



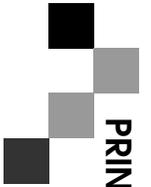
PRINTER INTERFACE UNIT TYPE510



Operating Instructions Printer Reference 1



-
- 1 Getting Started
 - 2 Configuring the Printer for the Network
 - 3 Installing the Printer Driver and Software



PRINTER INTERFACE UNIT TYPE510 Operating Instructions Printer Reference 1

Introduction

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

Important

Contents 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.

Warning:

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

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

- The product name of Windows® 95 is Microsoft® Windows® 95
- The product name of Windows® 98 is Microsoft® Windows® 98
- The product name of Windows® Me is Microsoft® Windows® Millennium Edition (Windows Me)
- The product name of Windows® XP are as follows:
 - Microsoft® Windows® XP Professional
 - Microsoft® Windows® XP Home Edition
- The product name of Windows® 2000 are as follows:
 - Microsoft® Windows® 2000 Advanced Server
 - Microsoft® Windows® 2000 Server
 - Microsoft® Windows® 2000 Professional
- The product name of Windows® NT are as follows:
 - Microsoft® Windows NT® Server 4.0
 - Microsoft® Windows NT® Workstation 4.0

Notes:

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

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

Note to users in the United States of America

Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Caution

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

Caution (in case of IEEE1284 environment) :

Properly shielded and grounded cables and connectors must be used for connections to host computer (and/or peripheral) in order to meet FCC emission limits.

Caution (in case of 100BaseTX environment):

Network interface cable with ferrite core must be used for RF interference suppression.

Declaration of Conformity

Product Name: Printer Controller

Model Number: PRINTER INTERFACE UNIT TYPE510

Responsible party: Ricoh Corporation

Address: 5 Dedrick Place, West Caldwell, NJ 07006

Telephone number: 973-882-2000

This device complies with part 15 of FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Note to users in Canada

Note:

This Class B digital apparatus complies with Canadian ICES-003.

Remarque concernant les utilisateurs au Canada

Avertissement:

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Note to users in Canada

Note:

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IEEE802.11b Interface Kit Type B:

This device complies with RSS-210 of Industry Canada.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Remarque concernant les utilisateurs au Canada

Avertissement:

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

IEEE802.11b Interface Kit Type B:

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada.

L'expression «IC:» avant le numéro d'homologation/enregistrement signifie seulement que les spécifications techniques d'Industrie Canada ont été respectées.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal.

Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

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Manuals for This Machine

The following manuals describe the operational procedures and maintenance of this machine.

To enhance safe and efficient operation of this machine, all users should read and follow the instructions carefully.

❖ **PRINTER INTERFACE UNIT TYPE510 Printer Reference 1 (this manual)**

Describes system settings, procedures and functions for using the machine as a printer.

❖ **PRINTER INTERFACE UNIT TYPE510 Printer Reference 2**

Describes procedures and provides information about using the machine as a printer. This manual is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities".

❖ **Network Printing Guide Operating Instructions**

Describes procedures and provides information about setting up and using the machine as a printer in a network environment. We recommend you read this manual first. It is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities" .

❖ **POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement**

Describes menus and features you can set using the PostScript 3 printer driver. This manual is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities".

 **Note**

- Printing with the PostScript 3 printer driver is available when the optional PostScript 3 Interface Unit is installed on your machine.

❖ **UNIX Supplement**

Provides information about setting up and using the machine as a printer in a UNIX environment. For UNIX printing information, please visit our web site or consult your authorized dealer.

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 and buttons that appear on the computer's display.

Keys that appear on the machine's display panel.

[]

Keys built into the machine's control panel.

Keys on the computer's keyboard.

1. Getting Started

Features of This Machine

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

❖ **Standard compatibility with Windows 95/98/Me, Windows 2000, Windows XP and Windows NT 4.0**

As the printer drivers for the above operating systems are included, it is possible to print to maximum capacity by using the special features of this machine.

❖ **Network Connectivity**

This machine can be used as a network printer.

It can print from any environment as it supports at the same time NetWare (TCP/IP, IPX/SPX), Windows 95/98/Me (TCP/IP, NetBEUI), Windows 2000 (TCP/IP, NetBEUI), Windows XP (TCP/IP), Windows NT 4.0 (TCP/IP, NetBEUI), UNIX (TCP/IP), and Macintosh (AppleTalk).

If you register the user code by using the client, you can keep track of printing jobs done under each code.

❖ **Use the Network Utilities included at your own convenience.**

When you use "SmartNetMonitor for Client" and "SmartNetMonitor for Admin" network utilities, you can parallel print, allowing you to scatter large amounts of print sets across multiple printers; or alternative print, which allows you to use another printer when you can not access the network printer you are trying to use. Also, while at your workstation, the machine will notify you when the print job is completed.

Printer Drivers for This Machine

Printing requires installation of a printer driver for your operating system. The following drivers are included on the CD-ROM labeled "Printer Drivers and Utilities" that comes with this machine.

Printer Language	PCL 6	PCL 5e	RPCS™	PostScript3 *11
Operating system				
Windows 95 *1	√	√	√	√ *12
Windows 98 *2	√	√	√	√ *12
Windows Me *3	√	√	√	√ *12
Windows 2000 *4	√	√	√	√ *13
Windows XP *5	√	√	√	√ *13
Windows NT 4.0 *6	√ *9	√ *9	√ *9	√ *10 *12
Mac OS *7				√ *12
Mac OS X *8				√ *14

*1 Microsoft Windows 95 operating system

*2 Microsoft Windows 98 operating system

*3 Microsoft Windows Millennium Edition

*4 Microsoft Windows 2000 Advanced Server

Microsoft Windows 2000 Server

Microsoft Windows 2000 Professional

*5 Microsoft Windows XP Professional

Microsoft Windows XP Home Edition

*6 Microsoft Windows NT Server operating system version 4.0, Microsoft Windows NT Workstation operating system version 4.0 in a computer using x86 processors.

*7 Versions 8.6 to 9.2 of the Mac OS (Mac OS X Classic mode is supported.)

*8 Mac OS X 10.1 or later (Native mode)

*9 Requires Service Pack 4 or later.

*10 Requires Service Pack 6 or later.

*11 Requires POSTSCRIPT3 INTERFACE UNIT TYPE510 (option).

*12 The Adobe PostScript 3 printer drivers and PostScript Printer Description (PPD) files are included on the CD-ROM labeled "Printer Drivers and Utilities".

*13 The PostScript Printer Description (PPD) files are included on the CD-ROM labeled "Printer Drivers and Utilities".

*14 The Adobe PostScript Printer Description (PPD) installer is included on the CD-ROM labeled "Printer Drivers and Utilities".

❖ PCL printer drivers

Two kinds of PCL printer drivers: PCL 6 and PCL 5e, are included on the CD-ROM that comes with this machine. These drivers allow the computer to communicate with the machine via a printer language. We recommend PCL 6 as your first choice.

 Note

- Some applications may require installation of the PCL 5e printer driver. In this case, you can install PCL 5e without having to install PCL 6.
⇒ p.37 “Installing the PCL 6/5e and RPCS™ Printer Driver”

❖ RPCS™ printer driver

The RPCS™ printer drivers are included on the CD-ROM that comes with this machine. This printer driver allows the computer to communicate with the machine via a printer language. The preset type user interface is provided in addition to the conventional one.

⇒ p.37 “Installing the PCL 6/5e and RPCS™ Printer Driver”

❖ Adobe PostScript 3 Printer Drivers and PPD files

The Adobe PostScript 3 printer drivers and the PPD files are included on the CD-ROM that comes with this machine. This printer driver allows the computer to communicate with the printer via a printer language. The PPD files allow the printer driver to enable the printer specific functions.

⇒ p.41 “Installing the PostScript 3 Printer Driver”

Software and Utilities Included on the CD-ROM

1

❖ SmartNetMonitor for Admin

This utility is for the system administrator to manage printers on the network.

Reference

See SmartNetMonitor for Admin online Help for more information about using the SmartNetMonitor for Admin.

❖ SmartNetMonitor for Client

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

Reference

See SmartNetMonitor for Client online Help for more information about using the SmartNetMonitor for Client.

❖ Agfa Monotype Font Manager 2000

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

❖ 1394 Utility

This utility is for the optional 1394 Interface Unit. For more information, see the Readme file.

❖ USB Printing Support

This utility is for the optional USB2.0 Interface Board. Install this utility to use the USB connection on computers running Windows 98SE/Me. For information about installing, see p.53 "Installing the Printer Driver Using USB".

❖ Acrobat Reader

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

Note

- Documentation about using the machine is included on the CD-ROM in PDF format. See Acrobat Reader online Help for more information about using Acrobat Reader.

❖ Printer Utility for Mac

This utility allows users to download and manage a variety of fonts as well as to manage their printers. For more information about this utility, see the *POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement* on the CD-ROM labeled "Printer Drivers and Utilities".

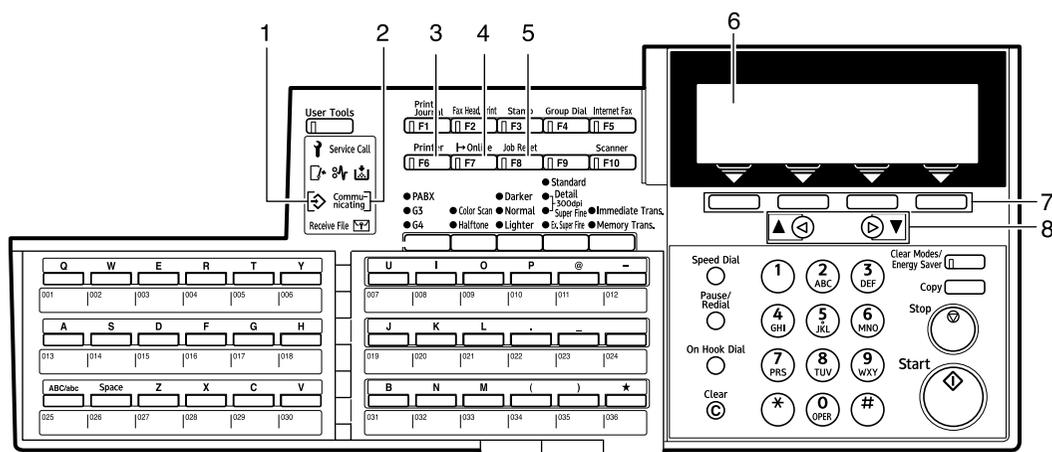
Important

- Software and utilities must be uninstalled before installing newer versions of Windows. Reinstall software and utilities after upgrading Windows.

Guide to This Machine

Control Panel

1



ZHGS010E

1. Data In Indicator

Is on while the printer is receiving the data from the host computer and there is data to be printed.

2. Communicating

Blinks when the machine is printing. Is on during fax transmission or reception.

3. [Printer] key

Press this key to change the printer mode.

4. [Online] key

Press this key to switch the printer between online and offline

5. [Job Reset] key

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

6. Display panel

Shows the current status of the machine, error messages and function menus.

7. Selection Keys

These keys match the keys shown on the display. Press them to select functions and choose settings etc.

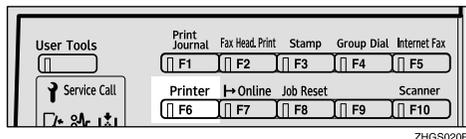
8. [▲][▼] key

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

Display Panel

The display panel shows the status, error messages and function menus.

Press **[Printer]** to change the printer mode.

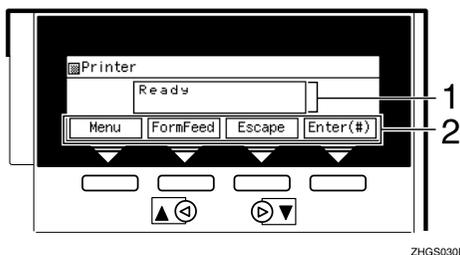


Important

Do not apply a strong shock or force of about 30 N^{*1} (about 3 kgf^{*2}) or more to the display panel. Otherwise, the display can get damaged.

*1 N = Newton

*2 kgf = Kilogram force (1kgf \doteq 9.8N)



1. Operation or error messages appear.

2. These keys correspond to the keys that are in the bottom line of the display.

Online and Offline

Press the **【Online】** key to switch the printer between online and offline.

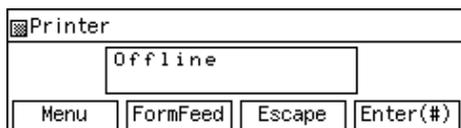
When the printer is online, it can receive data from the computer. Also the **【Online】** key is on while the printer is online.

When the printer is offline, it cannot receive data from the computer. You can make printer setting when it is offline. Also the **【Online】** key is off while the printer is offline.

- Online



- Offline



Connecting the Machine

1

This section gives instructions for connecting the machine and computer using the interface cable.

Requirements

Before using this machine, make sure all environmental and electrical requirements are met. Connect the machine to the host computer using the parallel port, network interface unit, or both.

Make sure all cables, connectors, and electrical outlets necessary to attach the machine to the host computer or network are present.

Connection to a Network

Connect the machine to the host computer using the Ethernet port. This machine does not come with a Ethernet cable to connect the machine to an Ethernet network.

The network interface board can be installed to allow direct connection to an Ethernet network. The network interface board supports 10BASE-T or 100BASE-TX connections.

1 Turn off the power switch.

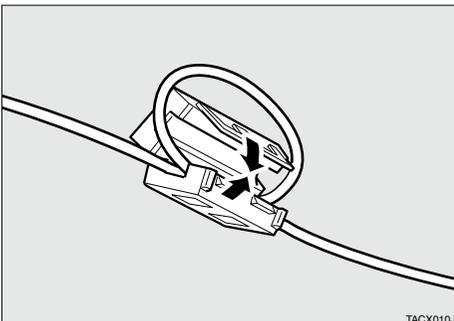
⚠ Important

- ❑ Before turning off the power switch, see "Power Failure Report", *Advanced Features/Operating Instructions*..

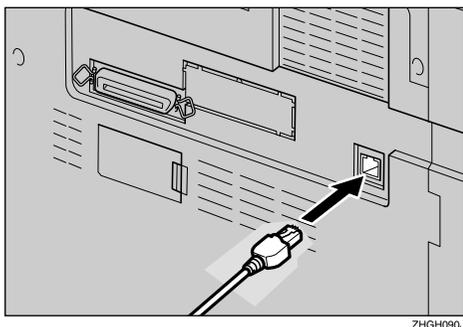
2 Loop the network interface cable and attach the ferrite core.

📝 Note

- ❑ The network interface cable loop should be about 20 cm (8") (①) from the end of the cable (on the end closet to the printer). The ferrite core at the end of the cable should be a ring type ferrite core.



- 3** Connect the network interface cable to the port on the right side of the machine.



- 4** Connect the other end of the network interface cable to the network equipment. e.g. Hub.
- 5** Turn on the power switch.

Connecting the Machine to the Host Using the Parallel Cable

Connect the machine to the host computer using the parallel port. This machine does not come with a parallel cable to connect the machine to the host computer.

The machine's parallel interface is a standard bidirectional interface. It requires a standard IEEE 1284 compliant 36-pin parallel cable and a parallel port on the host computer. Make sure to purchase the appropriate cable for the machine and your computer.

Note

- Do not use a parallel cable that is longer than 3 meters (10 feet).
- Rating voltage of the interface connector: Max. DC 5V

Follow the procedures below to connect the machine to the host computer using a parallel cable.

Important

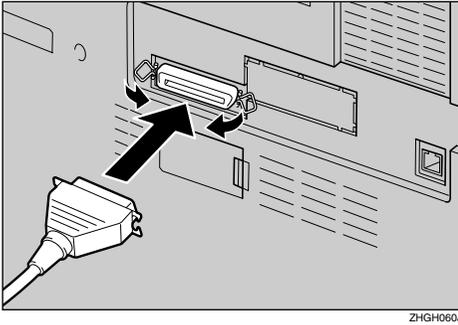
- Before connecting the machine and a computer using an interface cable, make sure that the machine is not operating, and then turn off the power switches of the machine and computer.
- Be sure to use the designated interface cable. Other cables may cause radio interference.

- 1** Turn off the power switch.

Important

- Before turning off the power switch, see "Power Failure Report", *Advanced Features/Operating Instructions*.

- 2** Plug the 36-pin end of the parallel cable into the parallel port at the right side of the back cover of the machine.



- 3** Squeeze the wire clips on each side of the connector together until they snap into place. The clips hold the cable securely in place.
- 4** Plug the other end of the parallel cable into the computer's parallel port. Turn on the power switch.

Connecting the Machine to the Host Using the IEEE 1394 Interface

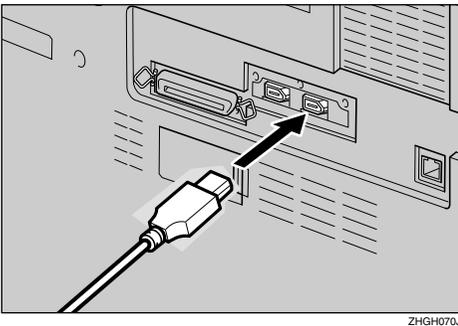
Important

- Before making the connection, touch the metallic part to dissipate static electricity.

Note

- Use the interface cable supplied with the IEEE 1394 Interface Board (option).
- The interface cable should not be looped.

- 1** Connect the IEEE 1394 interface cable to the IEEE 1394 ports.



Note

- Two interface ports are available for attaching the IEEE 1394 interface cable.

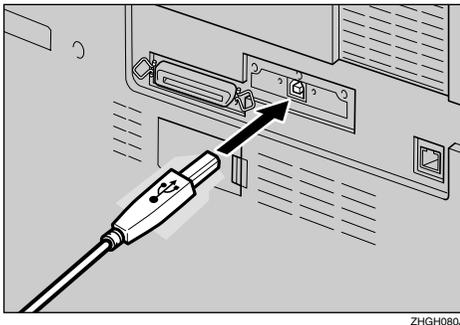
Connecting the Machine to the Host Using the USB Cable

You can connect the machine to the host computer using a USB interface cable when the optional USB2.0 Interface Board is installed in the machine.

This machine does not come with a USB interface cable. Make sure to purchase the appropriate cable for the machine and your computer.

Follow the procedures below to connect the machine to the host computer using a USB interface cable.

- 1** Connect the USB2.0 interface cable to the USB2.0 port at the right side of the back cover of the machine.



- 2** Connect the other end to the USB port on the host computer.

 **Note**

- The optional USB2.0 Interface Board is supported by Windows 98SE/Me, Windows 2000/XP, Mac OS 9.x and Mac OS X Classic mode.
 - For Windows 98SE/Me:
Make sure to install "USB Printing Support". When USB2.0 is used with Windows 98SE/Me, only a speed equal to that of USB1.1 is possible.
 - Macintosh supports only the standard USB port.

Using the Bypass Tray

This section gives instructions for setting paper on the optional bypass tray. Use the bypass tray to print onto OHP transparencies, labels, thick paper and envelopes that cannot be loaded in the paper tray.

Reference

For setting paper into the regular paper tray, see the *Advanced Features/Operating Instructions*.

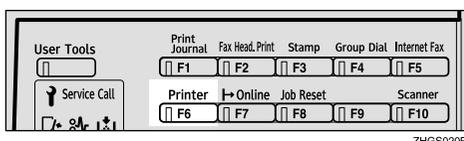
Note

- Paper within the following dimensions can be set in the bypass tray:
 - Vertical: 100.0 - 297.0 mm (3.93 in. - 11.60 in.)
 - Horizontal: 148.0 - 432.0 mm (5.80 in. - 16.85 in.)
- Be sure to set the paper with the side you want to print facing down in  orientation in the bypass tray.
- You can set paper size using the printer driver. The following procedures are not necessary when setting paper size using the printer driver.
- The paper size set using the printer driver has priority over that set using the display panel.
- When the printer driver is not used, make settings using the display panel.

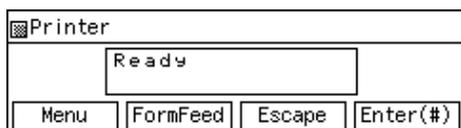
Reference

For printer driver settings, see the printer driver's Help.

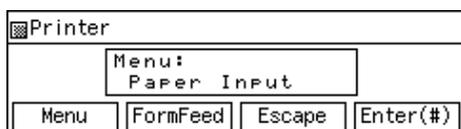
- 1** Press the **[Printer]** key on the control panel.



- 2** Press **[Menu]**.



- 3** Press the **[▲]** or **[▼]** key to display **[Paper Input]**, and then press **[Enter (#)]**.



- 4** Press the [▲] or [▼] key to display [Tray Priority], and then press [Enter (#)].

Printer			
Paper Input: Tray Priority			
Menu	FormFeed	Escape	Enter(#)

- 5** Press the [▲] or [▼] key to display [Bypass Tray], and then press [Enter (#)].

Printer			
Tray Priority: Bypass Tray			
Menu	FormFeed	Escape	Enter(#)

The following message appears on the display panel. In about two seconds, the display panel will return to step **4**.

Printer			
Paper Input: Tray Priority			
Menu	FormFeed	Escape	Enter(#)

- 6** Press [Menu].

Setting custom size paper

Note

- Custom sizes can also be set using the printer driver. The following procedures are not necessary when setting custom sizes using the printer driver.
- Custom size settings set using the printer driver have priority over those in the display panel on the machine.
- When the printer driver is not used, make settings using the display panel.

Reference

For printer driver settings, see the printer driver's Help.

- 1** Press the [Printer] key on the control panel.
- 2** Press [Menu].
- 3** Press the [▲] or [▼] key to display [Paper Input], and then press [Enter (#)].
- 4** Press the [▲] or [▼] key to display [BypassCstm.Size], and then press [Enter (#)].

Printer			
Paper Input: BypassCstm.Size			
Menu	FormFeed	Escape	Enter(#)

- 5** Press the [▲] or [▼] key to set the vertical size of the paper.

Printer			
Custom Size:			
Vert. 210 mm			
Menu	FormFeed	Escape	Enter(#)

- 6** Press [Enter (#)].

- 7** Press the [▲] or [▼] key to set the horizontal size of the paper.

Printer			
Custom Size:			
Horiz. 297 mm			
Menu	FormFeed	Escape	Enter(#)

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

The following message appears on the display panel. In about two seconds, the display panel will return to step **4**.

Printer			
Paper Input:			
ByPassCstm.Size			
Menu	FormFeed	Escape	Enter(#)

- 9** Press [Menu].

Setting thick paper or OHP transparencies

Note

- ❑ Set OHP transparencies one by one. Everytime you print on an OHP transparency, remove the transparency from the paper tray .
- ❑ An unusual sound may occur while printing on some types of OHP transparency. If this bothers you, set the OHP transparency after placing a sheet of bond paper on top of it.
- ❑ Paper settings can also be set using the printer driver. The following procedures are not necessary when setting paper sizes using the printer driver.
- ❑ Paper size settings set using the printer driver have priority over those using the display panel on the machine.
- ❑ When the printer driver is not used, make settings using the display panel.

Reference

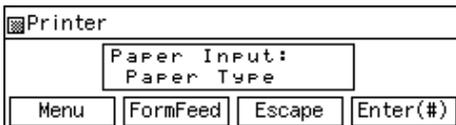
For printer driver settings, see the printer driver's Help.

1 Press the **[Printer]** key on the control panel.

2 Press **[Menu]**.

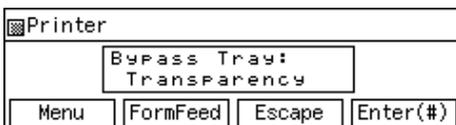
3 Press the **[▲]** or **[▼]** key to display **[Paper Input]**, and then press **[Enter (#)]**.

4 Press the **[▲]** or **[▼]** key to display **[Paper Type]**, and then press **[Enter (#)]**.

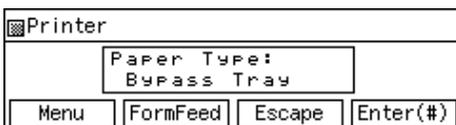


5 Press the **[▲]** or **[▼]** key to display **[Bypass Tray]**, and then press **[Enter (#)]**.

6 Press the **[▲]** or **[▼]** key to select the paper type, and then press **[Enter (#)]**.



The following message appears on the display panel. In about two seconds, the display panel will return to step **5**.



7 Press **[Menu]**.

2. Configuring the Printer for the Network

Make the network settings below depending on the network interface you use.

- Parallel/USB: Making network settings is not necessary. Go to p.31 “Installing the Printer Driver and Software”.
- Ethernet: Make the settings in p.19 “Ethernet Configuration”, and then see p.31 “Installing the Printer Driver and Software”.
- IEEE 1394: Make the settings in p.23 “IEEE 1394 Configuration”, and then see p.31 “Installing the Printer Driver and Software”.
- Wireless LAN: Make the settings in p.26 “IEEE 802.11b (Wireless LAN) Configuration”, and then see p.31 “Installing the Printer Driver and Software”.

Note

- The optional 1394 Interface Unit is necessary to use IEEE 1394.
- The optional IEEE802.11b Interface Kit is necessary to use the wireless LAN.

Ethernet Configuration

Configure the printer for the network using the machine's control panel.

The following table shows the control panel settings and their default values. These items are included in the “Host Interface” menu.

Reference

For information about configuring the computer for the network, see the *Network Printing Guide* on the CD-ROM labeled “Printer Drivers and Utilities”.

For information about “Host Interface” menu, see “Host Interface Menu”, *Printer Reference 2* on the CD-ROM labeled “Printer Drivers and Utilities”.

Setting Name	Value
IP Address	011.022.033.044
Subnet Mask	000.000.000.000
Gateway Address	000.000.000.000
DHCP	On

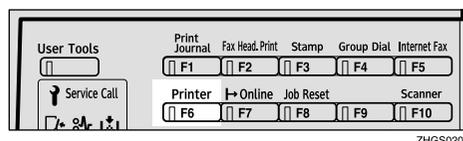
Setting Name	Value	
Frame Type (NW) (Frame type NetWare)	Auto	
Active Protocol	TCP/IP	<input type="radio"/> *1
	NetWare	<input type="radio"/> *1
	NetBEUI	<input type="radio"/> *1
	AppleTalk	<input type="radio"/> *1
Ethernet *2	Auto	
LAN Type *3	Ethernet	

*1 means that this protocol is active.

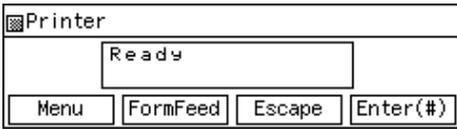
*2 Make this setting only when it is necessary.

*3 Appears only when both the Network Interface Board and the optional IEEE802.11b Interface Kit are installed.

1 Press the **[Printer]** key on the control panel.

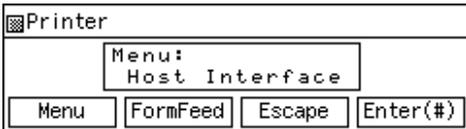


2 Press [Menu].



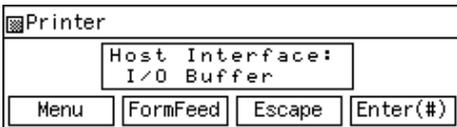
“Menu” appears on the panel display.

3 Press the [▲] or [▼] key to display “Host Interface” menu.

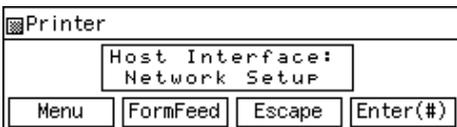


4 Press [Enter (#)].

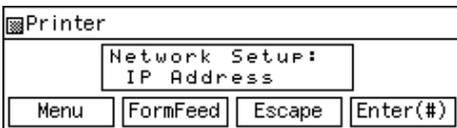
The following message appears on the display panel.



5 Press the [▲] or [▼] key to display “Network Setup”.



6 Press [Enter (#)].

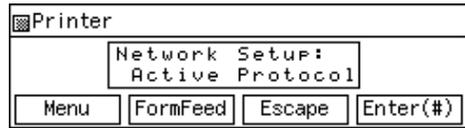


7 Select the protocol you want to use.

Note

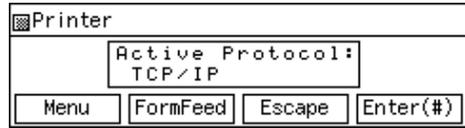
- Do not select protocols that are not used on your network.

1 Press the [▲] or [▼] key to display “Active Protocol”.



2 Press [Enter (#)].

The current setting appears on the display panel.



3 Press [Enter (#)].

4 Press the [▲] or [▼] key to select "Active" or "Not Active", and then press [Enter (#)].

5 Set other protocols you need to set in the same way.

Note

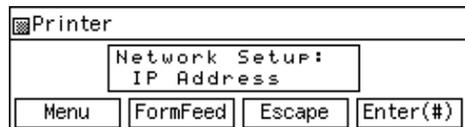
- Leave unused protocols "Not Active".

8 If you use TCP/IP, assign the IP address to the printer.

Note

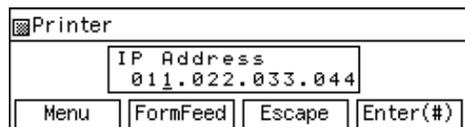
- To get the IP address for the printer, contact your network administrator.

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



2 Press [Enter (#)].

The current IP address appears on the display panel.



- 3 Press the **[▲]** or **[▼]** key to enter the left most entry field of the IP address.

Printer			
IP Address			
192.022.033.044			
Menu	FormFeed	Escape	Enter(#)

- 4 Press **[Enter (#)]**.

The pointer moves to the next entry field.

Printer			
IP Address			
192.022.033.044			
Menu	FormFeed	Escape	Enter(#)

 **Note**

- The value moves by 10 if the **[▲]** or **[▼]** key is kept pressed.
- You can return the pointer to the previous (left) entry field by pressing **[Escape]**.
- If you press **[Escape]** when the pointer is on the leftmost position, the selected IP address is reset.

- 5 Repeat steps 3 and 4 to enter the IP address.

Printer			
IP Address			
192.168.000.011			
Menu	FormFeed	Escape	Enter(#)

Check if the pointer is at the rightmost position, and press **[Enter (#)]** to register the IP address you selected.

Printer			
Network Setup:			
IP Address			
Menu	FormFeed	Escape	Enter(#)

- 9 If you use TCP/IP, assign "Subnet Mask" and "Gateway Address" following the same procedure for entering the IP address.

- 10 If you use TCP/IP, you can make settings for "DHCP".

You can select how to assign the printer's address using the computer. Select one of the items below if necessary.

- On (Default)
- Off

- 1 Press the **[▲]** or **[▼]** key to display "DHCP".

Printer			
Network Setup:			
DHCP			
Menu	FormFeed	Escape	Enter(#)

- 2 Press **[Enter (#)]**.

The current setting appears on the display panel.

Printer			
DHCP:			
*On			
Menu	FormFeed	Escape	Enter(#)

- 3 Press the **[▲]** or **[▼]** key to display the method you want to use.

- 4 Press **[Enter (#)]**.

- 11 If you use NetWare, select the frame type for NetWare.

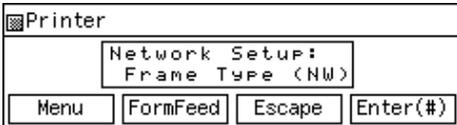
Select one of the items below if necessary.

- Auto (Default)
- Ethernet 802.3
- Ethernet 802.2
- Ethernet II
- Ethernet SNAP

Note

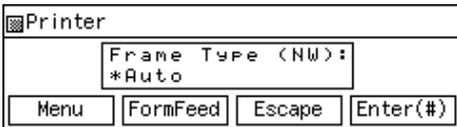
Usually, use the default setting ("Auto"). When you first select "Auto", the frame type detected by the printer is adopted. If your network can use more than two frame types, the printer may fail to select the correct frame type if "Auto" is selected. In this case, select the appropriate frame type.

1 Press the [▲] or [▼] key to display "Frame Type (NW)".



2 Press [Enter (#)].

The current setting appears on the display panel.



3 Press the [▲] or [▼] key to display the frame type you want to use.

4 Press [Enter (#)].

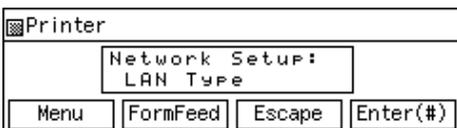
12 Select the interface.

Ethernet and IEEE 802.11b appear only when both the Network Interface Board and the IEEE802.11b Interface Kit are installed.

Select one of the items below.

- Ethernet
- IEEE 802.11b

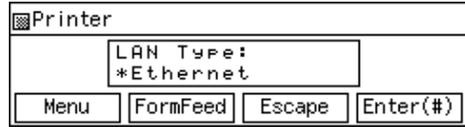
1 Press the [▲] or [▼] key to display "LAN Type".



2 Press [Enter (#)].

The current setting appears on the display panel.

3 Press the [▲] or [▼] key to display "Ethernet".



4 Press [Enter (#)].

13 Press [On Line].

"Ready" appears on the panel display.

14 Print a configuration page to confirm the settings made. See "Printing a Configuration Page", *Printer Reference 2*.

The settings are now complete. Go to p.31 "Installing the Printer Driver and Software".

IEEE 1394 Configuration

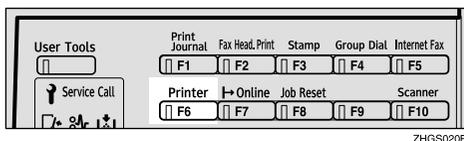
Use this procedure to configure the printer for use in the IEEE 1394 environment. The following table shows the control panel settings and their default values. These items are included in the "Host Interface" menu.

Setting Name	Value
IP Address1394	000.000.000.000
Subnet Mask1394	000.000.000.000
IP over 1394	Active
SCSI print	Active
Bidi-SCSI print	Active

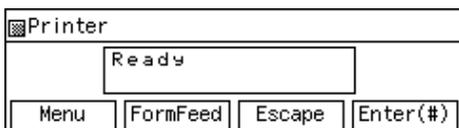
Depending on the protocol you use, procedures vary. See the following table.

IP over 1394	Steps 1-9 and then go to steps 10 to 15
SCSI print	Steps 1-5 and then go to steps 10 to 15

- 1 Press the **[Printer]** key on the control panel.

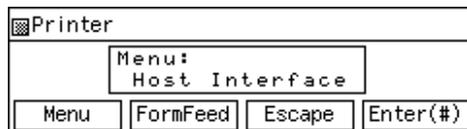


- 2 Press **[Menu]**.



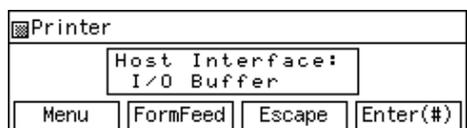
"Menu" appears on the panel display.

- 3 Press the **[▲]** or **[▼]** key to display "Host Interface" menu.

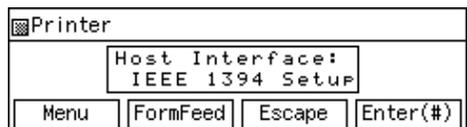


- 4 Press **[Enter (#)]**.

The following message appears on the display panel.

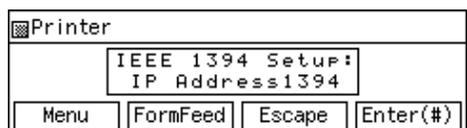


- 5 Press the **[▲]** or **[▼]** key to display "IEEE 1394 Setup".

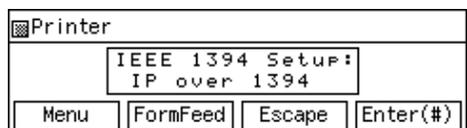


- 6 Press **[Enter (#)]**.

The following message appears on the display panel.



- 7 Press the **[▲]** or **[▼]** key to display "IP over 1394".



- 1 Press **[Enter (#)]**.
- 2 Press the **[▲]** or **[▼]** key to select either "Active" or "Not Active".

3 Press **[Enter (#)]**.

The display returns to the previous menu in a few seconds.

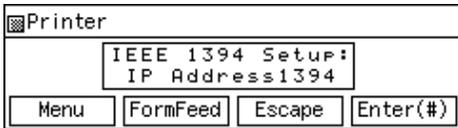
8 Assign the IP address to the printer.

Do not overlap the IP address in the same subnet or the same IP address in the Ethernet or wireless LAN setting.

Note

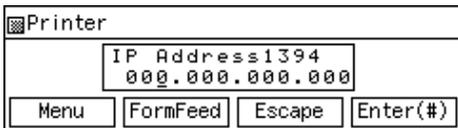
- To get the IP address for the printer, contact your network administrator.

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

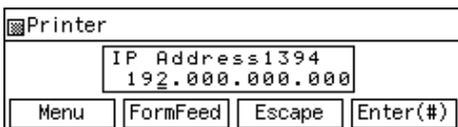


2 Press **[Enter (#)]**.

The current IP address appears on the display panel.

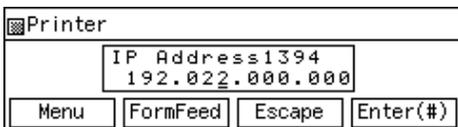


3 Press the **[▲]** or **[▼]** key to enter the leftmost entry field of the IP address.



4 Press **[Enter (#)]**.

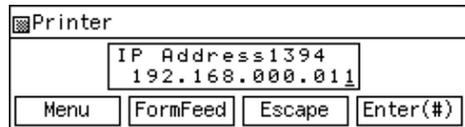
The pointer moves to the next entry field.



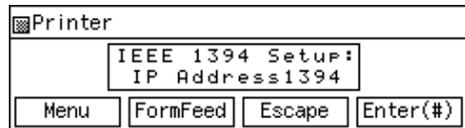
Note

- The value moves by 10 if the **[▲]** or **[▼]** key is kept pressed.
- You can return the pointer to the previous (left) entry field by pressing **[Escape]**.
- If you press **[Escape]** when the pointer is on the leftmost position, the selected IP address is reset.

5 Repeat steps **3** and **4** to enter the IP address.



Check if the pointer is at the rightmost position, and press **[Enter (#)]** to register the IP address you selected.



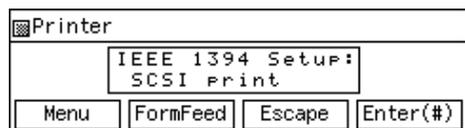
9 Set "Subnet Mask 1394" in the same way.

10 Set "SCSI print" and "Bidi-SCSI print" if necessary.

Note

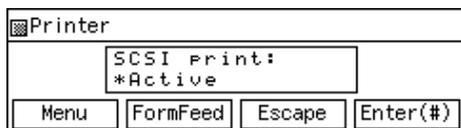
- The default setting is "Active".

11 Press the **[▲]** or **[▼]** key to display "SCSI print".



12 Press [Enter (#)].

The following message appears on the display panel.

**13** Press the [▲] or [▼] key to select either "Active" or "Not Active", and then press [Enter (#)].

Set " Bidi-SCSI print " in the same way.

14 Press [On Line].

"Ready" appears on the panel display.

15 Print a configuration page to confirm the settings made. See "Printing a Configuration Page", *Printer Reference 2*.

The settings are now complete. Go to p.31 "Installing the Printer Driver and Software".

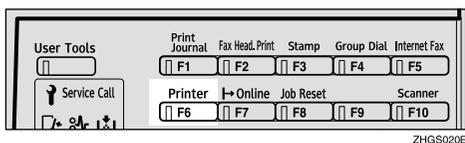
IEEE 802.11b (Wireless LAN) Configuration

Configure the printer for using the IEEE 802.11b (Wireless LAN). The following table shows the control panel settings and their default values. These items are included in the "Host Interface" menu.

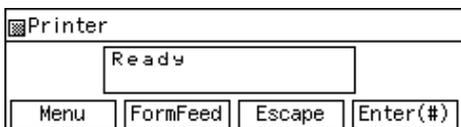
Setting Name	Value
Comm. Mode	802.11 Ad hoc
Channel	• (1-11) 11
Trans. Speed	Auto
WEP Setting	Not Active

In order to use the IEEE 802.11b (Wireless LAN), select "IEEE 802.11b" for "LAN Type" in "Network Setup" of the Host Interface menu, and then set "IP Address", "Subnet Mask", "Gateway Address", "Network Boot", "Frame Type (NW)" and "Active Protocol" in the "Network Setup". For more information about setting the items in the "Network Setup", see p.19 "Ethernet Configuration".

1 Press the **[Printer]** key on the control panel.

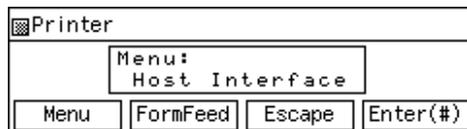


2 Press **[Menu]**.



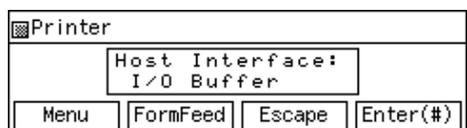
"Menu" appears on the panel display.

3 Press the **[▲]** or **[▼]** key to display "Host Interface" menu.

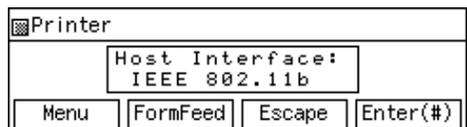


4 Press **[Enter (#)]**.

The following message appears on the display panel.

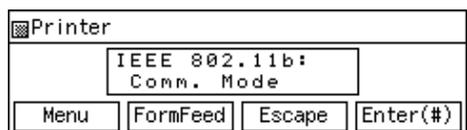


5 Press the **[▲]** or **[▼]** key to display "IEEE 802.11b".



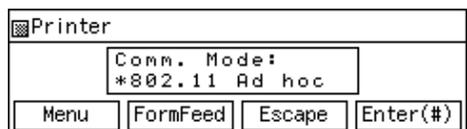
6 Press **[Enter (#)]**.

Be sure that "Comm. Mode" appears on the display panel.



7 Press **[Enter (#)]**.

The following message appears on the display panel.



- 8** Press the **[▲]** or **[▼]** key to select the transmission mode.

Note

- The factory default is "802.11 Ad hoc".
- To use an IEEE 802.11b card for which the IBSS (Network Name) setting is not necessary, select "Ad hoc".

- 9** Press **[Enter (#)]**.

The display returns to the previous menu in a few seconds.

- 10** If "802.11 Ad hoc" or "Ad hoc" is selected for "Comm. Mode", set the channel to use for transmission.

Note

- Confirm the network administrator for the channel to use.

- 1** Press the **[▲]** or **[▼]** key to display "Channel".

Printer			
IEEE 802.11b:			
Channel			
Menu	FormFeed	Escape	Enter(#)

- 2** Press **[Enter (#)]**.

The channel currently used appears on the display panel.

Printer			
Channel:			
< 1-11 >		11	
Menu	FormFeed	Escape	Enter(#)

- 3** Press the **[▲]** or **[▼]** key to enter the channel.

- 4** Press **[Enter (#)]**.

- 11** Set "Trans. Speed" in the same way.

Note

- The factory default is "Auto". If you need to change the transmitting speed depending on environment you are using, select the appropriate transmitting speed.

- 12** Press the **[▲]** or **[▼]** key to display "SSID", and then press **[Enter (#)]**.

Printer			
IEEE 802.11b:			
SSID			
Menu	FormFeed	Escape	Enter(#)

The following message appears on the display panel.

Printer			
SSID:			
Enter ID			
Menu	FormFeed	Escape	Enter(#)

Note

- The factory default is "ASSID".
- If an SSID has been set, you can check the set SSID. Press the **[▲]** or **[▼]** key to display "View", and then press **[Enter (#)]**.

- 1** Press **[Enter (#)]**.

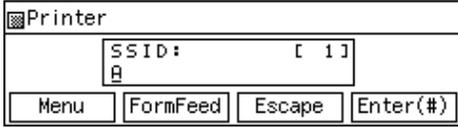
The following message appears on the display panel.

Printer			
SSID:			
_		[0]	
Menu	FormFeed	Escape	Enter(#)

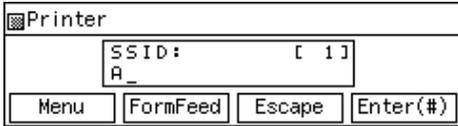
Note

- The value in brackets at the upper right is the number of characters entered.

- 2 Press the [▲] or [▼] key to select characters, and then press [Enter (#)].



The pointer moves to the next character position.

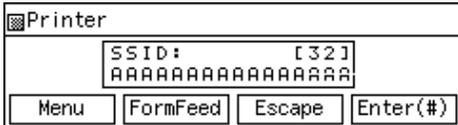


- 3 Continue entering the key.

Note

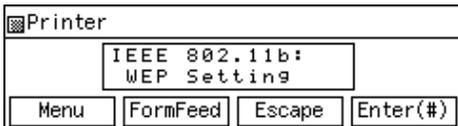
- The characters that can be used are ASCII 0x20-0x7e (32 bytes).
- If you press [Escape], the pointer moves to the previous character position.

- 4 After entering the key, press [Enter (#)] twice.



The screen returns to step 1.

- 13 Press the [▲] or [▼] key to display "WEP Setting".



- 1 Press [Enter (#)].



- 2 Press the [▲] or [▼] key to display "Active", and then press [Enter (#)].



The following message appears on the display panel.



Note

- When setting the WEP Setting to "Active", you will need to enter the WEP key. If you have not entered the key, be sure to enter it.
- If you have entered the WEP key and change the setting, press the [▲] or [▼] key to display "No", and then press [Enter (#)].

- 3 Press [Enter (#)].



Note

- The value in brackets at the upper right is the number of characters entered.

- 4 Press the [▲] or [▼] key to select characters, and then press [Enter (#)].

Printer			
WEP Key: [1]			
0			
Menu	FormFeed	Escape	Enter(#)

The pointer moves to the next character position.

Printer			
WEP Key: [1]			
0 _			
Menu	FormFeed	Escape	Enter(#)

- 5 Continue entering the key.

 **Note**

- You can enter either 10 or 26 characters. If the key you enter is not 10 or 26 characters long, the following message appears.

Printer			
Error: Enter 10 or 26 characters			
Menu	FormFeed	Escape	Enter(#)

- If you press [Escape], the pointer moves to the previous character position.

- 6 After entering the key, press [Enter (#)].

Printer			
WEP Key: [26]			
00000000000000000000			
Menu	FormFeed	Escape	Enter(#)

The screen returns to step 13.

- 14 Press [On Line].

“Ready” appears on the panel display.

- 15 Print a configuration page to confirm the settings made. See “Printing a Configuration Page” in the Printer Reference 2.

The settings are now complete. Go to p.31 “Installing the Printer Driver and Software”.

 **Address**

❖ **Subnet Mask**

A number used to mathematically “mask” or hide an IP address on the network by eliminating those parts of the address that are alike for all the machines on the network.

❖ **Gateway Address**

A gateway is a connection or interchange point that connects two networks. A gateway address is for the router or host computer used as a gateway.

 **Note**

- To get the addresses, contact your network administrator.

3. Installing the Printer Driver and Software

This manual assumes that you are familiar with general Windows procedures and practices. If you are not, see the documentation that comes with Windows for details.

Installation Method

❖ Installing using Auto Run

Inserting the CD-ROM into the CD-ROM drive starts the installer automatically. The installer helps you install the following printer drivers and software easily.

The following table shows the printer drivers and software that can be installed using Auto Run.

	Auto Run *1		
	Quick Install		Add Printer and Utility Wizard
	Network connection with TCP/IP	Parallel connection	
PCL 6 printer driver	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PCL 5e printer driver			<input type="radio"/>
RPCS™ printer driver	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PostScript 3 printer driver			<input type="radio"/>
Agfa Monotype Font Manager 2000			<input type="radio"/>
SmartNetMonitor for Admin			<input type="radio"/>
SmartNetMonitor for Client	<input type="radio"/>		<input type="radio"/>

*1 Available operating systems are as follows: Windows 95/98/Me, Windows 2000/XP, Windows NT 4.0. Auto Run is unavailable with Macintosh.

🔍 Reference

When the machine is connected to the computer using the IEEE 1394 interface or the USB2.0 interface, install the printer drivers separately.

⇒ p.53 "Installing the Printer Driver Using USB"

⇒ p.56 "Installing the Printer Driver Using IEEE 1394"

❖ Installing manually

The following printer drivers and software cannot be installed using Auto Run.

For Macintosh

- **PostScript 3 Printer Driver for Macintosh**
⇒ p.49 “Mac OS - Installing the PostScript 3 Printer Driver and Utilities”
- **PostScript Printer Descriptions Files (PPD)**
The PPD files for Mac OS 8.6 to 9.2, and Mac OS X are different.
⇒ p.49 “Mac OS - Installing the PostScript 3 Printer Driver and Utilities”
⇒ p.52 “Mac OS X - Installing a PPD File”
- **Adobe Type Manager (ATM)**
⇒ p.51 “Installing Adobe Type Manager (ATM)”
- **Screen Fonts**
⇒ p.51 “Installing screen fonts”
- **Printer Utility for Mac**
For installing the software, see the *POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement*.

For Windows

- **1394 Utility**
For installing the utility, see the Readme file.
- **USB Printing Support**
For installing the utility, see p.53 “Installing the Printer Driver Using USB”

⚠ Important

- Before starting the installation, close all documents and applications.
- After installing a printer driver, you must restart the computer.

📝 Note

- If “plug and play” is started, click **[Cancel]** in the **[New Hardware Found]**, **[Device Driver Wizard]** or **[Found New Hardware Wizard]** dialog box, and then insert the CD-ROM. The **[New Hardware Found]**, **[Device Driver Wizard]** or **[Found New Hardware Wizard]** dialog box appears depending on the system version of the Windows 95/98/Me, Windows 2000/XP.

 **User Codes**

User codes are eight digit codes that allow you to keep track of printing done under each code. To use this feature, the network administrator should assign user codes and inform users of them before they install the printer driver.

Use the following methods to enter a user code for registration:

- For the PCL 6/5e or PostScript 3 printer drivers, enter the user code on the **[Statistics]** tab in the Printer Properties dialog box.
- For the RPCS™ printer driver, click the **[Printer Configuration]** button on the **[Print Settings]** tab in the Printer Properties dialog box. A window opens. Click the **[User Code]** button in the opened window. A dialog box appears. Enter the user code in the dialog box.

 **Note**

- When using the RPCS™ printer driver on Windows 95/98/Me, the user code cannot be changed once entered. To change an entered user code, uninstall the printer driver, reinstall it, and then enter a new user code.

 **Additional Drivers (Alternate Drivers)**

If you want to share the machine on a Windows 2000/XP, Windows NT 4.0 platform, install the printer drivers of other versions of Windows as additional drivers, so that users running different versions of Windows can download them automatically when they connect.

 **Note**

- When using the “additional driver” function in the PostScript 3 printer driver with the Windows NT 4.0, Windows NT 4.0 Service Pack 6 or later is required. For the PCL 6/5e and RPCS™ printer drivers with Windows NT 4.0, Service Pack 4 or later is required.

For more information about installing the printer driver as an additional driver, see p.37 “Installing the PCL 6/5e and RPCS™ Printer Driver”, p.42 “Windows 2000/XP - Installing the PostScript 3 Printer Driver”, p.45 “Windows NT 4.0 - Installing the PostScript 3 Printer Driver”

Quick Install

Auto Run will start the installer automatically when you load the CD-ROM into the CD-ROM drive. By selecting Quick Install, you can easily install the PCL 6 printer driver and the RPCS™ printer driver. The SmartNetMonitor for Client can also be installed provided the machine and the computer are connected via the network.

The following conditions are required:

- Windows 95/98/Me, Windows 2000/XP or Windows NT 4.0

For Ethernet connections:

- The machine must be connected to the network using an Ethernet cable.
- TCP/IP protocol must be configured.
- The IP address must be assigned to both machine and computer.

For parallel connections:

- The machine must be connected to the computer using a parallel cable.
- Bidirectional transmission must be enabled.

Limitation

- If your operating system is Windows 2000/XP or Windows NT 4.0, installing a printer driver using Auto Run requires Administrators permission. When you install a printer driver using Auto Run, log on using an account that has Administrators permission.
- When the machine is connected to the computer using the IEEE 1394 interface or the USB2.0 interface, Quick Install cannot be used. See p.53 “Installing the Printer Driver Using USB”, p.56 “Installing the Printer Driver Using IEEE 1394”.

Important

- If your system is Windows NT 4.0, we recommend that you upgrade the Windows NT 4.0 operating system to Service Pack 4 or later before installing the PCL 6/5e or RPCS™ printer drivers. Contact your Windows retailer for more information about the latest version available.

Note

- If you want to cancel Auto Run, hold down the **[SHIFT]** key (when your operating system is Windows 2000/XP, hold down the left **[SHIFT]** key) while inserting the CD-ROM. Keep the **[SHIFT]** key held down until the computer has finished accessing the CD-ROM.

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click **[OK]**.

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

4 Click **[Quick Install]**.

The software license agreement appears in the **[License Agreement]** dialog box.

5 After reading through all of the contents, click **[I accept the agreement]** to agree with the license agreement, and then click **[Next]**.**6** Click a model name of the machine you are using when the **[Select Printer]** dialog box appears. **Note**

- For a network connection with TCP/IP, select the machine whose IP address is displayed in **[Connect To]**.
- For parallel connection, select the machine whose printer port is displayed in **[Connect To]**.

7 Click **[Install]**.**8** Follow the instructions on the screen. **Note**

- During installation in Windows 2000, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.
- During installation in Windows XP, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

A message prompting you to restart your computer may appear. To complete the installation, restart your computer.

 **Important**

- If the machine is installed with certain options, you should set the options using the printer driver. See p.39 "Setting Up Options"

 **Note**

- When you want to change the printer name, follow the procedure below.
 - **Windows 95/98/Me, Windows 2000, Windows NT 4.0**
Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**. The Printer window appears. Right-click the machine icon, and then select **[Rename]**.
 - **Windows XP Professional**
Click **[Start]** on the taskbar, and then **[Printers and Faxes]**. The Printers and Faxes window appears. Right-click the machine icon, and then select **[Rename]**.

- **Windows XP Home Edition**

Click **[Start]** on the taskbar, and then **[Control Panel]**. Click **[Printers and Other Hardware]**, and then **[Printers and Faxes]**. The Printers and Faxes window appears. Right-click the machine icon, and then select **[Rename]**.

Installing the PCL 6/5e and RPCS™ Printer Driver

This section describes basic instructions for installing the PCL 6/5e printer driver and RPCS™ printer driver without using Quick Install. Also, procedures are described for setting up options installed on the machine using the printer driver. Follow the procedures below as appropriate.

Reference

See p.34 “Quick Install” for installing the PCL 6 printer driver or RPCS™ printer driver using Quick Install.

3

Installing the PCL 6/5e and RPCS™ Printer Driver

Limitation

- If your system is Windows 2000/XP or Windows NT 4.0, installing a printer driver using Auto Run requires Administrators permission. When you install a printer driver using Auto Run, log on using an account that has Administrators permission.

Important

- When updating to the latest version of the printer driver, you should uninstall any earlier versions. See “Uninstalling the Printer Driver”, *Printer Reference 2*.
- If your system is Windows NT 4.0, we recommend that you upgrade the Windows NT 4.0 operating system to Service Pack 4 or later before installing the printer drivers. Contact your Windows retailer for more information about the latest version available.

Note

- If you want to share the machine on a Windows 2000/XP or Windows NT 4.0 platform, use the **[Sharing]** tab in the Printer Properties to specify the additional driver (alternate driver). For details, see the documentation that comes with Windows 2000/XP, or Windows NT 4.0.
- When prompted for the additional driver (alternate driver) location, select the following folders on the CD-ROM:
 - **Windows 95/98/Me**
 PCL 6: \DRIVERS\PCL6\WIN9X_ME\ (Language)\DISK1\
 PCL 5e: \DRIVERS\PCL5E\WIN9X_ME\ (Language)\DISK1\
 RPCS™: \DRIVERS\RPCS\WIN9X_ME\ (Language)\DISK1\
 - **Windows 2000/XP**
 PCL 6: \DRIVERS\PCL6\WIN2K_XP\ (Language)\DISK1\
 PCL 5e: \DRIVERS\PCL5E\WIN2K_XP\ (Language)\DISK1\
 RPCS™: \DRIVERS\RPCS\WIN2K_XP\ (Language)\DISK1\

- **Windows NT 4.0**
PCL 6: \DRIVERS\PCL6\NT4\Language\DISK1\
PCL 5e: \DRIVERS\PCL5E\NT4\Language\DISK1\
RPCS™: \DRIVERS\RPCS\NT4\Language\DISK1\

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click **[OK]**.

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

4 Click **[PCL/RPCS Printer Drivers]**.

The software license agreement appears in the **[License Agreement]** dialog box.

5 After reading through all of the contents, click **[I accept the agreement]** to agree with the license agreement, and then click **[Next]**.

6 Select the printer drivers you want to install when the **[Select Program]** dialog box appears, and then click **[Next]**.

7 Select the model of the machine you are using.

To change the printer name, change it in the **[Change settings for 'Printer Name']** box.

8 Double-click the machine name to display the printer settings.

 **Note**

- The details shown for **[Comment:]**, **[Driver:]** and **[Port:]** vary depending on the operating system being used, the model of machine selected, and the port being used.
- Confirm that **[LPT1:]** is selected for **[Port:]**.
- Check to select **[Default Printer]** if you want to set the machine as the default printer.
- Check to select **[Shared]** if you want to share the machine. See the *Network Printing Guide* for information about setting up and using the machine in a network environment.

9 Click **[Continue]** to start printer driver installation.

10 Follow the instructions on the screen.

 **Note**

- During installation in Windows 2000, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.
- During installation in Windows XP, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

Setting Up Options

If the machine is installed with certain options, you should set the options using the printer driver.

Limitation

- Under Windows 2000/XP, changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.
- Under Windows NT 4.0, changing the setting of the printer requires Full Control 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.

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.

PCL 6/5e Printer Driver

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

The **[Printers]** window appears.

Note

- Under Windows XP Professional, access the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- Under Windows XP Home Edition, access the **[Printers and Faxes]** window by clicking **[Start]** on the taskbar. Then click **[Control Panel]**, **[Printers and Other Hardware]** and then **[Printers and Faxes]**.

2 Click the icon of the machine you want to use.

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

The Printer Properties window appears.

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

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

6 Click **[OK]**.

RPCS™ Printer Driver

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

The **[Printers]** window appears.

 **Note**

- Under Windows XP Professional, access the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- Under Windows XP Home Edition, access the **[Printers and Faxes]** window by clicking **[Start]** on the taskbar. Then click **[Control Panel]**, **[Printers and Other Hardware]** and then **[Printers and Faxes]**.

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

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

The Printer Properties window appears.

 **Note**

- If the following message appears “Configure installed accessories in the **[Accessories]** tab of **[Printer Configuration]**, which will open next.”, click **[OK]** and then go to step **5**.

- 4** Click the **[Change Accessories]** tab.

 **Note**

- Under Windows 95/98/Me, click **[Printer Configuration]** on the **[Print Settings]** tab, and then **[Change Accessories]**.

- 5** Select the options you have installed from the **[Select printer options]** group.

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

Installing the PostScript 3 Printer Driver

This section describes basic instructions for installing the PostScript 3 printer driver. Actual procedures may differ depending on the operating system. Follow the appropriate procedures.

Reference

To use the PostScript 3 printer driver, the optional PostScript 3 Interface Unit must be installed on the machine. See the *POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement* for details.

Important

- When updating to the latest version of the printer driver, you should uninstall any earlier versions. See “Uninstalling the Printer Driver”, *Printer Reference 2*.

Windows 95/98/Me - Installing the PostScript 3 Printer Driver

Installing the printer driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click [OK].

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

Note

- The printer driver with the selected language will be installed.

4 Select [PostScript 3 Printer Driver].

[Add Printer Wizard] starts.

5 Click [Next].

6 Check [Local Printer], and then click [Next].

A dialog box for selecting the printer appears.

7 Select the model of the machine you are using, and then click [Next].

8 In the [Available ports:] box, click [Printer Port], and then click [Next].

9 Change the name of the machine if you wish to, and then click **[Next]**.

 **Note**

- Check **[Yes]** if you want to set the machine as the default printer.

10 Follow the instructions on the screen.

Setting up options

If the machine is installed with certain options, you should set the options using the printer driver.

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

The **[Printers]** window appears.

2 Click the icon of the machine you want to use.

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

The Printer Properties window appears.

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

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

6 Click **[OK]**.

Windows 2000/XP - Installing the PostScript 3 Printer Driver

Installing the printer driver

 **Limitation**

- Installing a printer driver requires Administrators permission. When you install a printer driver, log on using an account that has Administrators permission.

 **Note**

- If you want to share the machine on a Windows 2000/XP platform, use the **[Sharing]** tab in the Printer Properties to specify the additional driver (alternate driver). For details, see the documentation that comes with Windows 2000/XP.
- When prompted for the additional driver (alternate driver) location, select the following folders on the CD-ROM:
 - **Windows 95/98/Me:** \DRIVERS\PS\WIN9X_ME\ (Language)\DISK1\
 - **Windows NT 4.0:** \DRIVERS\PS\NT4\ (Language)\DISK1\

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click **[OK]**.

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

 **Note**

- The printer driver with the selected language will be installed.

4 Select **[PostScript 3 Printer Driver]**.

[Add Printer Wizard] starts.

5 Click **[Next]**.

6 Check **[Local Printer]**, and then click **[Next]**.

 **Note**

- Under Windows XP, check **[Local printer attached to this computer]**, and then click **[Next]**.

A dialog box for selecting the printer port appears.

7 Select the check box of the port you want to use, and then click **[Next]**.

A dialog box for selecting the printer appears.

8 Select the model of the machine you are using, and then click **[Next]**.

9 Change the name of the machine if you wish to, and then click **[Next]**.

 **Note**

- Check **[Yes]** if you want to set the machine as the default printer.

10 Select whether or not you want to share the machine, and then click **[Next]**.

 **Reference**

See the *Network Printing Guide* for information about setting up and using the machine in a network environment.

11 Follow the instructions on the screen.

 **Note**

- During installation, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.
- During installation in Windows XP, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

Setting up options

If the machine is installed with certain options, you should set the options using the printer driver.

Limitation

- Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

3

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

The **[Printers]** window appears.

Note

- Under Windows XP Professional, access the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- Under Windows XP Home Edition, access the **[Printers and Faxes]** window by clicking **[Start]** on the taskbar. Then click **[Control Panel]**, **[Printers and Other Hardware]** and then **[Printers and Faxes]**.

2 Click the icon of the machine you want to use.

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

The Printer Properties window appears.

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

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

6 Click **[OK]**.

Windows NT 4.0 - Installing the PostScript 3 Printer Driver

Installing the printer driver

Limitation

- Installing a printer driver requires Administrators permission. When you install a printer driver, log on using an account that has Administrators 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 6 or later before installing the printer driver. Contact your Windows retailer for more information about the latest version available.

Note

- If you want to share the machine on Windows NT 4.0, use the **[Sharing]** tab in the Printer Properties to specify the additional driver (alternate driver). For details, see the documentation that comes with Windows NT 4.0.
- When prompted for the additional driver (alternate driver) location, select the following folders on the CD-ROM:
 - **Windows 95/98/Me:** \DRIVERS\PS\WIN9X_ME\ (Language)\DISK1\

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click **[OK]**.

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

Note

- The printer driver with the selected language will be installed.

4 Select **[PostScript 3 Printer Driver]**.

[Add Printer Wizard] starts.

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

A dialog box for selecting the printer port appears.

6 Select the check box of the port you want to use, and then click [Next].

A dialog box for selecting the printer appears.

7 Select the model of the machine you are using, and then click [Next].

8 Change the name of the machine if you wish to, and then click [Next].

 **Note**

Check [Yes] if you want to set the machine as the default printer.

9 Select whether or not you want to share the machine, and then click [Next].

 **Reference**

See the *Network Printing Guide* for information about setting up and using the machine in a network environment.

10 Follow the instructions on the screen.

Setting up options

If the machine is installed with certain options, you should set the options using the printer driver.

 **Limitation**

Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

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

The [Printers] window appears.

2 Click the icon of the machine you want to use.

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

The Printer Properties window appears.

4 Click the [Device Settings] tab.

5 Select the options you have installed from the [Installable Options] group.

6 Click [OK].

Bidirectional transmission

When bidirectional transmission is enabled, information such as paper size and feed direction is automatically sent to the computer. You can also check the machine's status from your computer.

- Bidirectional transmissions are supported by Windows 95/98/Me, Windows 2000/XP and Windows NT 4.0.
- When bidirectional transmission is running, the machine status and information can be viewed by opening the printer driver screen.

To support bidirectional transmission, the following conditions are required:

❖ When connecting with a parallel cable

- The computer must support bidirectional transmission.
- The machine must be set to bidirectional transmission.
- The machine parallel port and computer parallel port are connected using a parallel interface cable that supports bidirectional transmission.

Note

- Under Windows 95/98/Me, **[Enable bi-directional support for this printer]** must be selected in **[Spool Settings]** on the **[Details]** tab in RPCS™ printer driver.
- Under Windows 2000/XP, or Windows NT 4.0, **[Enable bidirectional support]** must be selected, and **[Enable printer pooling]** must not be selected on the **[Port]** tab in RPCS™ printer driver.

❖ When connecting with the network

- The machine must be set to bidirectional transmission.
- SmartNetMonitor for Client included on the CD-ROM must be installed. One of the following conditions must also be satisfied besides the two requirements mentioned above.
- The port for SmartNetMonitor for Client and the TCP/IP protocol must be used.
- The standard TCP/IP port is used without changing the port name (Windows 2000/XP).
- The IP address specified in the Microsoft TCP/IP Print is used (Windows NT 4.0).
- The IP address is included in port name when using IPP protocol.

Note

- Under Windows 95/98/Me, **[Enable bi-directional support for this printer]** must be selected in **[Spool Settings]** on the **[Details]** tab in RPCS™ printer driver.
- Under Windows 2000/XP, or Windows NT 4.0, **[Enable bidirectional support]** must be selected, and **[Enable printer pooling]** must not be selected on the **[Port]** tab in RPCS™ printer driver.

❖ **When connecting with IEEE 1394**

- The port on the optional IEEE 1394 Interface Unit and the IEEE 1394 port on the computer are connected using an interface cable (Windows Me, Windows 2000/XP).

 **Note**

- [Active]** is selected in the SCSI print of IEEE 1394 and **[Active]** is selected in the Bidi-SCSI print.
- Under Windows Me, **[Enable bi-directional support for this printer]** must be selected in **[Spool Settings]** on the **[Details]** tab in RPCS™ printer driver.
- Under Windows 2000/XP, or Windows NT 4.0, **[Enable bidirectional support]** must be selected, and **[Enable printer pooling]** must not be selected on the **[Port]** tab in RPCS™ printer driver.

❖ **When connecting with USB2.0**

- The port on the optional USB2.0 Interface Board and the USB port on the computer are connected using a USB interface cable (Windows 98SE/Me, Windows 2000/XP).

 **Note**

- Under Windows 98SE/Me, **[Enable bi-directional support for this printer]** must be selected in **[Spool Settings]** on the **[Details]** tab in RPCS™ printer driver.
- Under Windows 2000/XP, **[Enable bidirectional support]** must be selected, and **[Enable printer pooling]** must not be selected on the **[Port]** tab in RPCS™ printer driver.



Mac OS - Installing the PostScript 3 Printer Driver and Utilities

It is necessary to install a printer driver and a PPD file to print from a Macintosh. Follow the procedures to install a printer driver and a PPD file on Macintosh running OS 8.6 or later versions up to 9.2, and Mac OS X Classic mode.

Note

- For installing the PostScript 3 printer driver in Mac OS X, see p.52 “Mac OS X - Installing a PPD File”

PostScript Printer Driver

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click the CD-ROM icon.
- 3** Double-click the [Mac OS 8 and 9] folder.
- 4** Double-click the [PS Driver] folder.
- 5** Double-click the folder of the language you use.
- 6** Open [Disk 1] and double-click the installer icon.
The PostScript 3 printer driver installer window appears.
- 7** Follow the instructions on the screen.

PPD File

- 1** Double-click [Extensions] in [System Folder].
- 2** Double-click [Printer Descriptions].
- 3** Double-click the CD-ROM icon on the desktop.
- 4** Double-click the [Printer Descriptions] folder in the [Mac OS 8 and 9] folder.
- 5** Double-click [Disk 1] in the folder of the language you use.
- 6** Drag the PPD file into [Printer Descriptions] in [Extensions] in [System Folder].
- 7** Drag the plugin file into [Printer Descriptions] in [Extensions] in [System Folder].
- 8** Restart the Macintosh.

Setting Up the PPD File

Preparation

Make sure that the machine is connected to an AppleTalk network before performing the following procedure.

- 1** On the Apple menu, select **[Chooser]**.
- 2** Click the **[Adobe PS]** icon.
- 3** In the **[Select a PostScript Printer:]** list, click the name of the machine you want to use.
- 4** Click **[Setup]**.
- 5** Click the printer description file you want to use, and then click **[Select]**.

The PPD file is set up, and the **[Adobe PS]** icon appears at the left of the machine name in the list. Next, follow the procedure on p.50 “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 **[Adobe PS]** icon.
- 3** In the **[Select the PostScript Printer:]** list, click the name of the machine you want to use, and then click **[Setup]**.
- 4** Click **[Configure]**.
A list of options appears.
- 5** Select the options 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 box.

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

Installing Adobe Type Manager (ATM)

 **Note**

- Close all applications that are running before installation. Install after restarting.

- 1** Start the Macintosh.
- 2** Insert the CD-ROM into the CD-ROM drive.
- 3** Double-click the CD-ROM icon.
- 4** Double-click the [Mac OS 8 and 9] folder.
- 5** Double-click the [ATM] folder.
- 6** Double-click the [ATM 4.6.2 installer] icon.
- 7** Follow the instructions on screen.
- 8** Restart the Macintosh.

 **Note**

- Make sure to restart the computer. ATM will be completely installed only after restarting.

- 9** Select [Control Panel] from the Apple menu, and then select [ATM].
- 10** Open the ATM control panel.

 **Note**

- For more information about installation, see the User's Guide in the ATM folder.

Installing screen fonts

- 1** Start the Macintosh.
- 2** Insert the CD-ROM into the CD-ROM drive.
- 3** Double-click the CD-ROM icon.
- 4** Double-click the [Mac OS 8 and 9] folder.
- 5** Double-click the [Fonts] folder.
- 6** Copy the fonts you want to install into the [System] folder.
A confirmation dialog box appears.
- 7** Click [OK].
The fonts are installed.

8 Restart the Macintosh.

Reference

For information about installing the Printer Utility for Mac, see the *POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement*.

Mac OS X - Installing a PPD File

3

It is necessary to install a PPD file to print from a Macintosh. Follow the procedures to install a PPD file on Macintosh running Mac OS X.

Preparation

You need an administrator name and a password (phrase). For more information, consult your administrator.

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click the CD-ROM icon.
- 3** Double-click the [Mac OS X] folder.
- 4** Double-click the [PPD Installer] folder, and then double-click the installer icon.
- 5** Follow the instructions on screen.

Setting Up the PPD File

- 1** Run Print Center.
- 2** Click [Add Printer].
 -  **Note**
 - Select [AppleTalk] in the first pop-up menu.
 - If the zone has been set, select the zone in the second pop-up menu.
- 3** Select the PPD file for the model you are using from the “Printer Model:” pop-up menu.
- 4** Click [Add].

Setting Up Options

Limitation

- You cannot make printer option settings in Mac OS X. Do not make settings for options that have not been installed.

Installing the Printer Driver Using USB

This section gives basic instructions for installing printer drivers using USB. The printer drivers can be installed from the CD-ROM that comes with this machine.

Preparation

Be sure that all other applications are closed and the computer is not printing before installation.

Windows 98SE/Me - Installing the Printer Driver Using USB

3

The procedure below uses Windows 98 as an example. The procedure for Windows Me may be slightly different.

When the USB interface cable is used for the first time, the “plug and play” function starts and **[New Hardware Found]**, **[Device Driver Wizard]** or **[Found New Hardware Wizard]** dialog box appears, depending on the system used.

If printer drivers are already installed, the “plug and play” is displayed, and the printer with its port directed to the USB interface cable is added to the “Printers” folder.

1 Click **[Next]**.

2 Select **[Search for the best driver for your device. {Recommended}.]**, and then click **[Next]**.

3 Check **[Specify a location:]**, and then click **[Browse...]**.

The **[Browse for Folder]** dialog box appears.

4 Insert the CD-ROM provided into the CD-ROM drive.

Note

- When Auto Run starts, click **[Exit]**.
- If you want to disable Auto Run, press **[Shift]** when inserting the CD-ROM into the drive and keep it pressed until the computer completes transmission to the drive.

5 Select the drive where the printer driver is located according to the operating system used, and then click **[Next]**.

If the CD-ROM drive is D, the folder will be “D:\DRIVERS\USB-PRINT\WIN98ME”.

6 Confirm the printer driver location, and then click **[Next]**.

“USB Printing Support” will be installed.

7 Click **[Finish]**.

8 Follow the “plug and play” on the screen to install the printer drivers. **Note**

- Each printer driver is stored in the following folders on the CD-ROM:
 - **PCL 6:** \DRIVERS\PCL6\WIN9X_ME\ (Language)\DISK1
 - **PCL 5e:** \DRIVERS\PCL5E\WIN9X_ME\ (Language)\DISK1
 - **RPCS™:** \DRIVERS\RPCS\WIN9X_ME\ (Language)\DISK1
 - **PostScript 3:** \DRIVERS\PS\WIN9X_ME\ (Language)\DISK1

When installation is complete, the printer with its port directed to “USB00n” appears on the **[Printers]** folder. (“n” is the number of printers connected.)

3

Windows 2000/XP - Installing the Printer Driver Using USB

 **Limitation**

- Installing a printer driver requires the Administrators permission. When you install a printer driver, log on using an account that has the Administrators permission.

When the USB interface cable is used for the first time, the **[Found New Hardware Wizard]** dialog box appears, and Windows 2000/XP's “USB Printing Support” will be installed automatically.

If the printer driver is already installed, the “plug and play” is displayed, and the printer with its port directed to the USB interface cable is added to the **[Printers]**^{*1} folder.

 **Note**

- Under Windows XP, even if the printer driver has already been installed, **[Found New Hardware Wizard]** may start when connecting the printer and the computer with the USB interface cable for the first time. In this case, install the printer driver by following the procedure below.

1 Install the printer driver by referring to the instructions for installing using a Parallel/Ethernet connection. **Note**

- Each printer driver is stored in the following folders on the CD-ROM:
 - **PCL 6:** \DRIVERS\PCL6\WIN2K_XP\ (Language)\DISK1
 - **PCL 5e:** \DRIVERS\PCL5E\WIN2K_XP\ (Language)\DISK1
 - **RPCS™:** \DRIVERS\RPCS\WIN2K_XP\ (Language)\DISK1
 - **PostScript 3:** \DRIVERS\PS\WIN2K_XP\ (Language)\DISK1

When installation is complete, the printer with its port directed to “USB00n” appears on the **[Printers]**^{*1} folder. (“n” is the number of printers connected.)

^{*1} Under Windows XP, the folder is **[Printers and Faxes]**.

Macintosh - Creating a Desktop Printer Icon

When you connect the machine and your computer using a USB connection, create a Desktop Printer icon.

! **Limitation**

- In Mac OS X Native mode, printing is disabled when connected to the machine using a USB connection.

1 Double-click [Desktop Printer Utility] in the [AdobePS Components] folder.

2 Select [AdobePS] in [With:] and [Printer (USB)] in [Create Desktop], and then click [OK].

3 Click [Change] in [USB Printer Selection].

4 Select the model of the machine you are using in [Select a USB Printer:], and then click [OK].

5 Click [Auto Setup] in [PostScript™ Printer Description (PPD) File].

6 Click [Create].

7 Enter the machine name, and then click [Save].

The printer icon appears on the desktop.

8 Exit the Desktop Printer Utility.

Installing the Printer Driver Using IEEE 1394

This section gives basic instructions for installing printer drivers using IEEE 1394. SCSI Print and IP over 1394 are available when printing via IEEE 1394. The printer drivers can be installed from the CD-ROM that comes with this machine.

Preparation

Be sure that all other applications are closed and the computer is not printing before installation.

Important

- Do not connect new IEEE 1394 devices to the machine or turn on the machine while installing the printer driver.
- Before uninstalling the printer driver, be sure to disconnect the IEEE 1394 interface cable from the computer.
- The optional IEEE 1394 Interface Board is not supported by Windows 95/98 or Windows NT 4.0. If the “plug and play” function starts, click **[Cancel]** in the **[New Hardware Found]** or **[Device Driver Wizard]** dialog box.

Printing with SCSI Print

Printing using a SCSI print device with the optional 1394 Interface Unit is possible under Windows 2000 or Windows XP.

Preparation

“SCSI print” must be enabled and “IP over 1394” must be disabled from the machine's display panel. For more information about how to make machine settings, see p.19 “Configuring the Printer for the Network”.

Note

- If **[Found New Hardware Wizard]** appears every time the computer is started or the cable is connected with Windows 2000 or Windows XP when the print function that uses SCSI print is not installed, disable the device. See p.59 “Disabling the Device” for more information.

Installing the Printer Driver

Note

- If you send data from your computer when data is being received from another client computer, your data will be printed after completing the print job from the other client computer.
- When the machine is connected to the computer properly via the 1394 Interface, the appearance of the icon in the printer window changes.

Windows 2000

Important

- Under Windows 2000, the optional IEEE 1394 Interface Board can only be used with Service Pack 1 or later. If the Service Pack is not installed, the connectable number of devices in a IEEE 1394 bus is only one, and the client cannot access the IEEE 1394 Interface Board without using an account that has Administrators permission.

1 Connect the machine and the computer using the IEEE 1394 interface cable.

The **[Found New Hardware Wizard]** dialog box appears.

2 Click **[Next]**.

The message **[This wizard will complete the installation for this Device: Unknown]** appears.

3 Select **[Optional search locations:]**, and then click **[Next]**.

4 When the **[Locate Driver Files]** message appears, check the **[Optional search locations.]** checkbox and the **[Specify a location]** checkbox, and then click **[Next]**.

5 Hold down the left **[SHIFT]** key on the keyboard and insert the CD-ROM into the CD-ROM drive.

Keep the left **[SHIFT]** key held down until the computer has finished accessing the CD-ROM.

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

6 Click **[Browse]**.

7 Select the printer driver you want to install. Each printer driver is stored in the following folders:

- **PCL 6:** \DRIVERS\PCL6\WIN2K_XP*(Language)*\DISK1
- **PCL 5e:** \DRIVERS\PCL5E\WIN2K_XP*(Language)*\DISK1
- **RPCS™:** \DRIVERS\RPCS\WIN2K_XP*(Language)*\DISK1
- **PostScript 3:** \DRIVERS\PS\WIN2K_XP*(Language)*\DISK1

8 Click **[Open]**.

9 Click **[OK]**.

A printer model selection dialog box appears.

10 Follow the instructions on the screen.

 **Note**

- During installation, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.
- When the installation is complete, the printer with its port directed to “1394_00n” appears on the **[Printers]** folder. (“n” is the number of printers connected.)

Windows XP

3

1 Connect the machine and the computer using the IEEE 1394 interface cable.

The **[Found New Hardware Wizard]** dialog box appears.

2 Confirm that **[This wizard helps you install software for: (printer name)]** is displayed, and select **[Install from a list on specific location (Advanced)]**, and then click **[Next]**.

The message **[Please choose your search and installation option.]** appears.

3 Check the **[Search for the best driver in these locations.]** check box, and the **[Include this location in the search:]** check box.

4 Install the printer driver following the same procedures as steps **5-10** in Windows 2000.

 **Note**

- During installation in Windows XP, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.
- When the installation is complete, the printer with its port directed to “1394_00n” appears on the **[Printers and Faxes]** folder. (“n” is the number of printers connected.)

Printing with IP over 1394

You can print by setting the IP address for this machine and the computer on which Windows Me (SmartNetMonitor for Client) or Windows XP (SmartNetMonitor for Client or Standard TCP/IP Port) is installed.

Preparation

“IP over 1394” must be enabled on the machine's display panel and an IP address for the IEEE 1394 must be configured. For more information about how to make machine settings, see p.19 “Configuring the Printer for the Network”.

Limitation

- When using the IEEE 1394 (IP over 1394) interface in a network, the Ethernet interface cannot be used in the same network.

Note

- Make sure that the IEEE 1394 interface and Ethernet interface subnet mask range does not overlap.
- Under Windows Me, if **[Found New Hardware Wizard]** appears every time the computer is started or the cable is connected, disable the device. See p.59 “Disabling the Device” for more information.

Disabling the Device

- ❖ If **[Add New Hardware Wizard]** appears every time you restart the computer with an operating system that does not support SCSI print, or plug in/take out the cable, disable the device by the following procedures.

- Windows Me

- ① In the **[Add New Hardware Wizard]** dialog box, confirm that **[Windows has found the following new Hardware: IEEE SBP-2 Device]** is displayed, and select **[Recommended search for a better driver [Recommended]]**, and then click **[Next]**.
- ② When the **[Windows was unable to locate the software for this device.]** message appears, click **[Finish]**.

- ❖ If you do not want to install the printer when **[Found New Hardware Wizard]** starts with an operating system that supports SCSI print, disable the device by the following procedures.

- Windows XP

- ① In the **[Found New Hardware Wizard]** dialog box, confirm that **[This wizard helps you install software for: Unknown]** is displayed, and select **[Install from a list on specific location (Advanced)]**, and then click **[Next]**.

- ② When the **[Please choose your search and installation option.]** message appears, remove all the selections from **[Search for the best driver in these locations.]**, and then click **[Next]**.
- ③ When the **[The wizard could not find the software on your computer for..]** message appears, click **[OK]**.
- ④ When the **[Cannot Install this Hardware]** message appears, select the **[Don't prompt again to install the software]** check box, and then click **[Finish]**.

- Windows 2000

- ① In the **[Found New Hardware Wizard]** dialog box, click **[Next]**.
- ② When the **[This wizard will complete the installation for this Device: Unknown]** message appears, select **[Search for a suitable driver for my device [recommended]]**, and then click **[Next]**.
- ③ When the **[Locate Driver Files]** message appears, remove all the selections from **[Optional search locations.]**, and then click **[Next]**.
- ④ When the **[Driver Files Search Results]** message appears, select the **[Disable the device. The Add/Remove Hardware Wizard in the control Panel can be able to complete the driver installations.]** check box, and then click **[Finish]**.

❖ If **[Found New Hardware Wizard]** appears every time you restart the computer with an operating system that does not support IP over 1394 or plug in/take out the cable, disable the device with the following procedure.

- Windows 2000

- ① In **[Found New Hardware Wizard]** dialog box, click **[Next]**.
- ② When the **[This wizard will complete the installation for this Device:]** message and "IP over 1394" appear, select **[Search for a suitable driver for my device [recommended]]**, and then click **[Next]**.
- ③ When the **[Locate Driver Files]** message appears, remove all the selections from **[Optional search locations.]**, and then click **[Next]**.
- ④ When the **[Driver Files Search Results]** message appears, select the **[Disable the device. The Add/Remove Hardware Wizard in the Control Panel can be able to complete the driver installations.]** check box, and then click **[Finish]**.



Installing the SmartNetMonitor for Client/Admin

! Limitation

- ❑ If your operating system is Windows 2000/XP or Windows NT 4.0, installing software using Auto Run requires Administrators permission. When you install a printer driver using Auto Run, log on using an account that has Administrators permission.

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click **[OK]**.

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

4 Click **[SmartNetMonitor for Client/Admin]**.

The software license agreement appears in the **[License Agreement]** dialog box.

5 After reading through all of the contents, click **[I accept the agreement]** to agree with the license agreement, and then click **[Next]**.

6 Select the program you want to install when the **[Select Program]** dialog box appears.

7 Follow the instructions on the screen.

Installing the Agfa Monotype Font Manager 2000

! Limitation

- ❑ If your operating system is Windows 2000/XP or Windows NT 4.0, installing software using Auto Run requires Administrators permission. When you install a printer driver using Auto Run, log on using an account that has Administrators permission.

3

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

3 Select a language for the interface language, and then click [OK].

The following languages are available: English (English), Espanol (Spanish), Francais (French)

The default interface language is English.

4 Select [Agfa Monotype Font Manager 2000].

5 Follow the instructions on the screen.

Using Adobe PageMaker Version 6.0, 6.5 or 7.0

If you use the machine under Windows 95/98/Me, Windows 2000/XP or Windows 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” in the folder “DRIVERS\PS\WIN9X_ME\ (Language)\DISK1\” on the CD-ROM.

The “WIN9X_ME” folder, inside the “PS” folder is for Windows 95/98/Me. Use the folder at this level that is appropriate for the operating system you are currently using.

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

Copy the file with extension “.ppd” to the PageMaker folder.

- **For PageMaker 6.0 default installation**
The directory is “C:\PM6\RSRC\PPD4”.
- **For PageMaker 6.5 default installation**
The directory is “C:\PM65RSRC\USENGLISH\PPD4”.
The “USENGLISH” may vary depending on your language selection.
- **For PageMaker 7.0 default installation**
The directory is “C:\PM7RSRC\USENGLISH\PPD4”.
The “USENGLISH” may vary depending on your language selection.

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