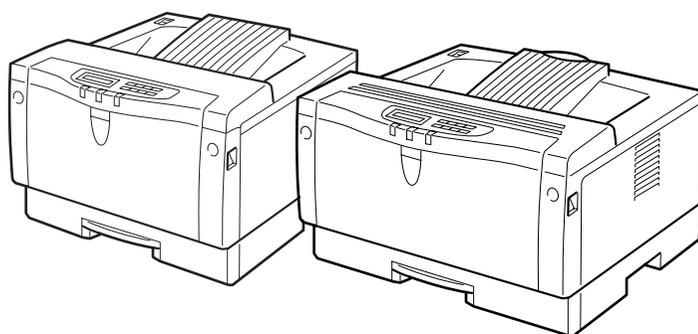


RICOH LASER AP1600/AP2100

Setup Guide



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

For safety, please follow the instructions in this manual.

Introduction

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

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

Notes:

The model names of the printers do not appear in the following pages. Check the model name of the printer before reading this manual. (For more information, see P.5 "Type 1 Printer", P.8 "Type 2 Printer".)

Descriptions in this manual	Model name
Type 1 Printer	RICOH LASER AP2100
Type 2 Printer	RICOH LASER AP1600

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 more information, please contact your local dealer.

The names of the applications do not appear in the following pages. Confirm which applications you will be using before reading this manual.

Descriptions in this manual	Application
PRINTER MANAGER FOR ADMINISTRATOR	Aficio Manager for Admin
PRINTER MANAGER FOR CLIENT	Aficio Manager for Client

Power Source

RICOH LASER AP2100: 220 - 240 V, 50/60 Hz, 4.0 A or more

RICOH LASER AP1600: 220 - 240 V, 50/60 Hz, 3.0 A or more

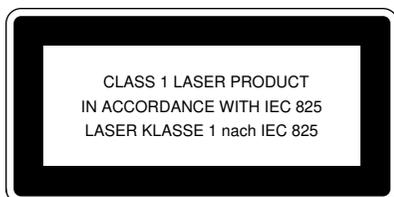
Please be sure to connect the power cord to a power source as above.

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

Operator Safety:

This printer is considered a class 1 laser device, safe for office/ EDP use. The printer 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 of the printer.



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 printer contains a laser beam generator and direct exposure to laser beams can cause permanent eye damage.

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.

Trademarks

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PostScript[®] is a registered trademark of Adobe Systems, Incorporated.

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

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

IPS-PRINT[™] Printer Language Emulation[®] Copyright 1999-2000, XIONICS DOCUMENT TECHNOLOGIES, INC., All Rights Reserved.

Ethernet[®] is a registered trademark of Xerox Corporation.

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.

Note

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 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:

- | |
|--|
| <p>⚠ WARNING:
<i>Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.</i></p> <p>⚠ CAUTION:
<i>Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.</i></p> |
|--|

⚠ 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.***
- ***Dispose of the used toner cartridge in accordance with the local regulation.***

⚠ 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.*
- *Keep toner (used or unused) and toner cartridge out of the reach of children.*
- *For environmental reasons, do not dispose of the equipment or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer or at appropriate collection sites.*
- *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.*
- *Our products are engineered to meet high standards of quality and functionality, and we recommend that you only use the expendable supplies available at an authorized dealer.*

ENERGY STAR Program

	<p>As an ENERGY STAR Partner, we have determined that this machine model meets the ENERGY STAR Guidelines for energy efficiency.</p>
---	--

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 “Using the Operation Panel” in the “Printer Reference”.

❖ **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	

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

.....

 **Recycled Paper**

In accordance with the ENERGY STAR Program, we recommend use of recycled paper which is environment friendly. Please contact your sales representative for recommended paper.

.....

Manuals for this Printer

Manuals for this Printer

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

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

❖ **Quick Installation Guide**

Describes the procedures for installing the printer.

❖ **Setup Guide**

Describes the procedures and provides necessary information about setting up the printer and its options. (This Manual)

❖ **Printer Reference**

Describes the procedures and provides necessary information about using the printer and its options. The manual is included as a PDF file on the CD-ROM.

❖ **Network Interface Board Quick Configuration Guide**

Describes the procedures and provides necessary information about setting up and using the printer under the network environment. The manual is provided as a PDF file which is included on the CD-ROM.

❖ **Network Interface Board Type 2000 Owner's Manual**

Describes the procedures and provides necessary information about setting up and using the printer under the network environment. The manual is provided as a PDF file which is included on the CD-ROM named "Print Server Software and Documentation" which comes with optional Network Interface Board Type 2000.

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 Started

Features of this Printer

This printer is designed especially for office workgroups, both for shared usage within a network environment, and for one-to-one usage by being connected directly to the computer.

❖ Time Saving

Superior features save time you spend on your print tasks.

- Continuous Printing Speed ^{*1}: 21 ppm (Type 1 printer) and 16 ppm (Type 2 printer)
^{*1} A4 , 8 1/2" × 11", maximum printing speed from a standard paper tray.
- All Front Operation: From the front, 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

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

❖ Major Specifications

	Type 1 Printer ^{*1}	Type 2 Printer ^{*1}
Printing Speed	21 pages per minute ^{*2}	16 pages per minute ^{*3}
Maximum Print Quality	True 1200 × 1200 dpi resolutions (PCL 6, PS)	
Emulation	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	16MB	16MB
Maximum Memory Size with Optional Memory	80MB	80MB

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

^{*2} A4 , 8 1/2" × 11" 

^{*3} A4 , 8 1/2" × 11" 

Printer Drivers for this Printer

Printing requires installation of a printer driver for the 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 NT 4.0 ^{*7}	√	√	√ ^{*1}
Mac OS ^{*8}			√ ^{*1 *2 *3}

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

^{*2} Optional Network Interface Board is required.

^{*3} You can use the LaserWriter printer driver that comes with a Macintosh. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with the Macintosh for more information about 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 operating system version 4.0, Microsoft Windows NT Workstation operating system version 4.0 in a computer using a x86 processor.

^{*8} Required system is 7.6 ~ 8.6.

❖ 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 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 PCL 6.

⇒ P.41 "Windows 95/98 - Installing the PCL 6/5e Printer Driver"

⇒ P.41 "Windows NT 4.0 - Installing the PCL 6/5e Printer Driver"

⇒ P.43 "Windows 3.1x - 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 the printer.

⇒ P.45 "Windows 95/98 - Installing the PostScript Printer Driver"

⇒ P.47 "Windows NT 4.0 - Installing the PostScript Printer Driver"

❖ PostScript Printer Description (PPD) files for a 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 the Macintosh. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with the Macintosh for more information about the LaserWriter functions.

⇒ P.51 "*Macintosh*"

Software and Utilities Included on the CD-ROM

1

❖ **Agfa Font Manager**

Helps you to install new screen fonts, or organize and manage fonts already installed on the system.

❖ **PRINTER MANAGER FOR ADMINISTRATOR**

A utility for the system administrator to manage printers on the network.

Reference

For the name of PRINTER MANAGER FOR ADMINISTRATOR, see the inside of front cover of this manual.

See PRINTER MANAGER FOR ADMINISTRATOR Online Help for more information about using PRINTER MANAGER FOR ADMINISTRATOR.

❖ **PRINTER MANAGER FOR CLIENT**

A utility for users to manage their own print status on the network.

Reference

For the name of PRINTER MANAGER FOR CLIENT, see the inside of front cover of this manual.

See PRINTER MANAGER FOR CLIENT Online Help for more information about using PRINTER MANAGER FOR CLIENT.

❖ **PortNavi**

A utility that helps you to use network printer effectively. It is useful in environments where two or more network printers are used.

Reference

For more information about PortNavi, see the “Quick Configuration Guide” for Network Interface Board which is included on the CD-ROM.

❖ **Acrobat Reader**

A utility that allows you to read PDF (Portable Document Format).

Note

- Documentation about using the printer is included on the CD-ROM in PDF format.

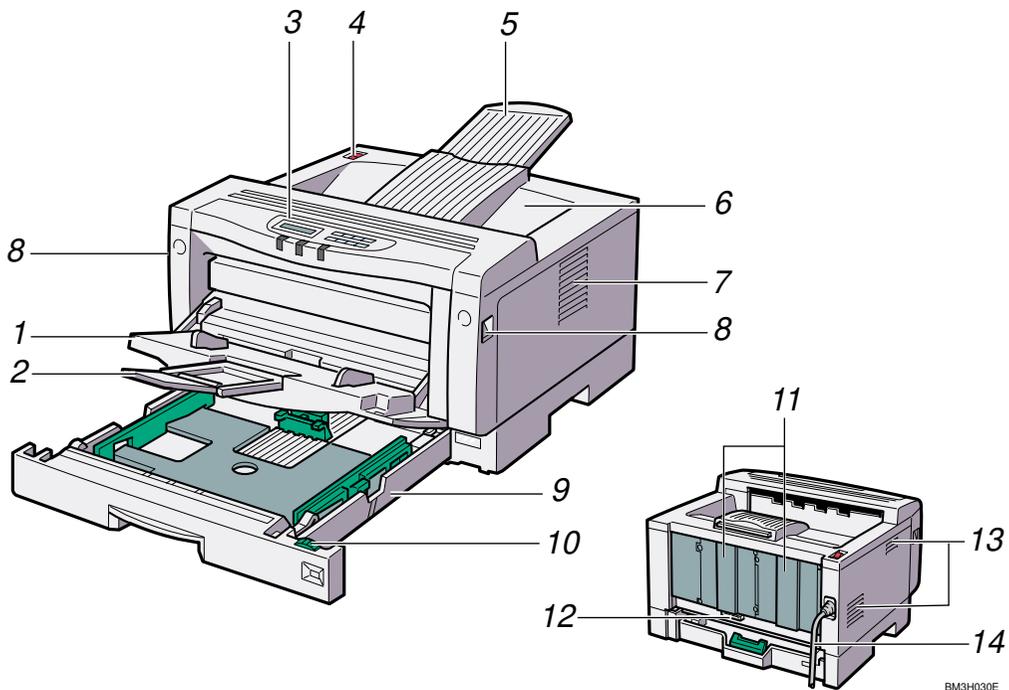
Guide to the Printer

Type 1 Printer

Type 1 Printer: Exterior

Note

- See the inside of 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, envelopes as well as plain paper. When printing on custom paper size, printer driver settings are required.

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

See “Paper and Other Media Supported by this Printer” and “Type 1 Printer: Loading Paper in the Bypass Tray” in the “Printer Reference” included as a PDF file on the CD-ROM.

2. Bypass Tray Extender

Pull out this extender to load paper into the bypass tray when its length is longer than A4  or 8¹/₂” x 11” .

3. Operation Panel

Contains keys for the 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 block or obstruct the ventilator. 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.

See *“Paper and Other Media Supported by this Printer”* in the *“Printer Reference”* included as a PDF file on the CD-ROM.

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 the computer.

13. Ventilators

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

Important

- Do not block or obstruct the ventilators. Doing so creates the danger of malfunction due to overheating.

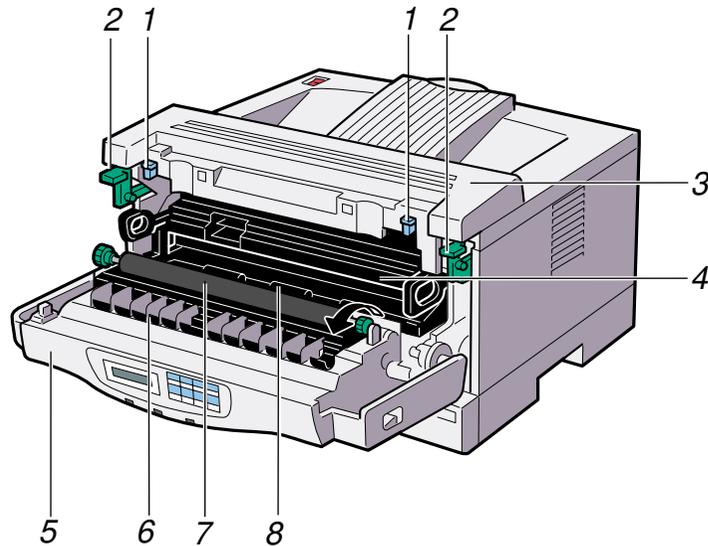
14. Power Cord

Plug this cord into a wall outlet.

Type 1 Printer: Interior

 **Note**

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



BM3H050

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 paper.

When "Change 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 a transfer roller.

7. Transfer Roller

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

8. Registration Roller

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

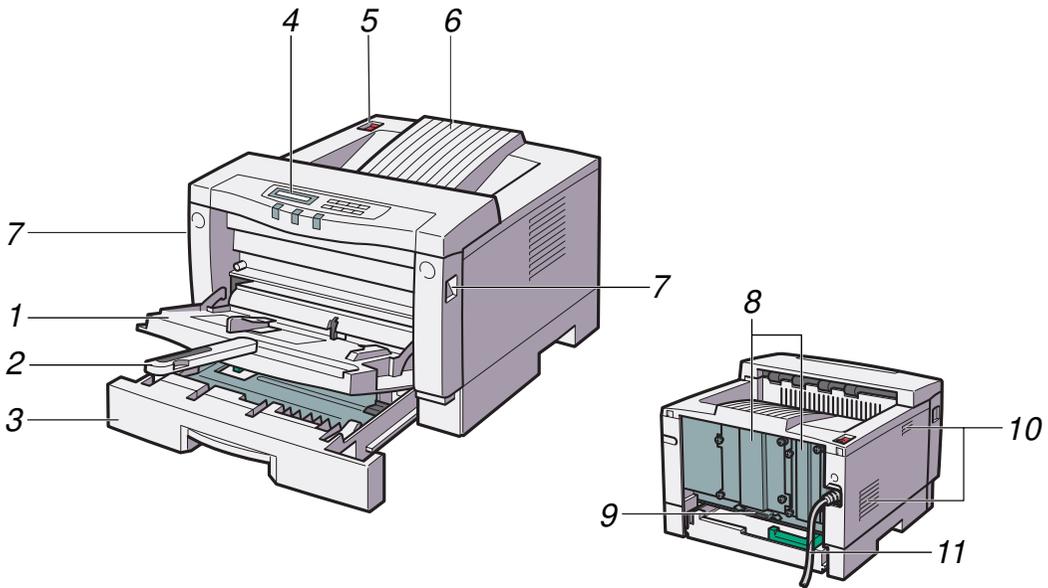
See "Cleaning the Registration Roller" in the "Printer Reference" included as a PDF file on the CD-ROM.

Type 2 Printer

Type 2 Printer: Exterior

Note

- See the inside 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, envelopes as well as plain paper. When printing on custom paper size, printer driver settings are required.

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

See "Paper and Other Media Supported by this Printer" and "Type 2 Printer: Loading Paper in the Bypass Tray" in the "Printer Reference" included as a PDF file on the CD-ROM.

2. Bypass Tray Extender

Pull out this extender to load paper into the bypass tray when its length is longer than B5 or 5¹/₂" x 1¹/₂".

3. Paper Tray

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

See "Paper and Other Media Supported by this Printer" in the "Printer Reference" included as a PDF file on the CD-ROM.

4. Operation Panel

Contains keys for the 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 install some options.

9. Parallel Interface Connector

Plug the interface cable that connects the printer to the computer into this connector.

10. Ventilators

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

⚠ Important

- Do not block or obstruct the ventilators. Doing so creates the danger of malfunction due to overheating.

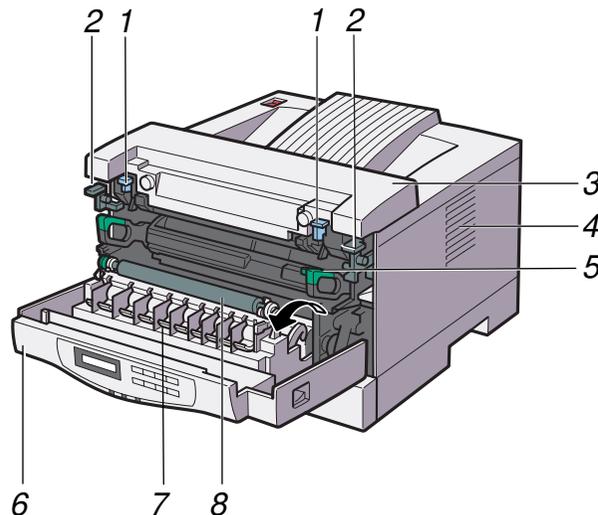
11. Power Cord

Plug this cord into a wall outlet.

Type 2 Printer: Interior

Note

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



BM4H050E

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 paper.

When "Change 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 block or obstruct the ventilator. 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

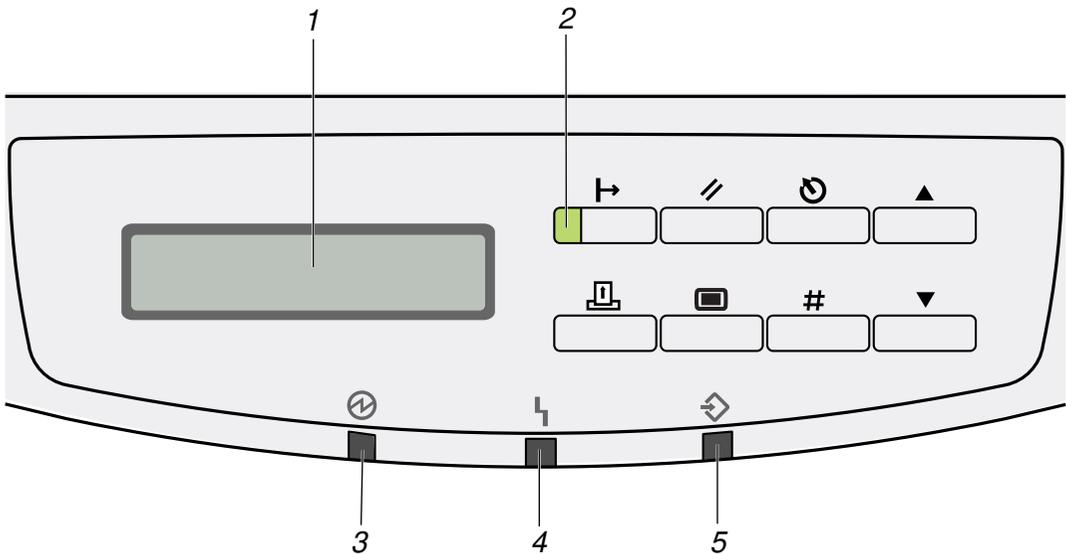
Open this cover when replacing a transfer roller.

8. Transfer Roller

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

See "Replacing Parts" in the "Printer Reference" included as a PDF file on the CD-ROM.

Operation Panel



BM3S011E

1. Panel Display

Shows the current status of the printer and error messages.

See "Error & Status Messages on the Operation Panel" in the "Printer Reference" included as a PDF file on the CD-ROM.

2. On Line indicator

Tells you whether the printer is online or offline.

Is on while the printer is online (a state in which the printer can receive data from the computer).

Is off when the printer is offline (a state in which the printer can not receive data).

3. Power indicator

Is on while the printer power is on.

Is off when the power is turned off or while the printer is in Energy Saver 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.

See "Error & Status Messages on the Operation Panel" in the "Printer Reference" included as a PDF file on the CD-ROM.

5. Data In indicator

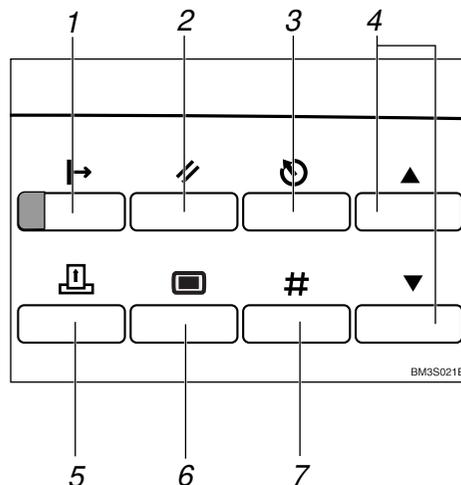
Blinks while the printer is receiving data from a computer.

Is on if there is data to be printed.

Keys

Important

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



1. [On Line] key

Press this key to switch the printer between online and offline.

2. [Job Reset] key

When the printer is online, press this key to cancel any ongoing print job.

See "Canceling a Print job" in the "Printer Reference" included as a PDF file on the CD-ROM.

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

If the printer is offline, press this key to print all the data left in the printer's input buffer.

Note

- ❑ This does not work if the printer is online.

6. **【Menu】** key

Press this key to make and check the current printer settings.

See *“Making Printer Settings with the Operation Panel”* in the *“Printer Reference”* included as a PDF file on the CD-ROM.

7. **【Enter #】** key

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

Press this key to clear some errors.

See *“Troubleshooting”* in the *“Printer Reference”* included as a PDF file on the CD-ROM.

2. Installing Options

CAUTION:

- *Be 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 printer, use the inset grips on both sides of the printer, otherwise the printer might fall and cause personal injury.*
- *When you move the printer, unplug the power cord from the wall outlet to avoid a fire or an electric shock.*

◆ Option List

Note

- See the inside 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	○ *5	○ *6
Hard Disk Drive Type 2000	○ *5	○ *6
RS232C Board Type 2000	○ *5	○ *6
Printer Feature Expander Type 185 (32MB)	○ *7	○ *7
Printer Feature Expander Type 185 (64MB)	○ *7	○ *7

○ : This option can be installed.

*1 Type 1 Printer: You can install any combination of these units. Up to two paper feed units can be installed to the 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 Paper Feed Unit Type 2000.

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

*5 Only two of them can be installed at a time.

*6 Only one of them can be installed at a time.

*7 Only one of them can be installed at a time.

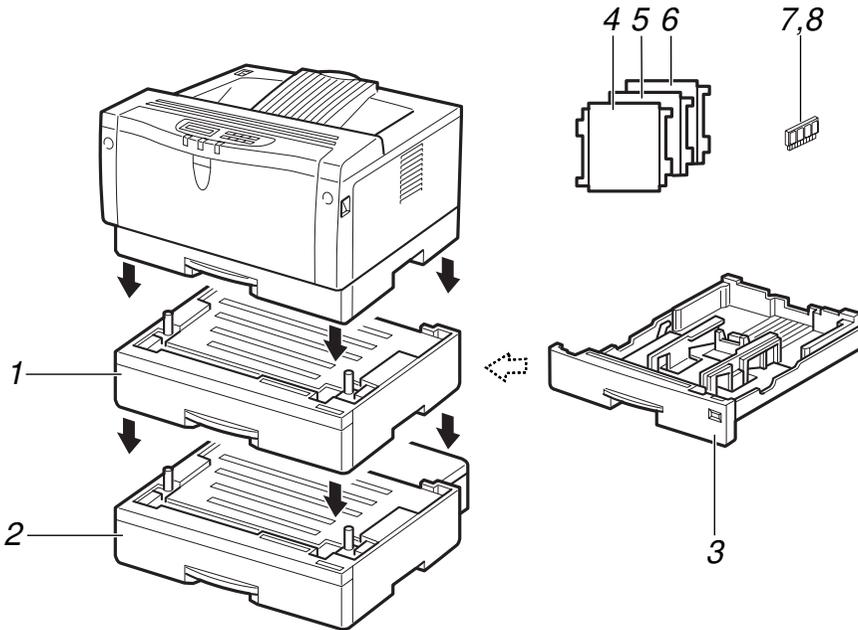
Available Options

The following options can be installed to the printer.

◆ For Type 1 Printer

 **Note**

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



- 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. Hard Disk Drive Type 2000
- 6. RS232C Board Type 2000
- 7. Printer Feature Expander Type 185 (32MB)
- 8. Printer Feature Expander Type 185 (64MB)

 **Note**

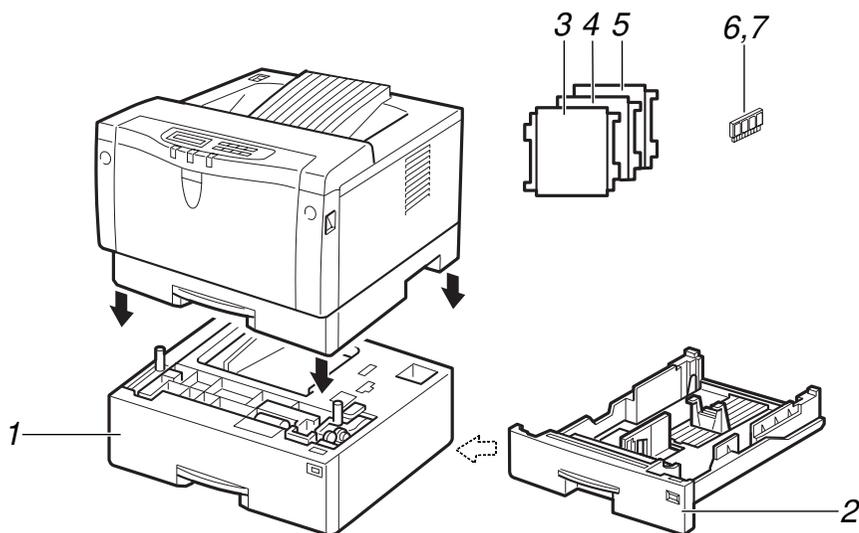
- It is impossible to install more than two paper feed units to the printer at a time.
- Any combination of Paper Feed Unit (A4) Type 2000 and Paper Feed Unit (A3) Type 2000 is available.
- The envelope feeder is a tray that slides into the optional paper feed unit. Without the optional paper feed unit,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

TS3P101E

◆ For Type 2 Printer

Note

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



TS4P101E

1. Paper Feed Unit Type 1400
2. Envelope Feeder Type 1400
3. Network Interface Board Type 2000
4. Hard Disk Drive Type 2000
5. RS232C Board Type 2000
6. Printer Feature Expander Type 185 (32MB)
7. Printer Feature Expander Type 185 (64MB)

Note

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

Type 1 Printer: Installing Options

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

2

Note

- ❑ See the inside 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 printer to tilt forward.
- ❑ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Confirm that the box contains the following items.

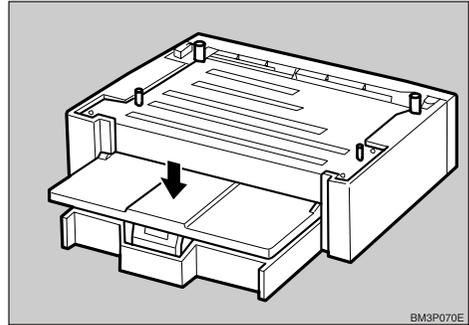
- Paper feed unit (including a paper tray)
- Tray cover
- Installation Guide

2 Be sure to check the following points:

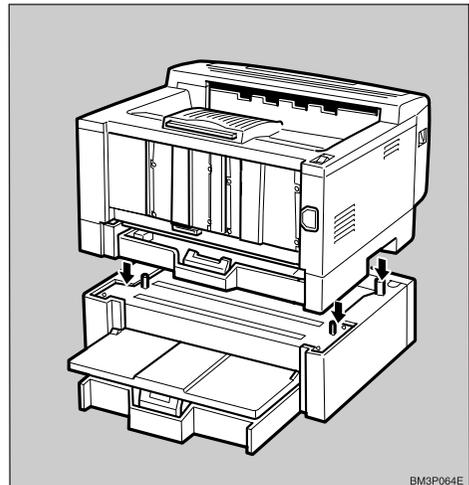
- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

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.

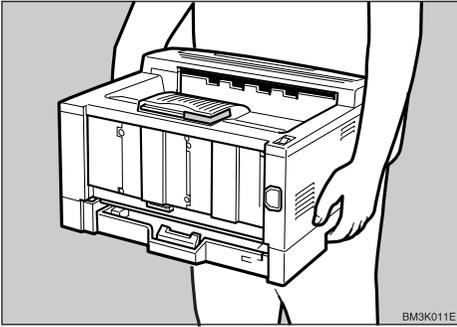


- ### 5 There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer, there are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.



⚠ CAUTION:

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



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

Note

- See the inside 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 printer to tilt forward.
- To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Confirm that the box contains the following items.

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

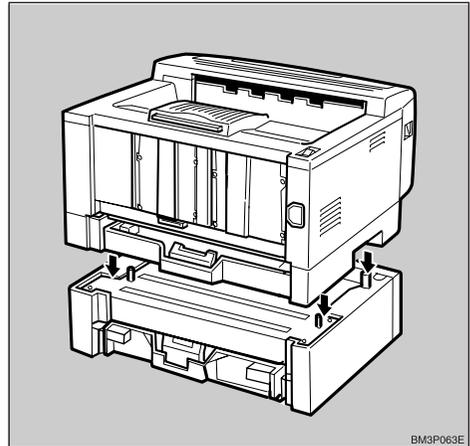
2 Be sure to check the following points:

- 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.

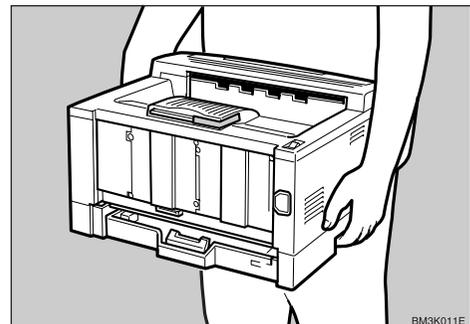
3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

4 There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer there 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 Envelope Feeder Type 2000

Note

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

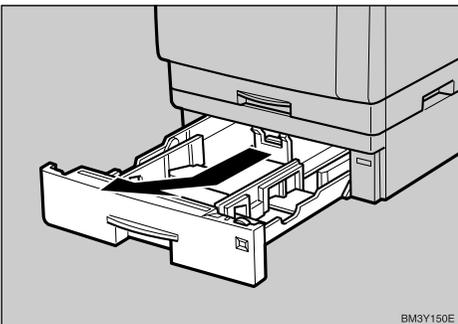
Important

- ❑ 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 printer to tilt forward.

1 Confirm that the box contains the following items.

- Envelope feeder
- Installation Guide

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



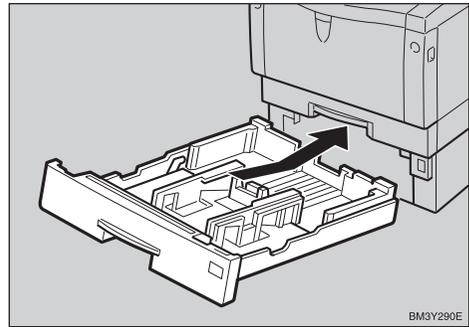
Important

- ❑ 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 of the envelope feeder, place the feeder into the printer. Then slide it into the printer until it stops.



Note

- ❑ When loading envelopes, see “Type 1: Loading envelopes” in the “Printer Reference”.

Type 1 Printer: Installing Network Interface Board Type 2000

Note

- ❑ See the inside 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.
- ❑ Network Interface Board can be attached to either the left or right side of the back of the printer. This procedure is for attaching to the left side.
- ❑ You cannot install two Network Interface Boards at a time.

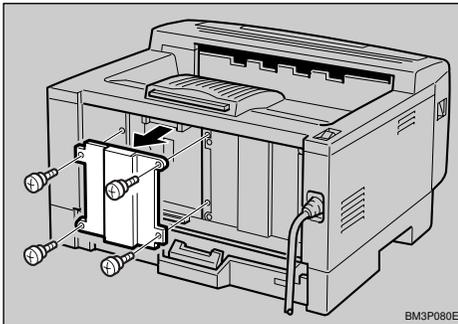
1 Confirm that the box contains the following items.

- 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.

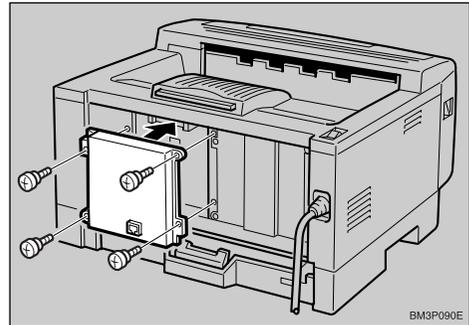
3 Remove the back plate.



Note

- A coin can be used to remove the screws.

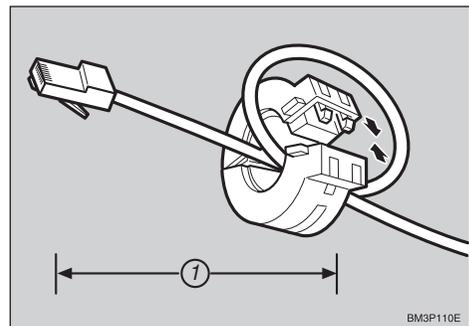
4 Align the screw holes of Network Interface Board over the screw holes where the back plate used to be. Confirm that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align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



Note

- A coin can be used to attach the screws.

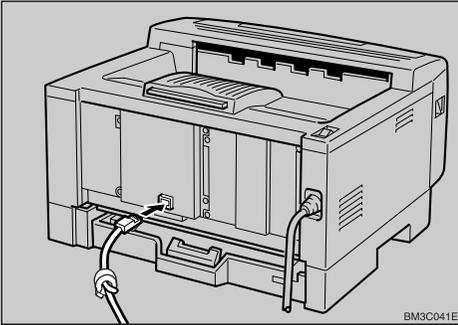
5 Loop the network interface cable and attach the ferrite core as shown in the illustration.



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 Network Interface Board will be printed automatically. Check the configuration of Network Interface Board with it.

Important

- After installing Network Interface Board properly, set up the printer's network environment using the operation panel. See P.35 "Configuring the Printer for the Network".

- You cannot install two HDD at a time.

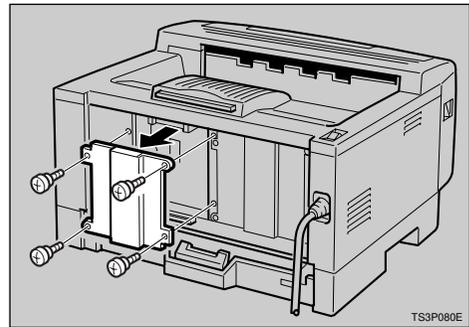
- 1** Confirm that the box contains the following items.

- HDD
- Operating Instructions Supplement

- 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

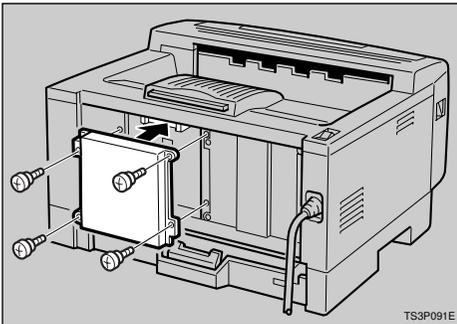
- A coin can be used to remove the screws.

Type 1 Printer: Installing Hard Disk Drive Type 2000

Note

- See the inside front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- The hard disk drive (HDD) can be attached to either the left or the right side of the back of the printer. This procedure is for attaching to the left side.

- 4** Align the screw holes of the HDD over the screw holes where the back plate used to be. Confirm that the HDD is aligned as shown in the illustration. Press the HDD firmly against the printer. The interface connectors on the printer and the HDD should align and offer a slight resistance before popping into place.



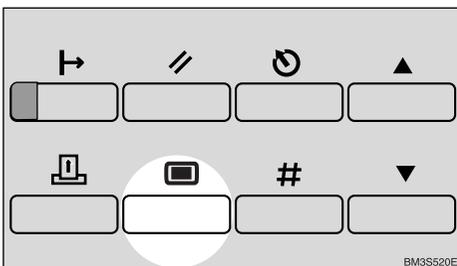
Note

- Use a coin to attach the screws that were removed in step 3.

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

After installing the HDD, use the operation panel to have the printer format the HDD.

- 6** Press **[Menu]**.



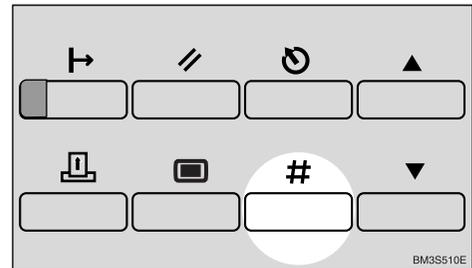
The following message appears on the panel display.

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

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

```
Main Menu:  ▲
             ▼
Maintenance
```

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



The following message appears on the panel display.

```
Maintenance:  ▲
               ▼
1.System Reset
```

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

```
Maintenance:  ▲
               ▼
5.HDD Format
```

- 10** Press **[Enter #]**.

The following message appears on the panel display.

```
HDD Format:
Yes=#
```

- 11** Press **[Enter #]**.

Important

- Do not turn off the printer while formatting the HDD. Turning off the printer while it is formatting the HDD can damage the HDD.

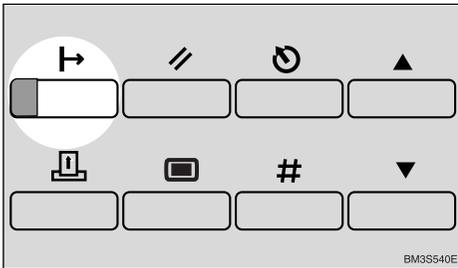
If you successfully format the HDD, the following message appears on the panel display.



Note

- ❑ If you failed, see “*Troubleshooting*” in the “*Printer Reference*” included as a PDF file on the CD-ROM.

12 Press **[On Line]**.



The “Ready” message appears on the panel display.



13 Print a configuration page to confirm that the HDD is properly installed.

Reference

See “*Making Printer Settings with the Operation Panel*” in the “*Printer Reference*” included as a PDF file on the CD-ROM.

Type 1 Printer: Installing RS232C Board Type 2000

Note

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

- ❑ The interface cable is not included in the box. It is your responsibility to provide the interface cable appropriate for the computer that you are using. For more information about the interface cable, see “*Specifications of the Serial Interface (RS232C)*” in the “*Printer Reference*” included as a PDF file on the CD-ROM.
- ❑ The RS232C board can be attached to either the left or the right side of the back of the printer. This procedure is for attaching to the left side.
- ❑ You cannot install two RS232C board at a time.

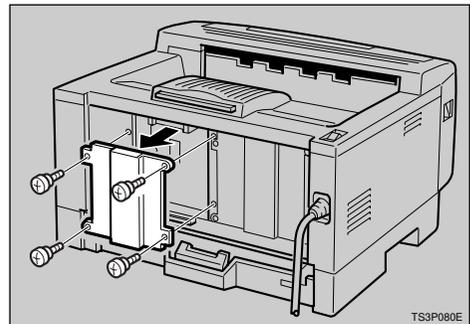
1 Confirm that the box contains the following items.

- RS232C board
- Operating Instructions Supplement

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.

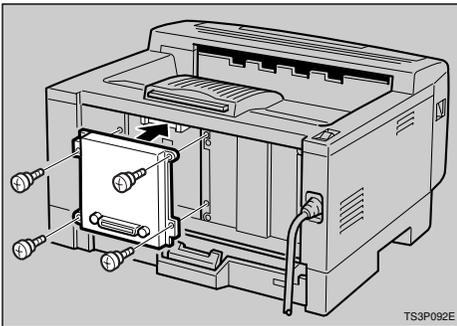
3 Remove the back plate.



Note

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

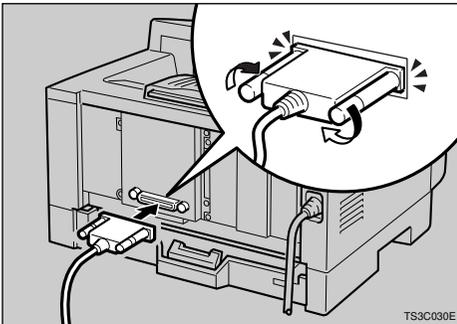
- 4** Align the screw holes of the RS232C board over the screw holes where the back plate used to be. Confirm that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align and offer a slight resistance before popping into place.



Note

- A coin can be used to attach the screws that were removed in step **3**.

- 5** Attach the cable to the connector on the board. Fasten it with two screws as shown in the illustration.



- 6** Attach the other end of the cable to the interface connector of the computer.

- 7** Plug the printer's power cord back into the wall outlet and turn on the printer's power switch.
- 8** Print a configuration page to confirm that the RS232C board is properly installed.

Reference

See "Making Printer Settings with the Operation Panel" in the "Printer Reference" included as a PDF file on the CD-ROM.

Type 1 Printer: Installing Printer Feature Expander Type 185

Note

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

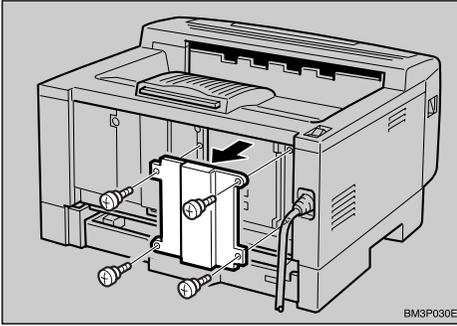
Important

- 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 Printer Feature Expander Type 185, and you can install one of them 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.

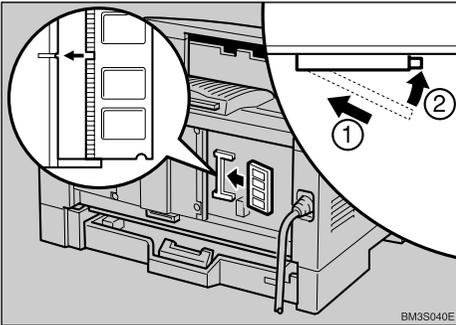
2 Remove the back plate.



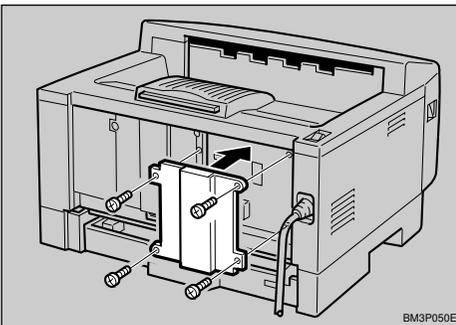
Note

- A coin can be used to remove the screws.

3 Tilt the memory unit so that it is 30 degrees perpendicular to the slot (1), and push it forward (2). It should click 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 page to confirm that the memory unit is properly installed.

Reference

See "Printing a configuration page" in the "Printer Reference" included as a PDF file on the CD-ROM.

Type 2 Printer: Installing Options

Type 2 Printer: Installing Paper Feed Unit Type 1400

Note

- ❑ See the inside 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 printer to tilt forward.
- ❑ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Confirm that the box contains the following items.

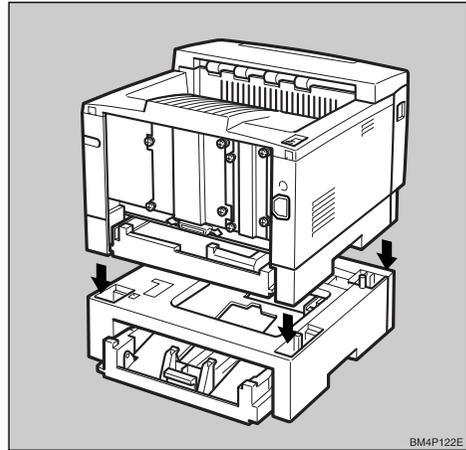
- Paper feed unit (including a paper tray)
- Installation Guide

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.

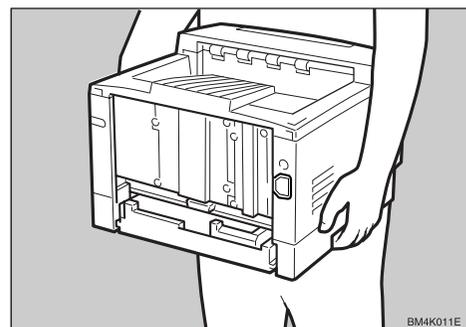
3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

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

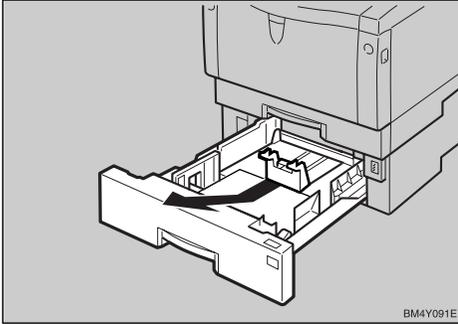


CAUTION:

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



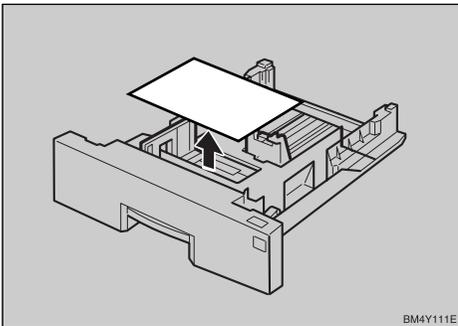
- 5** Pull the paper tray out until it stops. After that, lift it slightly, then pull it out of the printer. Place it on a flat surface.



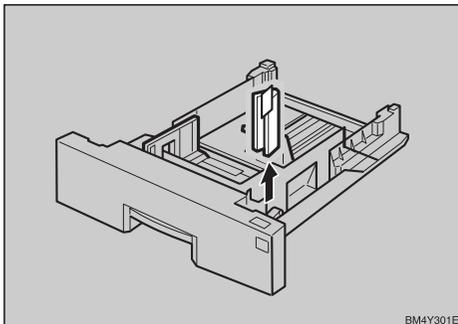
Note

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

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



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



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

Type 2 Printer: Installing Envelope Feeder Type 1400

Note

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

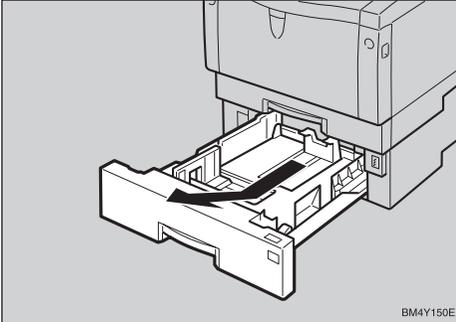
Important

- 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 printer to tilt forward.

- 1** Confirm that the box contains the following items.

- Envelope feeder
- Installation Guide

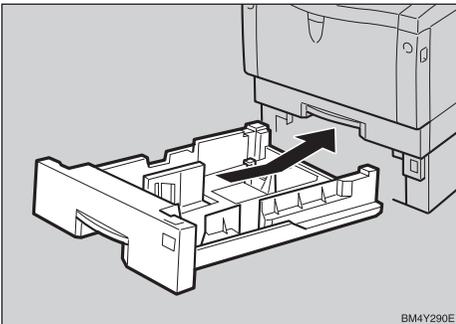
- 2** Pull out the paper tray of the optional paper feed unit until it stops. After that, lift it slightly, then pull it out.



Note

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

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



Note

- When loading envelopes, see “Type 2: Loading envelopes” in the “Printer Reference”.

Type 2 Printer: Installing Network Interface Board Type 2000

Note

- See the inside 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.

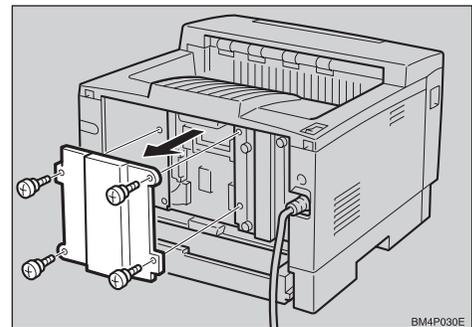
- 1** Confirm that the box contains the following items.

- 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.

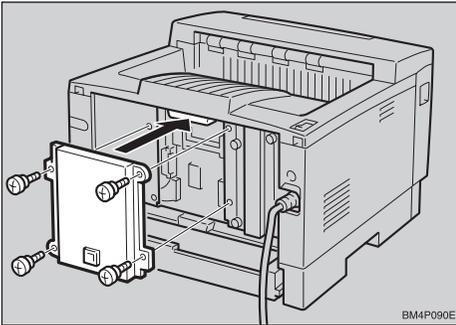


Note

- A coin can be used to remove the screws.

2

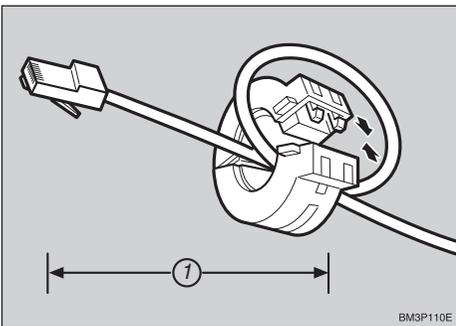
- 4** Align the screw holes of Network Interface Board over the screw holes where the back plate used to be. Confirm that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should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



Note

- A coin can be used to attach the screws.

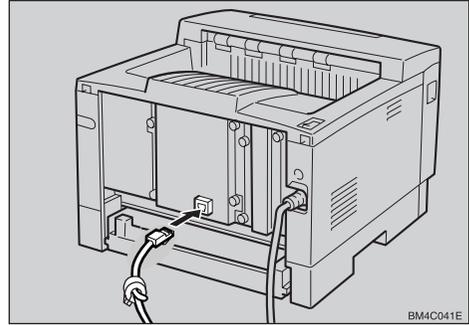
- 5** Loop the network interface cable and attach the ferrite core as shown in the illustration.



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 Network Interface Board will be printed automatically. Check the configuration of Network Interface Board with it.

Important

- After installing Network Interface Board properly, set up the printer's network environment using the operation panel. See P.35 "Configuring the Printer for the Network".

Type 2 Printer: Installing Hard Disk Drive Type 2000

Note

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

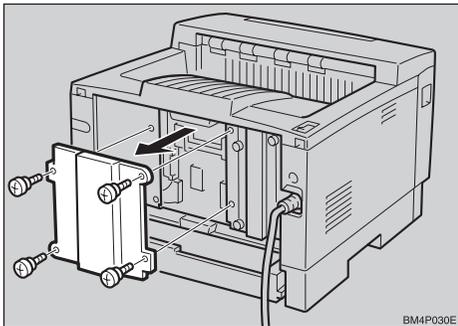
1 Confirm that the box contains the following items.

- HDD
- Operating Instructions Supplement

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.

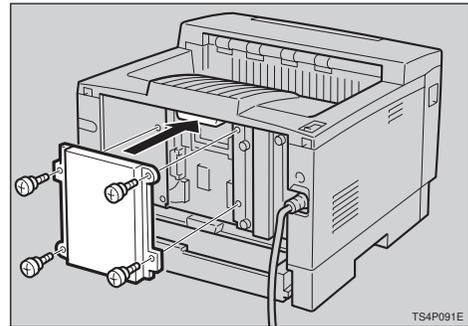
3 Remove the back plate.



Note

- A coin can be used to remove the screws.

4 Align the screw holes of the HDD over the screw holes where the back plate used to be. Confirm that the HDD is aligned as shown in the illustration. Press the HDD firmly against the printer. The interface connectors on the printer and the HDD should align and offer a slight resistance before popping into place.



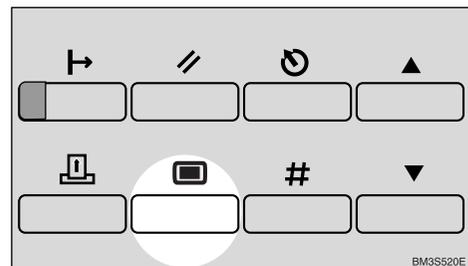
Note

- A coin can be used to attach the screws that were removed in step **3**.

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

After installing the HDD, use the operation panel to have the printer format the HDD.

6 Press **[Menu]**.



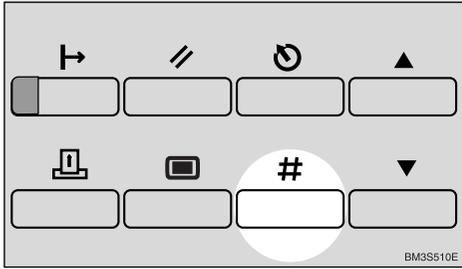
The following message appears on the panel display.



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



8 Press **[Enter #]**.



The following message appears on the panel display.

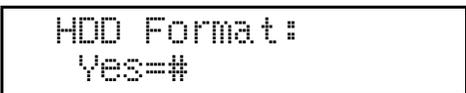


9 Press **[▼]** or **[▲]** until the following message appears.



10 Press **[Enter #]**.

The following message appears on the panel display.



11 Press **[Enter #]**.

Important

- Do not turn off the printer while formatting the HDD. Turning off the printer while it is formatting the HDD can damage the HDD.

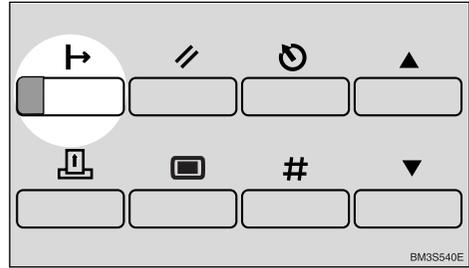
If you successfully format the HDD, the following message appears on the panel display.



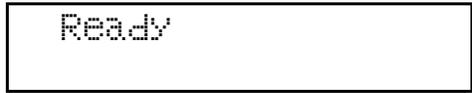
Note

- If you failed, see “Troubleshooting” in the “Printer Reference” included as a PDF file on the CD-ROM.

12 Press **[On Line]**.



The “Ready” message appears on the panel display.



13 Print a configuration page to confirm that the HDD is properly installed.

Reference

See “Making Printer Settings with the Operation Panel” in the “Printer Reference” included as a PDF file on the CD-ROM.

Type 2 Printer: Installing RS232C Board Type 2000

Note

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

- ❑ The interface cable is not included in the box. It is your responsibility to provide the interface cable appropriate for the computer that you are using. For more information about the interface cable, see “Specifications of the Serial Interface (RS232C)” in the “Printer Reference” included as a PDF file on the CD-ROM.

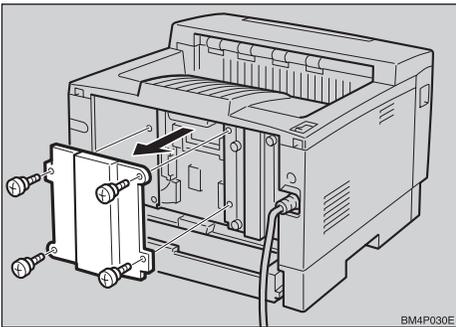
1 Confirm that the box contains the following items.

- RS232C board
- Operating Instructions Supplement

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.

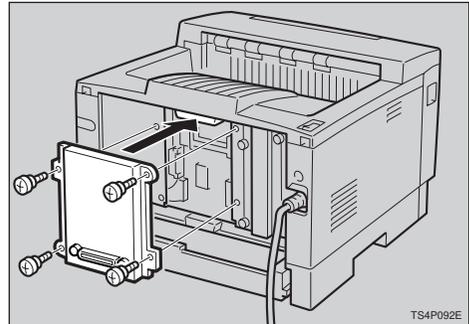
3 Remove the back plate.



Note

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

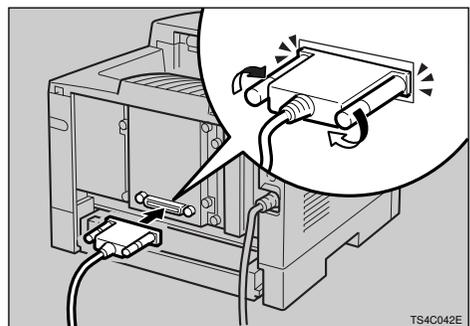
- 4** Align the screw holes of the RS232C board over the screw holes where the back plate used to be. Confirm that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align and offer a slight resistance before popping into place.



Note

- ❑ A coin can be used to attach the screws that were removed in step 3.

- 5** Attach the cable to the connector on the board. Fasten it with two screws as shown in the illustration.



- 6** Attach the other end of the cable to the interface connector of the computer.

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

8 Print a configuration page to confirm that the RS232C board is properly installed.

Reference

See "Making Printer Settings with the Operation Panel" in the "Printer Reference" included as a PDF file on the CD-ROM.

Type 2 Printer: Installing Printer Feature Expander Type 185

Note

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

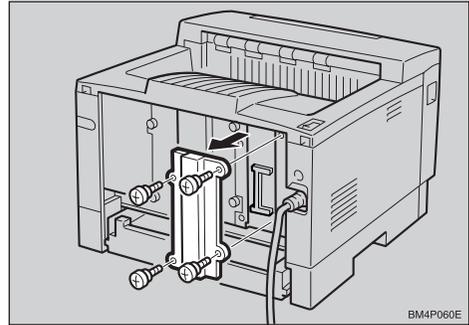
Important

- ❑ 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 Printer Feature Expander Type 185, and you can install one of them 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.

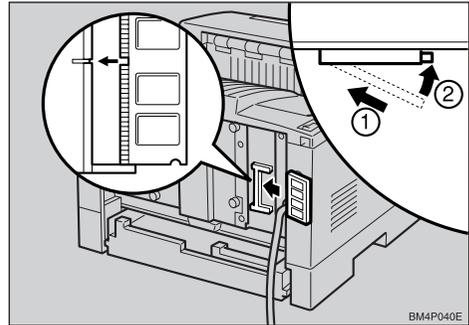
2 Remove the back plate.



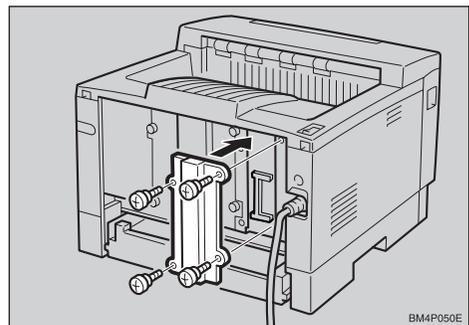
Note

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

3 Tilt the memory unit so that it is 30 degrees perpendicular to the slot (①), and push it forward (②). It should click 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 page to confirm that the memory unit is properly installed.

 **Reference**

See "*Printing a configuration page*" in the "Printer Reference" included as a PDF file on the CD-ROM.

3. Configuring the Printer for the Network the Network

Configuring the Printer for the Network with the Operation Panel

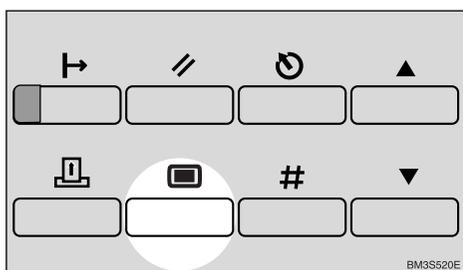
After installing optional Network Interface Board, configure it for the network using the printer's operation panel.

Reference

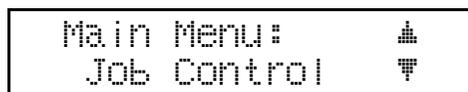
⇒ P.18 "Type 1 Printer: Installing Network Interface Board Type 2000"

⇒ P.27 "Type 2 Printer: Installing Network Interface Board Type 2000"

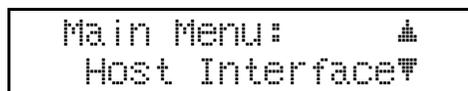
1 Press [Menu].



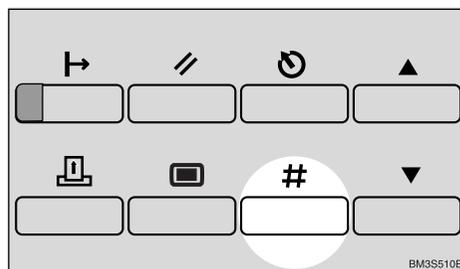
The following message appears on the panel display.



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



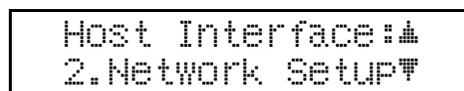
3 Press [Enter #].



The following message appears on the panel display.

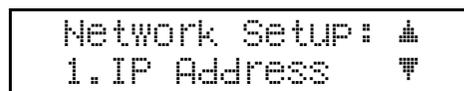


4 Press [▼] or [▲] until the following message appears.



5 Press [Enter #].

The following message appears on the panel display.



6 Press [Enter #].

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



- 7** Set the first (leftmost) 3 digits of the IP address using **[▲]** or **[▼]**. Press **[▲]** to increase and **[▼]** to decrease values.

```
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 set IP address is canceled and you can return to the previous panel display.

- 9** Repeat steps **7** and **8** to set 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 set.

The following message appears on the panel display.

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

- 11** Press **[▼]** or **[▲]** 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** Set the subnet mask using the same procedure for setting the IP address.

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

The following message appears on the panel display.

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

- 15** Press **[▼]** or **[▲]** 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** Set the gateway address using the same procedure for setting the IP address.

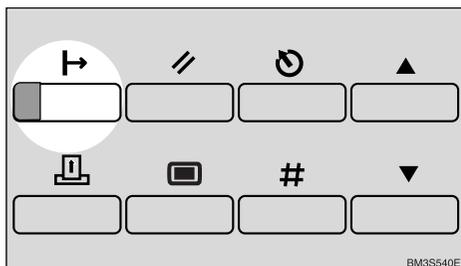
- 18** Check if the pointer (▣) is at the rightmost digit, press **[Enter #]** to register the gateway address you set.

The following message appears on the panel display.

```

Network Setup: ▲
3 .Gateway ▼
  
```

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



The "Ready" message appears on the panel display.

```

Ready
  
```

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

4. Installing the Printer Driver and Software

All of the procedures in this manual assume that you are familiar with general Windows procedures and practices. If you are not, see the documentation that comes with Windows.

Auto Run

You can install the PCL6/5e printer driver by using Auto Run.

Auto Run is available for the following operating systems:

- Windows 95/98
- Windows NT 4.0

If the system is Windows 3.1x or a Macintosh, see information on installing the printer driver.

⇒ P.41 *“Windows 95/98 - Installing the PCL 6/5e Printer Driver”*

⇒ P.41 *“Windows NT 4.0 - Installing the PCL 6/5e Printer Driver”*

⇒ P.43 *“Windows 3.1x - Installing the PCL 6/5e Printer Driver”*

⇒ P.51 *“Macintosh”*

Important

- Before starting this installation, close all documents and applications. In a network environment, confirm that users who are logged on are disconnected. Be sure to do this when it will create the least interference with other users.
- After installing a printer driver, you must restart the computer.

Limitation

- If the system is Windows NT 4.0, installing a printer driver by Auto Run requires permission of Administrators. When you install a printer driver by Auto Run, log on using an account that has Administrators permission.

Reference

For more information about the software and utilities included on the CD-ROM, see P.4 *“Software and Utilities Included on the CD-ROM”*.

Note

- Auto Run might not automatically work with certain OS settings. In this case, start "SETUP.EXE" to install the printer driver on the root.
- If you want to cancel Auto Run, insert the CD-ROM while pressing the **[SHIFT]** key until the computer finishes accessing the CD-ROM.

Installing by Auto Run

Follow these steps to install the printer driver on Windows 95/98/NT 4.0.

Important

- Never have two versions of the same printer driver installed on the system at the same time. When upgrading to a new version of the printer driver, uninstall the old version, and then install the new one. For more information about uninstalling the printer driver and software, see "Uninstalling the Printer Driver and Software" in the Printer Reference.

Note

- If the "plug and play" function starts by Auto Run, click **[Cancel]** in the **[New Hardware Found]** dialog box or **[Device Driver Wizard]**, and then insert the CD-ROM. **[New Hardware Found]** or **[Device Driver Wizard]** appears depending on the system version of Windows 95/98.
- The appropriate language name is used in the CD-ROM folder: ENGLISH (English), DEUTSCH (German), FRANCAIS (French), ITALIANO (Italian), ESPANOL (Spanish), NEDRLNDS (Dutch), NORSK (Norwegian), DANSK (Danish), SVENSKA (Swedish), POLSKI (Polish), PORTUGUS (Portuguese), SUOMI (Finnish), MAGYAR (Hungarian), CESKY (Czech)

- 1** Close all applications that are currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
- 3** Follow the instructions on the screen.
- 4** Restart the computer after installation is complete.
- 5** You should set up the options with the printer driver.

Installing the PCL 6/5e Printer Driver

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

Installing the Printer Driver

Install the driver in accordance with the steps explained. ⇒ P.40 *“Installing by Auto Run”*

Note

- Two kinds of PCL printer driver, PCL 6 and PCL 5e, are provided with this printer. We recommend 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 PCL 6.

Setting Up Options

Note

- When setting up options, you should access the **[Printer Properties]** dialog box from Windows. You cannot set up options by accessing the **[Printer Properties]** dialog box from an application.

1 Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.
The **[Printers]** window appears.

2 Click the icon of the printer you want to use. On the **[File]** menu, click **[Properties]**.

3 Click the **[Accessories]** tab.

4 Select options you have installed from the **[Options]** group.

5 Click **[OK]**.

Windows NT 4.0 - Installing the PCL 6/5e Printer Driver

Installing the Printer Driver

Limitation

- Installing a printer driver requires Full Control access permission. Members of Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you install a printer driver, log on using an account that has Full Control permission.

Install the driver in accordance with the steps explained. ⇒ P.41 *“Windows 95/98 - Installing the PCL 6/5e Printer Driver”*

 **Note**

- Two kinds of PCL printer driver, PCL 6 and PCL 5e, are provided with this printer. We recommend 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 PCL 6.

If you want to share the printer on Windows NT 4.0, you must not install the printer driver using Auto Run. In this case, cancel Auto Run and install the printer driver using **[Add Printer Wizard]** in the **[Printers]** window.

When prompted for the Windows NT 4.0 alternate printer driver location, select the following folder in the CD-ROM.

- PCL 5e
 \DRIVERS\PCL5E\NT4\Language\DISK1\
- PCL 6
 \DRIVERS\PCL6\NT4\Language\DISK1\

When prompted for the Windows 95/98 alternate printer driver location, select the following folder in the CD-ROM.

- PCL 5e
 \DRIVERS\PCL5E\WIN95_98\Language\DISK1\
- PCL 6
 \DRIVERS\PCL6\WIN95_98\Language\DISK1\

Setting Up Options

 **Limitation**

- Changing the setting of the printer requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

 **Note**

- When setting up options, you should access the **[Printer Properties]** dialog box from Windows. You cannot set up options by accessing the **[Printer Properties]** dialog box from an application.

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

The **[Printers]** window appears.

2 Click the icon of the printer you want to use. On the **[File]** menu, click **[Properties]**.

3 Click the **[Accessories]** tab.

4 Select options you have installed from the **[Options]** group.

5 Click **[OK]**.

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

Installing the Printer Driver

Important

- We recommend that you install the PCL 5e printer driver on the Windows 3.1x system. Under the Windows 3.1x system, you might get some unexpected print results with the PCL 6 printer driver.

- 1** Close all the applications that are currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
- 3** From [Program Manager], click [Run] on the [File] menu.
- 4** In the [Run] window, click [Browse].
- 5** Select the CD-ROM drive in the [Drives:] list.
- 6** Open [PCL5E] or [PCL6].
- 7** Open [WIN31].
- 8** Open the folder of the language you use.
- 9** Open [DISK1].
- 10** Double-click "SETUP.EXE".
- 11** Follow the instructions on the screen.

Setting Up Options

Note

- When setting up options, you should access the [Printer Properties] dialog box from Windows. You cannot set up options by accessing the [Printer Properties] dialog box from an application.

- 1** From the [Main] group of [Program Manager], double-click [Control Panel].
- 2** Double-click the [Printers] icon.
- 3** In the [Installed Printers:] list, click the name of the printer you want to set up.
- 4** Click [Setup].
- 5** Click the [Accessories] tab.
The [Options] group appears.

- 6** Select options you have installed from the [Options] group.
- 7** Click [OK] to close the Printer Setting dialog box.
- 8** Click [Close] to close the [Printers] dialog box.

Installing the PostScript Printer Driver

This section describes basic instructions for installing the printer driver. The actual procedure may differ depending on the operating system. Follow the appropriate procedures below.

Important

- When updating the printer driver by installing the latest version, you should uninstall that of former version if any. See “*Uninstalling the Printer Driver and Software*” in the “Printer Reference”.

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 NT 4.0 accidentally.

1 Close all applications that are currently running.

2 Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

3 Double-click the **[Add Printers]** icon.

[Add Printer Wizard] starts.

4 Click **[Next]**.

5 Check **[Local Printer]** and click **[Next]**.

A dialog box for selecting the printer manufacture and model name appears.

6 Click **[Have Disk]**.

A dialog box for installing the printer driver from a disk appears.

7 Insert the CD-ROM into the CD-ROM drive, while pressing the **[SHIFT]** key until the computer finishes accessing the CD-ROM.

If the Auto Run program starts, click **[Cancel]**.

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_98]**. Then double-click the folder of the appropriate language for the operating system. Finally, click **[OK]**.
- 11** Click **[OK]**.
- 12** Click to select the name of the printer whose driver you want to install, and then click **[Next]**.
- 13** In the **[Available ports:]** box, click to select **[Printer Port]**, and then click **[Next]**.
- 14** Change the name of the printer if you want, and then click **[Next]**.
- 15** Select 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 CD-ROM, insert it into the computer, and then click **[OK]**.
- 17** If you are asked to provide the location of the required file for Windows 95/98, do the following:
- Select folder **[WIN95]** or **[WIN98]** in the Windows 95/98 CD-ROM.
 - Navigate 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 the operating system. The following are examples:
 \WINDOWS\SYSTEM\OPTION\CABS
 \WINDOWS\OPTION\CABS
- 18** If you are asked whether you want to restart Windows, select **[Yes]**. If you are not asked, restart Windows after completing the installation.

 **Important**

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

Setting up options

- 1** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.
The **[Printers]** window appears.
- 2** Click to select the icon of the printer you want to use.
- 3** On the **[File]** menu, click **[Properties]**.
The **[Printer Properties]** dialog box appears.
- 4** Click the **[Device Options]** tab.
- 5** In the **[Installable Options]** group, select the option you have installed to the printer.
The current setting appears in the **[Change setting for:]** list box.

- 6** Use the **[Change settings 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 NT 4.0 - Installing the PostScript Printer Driver

Installing the printer driver

Limitation

- Installing a printer driver requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you install a printer driver, log on using an account that has Full Control permission.

Important

- The CD-ROM containing the Windows NT Server operating system version 4.0, or the Windows NT Workstation operating system is required for installing the printer driver.
- We recommend that you upgrade the Windows NT 4.0 operating system to Service Pack 3 or later before installing the printer driver. Contact your Windows retailer for more information about the latest version available.
- Be sure to install the PPD file for Windows NT 4.0. Do not accidentally install the PPD file for Windows 95/98.

1 Close all applications that are currently running.

2 Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.

The Printers window appears.

3 Double-click the **[Add Printers]** icon.

[Add Printer Wizard] starts.

4 After confirming that the **[My Computer]** option is selected, click **[Next]**.

A dialog box for selecting the printer port appears.

5 Check the check box of the port you want to use, and then click **[Next]**

A dialog box for selecting the printer manufacture and model name appears.

6 Click **[Have Disk]**.

A dialog box for installing the driver from a disk appears.

- 7** Insert the CD-ROM into the CD-ROM drive while pressing the **[SHIFT]** key until the computer finishes accessing the CD-ROM.

If the Auto Run program starts, click **[Cancel]**.

- 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 **[NT4]**. Then double-click the folder of the appropriate language for the operating system. Finally, click **[Open]**.

- 10** Click **[OK]**.

A printer model selection dialog box appears.

- 11** Click to select the name of the printer whose driver you want to install, and then click **[Next]**.

A dialog box 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 box 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 the computer's hard disk.

 **Note**

- Print a test page after completing installation and restarting Windows.

- 15** If you are asked to insert the Windows NT 4.0 CD-ROM, insert it in the computer, and then click **[OK]**.

- 16** If you are asked to provide the driver of the Windows NT 4.0 CD-ROM, select the drive of the Windows NT 4.0 CD-ROM.

- 17** If you are asked to provide the location of the required file, select the appropriate folder. The location of the appropriate folder may differ depending on the version of the operating system. The following is an example:

- folder named **[i386]** of the Windows NT 4.0 CD-ROM.

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

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

 **Important**

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

Setting up options

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

The **[Printers]** window appears.

- 2** Click to select the icon of the printer you want to use.

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

The **[Printer Properties]** dialog box appears.

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

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

The current setting appears in the **[Change Settings]** box.

- 6** Use the **[Change Settings:]** 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]**.

Using Adobe PageMaker Version 6.0 or 6.5

If you use the printer under Windows 95/98/NT 4.0 with Adobe PageMaker, you need to copy the PPD file to the PageMaker folder.

The PPD file is the file with extension ".ppd". It is in the folder "\\PS\\WIN95_98\\(Language)\\DISK1\\" in the CD-ROM.

The **[WIN95_98]** folder, inside the **[PS]** folder is for the Windows 95/98 operating system. Use the folder at this level that is appropriate for the operating system you are using.

The third folder, "(Language)" may be substituted by an appropriate language name.

Copy this file to the PageMaker folder.

4

For PageMaker 6.0 default installation, the folder is "C:\\PM6\\RSRC\\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\\PM65\\RSRC\\USENGLISH\\PPD4". The "USENGLISH" may differ depending on your language selection.

Reference

For more information about the language name, see P.40 "*Installing by Auto Run*".

Macintosh

Macintosh - Installing the PPD File

You can use the LaserWriter printer driver that comes with a Macintosh when printing from a Macintosh. However, if you use the LaserWriter printer 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 a 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 the operating system for more information about the functions of the LaserWriter 8 printer driver.

Installing the PPD File

- 1** Start the Macintosh.
- 2** Double-click the icon of the hard disk to open it.
- 3** Open the [Extensions] folder inside the [System Folder] by double-clicking it.
- 4** Insert the CD-ROM into the CD-ROM drive.
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 the printer and drop it into the [Printer Descriptions] folder inside the [Extensions] folder on the 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, click to select the name of the printer you want to use.
- 4** Click **[Create]**.
- 5** Click to select the printer you want to use, 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, follow the procedure on P.52 “*Setting up options*” to make the option settings, or close the **[Chooser]** dialog box.

Setting up options

- 1** On the Apple menu, select **[Chooser]**.
- 2** Click the **[LaserWriter 8]** icon.
- 3** In the **[Select the PostScript Printer]** list, click to select the name of the printer you want to use, 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 does not appear, the PPD file has not been set up correctly. Check the name of the PPD file shown in the dialog box.

- 6** Click **[OK]**.
The list of options closes.
- 7** Click **[OK]**.
The **[Chooser]** dialog box appears.
- 8** Close the **[Chooser]** dialog box.

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Declaration of Conformity

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

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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