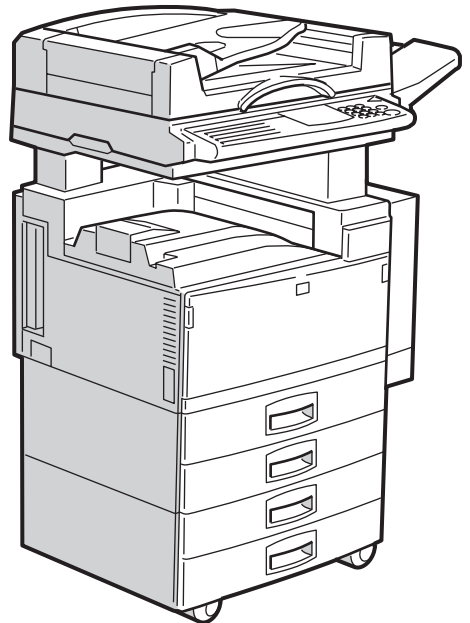


# PRINTER Controller Type 450e (Option)

## OPERATING INSTRUCTIONS PRINTER REFERENCE 1



ND0A0101

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

For safety, please follow the instructions in this manual.



**PRINTER Controller Type 450e (Option)  
OPERATING INSTRUCTIONS**



## **Introduction**

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

Please keep this manual in a handy place near the machine.

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

## **Important**

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

## **Trademarks**

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Ethernet® is a registered trademark of Xerox Corporation.

PostScript®, Acrobat® are registered trademarks of Adobe System Incorporated.

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

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

IPS-PRINT™ Printer Language Emulation® Copyright 1988 - 1999, XIONICS DOCUMENT TECHNOLOGIES, INC., All Rights Reserved.

## **Warning:**

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

## **Notes:**

Some illustrations might be slightly different from your machine.

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

The model names of the machines do not appear in the following pages. Confirm of the type of the machine before reading this manual. ⇒ P.1 "*Machine Types*"

## 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.**

### Warning

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 100BaseTX environment):

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

### Declaration of Conformity

Product Name: Printer Controller

Model Number: Type 450e

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.

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

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

## 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.

# Manuals for This Machine

There are six manuals that separately describe the operational procedures for the operation and maintenance of the machine.

This manual, Printer Reference 1, contains detailed instructions for using this machine as a printer.

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

## ❖ **System Settings**

Describes the procedures and functions for adjusting the settings and defaults of this machine for the copier.

## ❖ **Copy Reference**

Describes the procedures and functions for using this machine as a copier.

## ❖ **Printer Reference 1**

Describes the system settings, procedures and functions for using this machine as a printer. (This Manual)

## ❖ **Printer Reference 2**

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

## ❖ **PostScript 3 Operating Instructions Supplement (option)**

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

## ❖ **Network Interface Board Quick Configuration Guide (option)**

Describes the procedures and provides necessary information about setting up and using the machine under the network environment. The manual is provided as a PDF file which is included on the CD-ROM labeled "Printer Drivers and Utilities". Read this manual as your first choice before referring to the paper version of the Quick Configuration Guide which comes with optional Network Interface Board Type 450-E.

# How to Read This Manual

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## Symbols

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In this manual, the following symbols are used:

 **WARNING:**

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

 **CAUTION:**

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

\* The statements above are notes for your safety.

 **Important**

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

 **Preparation**

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

 **Note**

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

 **Limitation**

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

 **Reference**

This symbol indicates a reference.

[    ]

Keys that appear on the machine's panel display.

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

【    】

Keys built into the machine's operation panel.

Keys on the computer's keyboard.

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




# Machine Types

There are two models of this machine. The main differences between them are print speed and available options.

 **Note**

- ☐ Please see the inside of the front cover of the “Copy Reference” to confirm which model (Type 1 or Type 2) you use.

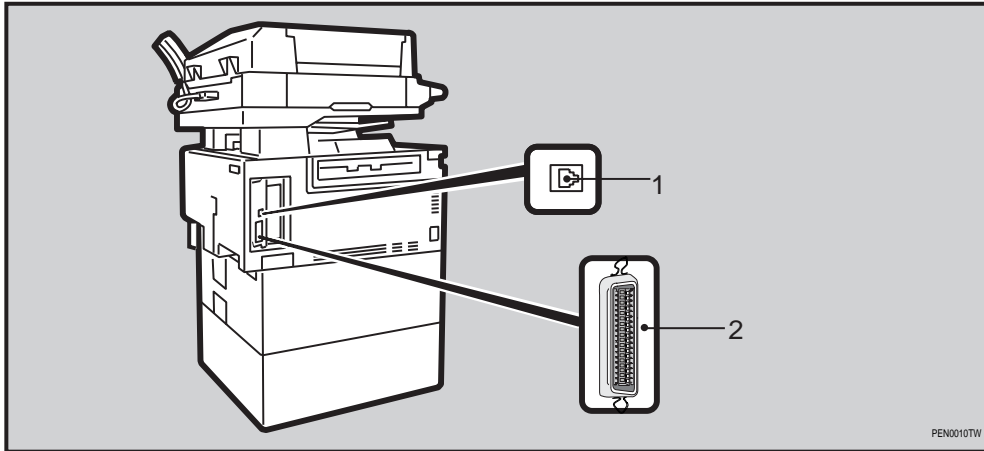
	<b>Type 1</b>	<b>Type 2</b>
Printing Speed	35 ppm (A4  , 8 1/2" × 11"  )	45 ppm (A4  , 8 1/2" × 11"  )
3000-Sheet Finisher	—	Option
Punch Kit	—	Option (with the 3000-sheet finisher)



# 1. Getting Started

## Connecting the Machine

Confirm that the shape and the position of the connector are as shown in the illustration.



1. 10BASE-T/100BASE-TX (option)

2. Parallel Port

---

## Requirements

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### Requirements

---

Before using this machine, confirm that all the environmental and electrical requirements have been met. Connect the machine to the host computer using the parallel port, optional Network Interface Board 450-E, or both.

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

### Important

- The interface cable is not supplied in the box. It is your responsibility to provide the interface cable appropriate for the computer that you are using.

### Reference

For more information about using the parallel port, see P.5 “Connecting the Machine to the Host Using the Parallel Interface Cable”.

For more information about using a network, see P.5 “Connecting the Machine Using Network Interface Board 450-E”.

### Parallel Cable Requirements

Connect the machine to the host computer using a parallel port. This machine does not provide the parallel cable to connect the machine to the host computer. The machine's parallel interface is a standard bi-directional interface. It requires a standard 36-pin parallel cable compliant with IEEE 1284 and a parallel port available on the host computer.

 **Note**

- Do not use a parallel cable that is longer than 3 meters (10 feet).

### Network Cable Requirements

Optional Network Interface Board 450-E can be installed to allow direct connection to an Ethernet network.

Network Interface Board supports 10BASE-T/100BASE-TX connections.

You can use the machine in the following network environments:

- Using the appropriate network management software and printer driver.
- Attaching the machine to a networked computer set up as a server.

<b>Client</b>	Windows 95, 98, NT 4.0 *1, Macintosh (optional PostScript3 Kit Type 450 is required )
<b>Driver</b>	PCL 6/5e , PostScript 3
<b>File Server</b>	NetWare 3.x, NetWare 4.x, NetWare 5
<b>Protocol</b>	TCP/IP, IPX/SPX, AppleTalk

\*1 Under Windows NT 4.0, only x86 CPU is supported.

In a mixed network environment, the protocol switches automatically.

 **Reference**

For more information about installing Network Interface Board 450-E, see the "Quick Configuration Guide" that comes with it.

For more information about resolving network connection problems, see "Troubleshooting" in "Printer Reference 2" that is provided as a PDF file.

 **Note**

- Consult the network administrator before connecting the machine to a network.
- In a 100BASE-TX environment, be sure to use properly shielded and grounded cable (STP, Category/Type5) for the connection to the host computer (and/or HUB) in order to meet FCC and EMC Directive 89/336/EEC emission guidelines.

## Connecting the Machine to the Host Using the Parallel Interface Cable

Connect the machine to the host computer using a parallel interface cable compliant with IEEE 1284.

Follow these steps to connect the machine to the host computer.

- 1** Confirm that you have the correct cable.
- 2** Confirm that both the machine and the host computer are turned off.
- 3** Plug the 36-pin end of the parallel cable into the parallel port of the machine.

### Reference

See P.3 “*Connecting the Machine*” to confirm of the position of the parallel port.

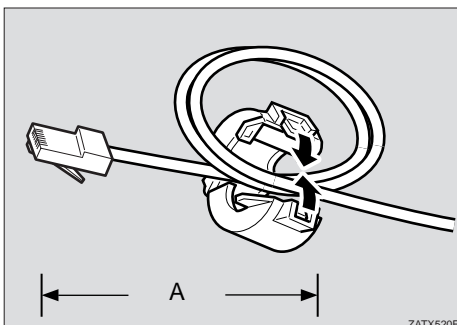
- 4** Squeeze the wire clips on each side of the connector together until they snap into place. The clips hold the cable securely in place.
- 5** Plug the other end of the parallel cable into the computer's parallel port.

## Connecting the Machine Using Network Interface Board 450-E

Connect the machine to the network using Network Interface Board 450-E.

Follow these steps to connect the machine.

- 1** Confirm that you have the correct cable.
- 2** Confirm that the machine is turned off.
- 3** Loop the network cable twice. The loops should be about 10 cm (4 inch) from the end of the cable on the end closest to the connector.
- 4** Attach the ferrite core to the loops.



A: 10 cm (4 inch)

**5** Attach the network cable to the 10BASE-T/100BASE-TX port of the machine.

 **Reference**

See P.3 “*Connecting the Machine*” to confirm of the position of the 10BASE-T/100BASE-TX port.

 **Note**

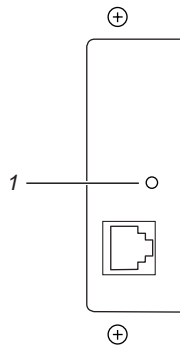
- Confirm that the cable is connected to the 10BASE-T/100BASE-TX port.
- Do not connect the cable into the fax port or the scanner port.

**6** Connect the other end of the cable into the network.

---

### Indicator on Network Interface Board

---



#### 1. Indicator

The green indicator is on while the machine is in a network environment.

The yellow indicator is on when the error occurs.

# Features of This Machine

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

1

## ❖ High Productivity

As this machine comes with a 35/45<sup>\*1</sup> pages per minute (ppm) engine and offers a variety of paper handling options, handling documents will be more efficient.





## ❖ Network Connectivity

This machine is network ready with optional Network Interface Board.

## ❖ Network Utility

PRINTER MANAGER<sup>\*2</sup>, software consisting of Administrator and Client versions, is provided. With this software, multiple print devices can be utilized effectively together on a network. This software offers several convenient functions such as parallel printing and recovery printing.

## ❖ Major Specifications

Printing Speed <sup>*1</sup>	35/45 ppm (A4  , 8 1/2" × 11"  , simplex) 30/37 ppm (A4  , 8 1/2" × 11"  , duplex)
Engine Resolution	600 dpi / 400 dpi / 300 dpi resolution Enhanced resolution with edge smoothing
Printer Language	PCL 5e, PCL 6 Adobe PostScript Level 3 <sup>*3</sup>
Memory	8 MB Max. up to 72 MB
Interface	10BASE-T/100BASE-TX <sup>*3</sup> × 1 IEEE1284 × 1

<sup>\*1</sup> Printing speed depends on your machine type. ⇒ P.1 "Machine Types"

<sup>\*2</sup> For the name of PRINTER MANAGER you use, see the "Quick Configuration Guide" for optional Network Interface Board which is included on the CD-ROM.

<sup>\*3</sup> Option

## Printer Drivers for This Machine

Printing requires installation of a printer driver for the operating system. The following drivers are included on the CD-ROM that comes with this machine.

Printer Language Operating System	PCL 5e	PCL 6	PostScript 3
Windows 95 <sup>*1</sup>	√	√	√
Windows 98 <sup>*2</sup>	√	√	√
Windows NT 4.0 <sup>*3</sup>	√	√	√ <sup>*5</sup> <sup>*6</sup>
Macintosh <sup>*4</sup>			√ <sup>*6</sup>

<sup>\*1</sup> Microsoft Windows 95 operating system

<sup>\*2</sup> Microsoft Windows 98 operating system

<sup>\*3</sup> Microsoft Windows NT Server operating system Version 4.0, Microsoft Windows NT Workstation operating system Version 4.0 in a computer using a x86 processor

<sup>\*4</sup> Required system is 7.6.1 or later operating system.

<sup>\*5</sup> Requires Service Pack 3 or later.

<sup>\*6</sup> The Adobe PostScript printer drivers and PostScript Printer Description (PPD) files are included on the CD-ROM.

### ❖ PCL Printer Drivers

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

⇒ P.21 *“Windows 95/98 - Installing the PCL 6/5e Printer Driver”*

⇒ P.22 *“Windows NT 4.0 - Installing the PCL 6/5e Printer Driver”*

### ❖ Adobe PostScript Printer Drivers and PPD files

The Adobe PostScript printer drivers and the PPD files are included on the CD-ROM that comes with this machine. Adobe PostScript 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.24 *“Windows 95/98 - Installing the PostScript Printer Driver”*

⇒ P.26 *“Windows NT 4.0 - Installing the PostScript Printer Driver”*

⇒ P.29 *“Macintosh - Installing the PostScript Printer Driver”*



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## Software and Utilities Included on the CD-ROM

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### ❖ Agfa Font Manager

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

### ❖ PRINTER MANAGER FOR ADMINISTRATOR

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

#### Reference

For the name of PRINTER MANAGER FOR ADMINISTRATOR you use, see the “Quick Configuration Guide” for optional Network Interface Board which is included on the CD-ROM.

For more information about using PRINTER MANAGER FOR ADMINISTRATOR, see PRINTER MANAGER FOR ADMINISTRATOR Online Help.

### ❖ PRINTER MANAGER FOR CLIENT

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

#### Reference

For the name of PRINTER MANAGER FOR CLIENT you use, see the “Quick Configuration Guide” for optional Network Interface Board which is included on the CD-ROM.

For more information about using PRINTER MANAGER FOR CLIENT, see PRINTER MANAGER FOR CLIENT Online Help.

### ❖ PortNavi

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

#### Reference

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

### ❖ Acrobat Reader

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

#### Note

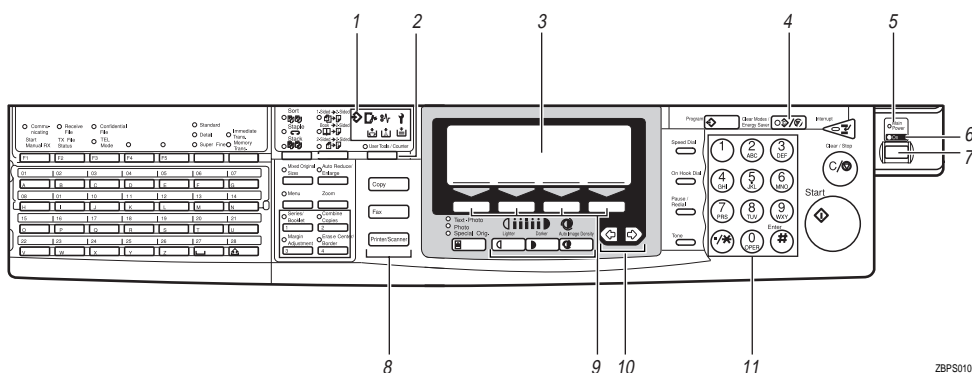
- Documentation about using the printer is included on the CD-ROM in a PDF format.

# Guide to This Machine

## 1

### Operation Panel

This operation panel is for installed Facsimile, Printer and Scanner.



ZBPS010E

#### 1. Data In Indicator

Shows if a print job is being sent from the host computer.

If the indicator is blinking, a job is being sent.

If the indicator stays on, there is data to be printed out.

#### 2. [User Tools/Counter] key

- User Tools  
Press to change the default settings and conditions to meet your requirements. ⇒ "Using the Operation Panel" in "Printer Reference 2" that is provided as a PDF file
- Counter  
Press to check or print the total number of prints made.

#### 3. Panel Display

Shows the operation status, error messages, and function menus. Press selection keys to select the function on the panel display.

#### 4. [Clear Modes/Energy Saver] key

Press this key for about one second to switch and from Energy Saver mode.

#### Note

- This key is not effective, while the default settings of the Printer Features are being changed using User Tools. ⇒ "Using the Operation Panel" in "Printer Reference 2" that is provided as a PDF file

#### 5. Main Power Indicator

This indicator lights up when the main power switch is turned on, and goes off when the switch is turned off.

#### 6. On Indicator

This indicator lights up when the operation switch is turned on, and goes off when the switch is turned off.

## 7. Operation Switch

Press this switch to turn the power on (the **On** indicator lights up). To turn the power off, press this switch again (the **On** indicator goes off).

### Note

- This key is not effective, while the default settings of the Printer Features are being changed using User Tools. ⇒ "Using the Operation Panel" in "Printer Reference 2" that is provided as a PDF file

## 8. Function keys

Press to change the functions (Copy, Facsimile, Printer and Scanner) shown on the panel display. To use the printer function, press the **[Printer]** key.

## 9. Selection keys

Press the key under the item you wish to select.

## 10. keys (Cursor keys)

Press to select an item on the panel display.

## 11. Number keys

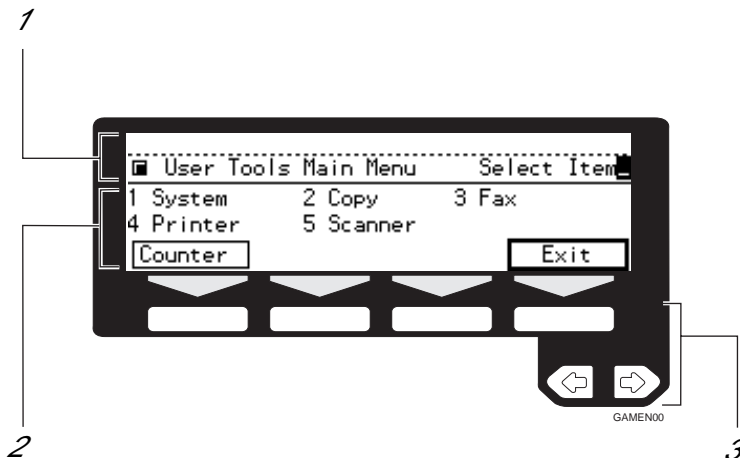
Use to enter the desired number.

## Panel Display

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

### Important

- Do not apply a strong shock or a force of about 30 N (about 3 kgf) or more to the panel display. Otherwise, the display might be damaged.



**1. Operation and Error Messages appear.**



**2. Items can be selected or specified.**

### Note

- The selected item is highlighted on the panel display.

**3. These keys correspond to the item on the display.**

Press a relevant key to select a function.

- To move the selection to the left, press the  key.
- To move the selection to the right, press the  key.

---

## Basic Key Operations

---

The following table shows basic key operations.

<b>[OK]</b>	Sets a selected function or entered value and returns to the previous display.
<b>[Cancel]</b>	Cancels a selected function or entered value and returns to the previous display.
<b>[↑Prev.][↓Next]</b>	When there are too many items on the display, use these keys to move between pages.
<b>◀▶</b>	Press to highlight the selection you wish to select.
<b>[Menu]</b>	Press to return to the previous menu.
<b>[Exit]</b>	Sets a selected function or entered value and returns to the initial display.

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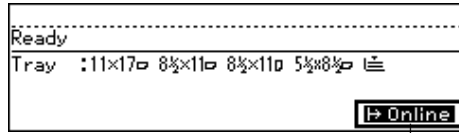
## Online and Offline

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### Online

---

Online is the state in which the machine can receive data from the computer.



1

#### 1. [Online] key

This key is highlighted while the machine is online.

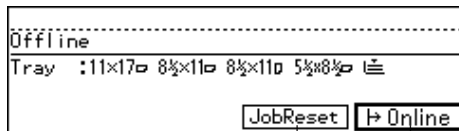
Press to change the machine to offline.

---

### Offline

---

Offline is a state in which the machine cannot receive data from the computer.



1

2

#### 1. [JobReset] key

Press to cancel the current print job.

#### 2. [Online] key

Press to change the machine to online.

1

# 2. Configuring the Printer for the Network with the Operation Panel

## Configuring the Printer for the Network with the Operation Panel

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

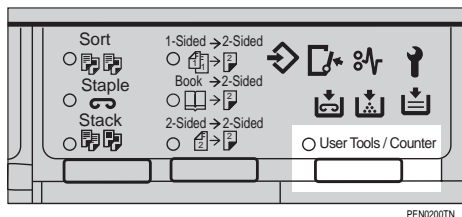
The following table shows the operation panel settings and their default settings. These are included in "TCP/IP Menu" of the "Network" menu.

	Items	Default
1	IP Address	000.000.000.000
2	Subnet Mask	000.000.000.000
3	Gateway Address	000.000.000.000

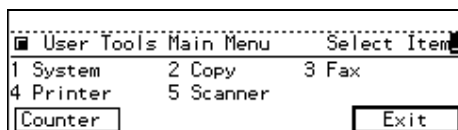
### Reference

For more information about using this machine as a network printer, see the "Quick Configuration Guide" which is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities". Read this manual as your first choice before referring to the paper version of the Quick Configuration Guide which comes with optional Network Interface Board Type 450-E.

### 1 Press [User Tools/Counter].

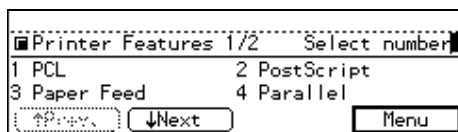


The "User Tools Main Menu" appears.

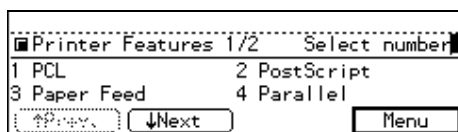


### 2 Press [4] on the number keys.

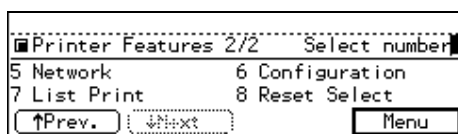
The "Printer Features" menu appears.



### 3 Press [↓Next] to display "5 Network".

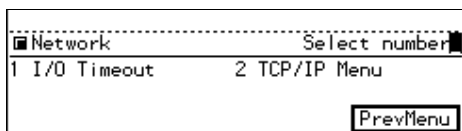


The following message appears on the panel display.



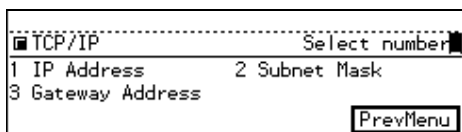
**4** Press **[5]** on the number keys.

The following message appears on the panel display.



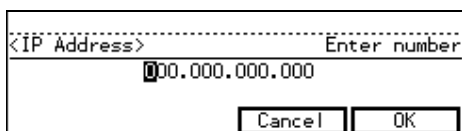
**5** Press **[2]** on the number keys.

The following message appears on the panel display.



**6** Press **[1]** on the number keys.

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



**7** Set the IP address using the number keys.

**Note**

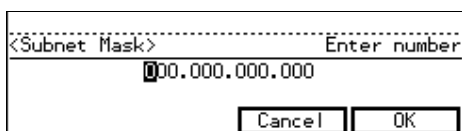
▣ ◀ or ▶ is available to change the input position.

**8** Press **[OK]**.

Changed values are saved and the message displayed in step **5** appears.

**9** Press **[2]** on the number keys.

The current subnet mask appears on the panel display. A pointer (▣) blinks on the value to be set.



**10** Set the subnet mask using the number keys.

**Note**

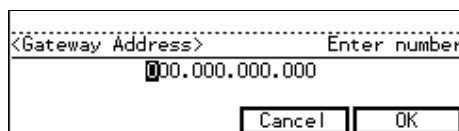
▣ ◀ or ▶ is available to change the input position.

**11** Press **[OK]**.

Changed values are saved and the message displayed in step **5** appears.

**12** Press **[3]** on the number keys.

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



**13** Set the gateway address using the number keys.

**Note**

▣ ◀ or ▶ is available to change the input position.

**14** Press **[OK]**.

Changed values are saved and the message displayed in step **5** appears.

**15** Press **[PrevMenu]**.

The message displayed in step **4** appears.

**16** Press **[PrevMenu]**.

The message displayed in step **3** appears.

**17** Press **[Menu]**.

The message displayed in step **1** appears.

**18** Press **[Exit]**.

The panel display returns to the ready condition.



 **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.

2

# 3. Installing the Printer Driver and Software

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

## Auto Run

You can install the printer driver by using Auto Run.

Auto Run is available for the following operating systems.

- Windows 95/98
- Windows NT 4.0

If you install the PostScript printer driver on Windows 95/98/NT 4.0 or a Macintosh, see information about installing the PostScript printer driver.

⇒ P.24 *"Windows 95/98 - Installing the PostScript Printer Driver"*

⇒ P.26 *"Windows NT 4.0 - Installing the PostScript Printer Driver"*

⇒ P.29 *"Macintosh - Installing the PostScript Printer Driver"*

### Important

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

### Limitation

- If your system is Windows NT 4.0, installing a printer driver requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you install a printer driver, log on under Full Control permission.

### Reference

For more information about the software and utilities included on the CD-ROM, see P.9 *"Software and Utilities Included on the CD-ROM"*.

### Note

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

.....

## Using the Shared Printer on Windows NT 4.0 for Windows 95/98 Client

If you want to share the printer on Windows NT 4.0, you must not install the printer driver using Auto Run. Install the printer driver of Windows 95/98 for an alternate driver.

For more information about installing the printer driver as an alternate driver, see P.22 *"Windows NT 4.0 - Installing the PCL 6/5e Printer Driver"*.

.....

### 3

---

## Installing by Auto Run

---

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

### Important

- Never have two versions of the same printer driver installed on the system at the same time. When upgrading to a new version of the printer driver, uninstall the old version, and then install the new one. For more information about uninstalling the printer driver and software, see "Uninstalling the Printer Driver and Software" in "Printer Reference 2" that is provided as a PDF file.

### Note

- If the "plug and play" function is started by Auto Run, click **[Cancel]** in the **[New Hardware Found]** or **[Device Driver Wizard]** dialog box, and then insert the CD-ROM. The **[New Hardware Found]** or **[Device Driver Wizard]** dialog box appears depending on the system version of Windows 95/98.
- The appropriate language name is used in the CD-ROM folder: ENGLISH (English), FRANCAIS (French), ESPANOL (Spanish), PORTUGUS (Portuguese)

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

---

# Installing the PCL 6/5e Printer Driver

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

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### Installing the Printer Driver

---

Install the driver in accordance with the steps explained. ⇒ P.20 “*Installing by Auto Run*”

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---

### Setting Up Options

---

 **Note**

When setting up options, you should access the Printer Properties from Windows. You cannot access the Printer Properties from an application.

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

The **[Printers]** window appears.

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

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

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

**5** Click **[OK]**.

---

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

---

---

### Installing the Printer Driver

---

Install the driver in accordance with the steps explained. ⇒ P.20 *“Installing by Auto Run”*

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

3

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

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

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

- PCL 5e  
  \DRIVERS\PCL5E\WIN95\_98\ (Language)\DISK1\
- PCL 6  
  \DRIVERS\PCL6\WIN95\_98\ (Language)\DISK1\

#### **Reference**

For more information about the language name, see P.20 *“Installing by Auto Run”*.

---

## Setting Up Options

---

### **Limitation**

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

### **Note**

- When setting up options, you should access the Printer Properties from Windows. You cannot access the Printer Properties from an application.

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

The **[Printers]** window appears.

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

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

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

**5** Click **[OK]**.

# Installing the PostScript Printer Driver

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## Windows 95/98 - Installing the PostScript Printer Driver

---

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### Installing the Printer Driver

---

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

3

**1** Close all applications that are currently running.

**2** Insert the CD-ROM in the CD-ROM drive.

 **Note**

- To cancel Auto Run, insert the CD-ROM while pressing the **[SHIFT]** key until the computer finishes accessing the CD-ROM.

**3** Click **[Start]** on the task bar, and then click **[Run]**.

**4** Click **[Browse]**.

**5** Select the "SETUP.EXE" file in the following folder on the CD-ROM.

`\DRIVERS\PS\WIN95_98\ (Language) \DISK1\`

 **Note**

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

**6** Click **[Open]**.

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

**8** Follow the instructions on the screen.



---

## Setting Up Options

---

 **Note**

- When setting up options, you should access the **[Device Options]** tab from Windows. You cannot set up options when accessing the **[Device Options]** tab from an application.

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

The **[Printers]** window appears.

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

**3** Click the **[Device Options]** tab.

The **[Installable options]** group appears.

**4** From the **[Installable options]** box, select the option you have installed.

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

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

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

**7** After making all settings you want, click **[OK]**.

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## Windows NT 4.0 - Installing the PostScript Printer Driver

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### Installing the Printer Driver

---

Follow these steps to install the PostScript printer driver on Windows NT 4.0.

 **Limitation**

- Installing a printer driver requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on under Full Control permission.

**1** Close all applications that are currently running.

**2** Insert the CD-ROM in the CD-ROM drive.

 **Note**

- To cancel Auto Run, insert the CD-ROM while pressing the **[SHIFT]** key until the computer finishes accessing the CD-ROM.

**3** Click **[Start]** on the task bar, and then click **[Run]**.

**4** Click **[Browse]**.

**5** Select the "SETUP.EXE" file in the following folder on the CD-ROM.

`\DRIVERS\PS\NT4\ (Language) \DISK1\`

 **Note**

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

**6** Click **[Open]**.

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

**8** Follow the instructions on the screen.

---

## Setting Up Options

---

### Limitation

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

### Note

- When setting up options, you should access the Printer Properties from Windows. You cannot set up options when accessing the Printer Properties from an application.

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

The **[Printers]** window appears.

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

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

**4** Use the **[Installable Options]** group to specify the options.

**5** Click **[OK]** to close the Printer Properties.

---

## Using Adobe PageMaker Version 6.0 or 6.5

---

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

The PPD file is the file with extension ".ppd". It is in the folder "\\PS\\WIN95\_98\\(Language)\\DISK1\\" on the CD-ROM.

The **[WIN95\_98]** folder, inside the **[PS]** folder, is for the Windows 95/98 operating system. Use the folder at this level that is appropriate for the operating system you are using.

3

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

### Reference

For more information about the language name, see P.20 "*Installing by Auto Run*".

Copy this file to the PageMaker folder.

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

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## Macintosh

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### Macintosh - Installing the PostScript Printer Driver

---

It is necessary to install a printer driver and a PPD file to print from a Macintosh. Follow these steps to install a printer driver and a PPD file into a Macintosh using a system 7.6.1 or later operating system.

- 1** Insert the CD-ROM in the CD-ROM drive.
- 2** Double-click the CD-ROM icon.
- 3** Double-click the [PS] folder.
- 4** Double-click the folder of the language you use.
- 5** Open [DISK1] and double-click the installer icon.
- 6** Follow the instructions on the screen.
- 7** Double-click [Extensions].
- 8** Double-click [Printer Descriptions].
- 9** Double-click the CD-ROM icon on the desktop.
- 10** Double-click [DISK1] in the folder of the language you use.
- 11** Click and drag the PPD file into [Printer Descriptions].
- 12** Restart the Macintosh.

---

## Setting Up the PPD File

---

### Preparation

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

- 1** On the [Apple] menu, select [Chooser].
- 2** Click the [Adobe PS] icon.
- 3** In the [Select a PostScript Printer:] list, click the name of the printer you want to use.
- 4** Click [Create].
- 5** Click the printer 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 printer name in the list. Next, follow the procedure on P.30 "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 printer you want to use, and then click [Setup].
- 4** Click [Configure].  
A list of options appears.
- 5** Select the option you want to set up and select the appropriate setting for it.

### Note

If the option you want to set up 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.

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# Notes to Users

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## ❖ To Windows 2000 users

These notes describe the procedures and necessary information on using this machine under Windows 2000.

It is necessary to see the manuals that come with this machine for further information in addition to these notes.⇒ P.10 "*Windows 2000 Configuration*"

## ❖ To Windows 95/98, Windows NT 4.0 and Macintosh users

These notes describe the modified procedures and additional information on using this machine under Windows 95/98, Windows NT 4.0 and Macintosh.

It is necessary to see the manuals that come with this machine for further information in addition to these notes.⇒ P.5 "*Windows 95/98, Windows NT 4.0 Configuration*", P.18 "*Macintosh Configuration*"

### Note

- The way of installing the PCL printer driver and software has been changed to Auto Run on Windows 95/98 and Windows NT 4.0. See these notes to install the printer driver and software instead of the "Operating Instructions".

### Reference

For information about Auto Run, see P.2 "*Auto Run*"

---

# Installing the Printer Driver and Software

Use the CD-ROM labeled "Printer Drivers and Utilities" that comes with this machine.

---

## Auto Run

---

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

Auto Run is available for the following operating systems:

- Windows 95/98
- Windows 2000
- Windows NT 4.0

For how to install a Macintosh, see ⇒ P.18 "*Macintosh Configuration*"

### Important

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

### Limitation

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

### Note

- The PostScript printer driver must be installed by using **[Add Printer Wizard]** in the **[Printers]** window.
- If the **[Digital Signature Not Found]** dialog box appears, click **[Yes]** to continue the installation on Windows 2000.
- Auto Run might not automatically work with certain OS settings. In this case, manually run "INSTTOOL.EXE" on the root to install printer driver.
- To cancel Auto Run, insert the CD-ROM while pressing the **[SHIFT]** key until your computer finishes accessing the CD-ROM.

---

### Sharing the Printer on Windows 2000 or Windows NT 4.0 with Windows 95/98 Clients

If you want to share the printer on Windows 2000 or Windows NT 4.0, you must not install the printer driver using Auto Run. Install the printer driver of the Windows 95/98 for an alternate driver.

For more information about installing the printer driver as an alternate driver, see the description of Windows 2000 in "Installing the PCL 6/5e Printer Driver" ⇒ P.10

and the description of Windows NT 4.0 in "Installing the PCL 6/5e Printer Driver" ⇒ P.5

---

## Installing the printer driver by Auto Run

---

Follow these steps to install the printer driver on Windows 95/98/Windows 2000/Windows NT 4.0.

### Important

- Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, uninstall the old version, and then install the new one.

### Note

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

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

---

## Installing the software and utilities by Auto Run

---

You can install the following software and utilities that are included on the CD-ROM labeled "Printer Drivers and Utilities" by using Auto Run.

- PRINTER MANAGER FOR ADMIN <sup>\*1</sup>
- PRINTER MANAGER FOR CLIENT <sup>\*1</sup>
- Font Manager <sup>\*2</sup>

<sup>\*1</sup> For the name of PRINTER MANAGER FOR ADMIN/FOR CLIENT, see the "Operating Instructions". See PRINTER MANAGER FOR ADMIN/FOR CLIENT Online Help for details on using PRINTER MANAGER FOR ADMIN/FOR CLIENT.

<sup>\*2</sup> See Font Manager Help for details on using the Font Manager.

---

**⚠ Important**

- If you upgrade to Windows 2000 from Windows 95/98, the software and utilities must be uninstalled prior to installing Windows 2000. You must reinstall them after upgrading to the Windows 2000 environment.

- 1** Close all applications that are currently running.
- 2** Insert the CD-ROM into the CD-ROM drive.
- 3** Follow the instructions on the screen.
- 4** Restart your computer after installation is complete.

---

# Windows 95/98, Windows NT 4.0 Configuration

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## Installing the PCL 6/5e Printer Driver

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### Windows 95/98

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For information, see *"Installing the printer driver by Auto Run"* ⇒ P.3

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### Windows NT 4.0

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#### 🔔 Limitation

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

For information, see *"Installing the printer driver by Auto Run"* ⇒ P.3

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

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

- PCL 5e  
  \DRIVERS\PCL5E\WIN95\_98\Language\DISK1\
- PCL 6  
  \DRIVERS\PCL6\WIN95\_98\Language\DISK1\

---

### Setting up options

---

For how to set up the options, see *"Setting Up Options"* in *"Windows 95/98 - Installing the PCL 6/5e Printer Driver"* and *"Windows NT 4.0 - Installing the PCL 6/5e Printer Driver"* in the "Operating Instructions".

---

---

## Installing the PostScript Printer Driver

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### Windows 95/98

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#### Important

- Be sure to install the PPD file for Windows 95/98. Do not accidentally install the PPD file for Windows 2000 or Windows NT 4.0.

**1** Close all applications that are currently running.

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

The **[Printers]** window appears.

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

**[Add Printer Wizard]** starts.

**4** Click **[Next]**.

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

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

**6** Click **[Have Disk]**.

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

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

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

**8** Click **[Browse]**.

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

**10** In the **[Folders:]** box, double-click **[DRIVERS]**, **[PS]**, **[WIN95\_98]**, **[DISK1]**.

**11** Click **[Open]**.

**12** Click **[OK]**.

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

**14** In the **[Available ports:]** box, click to select **[Printer Port]**, and then click **[Next]**.

**15** Change the name of the printer if you want, and then click **[Next]**.

**16** Select whether or not you want to print a test page, and then click **[Finish]**.

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

**Important**

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

---

## Windows NT 4.0

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**Limitation**

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

**Important**

- We recommend that you upgrade the Windows NT 4.0 operating system to Service Pack 3 or later before installing the printer driver. Contact your Windows retailer for more information about the latest version available.
- Be sure to install the PPD file for Windows NT 4.0. Do not accidentally install the PPD file for Windows 95/98 or Windows 2000.

**1** Close all applications that are currently running.

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

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

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

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

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

**7** Insert the CD-ROM into the CD-ROM drive while pressing the **[SHIFT]** key until the computer finishes accessing the CD-ROM.  
If the Auto Run program starts, click **[Cancel]**.

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

**9** In the **[Folders:]** box, double-click **[DRIVERS]**, **[PS]**, **[NT4]**, **[DISK1]**.

---

**10** Click **[Open]**.

**11** Click **[OK]**.

A printer model selection dialog box appears.

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

A dialog box for changing the printer name appears.

**13** Change the name of the printer if you want, and then click **[Next]**.

**14** Click **[Next]**.

**15** In the next dialog box asking if you want to print a test page, select **[No]** and then click **[Finish]**.

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

 **Note**

Print a test page after completing installation and restarting Windows.

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

 **Important**

If the printer is equipped with any options (e.g. the paper feed unit or memory unit), you should set up the options with the printer driver.

---

## Setting up options

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For how to set up the options, see *"Setting Up Options"* in *"Windows 95/98 - Installing the PostScript Printer Driver"* and *"Windows NT 4.0 - Installing the PostScript Printer Driver"* in the "Operating Instructions".

---

## Uninstalling the Printer Driver and Software

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For information, see the descriptions of Windows 95/98, Windows NT 4.0 in *"Uninstalling the PCL 6/5e Printer Driver"* and *"Uninstalling the PostScript Printer Driver"* in the "Operating Instructions".



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## **Setting Up the Printer Driver and Canceling a Print Job**

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### **Accessing the Printer Properties**

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For information, see the descriptions of Windows 95/98, Windows NT 4.0 in "*Accessing the Printer Properties*" in the "Operating Instructions".

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### **Canceling a print job**

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For information, see the descriptions of Windows 95/98, Windows NT 4.0 in "*Canceling a Print Job*" in the "Operating Instructions".

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# Windows 2000 Configuration

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## Installing the PCL 6/5e Printer Driver

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### Installing the printer driver : Network environment

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To use the PCL 5/6e printer driver in a network environment, you can install it by using Auto Run.

#### **Limitation**

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

#### **Note**

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

**1** Close all applications that are currently running.

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

**3** Follow the instructions on the screen.

**4** Restart your computer after installation is complete.

**5** Set up the Accessories with the printer driver.

If you want to share the printer on Windows 2000, you must not install the printer driver using Auto Run. In this case, cancel Auto Run and install the printer driver using **[Add Printer Wizard]** in the **[Printers]** window.

Use the printer driver for Windows 2000 and Windows NT 4.0.

- PCL 5e  
  \DRIVERS\PCL5E\NT4\_2000\Language\DISK1\
- PCL 6  
  \DRIVERS\PCL6\NT4\_2000\Language\DISK1\

#### **Note**

- During installation by using **[Add Printer Wizard]**, the **[Digital Signature Not Found]** dialog box appears. In this case, click **[Yes]** to continue the installation.

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

- PCL 5e  
  \DRIVERS\PCL5E\NT4\_2000\ (Language)\DISK1\
- PCL 6  
  \DRIVERS\PCL6\NT4\_2000\ (Language)\DISK1\

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

- PCL 5e  
  \DRIVERS\PCL5E\WIN95\_98\ (Language)\DISK1\
- PCL 6  
  \DRIVERS\PCL6\WIN95\_98\ (Language)\DISK1\

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### Installing the printer driver : Parallel connection

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If the printer is connected to the computer with parallel cable, you must install the printer driver by using **[Add Printer Wizard]**. Follow the procedure below.

#### **Limitation**

- Installing a printer driver requires Manage Printers permission. Members of the Administrators, and Power Users groups have Manage Printers permission by default. When you install a printer driver, log on using an account that has Manage Printers permission.

#### **Note**

- If the "plug and play" function starts, you can also install the printer driver following the instructions on the screen.
- During installation by using **[Add Printer Wizard]**, **[Digital Signature Not Found]** dialog box appears. In this case, click **[Yes]** to continue the installation.

**1** Close all applications that are currently running.

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

The **[Printers]** window appears.

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

**[Add Printer Wizard]** starts.

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

A dialog box for selecting the printer port appears.

**5** Click to select the printer port you want to use, and then click **[Next]**.

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

**6** Click **[Have Disk]**.

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

---

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

 **Note**

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

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

**9** In the **[Folders:]** box, double-click **[DRIVERS]**, **[PCL5E]** or **[PCL6]**, **[NT4\_2000]**, **[DISK1]**.

**10** Click **[Open]**.

**11** Click **[OK]**.

A printer model selection dialog box appears.

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

A dialog box for changing the printer name appears.

**13** Change the name of the printer if you want, and then click **[Next]**.

**14** Click **[Next]**.

**15** In the next dialog box you will be asked to print a test page, select **[No]** and then click **[Next]**.

A confirmation dialog box appears.

**16** Confirm the settings you have set, and then click **[Next]**.

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

**17** Set up the Accessories with the printer driver.

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## Setting up options

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 **Limitation**

Changing the setting of the printer 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.

For how to set up the options, see "Setting Up Options" in "Windows NT 4.0 - Installing the PCL 6/5e Printer Driver" in the "Operating Instructions".

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## Installing the PostScript Printer Driver

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### Installing the printer driver

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#### Limitation

- Installing a printer driver requires Manage Printers permission. Members of the Administrators, and Power Users groups have Manage Printers permission by default. When you install a printer driver, log on using an account that has Manage Printers permission.

**1** Close all applications that are currently running.

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

The **[Printers]** window appears.

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

**[Add Printer Wizard]** starts.

**4** After confirming that the **[Local Printer]** option is selected, click **[Next]**.

A dialog box for selecting the printer port appears.

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

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

**6** Click **[Have Disk]**.

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

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

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

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

**9** In the **[Folders:]** box, double-click **[DRIVERS]**, **[PS]**, **[WIN2000]**, **[DISK1]**.

**10** Click **[Open]**.

**11** Click **[OK]**.

A printer model selection dialog box appears.

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

A dialog box for changing the printer name appears.

**13** Change the name of the printer if you want, and then click **[Next]**.

---

**14** Click **[Next]**.

**15** In the next dialog box asking if you want to print a test page, select **[No]** and then click **[Next]**.

A confirmation dialog box appears.

**16** Confirm the settings you have set, and then click **[Finish]**.

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

**17** You should set up the options with the printer driver.

**18** Restart the Windows.

 **Note**

- Print a test page after completing installation.

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## Setting up options

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 **Limitation**

- Changing the setting of the printer 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 printer you want to use. On the **[File]** menu, click **[Properties]**.

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

**4** Use the **[Installable Options]** group to select the options, and then select **[Installed]** or **[Not] Installed** from the drop-down list box.

**5** Repeat step **4** for all options.

**6** After making all settings you want, click **[OK]**.

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## Uninstalling the Printer Driver and Software

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 **Limitation**

- Uninstalling a printer driver requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you uninstall a printer driver, log on using an account that has Manage Printers permission.

For information, see the descriptions of Windows NT 4.0 in *"Uninstalling the PCL 6/5e Printer Driver"* and *"Uninstalling the PostScript Printer Driver"* in the "Operating Instructions".

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## Setting Up the Printer Driver and Canceling a Print Job

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### Accessing the printer properties

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#### Limitation

- Changing the setting of the printer 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.

For information, see the descriptions of Windows NT 4.0 in *"Accessing the Printer Properties"* in the "Operating Instructions".

In that procedure, substitute the following.

- **[Document Defaults] ⇒ [Printing Preferences...]**
- Default Document Properties ⇒ Printing Preferences Properties.

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### Canceling a print job

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For information, see the descriptions of Windows NT 4.0 in *"Canceling a Print Job"* in the "Operating Instructions".

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## Printing in a Network Environment

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For information, see the descriptions of Windows NT 4.0 in the manual that comes with this machine.

### Important

- The procedures written in this manual assume that you are a network administrator. If you aren't, be sure to consult your network administrator before configuration.

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### TCP/IP configuration

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Follow these steps to configure a Windows 2000 computer to use the TCP/IP protocol.

- 1** Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Network and Dial-up Connections]**.
- 2** Click **[Local Area Connection]**. On the **[File]** menu, click **[Properties]**.
- 3** Confirm that "Internet Protocol (TCP/IP)" is selected in the **[Components checked are used by this connection:]** box on the **[General]** tab.

#### Note

- If the check box of TCP/IP protocol is not selected, select it.
  - If the TCP/IP protocol is not installed, click **[Install]** on the **[General]** tab and install it. For more information about installing the TCP/IP protocol, see Windows 2000 Help.
- 4** Configure the TCP/IP protocols with the appropriate IP address, subnet mask and other settings.  
Confirm with the network administrator that the settings are correct.

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### NetBEUI configuration

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Follow these steps to configure a Windows 2000 computer to use the NetBEUI protocol.

- 1** Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Network and Dial-up Connections]**.
- 2** Click **[Local Area Connection]**. On the **[File]** menu, click **[Properties]**.
- 3** Confirm that "NetBEUI Protocol" is selected in the **[Components checked are used by this connection:]** box on the **[General]** tab.

#### Note

- If the check box of the NetBEUI protocol is not selected, select it.



- 
- If the NetBEUI protocol is not installed, click **[Install]** on the **[General]** tab and install it. For more information about installing the NetBEUI protocol, see Windows 2000 Help.
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## NetWare configuration

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### ❖ **Setting up a client computer**

This section describes how to set up a client computer when you use a NetWare print server.

In the operating manual, read each functional element as that of Windows 2000.

For information, see the descriptions of Windows NT 4.0 in "Setting up a Client Computer" in the manual that comes with this machine.

In that procedure, substitute the following.

- **[Network Neighborhood] ⇒ [My Network Places].**
- 

## Standard TCP/IP port configuration

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Standard TCP/IP is a standard port of Windows 2000 to enable Peer-to-Peer printing in a network environment.

For more information about Standard TCP/IP settings, see Windows 2000 Help.

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## LPR port configuration

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For information about Configuring LPR Port Printing, see Windows 2000 Help.

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# Macintosh Configuration

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## Installing the PostScript Printer Driver

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For information, see the descriptions of Macintosh in "Installing the PostScript Printer Driver" in the "Operating Instructions".

In the operating manual, substitute the following steps.

### Note

- It is not necessary to copy the "PrintingLib" file from the "Extensions" folder in the "System Folder" to your desktop before installing the PostScript printer driver.

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## Setting Up the PPD File and Options

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For information, see the descriptions of Macintosh in "*Setting up the PPD File*" and "*Setting Up Options*" in the "Operating Instructions".

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## Uninstalling the Printer Driver and Software

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For information, see the descriptions of Macintosh in "*Uninstalling the PostScript Printer Driver*" in the "Operating Instructions".

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## Setting Up the Printer Driver and Canceling a Print Job

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### Accessing the printer properties

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For information, see the descriptions of Macintosh in "*Accessing the Printer Properties*" in the "Operating Instructions".

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### Canceling a print job

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For information, see the descriptions of Macintosh in "*Canceling a Print Job*" in the "Operating Instructions".

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## Printing in a Network Environment

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For information, see the descriptions of Macintosh in the manual that comes with this machine.

**Important**

- ❑ The procedures written in this manual assume that you are a network administrator. If you are not, be sure to consult your network administrator before configuration.

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**Changing the zone**


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It may be necessary to change the zone configuration.

Use applications such as **Apple Printer Utility** or **LaserWriter Utility** to change the zone configuration in the Macintosh EtherTalk environment. These utilities are distributed by Apple Computer, Inc.

Follow these steps to use the Apple Printer Utility.

- ① Insert the CD-ROM into the CD-ROM drive.
- ② Copy the "Zone Name.ps" file in the "Zone Name" folder to the hard disk.
- ③ Open the copied "Zone Name ps" file using a text editor, and change "New-Zone" , which is in the second line from the bottom, to the name of the new zone.
 

```

%!PS-Adobe2.0 %%
Title: Changing Zone (EtherNet only)
%%CreationDate: Tue Dec 16 1997
%%EndComments
true 0 startjob not {ERROR}if
(%EtherTalk%) << /EtherTalkZone (NewZone) >> setdevparams
%%EOF

```
- ④ Save "Zone name.ps".
- ⑤ Run the Apple Printer Utility, and select the printer for which the new zone name is to be used.
- ⑥ Select **[Send PostScript File]** in the **[Utilities]** menu, and send "Zone name.ps" to the printer.

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