper into the paper tray or on the bypass tray. ⇒ P.77 "Type 1 Printer: Loading Paper and Other Media" ⇒ P.86 "Type 2 Printer: Loading Paper and Other Media"
Can you print a test page (configuration page)?	If you can't print a test page, it probably indicates printer malfunction. You should contact your sales or service representative. ⇒ P.121 "Making Printer Settings with the Operation Panel" If you can print a test page but cannot get the printer to print when you issue a print command from your computer, it probably means there is a problem with your computer. Also keep in mind that large, complex data might take long time for printer process.
Is the interface cable properly connecting the printer to your computer connected securely?	Connect the interface cable properly. If there are any connectors or screws, make sure they are fastened securely.
Are you using a correct interface cable?	The type of interface cable you should use depends on your computer. Be sure to use the correct one. If the cable is damaged or worn, replace it with a new one.

Possible Cause	Solutions
Is the Data In indicator blinking or lit after starting the print job?	If not, the data is not being sent to the printer. ❖ If your printer is connected to the computer using the interface cable Check if the printer port settings are correct. For a parallel port connection, port LPT1 or LPT2 should be set. • Windows 95/98 ① Click [Start], point to [Settings], and then click [Printers]. ② Select the icon of the printer by clicking it. Next, on the [File] menu, click [Properties]. ③ Click [Details] tab. ④ Check the [Print to the following port] box to make sure the correct port is selected. • Windows 3.1x ① On the [Control Panel], double-click [Printers] icon. ② Confirm that this printer is specified as the default printer. ③ Click [Connect]. ④ Check the [Ports] box to make sure the correct port is selected. • Windows NT4.0 ① Click [Start], point to [Settings], and then click [Printers]. ② Select the icon of the printer by clicking it. Next, on the [File] menu, click [Properties]. ③ Click [Port] tab. ④ Check the [Print to the following port] box to make sure the correct port is selected. ❖ Network Connection Contact your network administrator.

 Note

- ☐ If you cannot solve the problem by taking the above actions, contact your sales or service representative.

Other Printing Problems

Status	Possible Causes, Descriptions, and Solutions
Printed side is dirty.	Adjust the image density properly. ⇒ P.121 <i>"Making Printer Settings with the Operation Panel"</i>
	If paper is curled, correct it.
	Check if the size specified with the dial matches that specified with the operation panel. If not, specify the correct size that matches the size and feed direction loaded in the tray.
	If you print something after printing on the paper whose size is smaller than the actual document size, the back side of the next output might get dirty. ⇒ P.77 <i>"Type 1 Printer: Loading Paper and Other Media"</i> ⇒ P.86 <i>"Type 2 Printer: Loading Paper and Other Media"</i>
Image quality varies when printing on thick paper or on OHP transparencies.	Set to Thick Papermode. • When toner is not fused enough, set it to "On". • When the image is blurred, set it to "----" ⇒ P.121 <i>"Making Printer Settings with the Operation Panel"</i> .
Some parts of the print image are not clear.	Set the image density to darker. ⇒ P.121 <i>"Making Printer Settings with the Operation Panel"</i>
	If the Toner Saving mode is specified using the operation panel, the whole image gets lighter.
Print image is not clear.	Due to a sudden change in temperature, condensation might appear inside the machine, reducing the print quality. If this occurs, when you move the printer from a cold room to a warmer room, don't use the printer until it gets used to the temperature.
Nothing is printed on the paper.	Check if the tape of the toner cartridge is completely removed. Be sure to remove the tape completely, when replacing the toner cartridge. ⇒ P.111 <i>"Replacing the Toner Cartridge"</i>  Note ☐ If the printer's power switch is turned on with the tape still attached, the printer might be damaged.

Status	Possible Causes, Descriptions, and Solutions
Multiple pages are fed through the printer at once.	Clean the friction pad, if it is dirty. ⇒ P.114 <i>"Cleaning the Friction Pad"</i>
	Remove all paper from the tray and fan it gently to get air between the paper. After that, load it back into the tray.
Image is printed on the reverse side of the paper.	Set the paper upside down.
Paper misfeeds occur frequently.	Check the paper size settings. The size specified with the paper size dial might be different from the actual paper size. Make the correct dial setting. ⇒ P.77 <i>"Type 1 Printer: Loading Paper and Other Media"</i> ⇒ P.86 <i>"Type 2 Printer: Loading Paper and Other Media"</i>
	Use the recommended paper. Avoid using curled, folded, or wrinkled paper, perforated paper, or glossy paper. ⇒ P.74 <i>"Paper not supported by this printer"</i>
	Clean the paper feed roller, friction pad, and / or registration roller, if they are dirty. ⇒ P.116 <i>"Cleaning the Paper Feed Roller"</i>
Operation panel error message stays on after removing the misfed paper.	Open the front cover of your printer and then close it. ⇒ P.106 <i>"Removing Misfed Paper"</i>
Desired tray isn't used for the output.	Check the paper size settings. The size specified with the paper size dial might be different from the actual paper size. Make the correct dial setting. ⇒ P.77 <i>"Type 1 Printer: Loading Paper and Other Media"</i> ⇒ P.86 <i>"Type 2 Printer: Loading Paper and Other Media"</i>
	When using the bypass tray, specify the paper size using the operation panel. ⇒ P.79 <i>"Type 1 Printer: Loading Paper in the Bypass Tray"</i> ⇒ P.87 <i>"Type 2 Printer: Loading Paper in the Bypass Tray"</i>
	When you are using a Windows operating system, the printer driver settings overrides those specified using the operation panel. Specify the desired output tray using the printer driver. Refer to the driver's online help file.
The printed image is different from the image in the computer.	When you use some features such as enlargement and reduction, the layout of the image might be different from those shown in the computer display.

Status	Possible Causes, Descriptions, and Solutions
It takes too much time to resume printing.	The data is so large or complex that it takes time to process it. If the Data In indicator is blinking, the data processing is being done. Just wait until it resumes.
	Energy Saver mode might be enabled. In Energy Saver mode, it takes time for the machine to warm up.
Image is printed in the wrong orientation.	Specify the correct orientation under the “PCL Menu” with the operation panel. ⇒ P.121 “ <i>Making Printer Settings with the Operation Panel</i> ”
Part of the image cannot be printed.	A paper size which is smaller than those specified in the application is used for printing. Load the correct size of paper. If you can't select the paper size specified in the application, make use of the zooming features.
Network configurations you have made do not become effective.	Turn the printer's power switch off and on. The configuration sheet of the network interface board will be printed automatically. Check the configuration of the network interface board with this sheet.

 Note

- ☐ If the problem cannot be solved, contact your sales or service representative.

Removing Misfed Paper

When a paper misfeed occurs, an error message appears on the panel display. The procedure you should follow to remove the misfed paper depends on the location of the misfeed, which is indicated on the panel display.

CAUTION:

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

Important

- ☐ Check the following points if paper continues to misfeed.
 - Make sure that the setting of the paper size dial matches the size and feed direction of the paper loaded in the paper tray.
 - If the friction pad or the paper registration roller is dirty, clean it.⇒ P.114 *"Cleaning the Friction Pad"*
 - Make sure that the toner cartridge is set correctly.
- ☐ If misfeeds persist, contact your sales or service representative.
- ☐ Do not leave any torn scraps within the printer.

Note

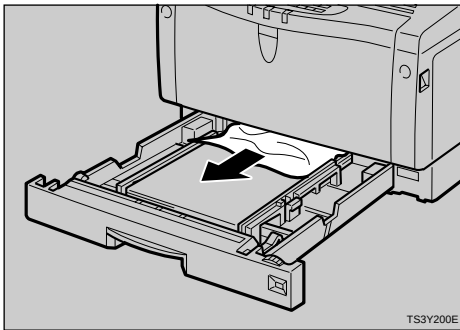
- ☐ Type 1 Printer illustrations are used in this section.
- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- ☐ When opening the front cover, you can find two brown levers (fusing unit lock levers) and two blue levers (pressure release levers). It is not necessary for you to use the brown levers when removing the misfed paper. Only use the blue levers (pressure release levers). See P.4 *"Type 1 Printer: Interior"* and P.6 *"Type 2 Printer: Interior"* for the positions of these levers.

When “Remove Misfeed: Front Cover&Tray” Appears

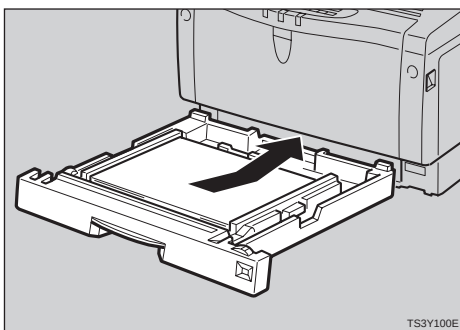
Note

- ☐ You can apply this procedure for both the standard and optional tray including a tray with the envelope feeder.
- ☐ To reset the misfeed condition, open and close the front cover.

- 1** Pull out the paper tray gently not to tear the misfed paper, and remove misfed paper.

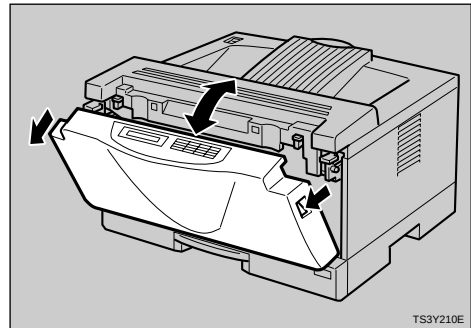


- 2** Slide the paper tray back into the printer until it stops.



- 1** Open the front cover by pulling

- 3** Open the front cover, and then close it to reset the misfeed condition.



Important

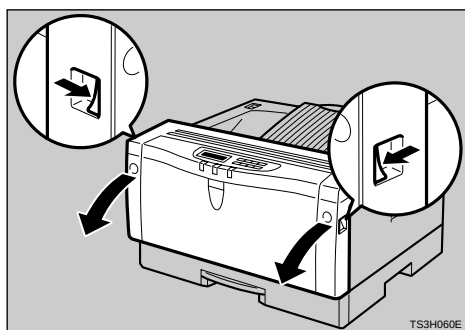
- ☐ If paper is fed from the bypass tray, be sure to remove all the paper from the bypass tray and close it before opening the front cover.

When “Remove Misfeed: Open Front Cover” Appears

Important

- ☐ Be sure to release the pressure release levers before removing misfed paper. Otherwise, the printer might be damaged.
- ☐ If you can see the misfed paper when opening the front cover, remove the misfed paper from the front side. If you remove the misfed paper from the output tray, the unfused toner might make the inside of the printer dirty.

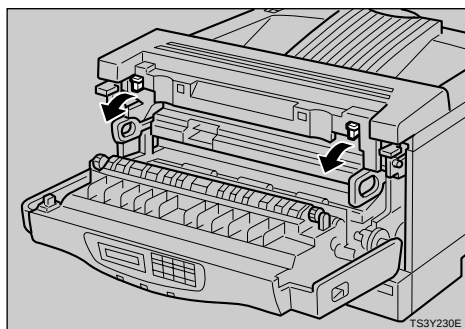
the front cover release buttons.



- 2** Push the blue pressure release levers marked with (A).

⚠ WARNING:

- ***Be careful not to touch the fusing unit as it could be very hot.***

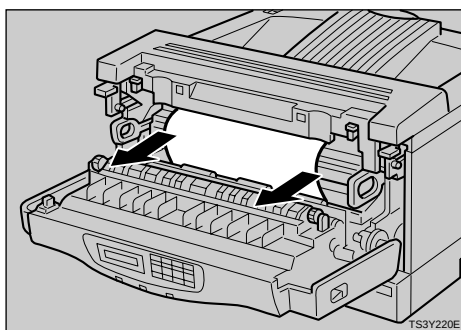


If you cannot find the misfed paper in the output tray

- 1** Pull out the misfed paper by holding both sides of the paper.

⚠ WARNING:

- ***Be careful not to touch the fusing unit as it could be very hot.***

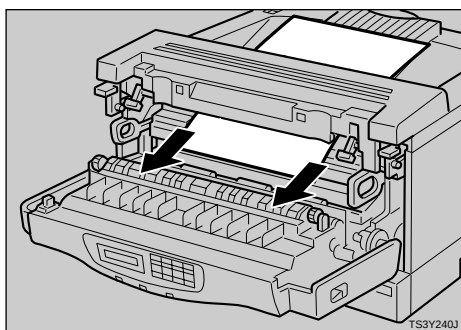


Note

- The misfed paper might have the unfused toner on it. Be careful not to stain your hands with toner.

If you can find the misfed paper in the output tray

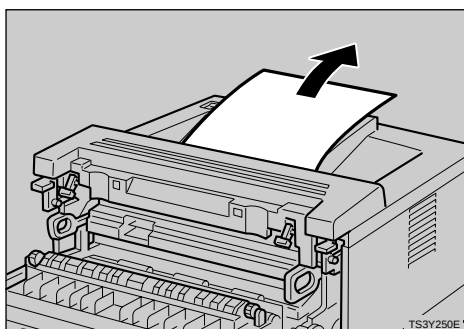
- 1** If you can see the misfed paper inside the printer, pull out the misfed paper by holding both sides of the paper. Be careful not to touch the fusing unit as it could be very hot.



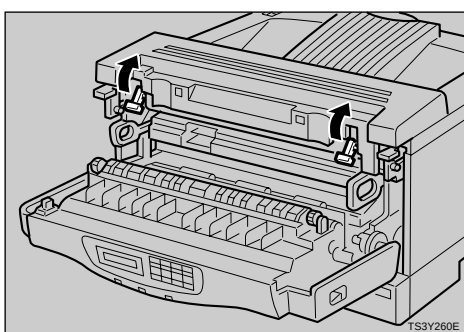
Note

- The misfed paper might have the unfused toner on it. Be careful not to stain your hands with toner.

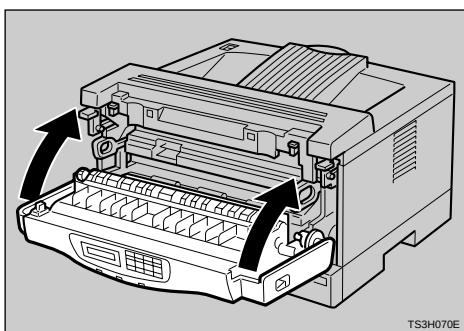
- 2 If you cannot see the misfed paper in the previous step, pull out the misfed paper from the output tray.



- 3 Return the blue pressure release levers marked with (A) to their original positions.



- 4 Close the front cover.



Note

- Do not close the front cover with force. If you cannot close the front cover easily, check if the pressure release levers are returned to their original positions. If not, return them to their original positions, and try closing the front cover again.

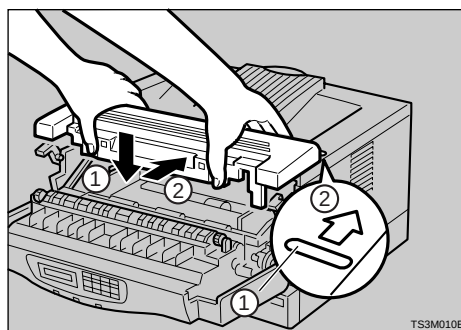
If you uninstall the fusing unit accidentally

Usually, it is not necessary to remove the fusing unit. Follow these steps to reinstall the fusing unit.

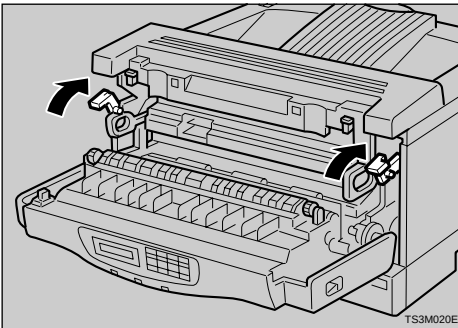
CAUTION:

- The fusing unit could be very hot. When installing the fusing unit, turn off the printer and wait about 30 minutes. After waiting, install the fusing unit. Not waiting for the unit to cool can result in a burn.

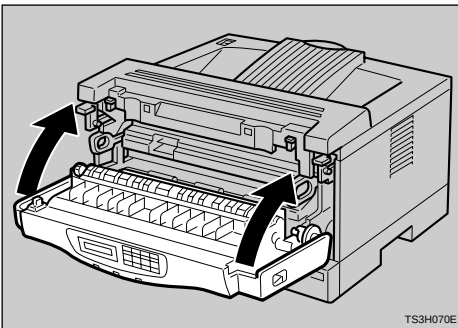
- 1 Turn the printer's power switch off.
- 2 Align the fusing unit with the mark of the printer (1), and then slide it in (2) as shown in the illustration.



- 3** Return the brown fusing unit lock levers to their original positions.



- 4** Close the front cover.



- 5** Turn the printer's power switch on.

Replacing the Toner Cartridge

WARNING:

- *Do not incinerate spilled toner or used toner. Toner dust might ignite when exposed to an open flame.*
- *Disposal can take place at our authorized dealer or at appropriate collection sites.*
- *If you dispose the used toner containers yourself, dispose of them according to your local regulations.*

CAUTION:

- *The inside of the machine could be very hot. Do not touch the parts with a label indicating the “hot surface”. Otherwise, it could cause a personal burn.*
- *Do not eat or swallow toner.*
- *Keep toner (used or unused) and toner containers out of reach of children.*
- *Our products are engineered to meet the highest standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.*

When “Replace Toner Cartridge” appears on the panel display, the toner is almost running out. Prepare a new toner cartridge. If the image density gets too light, replace the toner cartridge with a new one.

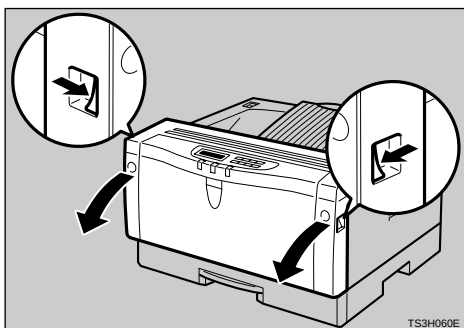
Important

- ☐ Do not expose the toner cartridge to a light for a long time. Do not leave the front cover open for a long time. If the toner cartridge is exposed to a light for a long time, the toner cartridge might be damaged and the print quality might be reduced.

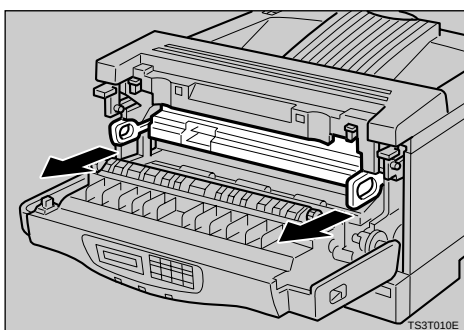
Note

- ☐ Do not stand or place the toner cartridge upside-down.
- ☐ The actual number of printed pages you get from a particular toner cartridge depends on the type and size of paper you are using, the contents of your print images, and printing environment conditions. All this means that a toner cartridge might require replacement sooner than the normal life described on P.161 “Consumables”.
- ☐ Type 1 Printer illustrations are used in this section.
- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

- 1** Open the front cover by pulling the front cover release buttons.

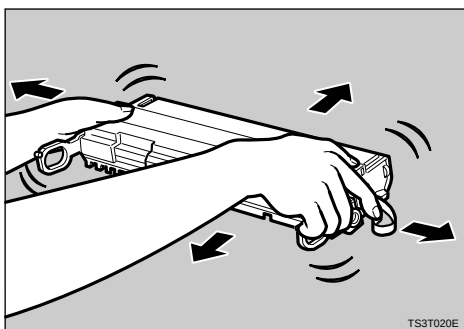


- 2** Pull the used toner cartridge out of the printer by holding the grips of it.



- 3** Take a new toner cartridge from the box.

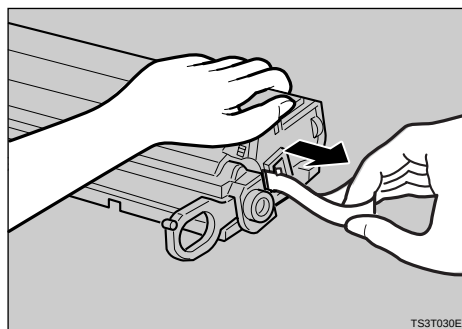
- 4** Hold the toner cartridge as shown in the illustration, and shake it side to side about 7 – 8 times.



Note

- ❑ If the toner cartridge is not shaken enough, toner might not be evenly distributed in the cartridge. In this case, the print quality might be reduced.

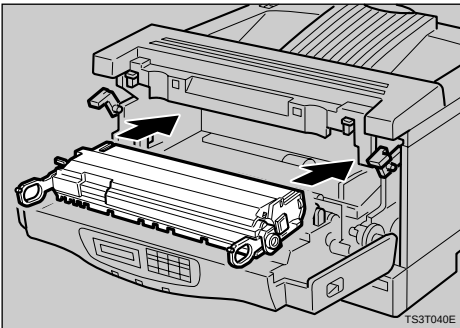
- 5** Place the toner cartridge on a flat surface. Pull out the tape inside the unit horizontally while holding the cartridge with one hand as shown in the illustration.



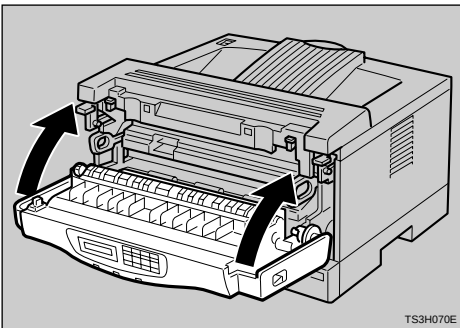
Note

- ❑ Be sure to remove the tape completely before installing the new toner cartridge. Otherwise, the printer might be damaged.
- ❑ Be sure to pull the tape horizontally. Pulling it upward or downward causes toner scattering.
- ❑ Be careful not to make your cloths dirty with toner.
- ❑ After pulling out the tape from the cartridge, toner scatters easily. Do not shake or give a shock to the cartridge.

- 6** Holding the grips of the cartridge, insert it into the printer until it stops.



- 7** Close the front cover.



Important

- ☐ Do not close the front cover with force. If you cannot close the cover easily, pull out the toner cartridge from the printer and insert it again. After that, close the front cover again.
- ☐ After installing the new toner cartridge, the first few pages might be printed with light density. If the density does not become darker, see P.103 "Other Printing Problems".

Cleaning the Printer

Cleaning the Friction Pad

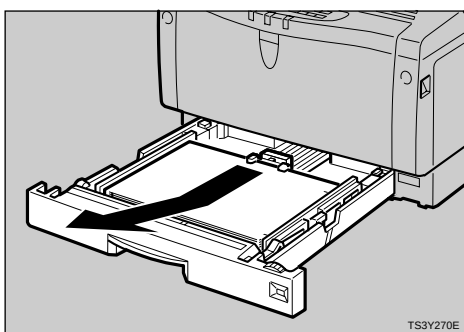
If the friction pad becomes dirty, mis-feeds or multi-feeds of paper might occur. In this case, clean the pad as follows:

Type 1 printer

Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

- 1** Pull the paper tray until it stops. After that, lift it slightly, then pull it out of the printer.



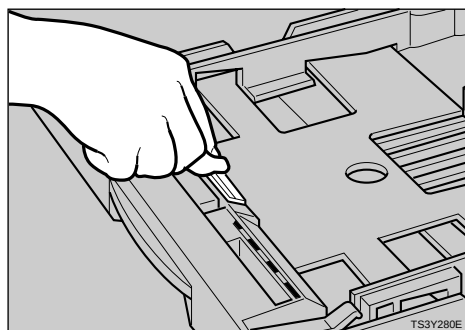
Note

- ❑ Do not touch the three white pins on the right front side of the printer.

- 2** Place the tray on a flat surface. Remove paper from the paper tray.

- 3** Clean the friction pad (gray or brown part) with a soft damp cloth. After wiping it with a damp

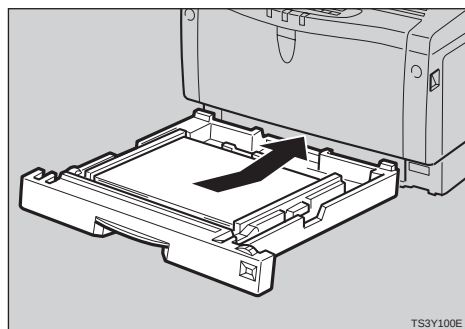
cloth, wipe it with a dry cloth to remove the water.



Important

- ❑ Do not use chemical cleaner or organic solvent such as thinner or benzene.

- 4** Load paper with the print side up into the paper tray. While lifting the front side of the tray, insert the paper tray into the printer. Then push it until it stops.



Note

- ❑ If misfeeds or multi-feeds of paper occur after cleaning the friction pad, contact your sales or service representative.
- ❑ Follow the same procedure to clean the friction pad of the optional tray and the envelope feeder.

Type 2 printer

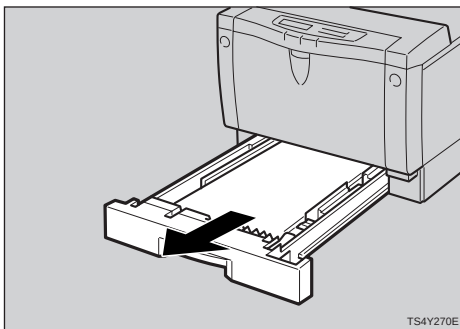
⚠ CAUTION:

- The paper tray does not have a stopper. When pulling it out, be careful not to pull it strongly. If you do, the tray might fall and cause personal injury.

✎ Note

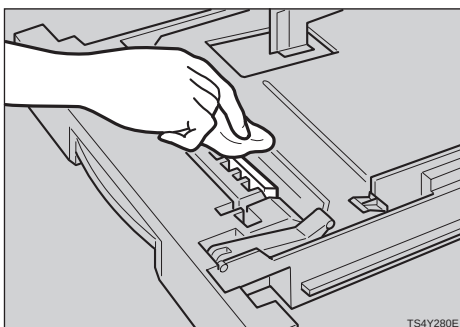
- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

- 1 Pull the paper tray out of the printer.



- 2 Place the tray on a flat surface. Remove paper from the paper tray.

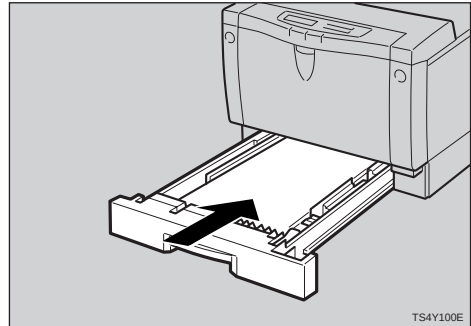
- 3 Clean the friction pad (gray or brown part) with a soft damp cloth. After wiping it with a damp cloth, wipe it with a dry cloth to remove the water.



⚠ Important

- ❑ Do not use chemical cleaner or organic solvent such as thinner or benzene.

- 4 Load paper with the print side up into the paper tray. Insert the paper tray into the printer until it stops.



✎ Note

- ❑ If misfeeds or multi-feeds of paper occur after cleaning the friction pad, contact your sales or service representative.
- ❑ Follow the same procedure to clean the friction pad of the optional tray and the envelope feeder.

Cleaning the Paper Feed Roller

If the paper feed roller becomes dirty, misfeeds might occur. In this case, clean the roller as follows:

⚠ CAUTION:

- When lifting the printer, use the grips on both sides of the printer. Otherwise, the printer might fall and cause personal injury.
- When you move the machine, unplug the power cord from the wall outlet to avoid a fire or an electric shock.
- When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing a fire or an electric shock.

Type 1 printer

🔧 Note

- ❑ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

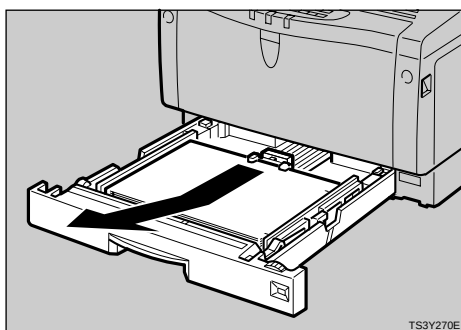
1 Turn the printer's power switch off.

2 Pull out the plug from the socket. Remove all the cables from the printer.

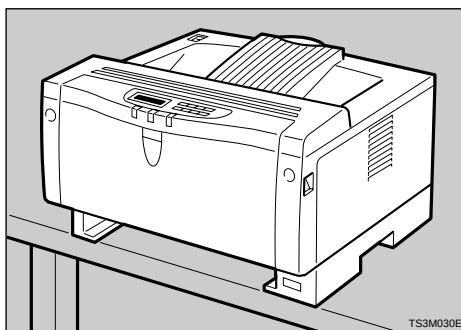
🔧 Note

- ❑ Do not touch the three white pins on the right front side of the printer.

3 Pull the paper tray until it stops. After that, lift it slightly, then pull it out of the printer.



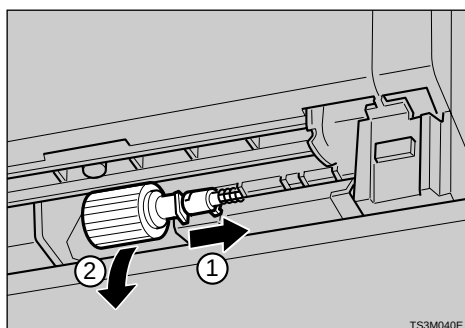
4 Move the printer to the edge of a stable table or desk.



⚠ Important

- ❑ Do not put the printer on an unstable or tilted surface.
- ❑ If the optional tray unit is equipped with your printer, do not move the printer and the unit together as they are not securely attached.
- ❑ When lifting the printer, make sure that the optional tray unit is not attached to the printer.

- 5** Slide the green lock lever to the right (①), so that the paper feed roller can be released (②).

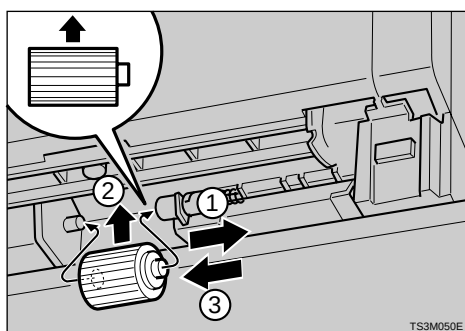


- 6** Clean the rubber part of the roller with a soft damp cloth. After wiping it with a damp cloth, wipe it with a dry cloth to remove the water.

Important

- ☐ Do not use chemical cleaner or organic solvent such as thinner or benzene.

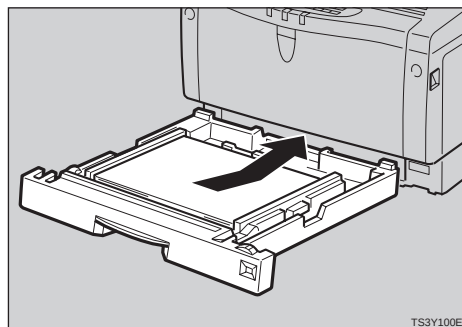
- 7** While sliding the green lock lever to the right (①), set the paper feed roller to its original position (②). After that, return the green lock lever to its original position (③).



Note

- ☐ Make sure that the green lock lever secures the roller correctly by confirming that the roller rotates smoothly.

- 8** Move the printer to the place where it was placed. Set the paper tray into the printer while lifting the front side of the tray, then push it in until it stops.



- 9** Insert the plug of the power cord into the wall socket securely. Connect all the cables that were removed in step 2.

Note

- ☐ Follow the same procedure to clean the paper feed roller of the optional tray unit.

- 10** Turn the printer's power switch on.

Type 2 printer

CAUTION:

- The paper tray does not have a stopper. When pulling it out, be careful not to pull it strongly. If you do, the tray might fall and cause personal injury.

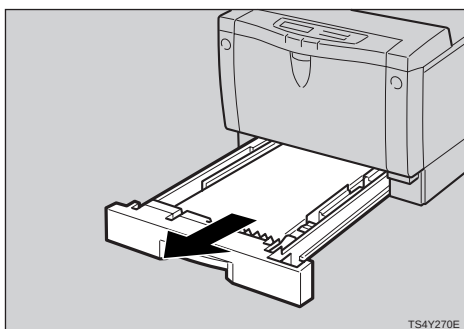
Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

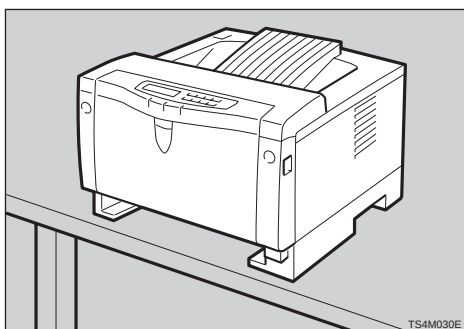
- 1** Turn the printer's power switch off.

- 2 Pull out the plug from the socket. Remove all the cables from the printer.

- 3 Pull the paper tray out of the printer.



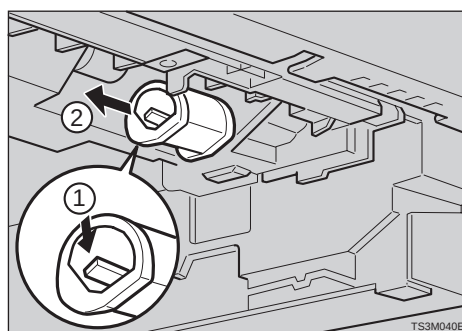
- 4 Move the printer to the edge of a stable table or desk.



Important

- ☐ Do not put the printer on an unstable or tilted surface.
- ☐ If the optional tray unit is equipped with your printer, do not move the printer and the optional tray unit together as they are not securely attached.
- ☐ When lifting the printer, make sure that the optional tray unit is not attached to the printer.

- 5 Pick the stopper inside the roller with your fingers (1), slide it to the left, so that the paper feed roller can be released (2).

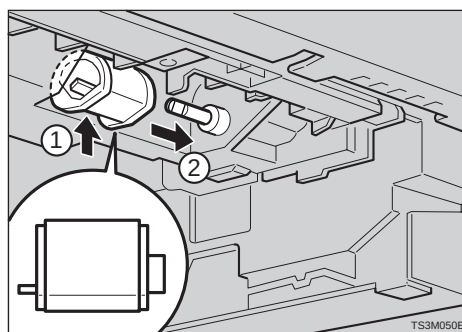


- 6 Clean the rubber part of the roller with a soft damp cloth. After wiping it with a damp cloth, wipe it with a dry cloth to remove the water.

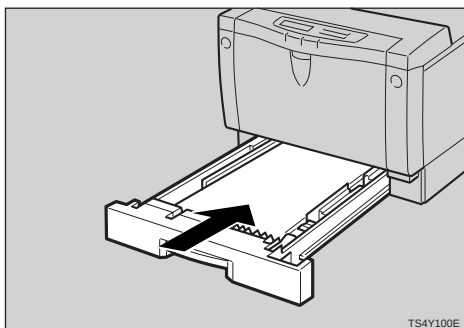
Important

- ☐ Do not use chemical cleaner or organic solvent such as thinner or benzene.

- 7 With the round part of the roller up (1), insert the roller into the shaft until the roller clicks (2).



- 8** Move the printer to the place where it was installed. Insert the paper tray into the printer until it stops.



- 9** Insert the plug of the power cord into the wall socket securely. Connect all of cables that were removed in step **2**.

Note

- ☐ Follow the same procedure to clean the paper feed roller of the optional tray unit.

- 10** Turn the printer's power switch on.

Cleaning the Registration Roller (Type 1 Printer only)

If the registration roller becomes dirty, misfeeds might occur. In this case, clean the roller as follows:

⚠ WARNING:

- ***Make sure to turn off the printer's power switch and wait for about 30 minutes before cleaning the registration roller. Not waiting for the printer to cool down can result in a burn.***

⚠ CAUTION:

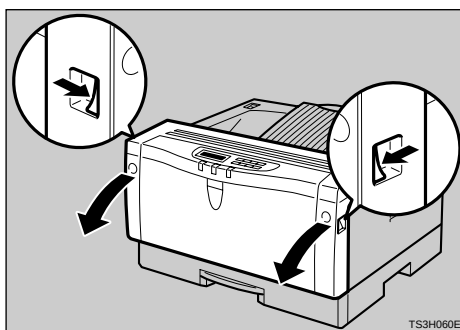
- *The inside of the machine could be very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise, it could cause a burn.*

Note

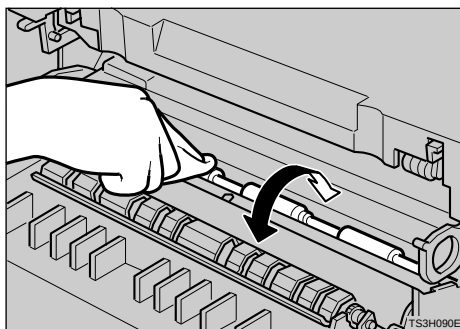
- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

- 1** Turn the printer's power switch off.

- 2** Open the front cover by pulling the front cover release buttons.



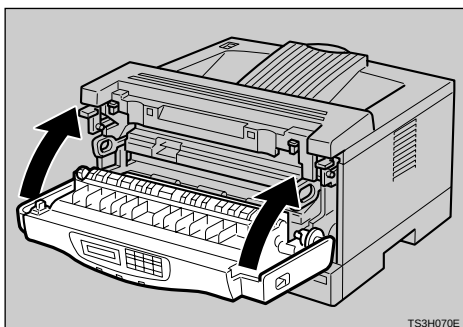
- 3** Clean the three rubber parts of the rollers with a soft damp cloth. After wiping them with a damp cloth, wipe them with a dry cloth to remove the water.



⚠ Important

- ☐ Do not use chemical cleaner or organic solvent such as thinner or benzene.

4 Close the front cover.

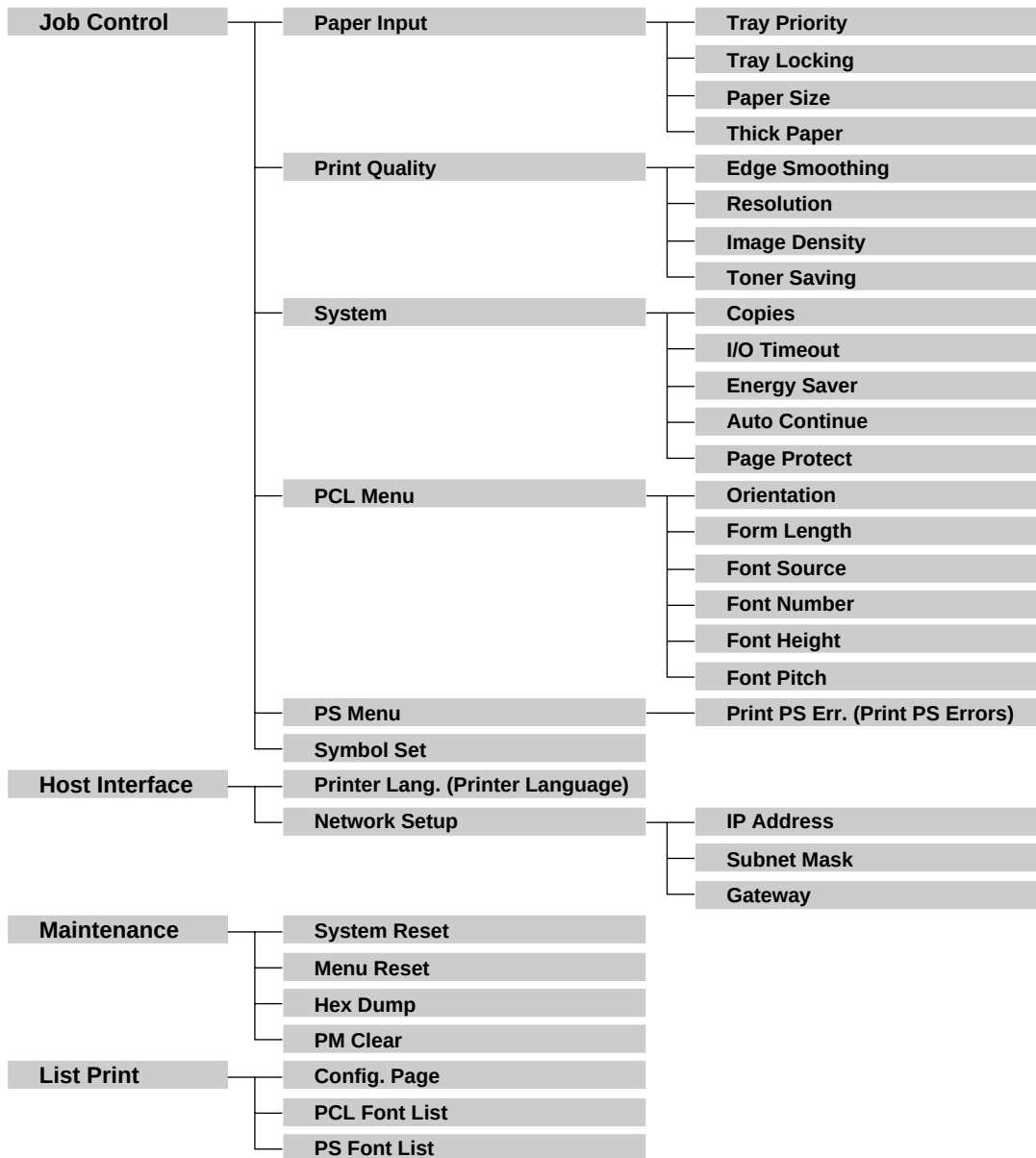


5 Turn the printer's power switch on.

11. Making Printer Settings with the Operation Panel

Menu Chart

This section describes how to change the default settings of your printer and provides information on the parameters included in each menu.



Accessing the Main Menu

Press **[Menu]**, and the Main menu appears.

The Main menu has the following four menu items, which can be displayed one by one using **[▲]** or **[▼]**.

- Job Control
- Host Interface
- Maintenance
- List Print

Note

- ☐ **[▼]**: Press to go to the next page.
- ☐ **[▲]**: Press to go back to the previous page.
- ☐ After making the printer's settings, be sure to return to the previous menu by pressing **[Escape]**.
- ☐ After making the printer's settings, press **[On Line]** to return to the ready condition.
- ☐ The revised settings are not canceled even if the printer's power switch is turned off.

Making Printer Settings with the Operation Panel

1 Press **[Menu]**.

The Main Menu appears.

2 Search for the desired menu with **[▲]** or **[▼]**.

The desired menu item appears.

3 Press **[Enter]**.

4 Search for the desired menu with **[▲]** or **[▼]**.

The desired menu item or parameter appears.

Note

- ☐ “▶” shown in front of the tray name indicates the tray that is currently specified.

5 Press **[Enter]**.

The specified item will be displayed in the panel display.

6 If necessary, repeat steps **4** and **5** until you complete the desired settings.

Note

- ☐ **[Escape]**: Press to return to the previous menu. If you press this key before pressing **[Escape]**, the adjusted data is canceled.

Job Control Menu

There are 6 menu items in the Job Control Menu.

- Paper Input
- Print Quality
- System
- PCL Menu
- PS Menu
- Symbol Set

Job Control Parameters

❖ Paper Input ¹/₂

Menu	Description
Tray Priority	You can specify which tray should be searched first when “Auto Select” is specified in the Paper Source selections using the printer driver. In DOS printing, the tray specified here is used, when no tray is specified for a print job. Bypass Tray, Tray1, Tray 2, Tray 3  Note ☐ Default: <i>Tray1</i> ☐ Only the installed trays appear on the panel display. ☐ It is recommended that you load paper having the size and direction you frequently use in the tray selected with the “Tray Priority”.
Tray Locking	If you use several different kinds of paper, you can lock a tray to prevent printing on wrong paper, such as letterhead or colored paper. When “Auto Select” is specified in the Paper Source selections using the printer driver, the locked tray will not be used. None, Bypass Tray, Tray1, Tray 2, Tray 3  Note ☐ Default: <i>None</i> ☐ Only the installed trays appear on the panel display. ☐ You can't lock multiple trays at once. ☐ When “Auto Select” is specified without specifying the paper size using the printer driver, the printer searches for a tray that has the same paper size as that of the priority tray. If the priority tray is locked, the printer searches for another tray that has the same paper size. ☐ When a locked tray is specified using the printer driver, the printer doesn't search for any other tray.

❖ Paper Input ²/₂

Menu	Description
Paper Size	You should specify the paper size for the bypass tray, optional envelope feeder, and for those not indicated on the paper size dials of the Tray 1, Tray 2 and Tray3. When you specify the sizes that are not indicated on the paper size dial of Tray 1, Tray 2, or Tray 3, you should set the dial to “✖” and then specify the paper size here. The dial settings override settings made here. ❖ Bypass Tray For information on paper sizes that can be set in the bypass tray, see P.63 “<i>Paper and Other Media Supported by Your Printer</i>”. ❖ Tray1 For information on paper sizes that can be set in Tray 1, see P.63 “<i>Paper and Other Media Supported by Your Printer</i>”. ❖ Tray 2 (option) For information on paper sizes that can be set in Tray2, see P.63 “<i>Paper and Other Media Supported by Your Printer</i>”.  Note ☐ When the optional envelope feeder is not installed, you should not specify the size for envelopes. ❖ Tray 3 (option, Type 1 Printer only) For information on paper sizes that can be set in Tray 3, see P.63 “<i>Paper and Other Media Supported by Your Printer</i>”.
Thick Paper	You can enhance the image quality for printing on thick paper. When the toner is not fused enough, set this feature to “On”. If the image is blurred, set it to “----”. • Off • On • ----  Note ☐ Default: <i>Off</i> ☐ You don't have to set this feature to “On” or “----” every time you use thick paper. Try printing with this feature off, and if you want to enhance the image quality, adjust it using this feature.

◆ Print Quality

Menu	Description
EdgeSmoothing	You can specify whether the Edge Smoothing feature is enabled. • On • Off  Note ☐ Default: <i>On</i> ☐ If “Toner Saving” is “On”, “EdgeSmoothing” is ignored even if it is “On”. ☐ “EdgeSmoothing” is not effective when 1200dpi resolution is selected.
Resolution	You can specify the print resolution in dots per inch. • 300dpi (PCL 5e, PS) • 600dpi (PCL 5e, PCL 6, PS) • 1200dpi (PCL 6, PS)  Note ☐ Default: <i>600dpi</i> ☐ The resolution specified with the printer driver overrides the one specified here.
Image Density	You can specify the print image density. Very Light, Light, Normal, Dark, Very Dark  Note ☐ Default: <i>Normal</i>
Toner Saving	You can specify whether or not the Toner Saving feature is enabled. • Off • On  Note ☐ Default: <i>Off</i> ☐ If the “Toner Saving” is “On”, the “EdgeSmoothing” is ignored even if it is “On”.

❖ System ¹/₂

Menu	Description
Copies	You can specify how many copies are printed. 1- 999  Note ☐ Default: 1
I/O Timeout	You can specify for how many seconds your printer should wait before ending a print job. If data from other ports often appear in the middle of your print job, you should increase the timeout value. 15 seconds, 30 seconds, 60 seconds, 180 seconds, 300 seconds  Note ☐ Default: 30 seconds
Energy Saver	You can specify how any minutes or hours the printer wait before switching to Energy Saver mode. Energy Saver mode reduces electric power consumption. Off, 15 minutes, 30 minutes, 1 hour, 2 hours, 3 hours  Note ☐ Default: 30 minutes ☐ If there is an error in your printer, the printer will not turn into the Energy Saver mode. ☐ When the printer switches to Energy Saver mode, the Power indicator turns off, while the On Line indicator stays on.

❖ System 2₁/₂

Menu	Description
Auto Continue	You can specify whether or not Auto Continue feature is enabled. When it is set to “On”, the printing continues even if the following error messages appear on the display. “Load Tray XX {paper size}” / “Load Bypass Tray {paper size}” / “Print Overrun” / “Memory Overflow” • Off • On  Note ☐ When it is “On”, and certain type of error occurs, the current job might be canceled, and the machine automatically resumes the next job. ☐ Default: <i>Off</i>
Page Protect	When a “Print Overrun” message appears on the panel display, set this feature to “On”, and press [Enter] for all pages to be printed. • Auto • On  Note ☐ Default: <i>Auto</i>

❖ PCL Menu

Menu	Description
Orientation	You can specify the page orientation. • Portrait • Landscape  Note ☐ Default: <i>Portrait</i>
Form Length	You can specify the number of lines per page. 5-128  Note ☐ Default: <i>60</i>
Font Source	You can specify the location of the default font. • Internal • Download  Note ☐ Default: <i>Internal</i>
Font Number	You can specify the value for the default font you want to use. • 0 to 50 (for Internal) • 1 to 50 (for Download source)  Note ☐ Default: <i>0 (for Internal)</i>
Font Height	You can specify the value for the point size you want to use for the selected font. 4.00 to 999.75 by 0.25  Note ☐ Default: <i>12.00</i>
Font Pitch	You can specify the number of characters per inch you want to use for the selected font. 0.44 to 99.99 by 0.01  Note ☐ Default: <i>10.00</i>

❖ PS Menu

Menu	Description
Print PS Err. (Print PS Errors)	You can specify whether the PS error sheet should be printed out. • On • Off  Note ☐ Default: <i>Off</i>

❖ Symbol Set

Menu	Description
Symbol Set	You can specify the set of print characters for the selected font. The available options are as follows. Roman8, ISO L1, ISO L2, ISO 15, ISO 6, PC-8, PC-8 dn, PC-850, PC-852, PC-8 tk, PC-775, PC-1004, Win L1, Win L2, Win L5, Win BALT, Desktop, PS Text, MS Publ, Math-8, PS Math, Pifont, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0, MS Text  Note ☐ Default: <i>Roman8</i>

Host Interface Menu

There are 2 menu items in the Host Interface Menu.

- Printer Lang.(Printer Language)
- Network Setup ⇒ P.25 “Configuring the Printer for the Network with the Operation Panel”

Note

- ☐ This “Network Setup” menu appears only when you are using the optional network interface board.

Host Interface Parameters

◆ Printer Lang. (Printer Language)

Menu	Description
Printer Lang. (Printer Language)	You can specify the printer language you want to use for the print jobs. When “Auto Sense” is specified, the printer will automatically switch from one language to the right one. • Auto Sense • PCL • PS  Note ☐ Default: <i>Auto Sense</i>

◆ Network Setup

Menu	Description
IP Address	You can specify the IP Address.  Note ☐ Default: <i>All zero</i>
Subnet Mask	You can specify the Subnet Mask.  Note ☐ Default: <i>255.000.000.000</i>
Gateway	You can specify the Gateway Address.  Note ☐ Default: <i>All zero</i>

Maintenance Menu

There are 4 menu items in the Maintenance Menu.

- System Reset
- Menu Reset
- Hex Dump
- PM Clear

Maintenance Parameters

❖ Maintenance

Menu	Description
System Reset	You can initialize the printer.
Menu Reset	You can reset the menu settings to the factory defaults.
Hex Dump	You can specify to isolate the source of a print job problem. With this feature “On”, all data sent to the printer is printed in hexadecimal character representation. • On • Off  Note ☐ Default: <i>Off</i>
PM Clear (Type 2 Printer only)	After replacing the parts included in the Maintenance Kit, perform this setting to clear the “Replace Maintenance Kit” message on the panel display.

List Print Menu

There are 3 menu items in the List Print Menu.

- Config. Page
- PCL Font List
- PS Font List

List Print Parameters

◆ List Print

Menu	Description
Config. Page	You can print a Configuration Page.
PCL Font List	You can print a PCL Font List.
PS Font List	You can print a PS Font List.

Interpreting the Configuration Page

Reference

❖ Firmware Version

This shows the version number of the printer PCL firmware.

❖ Engine version

This is the number assigned to the printer board by its manufacturer.

❖ Pages Printed

This is the total number of pages printed by the printer to date.

❖ Maintenance Counter

This is the counter used for the scheduled maintenance.

❖ Total Installed RAM

This is the total amount of memory (SIMM) installed on the printer.

❖ Network Card

This item appears when the optional network interface board is installed.

Paper Input

Shows the settings you make with the “Paper Input” of the “Job Control” menu.

Reference

For details on the “Paper Input”, see P.125 “*Paper Input 1/2*” and P.126 “*Paper Input 2/2*”.

Print Quality

Shows the settings you make with the “Print Quality” of the “Job Control” menu.

Reference

For details on the “Print Quality”, see P.127 “*Print Quality*”.

System

Shows the settings you make with the “System” of the “Job Control” menu.

Reference

For details on the “System”, see P.129 “*System 2/2*”.

PCL Menu

Shows the settings you make with the “PCL Menu” of the “Job Control” menu.

Reference

For details on the “PCL Menu”, see P.130 “*PCL Menu*”.

Host Interface

❖ **Printer Lang. (Printer Language)**

Shows the printer languages specified with the “Printer Lang.” of the “Host Interface” menu.

Reference

For details on the “Printer Lang.”, see P.132 “*Printer Lang. (Printer Language)*”.

❖ **Network Setup**

This item appears when the optional network interface board is installed. Shows the configuration specified with the “Network Setup” of the “Host Interface” menu.

Reference

For details on the “Network Setup”, see P.25 “*Setting Up the IP Parameters*” or P.132 “*Network Setup*”.

Ethernet

This item appears when the optional network interface board is installed. Shows the network configuration you specified and other optional network interface board information.

PostScript

Shows the version of PostScript on your printer. Also you can see the settings of the “PS Menu” of the “Job Control” menu.

Reference

For details on the “PS Menu”, see P.131 “*PS Menu*”.

Replacing Parts

The maintenance kit includes parts necessary for maintaining the printer. When “Replace Maintenance Kit” appears on the panel display, install the replacement parts included in the maintenance kit.

 WARNING:

- *It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.*

 CAUTION:

- *The inside of the machine could be very hot. Do not touch the parts with a label indicating the “hot surface”. Otherwise, it could cause a personal burn.*
- *When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing fire or electric shock.*
- *Make sure to turn off the printer and wait for about 30 minutes before replacing parts. Not waiting for the printer to cool down can result in a burn.*
- *Type 2 Printer: The paper tray does not have a stopper. When pulling it out, be careful not to pull it strongly. If you do, the tray might fall and cause personal injury.*

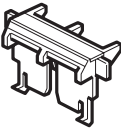
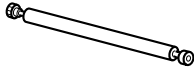
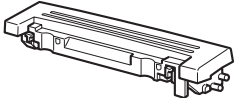
 Note

- ☐ If you dispose of the used parts yourself, dispose of them according to your local regulations.

Type 1 Printer: Maintenance Kit Type 2000

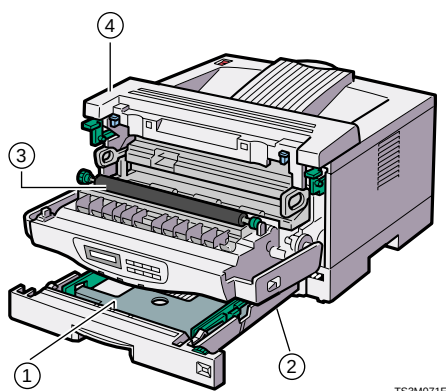
Checking the contents of the box

Check the contents of the box according to the following list. If one or more of the items are missing, please contact your sales or service representative.

Description	Quantity		
Friction pad	1 pc		⇒ P.139 "Replacing the friction pad"
Paper feed roller	3 pcs		Note ☐ One is for the standard tray, and the rest for the trays of the optional paper feed units. ⇒ P.141 "Replacing the paper feed rollers"
Transfer roller	1 pc		⇒ P.142 "Replacing the transfer roller"
Gloves	1 pair		
Fusing Unit	1 pc		⇒ P.142 "Replacing the fusing unit"

Replacement parts

You should replace all the parts included in the maintenance kit at the same time. Be sure to replace them in the following order:



- ① Friction pad
- ② Paper feed roller
- ③ Transfer roller
- ④ Fusing unit

Preparing to replace the parts

Important

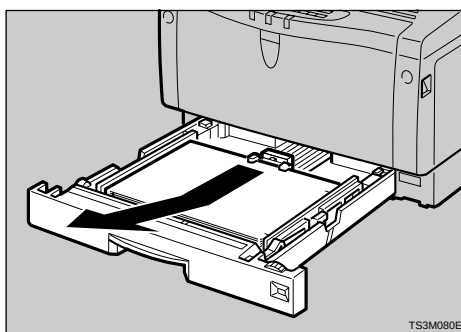
- ☐ Be sure to follow the steps below before replacing the parts.

- 1** Turn the printer's power switch off.
- 2** Pull the plug out of the wall socket.
- 3** Remove the interface cable from the printer.

Replacing the friction pad

Replace the friction pad of the standard tray (tray 1). It is not necessary to replace the friction pad of the optional paper tray(s).

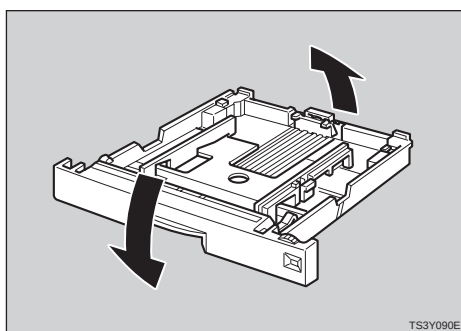
- 1** Pull the tray until it stops. After that, lift it slightly, then pull it out of the printer.



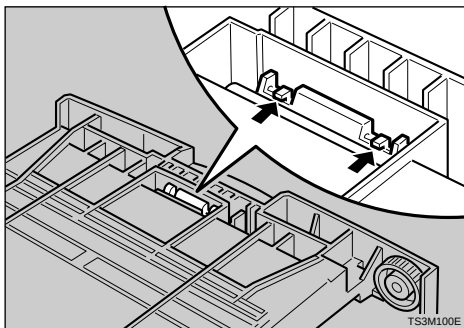
Note

- ☐ Do not touch the three white pins on the right side of the printer.

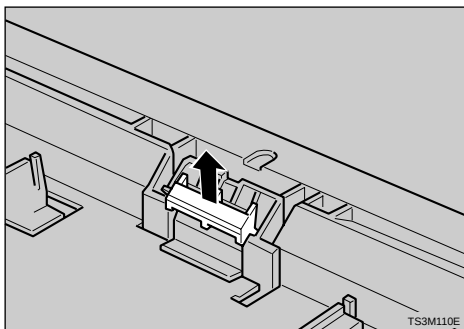
- 2** Remove paper from the paper tray. Turn the tray upside down and place it on a flat surface.



- 3** Release the two black catches, that lock the friction pad, using a sharp-pointed item such as a ball-point pen.

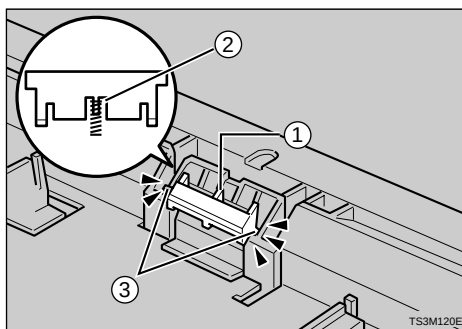


- 4** Turn the paper tray to the original position, and remove the friction pad from the tray.



- 5** Insert the new friction pad in the paper tray. When inserting, note the following:

- 1** The three triangular projections should be facing toward the front side of the tray as shown in the illustration.
- 2** Align the center projection of the new friction pad to the spring of the paper tray.
- 3** Also, align the projections of both sides of the friction pad to the holes of the paper tray as shown in the illustration.



- 6** Push the friction pad until it locks securely.

Important

- ☐ To be sure the friction pad is set correctly, gently push it a few times. If the friction pad rebounds with the force of the spring, the pad has been set correctly.

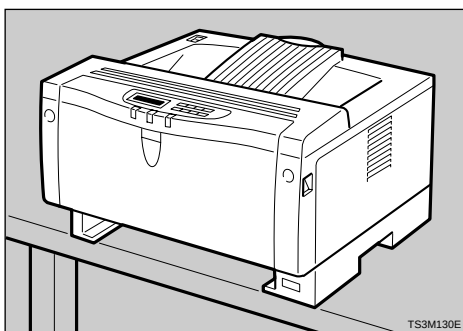
- 7** Leave the paper tray pulled out and go to P.141 "Replacing the paper feed rollers".

Replacing the paper feed rollers

⚠ CAUTION:

- When lifting the machine, use the inset grips on both sides of the machine. Otherwise, the machine might fall and cause personal injury.

- 1 Move the printer to the edge of a sturdy and stable table or desk.



⚡ Important

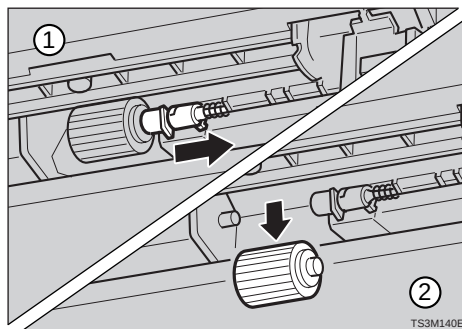
- ❑ Do not put the printer on an unstable or tilted surface.

📌 Note

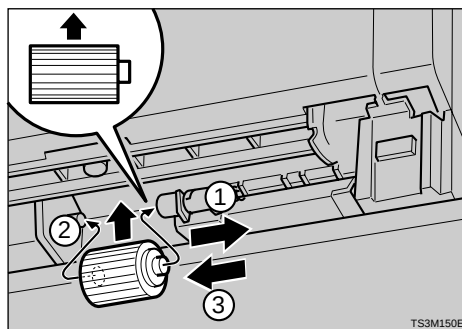
- ❑ If the optional paper feed unit is equipped with your printer, do not move the printer and the unit together as they are not securely attached.

- 2 When looking inside where the paper tray was installed, you can see the paper feed roller. Slide the green lock lever to the right (①),

so that the paper feed roller will be released (②).



- 3 Set the new paper feed roller. While sliding the green lock lever to the right (①), set the new roller (②). After that, return the green lock lever to its original position (③).



📌 Note

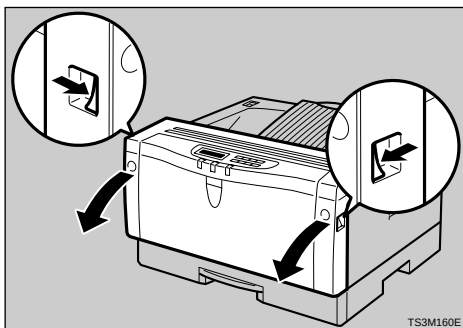
- ❑ Confirm that the green lock lever secures the roller correctly by checking if the new roller rotates smoothly.

- 4 If your printer is equipped with the optional paper feed unit(s), follow the same procedure to replace the paper feed roller of the optional paper feed unit(s).

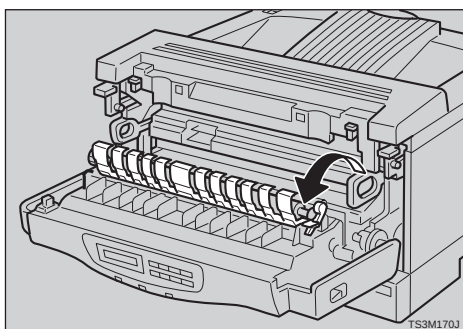
- 5 Leave the paper tray pulled out and go to P.142 "Replacing the transfer roller".

Replacing the transfer roller

- 1 Open the front cover by pulling the front cover release buttons.

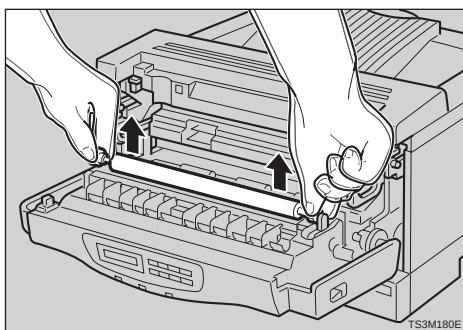


- 2 Open the transfer roller cover.

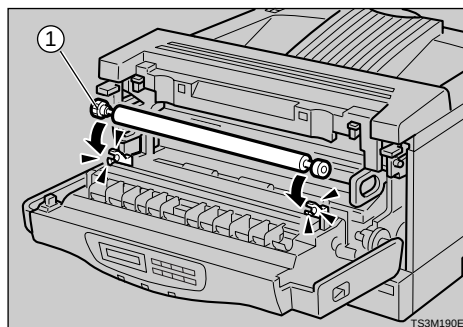


- 3 Wear the gloves included in the maintenance kit to avoid making your hands dirty with toner on the transfer roller.

- 4 Hold the both sides of the roller (green parts), and remove the roller from the printer as shown in the illustration.



- 5 Insert the new transfer roller. When placing it, the green gear of the roller should be positioned on the left (1) as shown in the illustration.



- 6 Close the transfer roller cover.

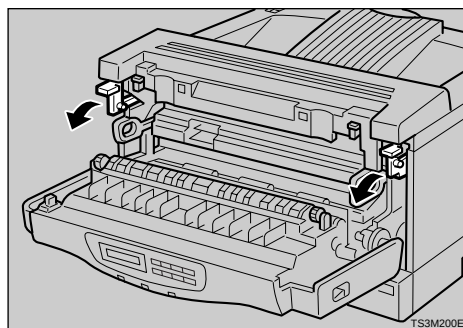
- 7 Take gloves off. Leave the paper tray pulled out and the front cover opened, go to P.142 "Replacing the fusing unit".

Replacing the fusing unit

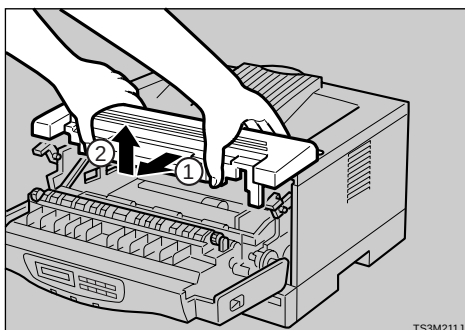
⚠ CAUTION:

- The fusing unit could be very hot. When installing the new fusing unit, turn off the printer and wait about 30 minutes. After waiting, install the new fusing unit. Not waiting for the unit to cool down can result in a burn.

- 1 Push the brown fusing unit lock levers.



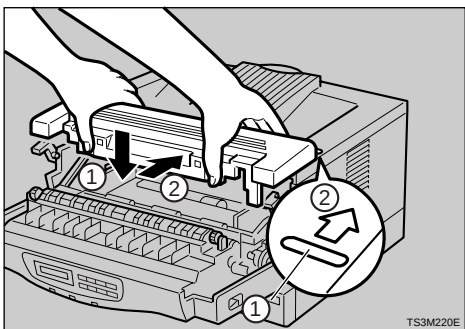
- 2** Slide the fusing unit toward you (①), and remove it from the printer (②) as shown in the illustration.



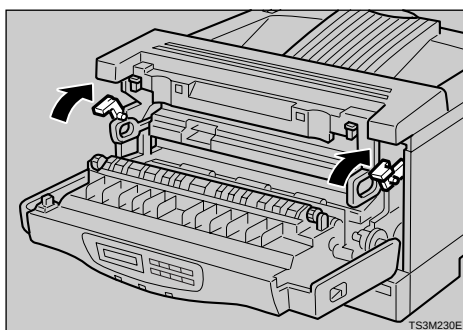
Note

- ☐ Be careful not to drop the fusing unit.

- 3** Align the new fusing unit with the mark on the printer (①), and then slide it in (②) as shown in the illustration.



- 4** Return the brown fusing unit lock levers to their original positions.

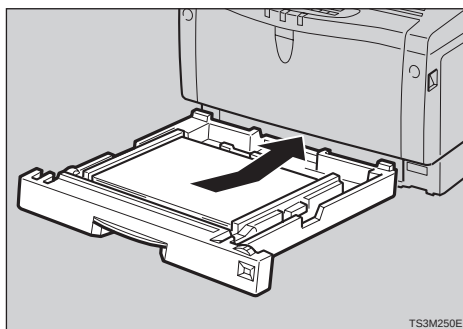


- 5** Close the front cover.

Printing the test page

You can confirm that the printer works properly by printing a test page (configuration page).

- 1** Load paper with the print side up into the paper tray. While lifting the front side of the tray, place the paper tray into the printer. Then, slide it into the printer until it stops.



Note

- ☐ If you have optional paper trays, repeat the above procedure for those trays.

2 Move the printer to the place where it was installed. If you have the optional paper feed unit(s), place the printer securely on the unit(s).

3 Insert the plug of the power cord securely into the wall socket. Turn the printer's power switch on.

4 Print the test page following the procedure below:

1 Press **[Menu]**.

The following message appears on the panel display.

```
Main Menu:  ▲
             ▼
Job Control
```

2 Press **[▲][▼]** until the following message appears on the panel display.

```
Main Menu:  ▲
             ▼
List Print
```

3 Press **[Enter]**.

The following message appears on the panel display.

```
List Print:  ▲
             ▼
1.Config. Page
```

4 Press **[Enter]**.

The following message appears on the panel display.

```
Config. Page:
Press Enter Key
```

5 Press **[Enter]**.

In a short time, the test printing will start.

5 If you can complete the test printing completely, turn off the printer's power switch.

 Note

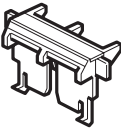
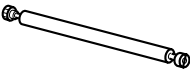
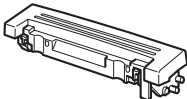
☐ If you cannot complete the test printing completely, confirm that all of the parts are installed correctly referring to the mentioned procedures.

6 Attach the interface cable to the interface connector of your printer. Turn on the printer's power switch.

Type 2 Printer: Maintenance Kit Type 1400

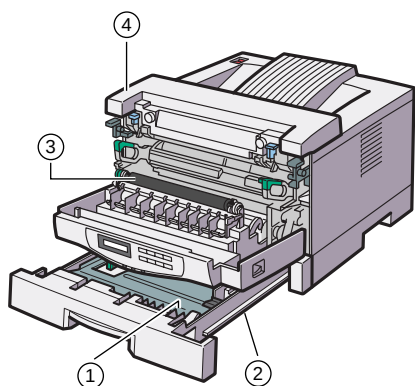
Checking the contents of the box

Check the contents of the box according to the following list. If one or more of the items are missing, please contact your sales or service representative.

Description	Quantity		
Friction pad	1 pc		⇒ P.146 "Replacing the friction pad"
Paper feed roller	1 pc		⇒ P.148 "Replacing the paper feed roller"
Transfer roller	1 pc		⇒ P.149 "Replacing the transfer roller"
Gloves	1 pair		
Fusing Unit	1 pc		⇒ P.149 "Replacing the fusing unit"

Replacement parts

You should replace all the parts included in the maintenance kit at the same time. Be sure to replace them in the following order:



TS4M071E

- ① Friction pad
- ② Paper feed roller
- ③ Transfer roller
- ④ Fusing unit

Preparing to replace the parts

Important

- ☐ Be sure to follow the steps below before replacing the parts.

- 1** Turn the printer's power switch off.
- 2** Pull the plug out of the wall socket.
- 3** Remove the interface cable from the printer.

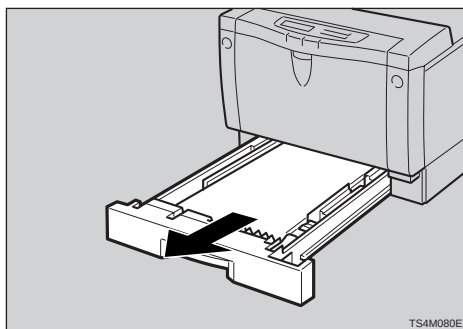
Replacing the friction pad

Replace the friction pad of the standard tray (tray 1). It is not necessary to replace the friction pad of the optional paper tray(s).

CAUTION:

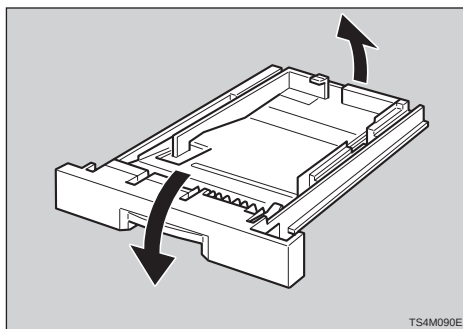
- The paper tray does not have a stopper. When pulling it out, be careful not to pull it strongly. If you do, the tray might fall and cause personal injury.

- 1** Pull the tray out of the printer.



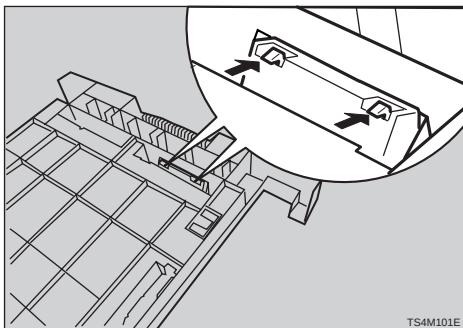
TS4M080E

- 2** Remove paper from the paper tray. Turn the tray upside down and place it on a flat surface.

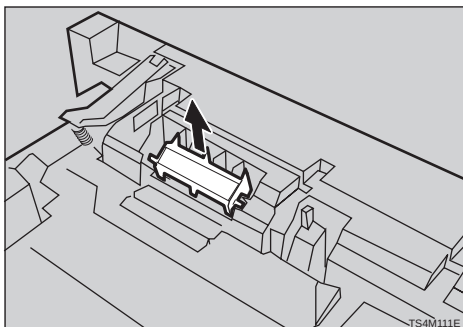


TS4M090E

- 3** Release the two black catches, that lock the friction pad, using a sharp-pointed item such as a ball-point pen.

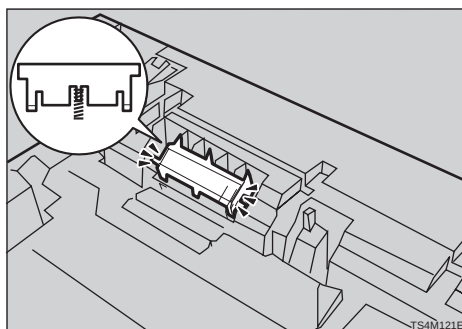


- 4** Turn the paper tray to the original position, and remove the friction pad from the tray.



- 5** Insert the new friction pad in the paper tray. When inserting, note the following:

- 1** The three triangular projections should be facing toward the front side of the tray as shown in the illustration.
- 2** Align the center projection of the new friction pad to the spring of the paper tray.
- 3** Also, align the projections of both sides of the friction pad to the holes of the paper tray as shown in the illustration.



- 6** Push the friction pad until it locks securely.

Important

- ☐ To be sure the friction pad is set correctly, gently push it a few times. If the friction pad rebounds with the force of the spring, the pad has been set correctly.

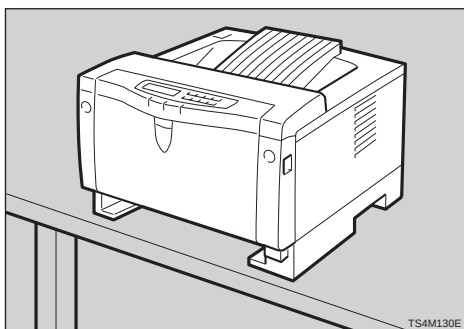
- 7** Leave the paper tray pulled out and go to P.148 "Replacing the paper feed roller".

Replacing the paper feed roller

⚠ CAUTION:

- When lifting the machine, use the inset grips on both sides of the machine. Otherwise, the machine might fall and cause personal injury.

- 1 Move the printer to the edge of a sturdy and stable table or desk.



⚠ Important

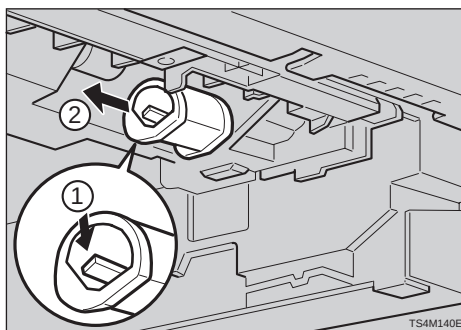
- ❑ Do not put the printer on an unstable or tilted surface.

📌 Note

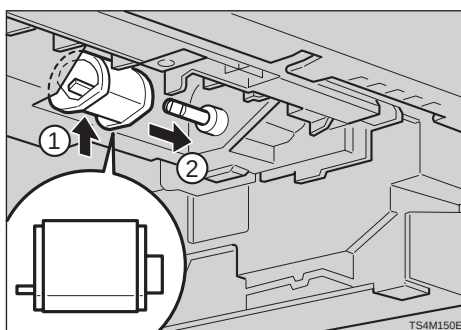
- ❑ If the optional paper feed unit is equipped with your printer, do not move the printer and the unit together as they are not securely attached.

- 2 When looking inside where the paper tray was installed, you can see the paper feed roller. While pinching the stopper inside the roller with fingers (①), slide it to

the left, so that the paper feed roller can be released (②).



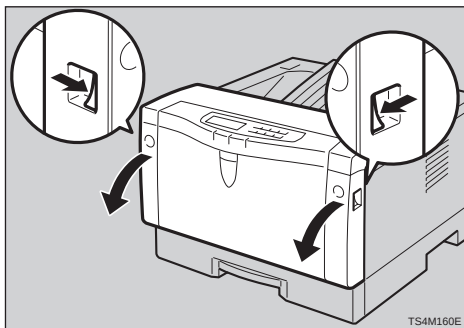
- 3 Set the new paper feed roller. With the round part of the roller facing up (①), insert the roller into the shaft until the roller clicks into position (②).



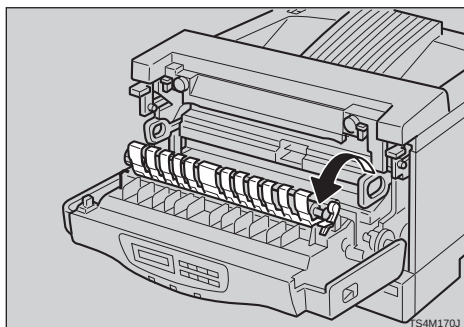
- 4 Leave the paper tray pulled out and go to P.149 "Replacing the transfer roller".

Replacing the transfer roller

- 1** Open the front cover by pulling the front cover release buttons.

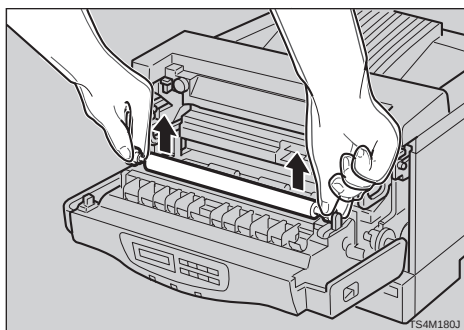


- 2** Open the transfer roller cover.

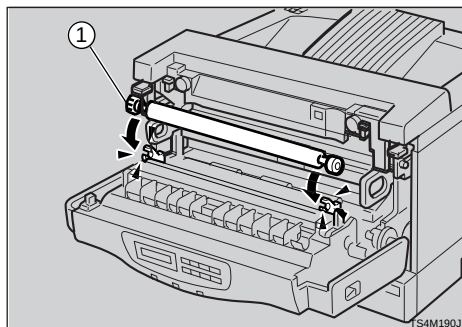


- 3** Wear the gloves included in the maintenance kit to avoid making your hands dirty with toner on the transfer roller.

- 4** Hold the both sides of the roller (green parts), and remove the roller from the printer as shown in the illustration.



- 5** Insert the new transfer roller. When placing it, the green gear of the roller should be positioned on the left (①) as shown in the illustration.



- 6** Close the transfer roller cover.

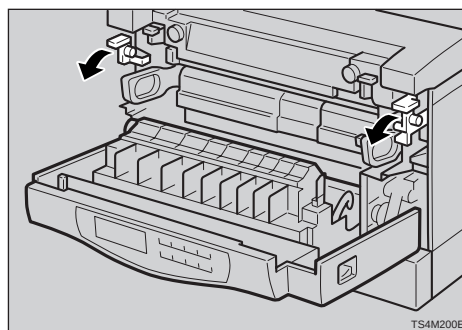
- 7** Take gloves off. Leave the paper tray pulled out and the front cover opened, go to P.149 "Replacing the fusing unit".

Replacing the fusing unit

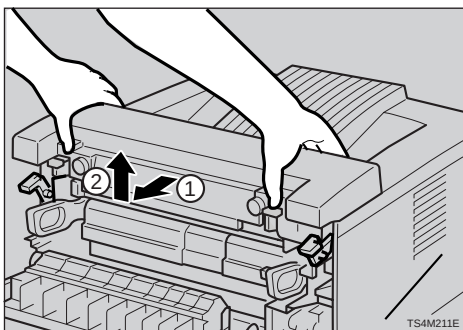
⚠ CAUTION:

- The fusing unit could be very hot. When installing the new fusing unit, turn off the printer and wait about 30 minutes. After waiting, install the new fusing unit. Not waiting for the unit to cool down can result in a burn.

- 1** Push the brown fusing unit lock levers.



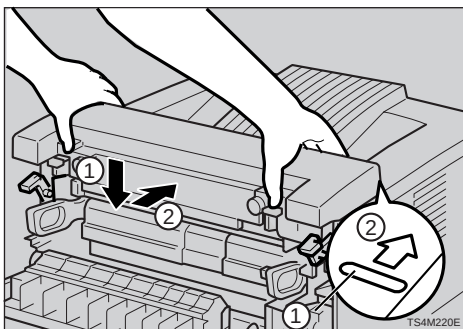
- 2** Slide the fusing unit toward you (①), and remove it from the printer (②) as shown in the illustration.



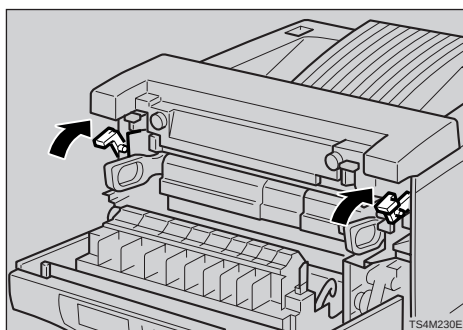
Note

- ☐ Be careful not to drop the fusing unit.

- 3** Align the new fusing unit with the mark on the printer (①), and then slide it in (②) as shown in the illustration.



- 4** Return the brown fusing unit lock levers to their original positions.

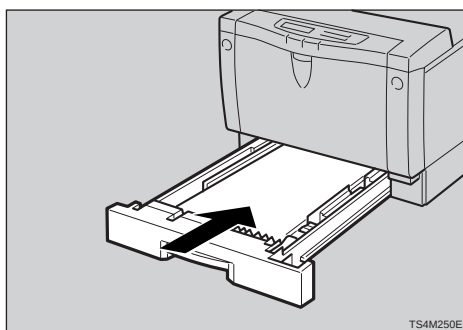


- 5** Close the front cover.

Printing the test page

You can confirm that the printer works properly by printing a test page (configuration page).

- 1** Insert the plug of the power cord securely into the wall socket. Turn the printer's power switch on.
- 2** Load paper with the print side up into the paper tray. Slide the paper tray into the printer until it stops.



Note

- ☐ If you have an optional paper feed unit, repeat the above procedure for the tray.

- 3** Move the printer to the place where it was installed. If you have the optional paper feed unit, place the printer securely on the unit.

- 4** Print the test page following the procedure below:

- 1** Press **[Menu]**.

The following message appears on the panel display.

```
Main Menu:  ▲
Job Control ▼
```

- 2** Press **[▲][▼]** until the following message appears on the panel display.

```
Main Menu:  ▲
List Print  ▼
```

- 3** Press **[Enter]**.

The following message appears on the panel display.

```
List Print:  ▲
1.Config. Page ▼
```

- 4** Press **[Enter]**.

The following message appears on the panel display.

```
Config. Page
Press Enter Key
```

- 5** Press **[Enter]**.

In a short time, the test printing will start.

- 5** If you can complete the test printing completely, turn off the printer's power switch.

Note

- ☐ If you cannot complete the test printing completely, confirm that all of the parts are installed correctly referring to the mentioned procedures.

- 6** Attach the interface cable to the interface connector of your printer. Turn on the printer's power switch.

Clearing the maintenance condition

After replacing all of the parts, follow the steps below to clear the "Replace Maintenance Kit" message on the panel display.

- 1** Make sure the following message appears on the panel display.

```
Replace
Maintenance Kit
```

- 2** Press **[Menu]**.

The following message appears on the panel display.

```
Main Menu:  ▲
Job Control ▼
```

- 3** Press **[▲][▼]** until the following message appears on the panel display.

```
Main Menu:  ▲
Maintenance ▼
```

- 4** Press **[Enter]**.

The following message appears on the panel display.

```
Maintenance:  ▲
1.System Reset ▼
```

- 5** Press **【▼】** until the following message appears on the panel display.

Maintenance:	▲
4.PM Clear	▼

- 6** Press **【Enter】**.

The following message appears on the panel display.

PM Clear:	▲
Yes=#	▼

- 7** Press **【Enter】** to clear the maintenance condition. Wait for a while.

The following message appears on the panel display after about three seconds.

Maintenance:	▲
4.PM Clear	▼

- 8** Press **【On Line】**.

The following message appears on the panel display.

Ready

Memory Capacity and Paper Size

The following table shows the typical memory requirements for each printer language.

Note

☐ Memory requirement depends on your print data and printing environment.

◆ Metric version

	PCL 5e		PCL 6(XL)		PostScript		
	300dpi	600dpi	600dpi	1200dpi	300dpi	600dpi	1200dpi
A4 Text Only	4MB	4MB	4MB	8MB	4MB	4MB	8MB
A4 Text and Graphics	4MB	4MB	4MB	8MB	4MB	4MB	8MB
A4 Full Bitmap	4MB	8MB	8MB	20MB	4MB	12MB	36MB
A3 Text Only	8MB	8MB	8MB	16MB	8MB	8MB	8MB
A3 Text and Graphics	8MB	8MB	8MB	16MB	8MB	8MB	8MB
A3 Full Bitmap	8MB	16MB	16MB	40MB	8MB	16MB	40MB

◆ Inch version

	PCL 5e		PCL 6(XL)		PostScript		
	300dpi	600dpi	600dpi	1200dpi	300dpi	600dpi	1200dpi
8 ¹ / ₂ " × 11" Text Only	4MB	4MB	4MB	8MB	4MB	4MB	8MB
8 ¹ / ₂ " × 11" Text and Graphics	4MB	4MB	4MB	8MB	4MB	4MB	8MB
8 ¹ / ₂ " × 11" Full Bitmap	4MB	8MB	8MB	20MB	4MB	12MB	36MB
11" × 17" Text Only	8MB	8MB	8MB	16MB	8MB	8MB	8MB
11" × 17" Text and Graphics	8MB	8MB	8MB	16MB	8MB	8MB	8MB
11" × 17" Full Bitmap	8MB	16MB	16MB	40MB	8MB	16MB	40MB

Moving and Transporting the Printer

CAUTION:

- *When lifting the machine, use the inset grips on both sides of the machine. Otherwise, the machine might fall and cause personal injury.*
- *When you move the machine, unplug the power cord from the wall outlet to avoid a fire or an electric shock.*
- *When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing a fire or an electric shock.*

Repack the printer in its original packing materials for transporting.

Important

- ☐ Be sure to disconnect all cables from the printer before transporting it.
- ☐ The printer is a precision piece of machinery. Take care to avoid damage during shipment.

Specifications

Mainframe

Note

- ☐ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

❖ **Configuration:**

Desktop

❖ **Print Process:**

Laser beam scanning & Electrophotographic printing
Monocomponent development

❖ **Printing Speed:**

Type 1 Printer:

Maximum 20 pages per minute (A4 , 8 1/2" × 11" )

Type 2 Printer:

Maximum 14 pages per minute (A4 , 8 1/2" × 11" )

❖ **Parallel Interface:**

Interface

Standard 36-pin printer cable and a parallel port on the host computer
IEEE 1284 I/F(Compatible, ECP, Nibble)

- Do not use a cable more than 2.5 meters (8.2 feet) long.

❖ **Resolution:**

1,200 × 1,200 dpi (PCL 6, PS)

600 × 600 dpi (PCL 5e, PCL 6, PS)

300 × 300 dpi (PCL 5e, PS)

❖ **Printer Language:**

PCL 5e Emulation, PCL 6(5e+XL) Emulation, PostScript® Level2 Emulation,
Auto Sense

❖ **Fonts:**

PCL 5e, PCL 6

35 Intellifonts, 10 True Type fonts, and 1 Bitmap font

Font Manager available, plus 61 additional fonts ⇒ P.47 “Installing the Font Manager”

PostScript

35 Adobe Type 1 fonts

❖ **Paper size:**

⇒ P.63 “Paper and Other Media Supported by Your Printer”

❖ **Paper Weight:**⇒ P.63 *"Paper and Other Media Supported by Your Printer"*❖ **Power Source:**

⇒ inside of the front cover of this manual

❖ **Power Consumption:**

	Type 1 Printer	Type 2 Printer
Maximum	795 W or less	600 W or less
Printing	480 W or less	380 W or less
Energy Saver	30 W or less	30 W or less

❖ **Noise Emission** ^{*1} ^{*2}

(Sound Power Level):

	Type 1 PrinterFull system	Type 2 Printer Full System
Printing	64 dB (A)	59 dB (A)
Stand-by	48 dB (A)	48 dB (A)

(Sound Power Level Per ISO9296):

	Type 1 PrinterFull system	Type 2 Printer Full System
Printing	6.7 Bels (A)	6.2 Bels (A)
Stand-by	5.1 Bels (A)	5.1 Bels (A)

^{*1} The above measurements are made in accordance with ISO7779^{*2} Full system : printer with all options❖ **Dimensions:**❖ **Type 1 Printer** ^{*1}

	Width	Depth	Height
Printer only (tray not extended)	450 mm (17.7")	420 mm (16.6")	270 mm (10.6")
Printer only (tray extended)	450 mm (17.7")	555 mm (21.9")	270 mm (10.6")
With one optional feed unit	450 mm (17.7")	420 mm (16.6")	392 mm (15.4")
With two optional feed units	450 mm (17.7")	420 mm (16.6")	513 mm (20.2")

^{*1} Measurement conditions: With paper tray, bypass tray and output tray extender closed.

❖ Type 2 Printer ^{*1}

	Width	Depth	Height
Printer only	360 mm (14.2")	420 mm (16.6")	270 mm (10.6")
With one optional feed unit	360 mm (14.2")	420 mm (16.6")	395 mm (15.6")

^{*1} Measurement conditions: With paper tray and bypass tray closed.

❖ Weight:

Type 1 Printer

Approximately 15 kg (33 lb) (toner cartridge and power cord included)

Type 2 Printer

Approximately 12 kg (27 lb) (toner cartridge and power cord included)

❖ Warm-up Time:

Type 1 Printer

Less than 39 seconds (23°C)

Type 2 Printer

Less than 39 seconds (23°C)

❖ Paper Capacity:

❖ Type 1 Printer

Standard paper tray	250 sheets ^{*1}
Bypass tray	100 sheets ^{*1}
Optional paper feed unit × 2	500 sheets × 2 ^{*1}
Optional envelope feeder ^{*2}	60 envelopes ^{*3}

^{*1} Paper weight: 80 g/m², 20 lb

^{*2} To use the envelope feeder, the optional paper feed unit is required. The paper tray of the feed unit can be replaced with the envelope feeder.

^{*3} For more information on envelopes, see P.72 "Paper types and cautions".

❖ Type 2 Printer

Standard paper tray	250 sheets ^{*1}
Bypass tray	100 sheets ^{*1}
Optional paper feed unit	500 sheets ^{*1}
Optional envelope feeder ^{*2}	60 envelopes ^{*3}

^{*1} Paper weight: 80 g/m², 20 lb

^{*2} To use the envelope feeder, the optional paper feed unit is required. The paper tray of the feed unit can be replaced with the envelope feeder.

^{*3} For more information on envelopes, see P.72 "Paper types and cautions".

❖ **Paper Output Capacity:**

250 sheets (80 g / m², 20 lb)

❖ **Memory:****Type 1 Printer**

Standard 8MB, up to 40MB (with optional SIMM module)

Type 2 Printer

Standard 8MB, up to 40MB (with optional SIMM module)

❖ **Network (optional network interface board required):**

Topology: Ethernet (10BaseT / 100BaseTX)

Protocol: TCP / IP, IPX / SPX, AppleTalk

❖ **Optional Equipment:****Unique for Type 1 Printer**

- Paper Feed Unit (DLT) Type 2000 (For Inch version only)
- Paper Feed Unit (LT) Type 2000 (For Inch version only)
- Paper Feed Unit (A3) Type 2000 (For Metric version only)
- Paper Feed Unit (A4) Type 2000 (For Metric version only)
- Envelope Feeder Type 2000

Unique for Type 2 Printer

- Paper Feed Unit Type 1400
- Envelope Feeder Type 1400

Common for Type 1 Printer and Type 2 Printer

- Network Interface Board Type 2000
- Memory Unit Type 204 (16MB)
- Memory Unit Type 204 (32MB)

Options

Paper Feed Unit (DLT) Type 2000 and Paper Feed Unit (A3) Type 2000

❖ **Dimensions (W×D×H):**

450 × 552 × 125 mm (17.7" 21.7" × 4.9")
(without pins on the unit)

❖ **Paper Weight:**

60 – 90 g / m² (16 – 24 lb)

❖ **Paper Size:**

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

Paper Feed Unit (LT) Type 2000 and Paper Feed Unit (A4) Type 2000

❖ Dimensions (W×D×H):

450 × 417 × 125 mm (17.7" 16.4" × 4.9")
(without pins on the unit)

❖ Paper Weight:

60 – 90 g / m² (16 – 24 lb)

❖ Paper Size:

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

Envelope Feeder Type 2000

❖ Dimensions (W×D×H):

450 × 552 × 91 mm (17.7" 21.7" × 3.6")

❖ Paper Weight:

72 – 90 g / m² (19 – 24 lb)

❖ Paper Size:

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

Paper Feed Unit Type 1400

❖ Dimensions (W×D×H):

360 × 421 × 123 mm (14.2" 16.6" × 4.8")
(without pins on the unit)

❖ Paper Weight:

60 – 90 g / m² (16 – 24 lb)

❖ Envelope Size:

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

Envelope Feeder Type 1400

❖ Dimensions (W×D×H):

360 × 421 × 119 mm (14.2" 16.6" × 4.7")

❖ Paper Weight:

72 – 90 g / m² (19 – 24 lb)

❖ Envelope Size:

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

Network Interface Board Type 2000

- ❖ **Topology:**
Ethernet (10BaseT / 100BaseTX)
- ❖ **Protocols:**
TCP / IP, IPX / SPX, AppleTalk
- ❖ **Interface Connector:**
RJ45
- ❖ **Required Cable:**
STP (Shielded Twisted-Pair) cable
Category / Type5 or better
*A cable is not enclosed with this option.

Memory Unit Type 204 (16MB) and Memory Unit Type 204 (32MB)

- ❖ **Module Type:**
SIMM (Single In-Line Memory Module)
- ❖ **Memory Type:**
EDO (Extended Data Output) DRAM
- ❖ **Number of Pins:**
72 pins
- ❖ **Access Time:**
60 ns

Consumables

CAUTION:

- *Our products are engineered to meet the highest standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.*

❖ **Toner Cartridge**

	Average printable number of pages per cartridge *1 1
Toner Cartridge Type 2000 (For Type 1 Printer)	14,000 pages
Toner Cartridge Type 1400 (For Type 2 Printer)	8,000 pages

*1 A4 5% test chart

Note

- ☐ The actual number of printed pages you get from a particular toner cartridge depends on the type and size of paper you are using, the contents of your print images, and printing environment conditions. All this means that a toner cartridge might require replacement sooner than the normal life described above.
- ☐ The average number of printable pages that can be expected from the starter toner cartridge included in the printer (both Type 1 and Type 2 printers) is about 3,000 pages (A4, 5% chart).

❖ **Maintenance Kit**

Maintenance Kit Type 2000 (for Type 1 Printer)

Maintenance Kit Type 1400 (for Type 2 Printer)

Reference

For more information on the Maintenance Kit, see P.138 “Type 1 Printer: Maintenance Kit Type 2000” and P.145 “Type 2 Printer: Maintenance Kit Type 1400”.

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